OKLAHOMA DEPARTMENT OF TRANSPORTATION

PROPOSED
R/W
AUGUST 2017

FOR SURVEY CONTROL DATA,
SEE SURVEY DATA SHEETS

STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED
STATE HIGHWAY

FEDERAL AID PROJECT NO. J2-4428(004)
GRADE, DRAIN, BRIDGE, & SURFACE
US 81 REALIGNMENT

GRADY COUNTY

CONTROL SECTION NO. 81-26-54P
STATE JOB NO. 24428(04)
SEE BRIDGE INDEX ON SHEET NO. 2 FOR STATION EXTENTS & LENGTHS.

SEE SHEET 2 FOR INDEX OF SHEETS, STANDARDS AND BRIDGES

DESIGN DATA	
ADT 20 20	= 10,500
ADT 20 40	= 14,130
DHV (2-WAY)	= 698
K (DHV/ADT)	= 9.5%
D	= 52%
T (% DHV)	= 17%
T (% ADT)	= 19%
T3 (% ADT)	= 11%
V	= 70 MPH
20YR FLEX. ESALS	= 12.4 M

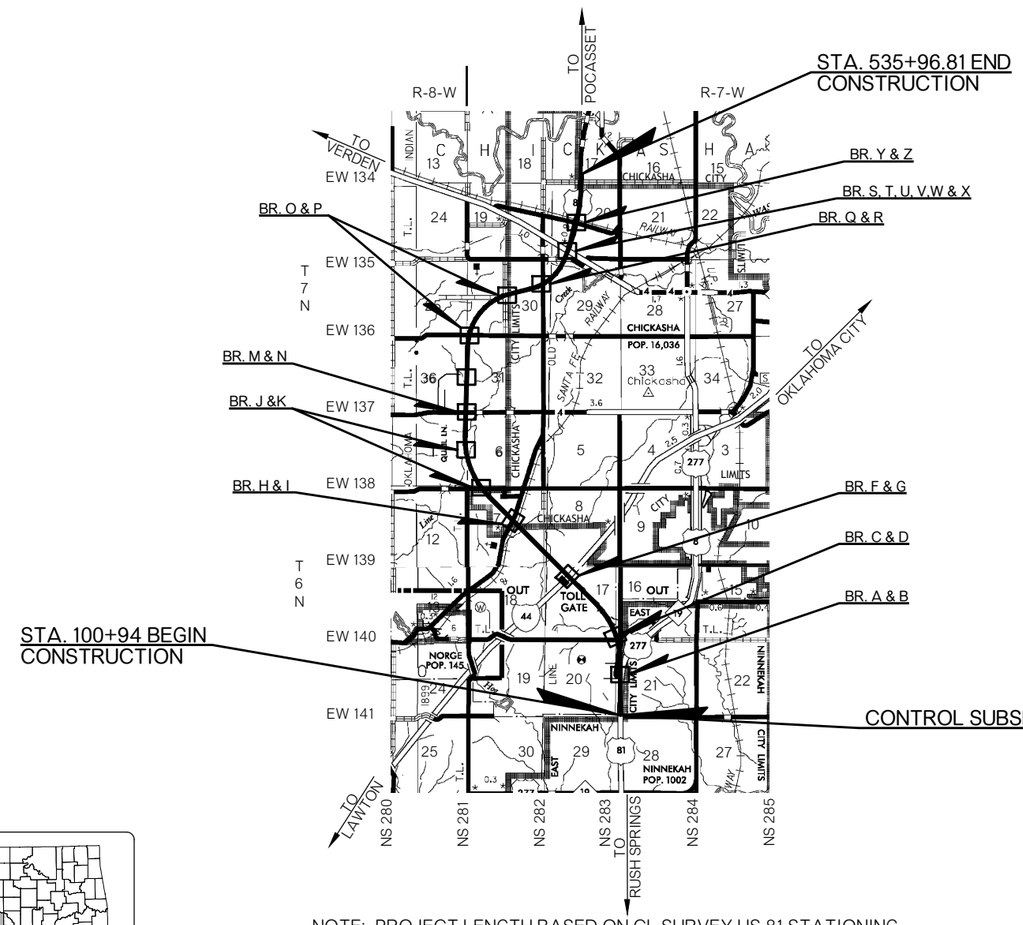
1"

PLAN 1" = 50'
PROFILE HOR. 1" = 50'
VER. 1" = 5'
LAYOUT MAP 1" = 5,280'

CONVENTIONAL SYMBOLS

- PROPOSED ROAD
- RAILROADS
- RANGE & TOWNSHIP
- SECTION LINES
- QUARTER SECTION LINES
- FENCES
- GROUND LINE
- EXISTING ROADS
- BASE LINE
- GRADE LINES (+2% ▲ -2%)
- TELEPHONE & TELEGRAPH
- POWER LINES
- BUILDINGS
- OIL WELLS
- DRAINAGE STRUCTURES - IN PLACE
- DRAINAGE STRUCTURES - NEW
- PRES. R/W — RIGHT-OF-WAY LINES - EXISTING
- R/W — RIGHT-OF-WAY LINES - NEW
- CONTROLLED ACCESS
- R/W — RIGHT-OF-WAY FENCE

2009 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION GOVERN, APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, JANUARY 4, 2010.



NOTE: PROJECT LENGTH BASED ON CL SURVEY US 81 STATIONING.

ROADWAY LENGTH	39,948.07 FT.	7.565 MI.
BRIDGE LENGTH	3,554.74 FT.	0.673 MI.
PROJECT LENGTH	43,502.81 FT.	8.238 MI.

EQUATIONS: NONE
EXCEPTION: NONE

THIS DOCUMENT IS PRELIMINARY IN NATURE AND IS NOT A FINAL, SIGNED AND SEALED DOCUMENT.

TRIAD DESIGN GROUP
Architecture • Engineering
3020 N.W. 149TH STREET
OKLAHOMA CITY, OK 73134
PH. (405) 752-1122
FAX (405) 752-8855
CA# 1759, RENEWAL 06-30-2019

JOSHUA M. JOHNSTON
LICENSED PROFESSIONAL ENGINEER NO. 26204

DATE

OKLAHOMA DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION
DATE APPROVED	DATE APPROVED
BY	BY
CHIEF ENGINEER	DIVISION ADMINISTRATOR

SWO 4380(1) F.A. PROJECT NO. J2-4428(004)
COUNTY GRADY COUNTY HIGHWAY US 81 REALIGNMENT SHEET NO. 0001

P.E. NO. XXXXX

PROPOSED
R/W
AUGUST 2017

BRIDGE INDEX

BRIDGE	ALIGNMENT	BEGIN STATION	END STATION	BRIDGE LENGTH
A	CL SURVEY US 81	112+76.19	114+56.69	180'-6"
B	CL SURVEY US 81	112+76.19	114+56.69	180'-6"
C	CL SURVEY US 81	139+42.43	141+86.33	242'-6 3/8"
D	CL SURVEY US 81	139+25.36	141+66.32	242'-3 5/8"
E	OMITTED			
F	CL SURVEY US 81	194+96.61	198+04.61	308'-0"
G	CL SURVEY US 81	194+99.59	198+07.59	308'-0"
H	CL SURVEY US 81	249+03.72	252+66.78	363'-0 3/4"
I	CL SURVEY US 81	249+22.47	252+85.53	363'-0 3/4"
J	CL SURVEY COUNTRY CLUB RD	107+28.93	111+62.63	433'-8 3/8"
K	CL SURVEY US 81	307+82.44	308+43.00	60'-6 3/4"
L	OMITTED			
M	CL SURVEY US 81	338+05.98	340+00.82	194'-10"
N	CL SURVEY US 81	338+08.98	340+03.82	194'-10"
O	CRL IDAHO AVE	1810+07.39	1813+06.93	299'-6 1/2"
P	CL SURVEY IOWA AVE	41+55.09	44+45.59	290'-6"
Q	CL SURVEY US 81	458+24.98	460+51.65	226'-8 1/16"
R	CL SURVEY US 81	457+90.52	460+13.72	223'-2 3/8"
S	CL SURVEY US 81	475+38.33	481+45.70	607'-4 1/2"
T	CL SURVEY US 81	475+72.70	481+68.80	596'-1 1/4"
U	RAMP AA	474+68.72	480+70.38	601'-8"
V	RAMP BB	476+41.63	482+43.29	601'-8"
W	CL SURVEY US 81	486+68.37	489+92.81	324'-5 1/4"
X	CL SURVEY US 81	486+57.31	489+80.31	323'-0"
Y	CL SURVEY US 81	507+00.68	510+48.15	347'-5 5/8"
Z	CL SURVEY US 81	507+02.07	510+47.99	345'-11 1/16"

INDEX OF SHEETS

0001	TITLE SHEET
0002	INDEX OF SHEETS, STANDARDS, AND BRIDGES
0003-0016	TYPICAL SECTIONS
AB01-AB02	GENERAL NOTES AND SUMMARY OF PAY QUANTITIES (BRIDGES)
B001-B002	GENERAL PLAN AND ELEVATION (BRIDGE "A")
B003-B004	GENERAL PLAN AND ELEVATION (BRIDGE "B")
B005-B006	GENERAL PLAN AND ELEVATION (BRIDGE "C")
B007-B008	GENERAL PLAN AND ELEVATION (BRIDGE "D")
B009-B010	GENERAL PLAN AND ELEVATION (BRIDGE "F")
B011-B012	GENERAL PLAN AND ELEVATION (BRIDGE "G")
B013-B014	GENERAL PLAN AND ELEVATION (BRIDGE "H")
B015-B016	GENERAL PLAN AND ELEVATION (BRIDGE "I")
B017-B018	GENERAL PLAN AND ELEVATION (BRIDGE "J")
B019-B020	GENERAL PLAN AND ELEVATION (BRIDGE "K")
B021-B022	GENERAL PLAN AND ELEVATION (BRIDGE "M")
B023-B024	GENERAL PLAN AND ELEVATION (BRIDGE "N")
B025-B026	GENERAL PLAN AND ELEVATION (BRIDGE "O")
B027	GENERAL PLAN AND ELEVATION (BRIDGE "P")
B028	GENERAL PLAN AND ELEVATION (BRIDGE "Q")
B029	GENERAL PLAN AND ELEVATION (BRIDGE "R")
B030-B031	GENERAL PLAN AND ELEVATION (BRIDGE "S")
B032-B033	GENERAL PLAN AND ELEVATION (BRIDGE "T")
B034-B035	GENERAL PLAN AND ELEVATION (BRIDGE "U")
B036-B037	GENERAL PLAN AND ELEVATION (BRIDGE "V")
B038	GENERAL PLAN AND ELEVATION (BRIDGE "W")
B039	GENERAL PLAN AND ELEVATION (BRIDGE "X")
B040	GENERAL PLAN AND ELEVATION (BRIDGE "Y")
B041	GENERAL PLAN AND ELEVATION (BRIDGE "Z")
R001-R036	GEOMETRIC LAYOUT
R037-R195	PLAN AND PROFILE SHEETS
S001-S076	SURVEY DATA SHEETS
X001-X699	CROSS SECTIONS

THE FOLLOWING STANDARD DRAWINGS SHALL BE REQUIRED FOR THIS PROJECT:

ROADWAY	BRIDGE	TRAFFIC

US 81 REALIGNMENT
GRADY COUNTY

INDEX OF SHEETS,
STANDARDS AND BRIDGES

State Job No. 24428(04) Sheet No. 0002

PROPOSED
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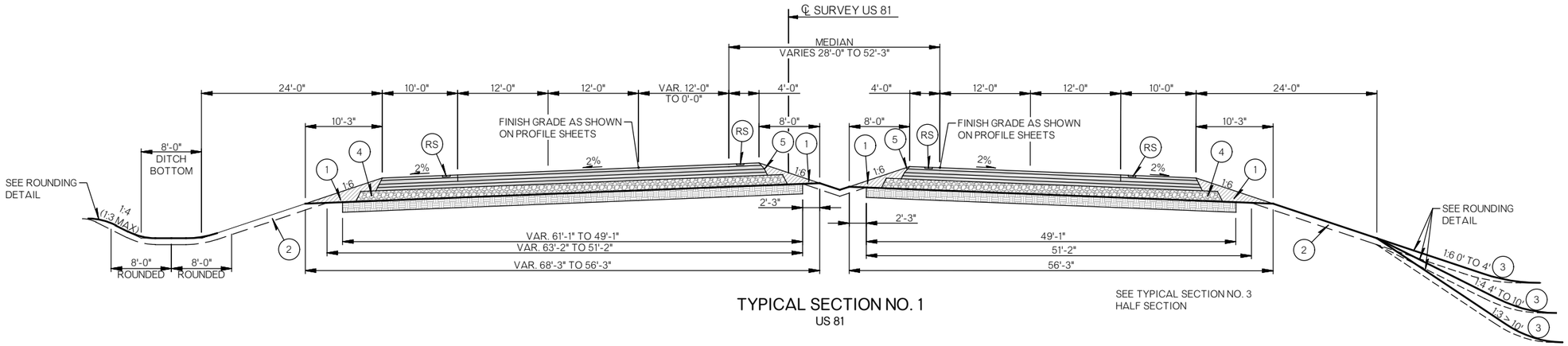
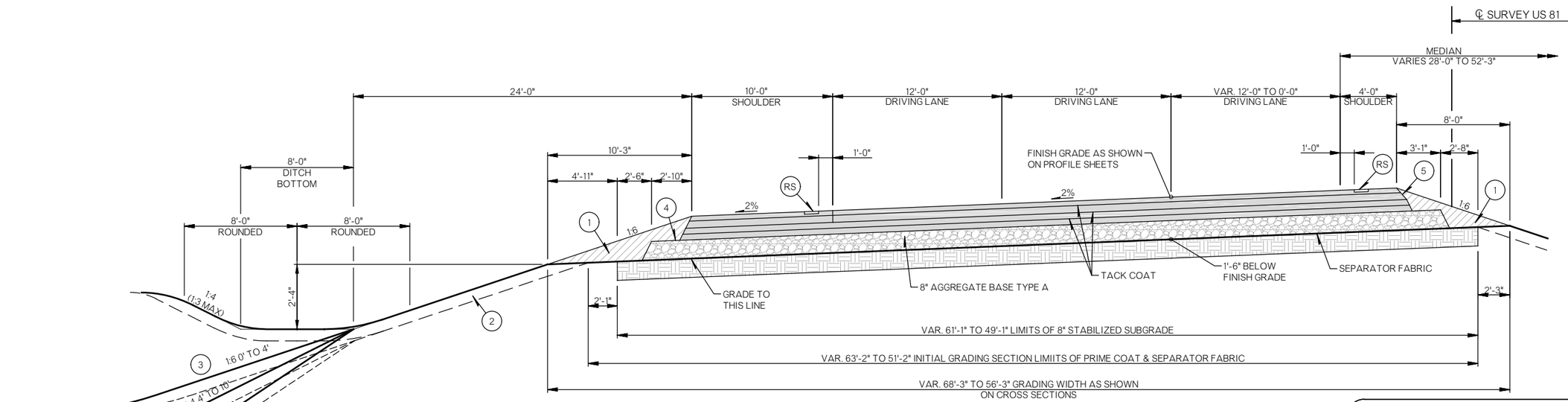
AUGUST 2017



TYPICAL SECTION NO. 1
US 81

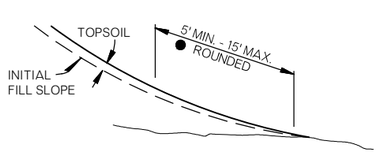


PAVEMENT REQUIREMENTS			
10" PAVEMENT STRUCTURE	12'-0" DRIVING LANES	4'-0" INSIDE SHOULDERS	10'-0" OUTSIDE SHOULDERS
SURFACE COURSE	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)
BASE COURSE	3" SUPERPAVE TYPE S3 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)

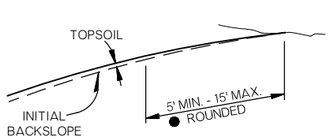
TYPICAL SECTION NO. 1 (HALF)
US 81
STA. 100+94 TO STA. 105+30

ROUNDING DETAIL

- INTERSECTION OF CUT AND/OR FILL SLOPES WITH GROUND LINE TO BE ROUNDED AS PART OF FINISHING OPERATIONS. ROUNDING SHALL BE 5' MINIMUM FOR SMALLER CUTS AND FILLS TO 15' MAXIMUM FOR LARGER CUTS AND FILLS OR AS DESIGNATED BY THE ENGINEER. COST OF ROUNDING TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF WORK.



TOE OF FILL ROUNDING



TOP OF CUT ROUNDING

1. BACKFILL NOTE:
   TO BE BACKFILLED AS PART OF THE FINISHING OPERATIONS. QUANTITY IS MEASURED IN T.B.S.C. TYPE E.

2. TOPSOIL NOTE:
   THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATIONS SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.

   THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED IN THE MASSLINE BALANCE.

3. DISTANCE MEASURED VERTICALLY FROM EDGE OF FINISHED GRADE SHOULDER.

4. PRIME COAT ON TOP OF AGGREGATE BASE.

5. PAVEMENT SAFETY EDGE.

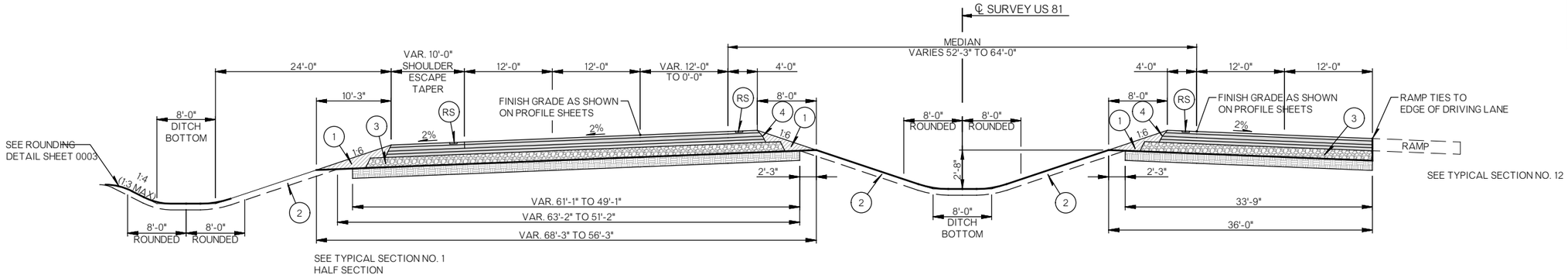
RS RUMBLE STRIP

US 81 REALIGNMENT
GRADY COUNTY

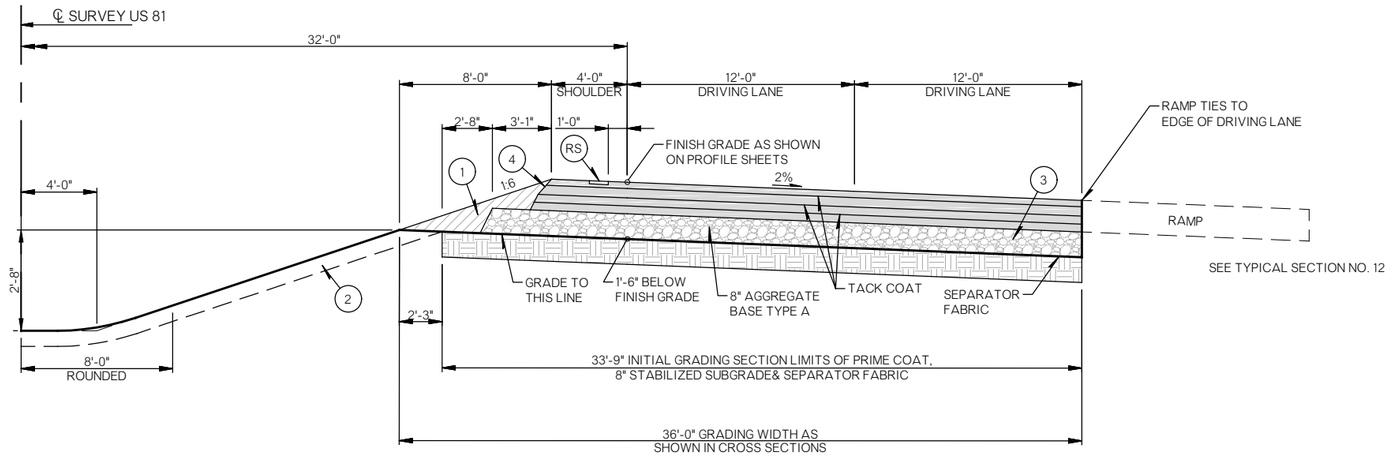
TYPICAL SECTIONS

State Job No. 24428(04) Sheet No. 0003

PROPOSED
R/W
AUGUST 2017



TYPICAL SECTION NO. 2
US 81



PAVEMENT REQUIREMENTS			
10" PAVEMENT STRUCTURE	12'-0" DRIVING LANES	4'-0" INSIDE SHOULDERS	10'-0" OUTSIDE SHOULDERS
SURFACE COURSE	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)
BASE COURSE	3" SUPERPAVE TYPE S3 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)

TYPICAL SECTION NO. 2 (HALF)
US 81

STA. 105+30 TO STA. 118+49.39
STA. 127+50 TO STA. 145+68.70 (O. H.)
STA. 148+68.09 TO STA. 164+62.14
STA. 253+68.54 TO STA. 269+80.58 (O.H.)
STA. 272+17.98 TO STA.281+34.90
STA. 286+64.61 TO STA. 302+07.25
STA. 302+07.25 TO STA. 321+78.07 #
STA. 315+30.12 TO STA. 323+01.44 (O.H.)
STA. 328+03.80 TO STA. 329+20.52
STA. 348+79.48 TO STA. 350+06.20 (O.H.)
STA. 401+83.79 TO STA. 402+84.56 (O.H.)
STA. 420+69.95 TO STA. 422+94.31 (O.H.)
STA. 428+65.29 TO STA. 436+90.34
STA. 453+80.49 TO STA. 461+68.17 (O.H.)
STA. 473+77.59 TO STA. 474+10.00
STA. 497+23.54 TO STA. 497+59.25

STATION LIMIT APPLIES TO THREE LANE SECTION (LEFT HALF) FOR BOTH THE LEFT AND RIGHT SIDE OF US 81

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(3) PRIME COAT ON TOP OF AGGREGATE BASE.

(4) PAVEMENT SAFETY EDGE.

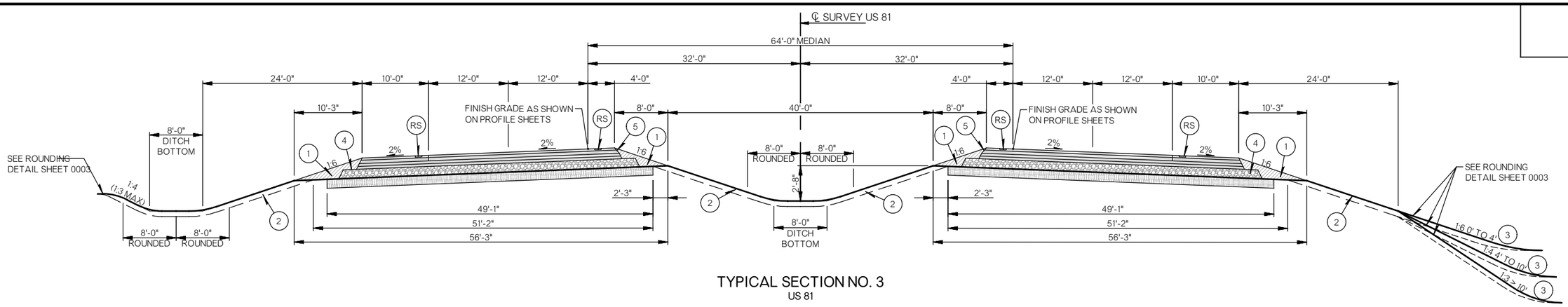
(RS) RUMBLE STRIP

US 81 REALIGNMENT
GRADY COUNTY

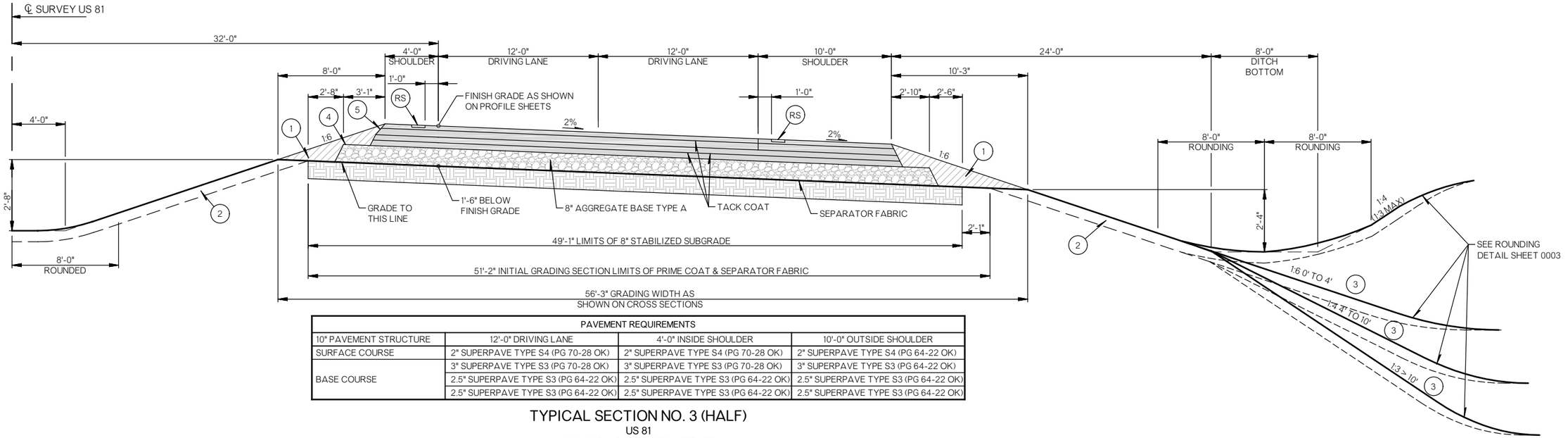
TYPICAL SECTIONS

State Job No. 24428(04) Sheet No. 0004

PROPOSED
R/W
AUGUST 2017



TYPICAL SECTION NO. 3
US 81



PAVEMENT REQUIREMENTS			
10" PAVEMENT STRUCTURE	12'-0" DRIVING LANE	4'-0" INSIDE SHOULDER	10'-0" OUTSIDE SHOULDER
SURFACE COURSE	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)
BASE COURSE	3" SUPERPAVE TYPE S3 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)

TYPICAL SECTION NO. 3 (HALF)
US 81
STA. 118+49.39 TO STA. 127+50
STA. 145+68.70 TO 148+68.09
STA. 239+00 TO STA. 255+00
STA. 269+03.85 TO STA. 280+14.32
STA. 286+88.19 TO STA. 300+76.17
STA. 329+20.52 TO STA. 348+79.48
STA. 364+09.43 TO STA. 396+00
STA. 402+84.56 TO STA. 420+69.95
STA. 436+90.34 TO STA. 453+80.49
STA. 474+10.00 TO STA. 497+23.54
STA. 514+50.00 TO STA. 535+96.81 (SOUTHBOUND)
STA. 514+50.00 TO STA. 519+56.63 (NORTHBOUND)

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(4) PRIME COAT ON TOP OF AGGREGATE BASE.

(5) PAVEMENT SAFETY EDGE.

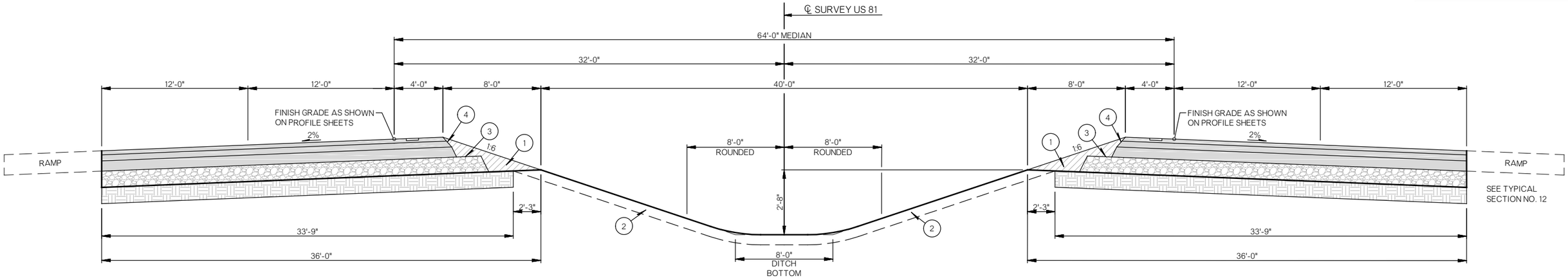
(RS) RUMBLE STRIP

TYPICAL SECTIONS

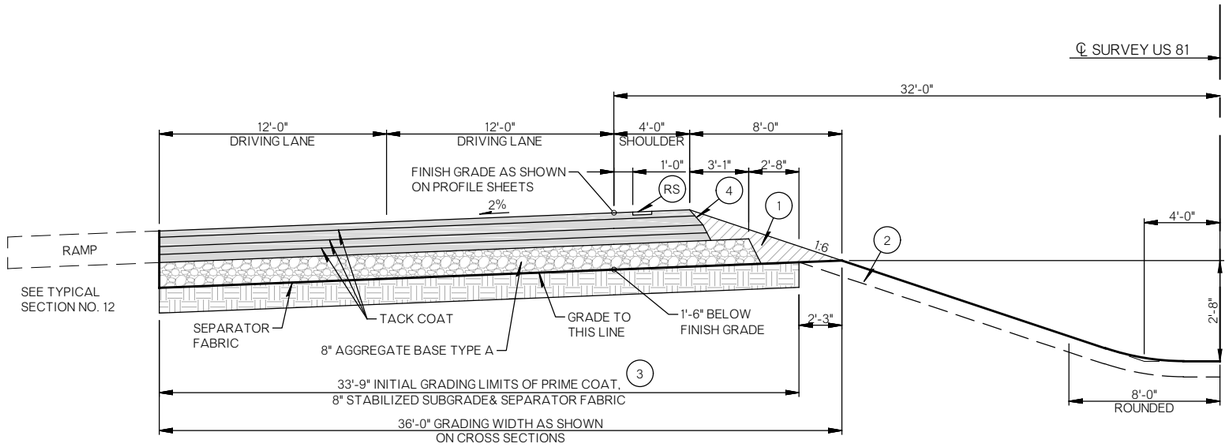
State Job No. 24428(04) Sheet No. 0005

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017



TYPICAL SECTION NO. 4
US 81



PAVEMENT REQUIREMENTS		
10" PAVEMENT STRUCTURE	12'-0" DRIVING LANES	4'-0" INSIDE SHOULDER
SURFACE COURSE	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)
BASE COURSE	3" SUPERPAVE TYPE S3 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)

TYPICAL SECTION NO. 4 (HALF)
US 81
STA. 155+05.86 TO STA. 163+93.89
STA. 281+19.01 TO STA.286+37.64
STA. 314+07.53 TO STA. 315+30.12
STA. 323+01.44 TO STA. 328+03.80
STA. 350+06.20 TO STA. 355+00
STA. 396+00 TO STA. 401+83.79
STA. 422+94.31 TO STA. 428+65.29
STA. 461+68.17 TO STA. 473+77.59
STA. 497+59.25 TO STA. 514+50.00

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THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED IN THE MASSLINE BALANCE.

(3) PRIME COAT ON TOP OF AGGREGATE BASE.

(4) PAVEMENT SAFETY EDGE.

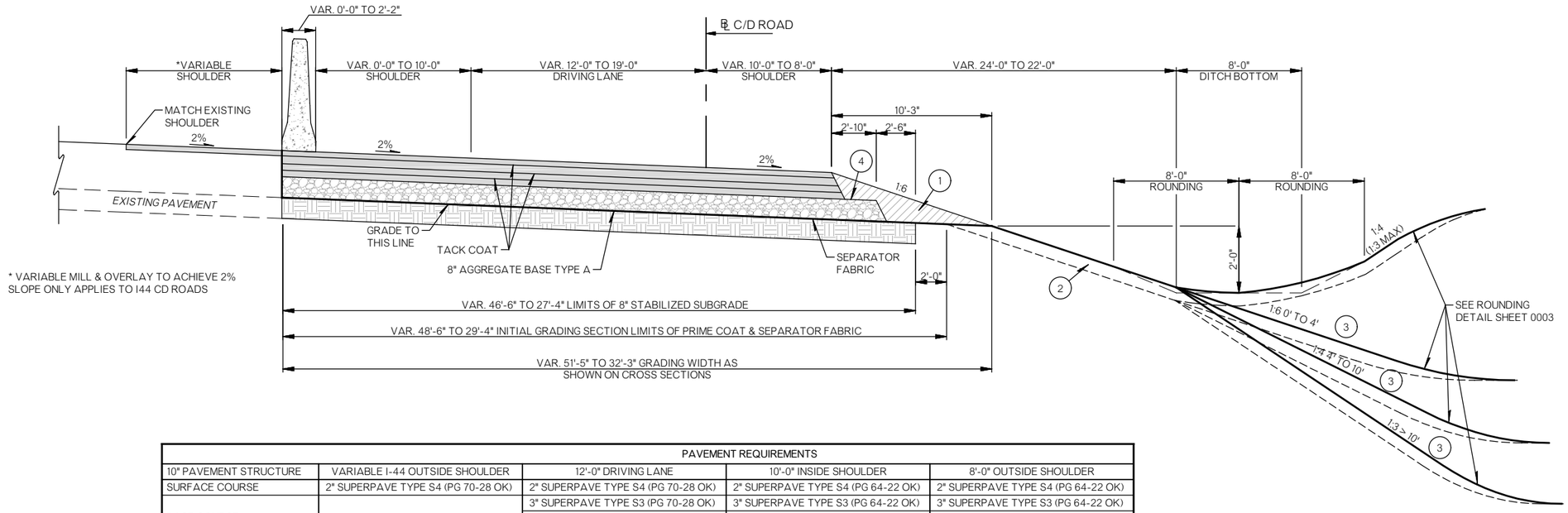
(RS) RUMBLE STRIP

US 81 REALIGNMENT
GRADY COUNTY

TYPICAL SECTIONS

State Job No. 24428(04) Sheet No. 0006

PROPOSED
R/W
AUGUST 2017



* VARIABLE MILL & OVERLAY TO ACHIEVE 2% SLOPE ONLY APPLIES TO I44 CD ROADS

PAVEMENT REQUIREMENTS				
10" PAVEMENT STRUCTURE	VARIABLE I-44 OUTSIDE SHOULDER	12'-0" DRIVING LANE	10'-0" INSIDE SHOULDER	8'-0" OUTSIDE SHOULDER
SURFACE COURSE	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)
BASE COURSE		3" SUPERPAVE TYPE S3 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)
		2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)
		2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)

TYPICAL SECTION NO. 5

COLLECTOR / DISTRIBUTOR ROAD
US81
STA. 164+37.68 TO STA. 173+00
STA. 163+93.89 TO STA. STA 173+44 (O.H.)
STA. 182+05.91 TO STA. 191+89.12
STA. 201+22.68 TO STA. 211+29.79
STA. 221+05 TO STA. 238+50
STA. 220+00 TO 239+00 (O.H.)
I44
STA.251+85 TO STA. 266+55
STA. 245+65 TO STA. 264+25 (O.H.)
STA. 314+70 TO STA. 333+30
STA. 314+70 TO 329+40 (O.H.)

(1) BACKFILL NOTE:
TO BE BACKFILLED AS PART OF THE FINISHING OPERATIONS. QUANTITY IS MEASURED IN T.B.S.C. TYPE E.

(2) TOPSOIL NOTE:

THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATIONS SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.

THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED IN THE MASSLINE BALANCE.

(3) DISTANCE MEASURED VERTICALLY FROM EDGE OF FINISH GRADE SHOULDER

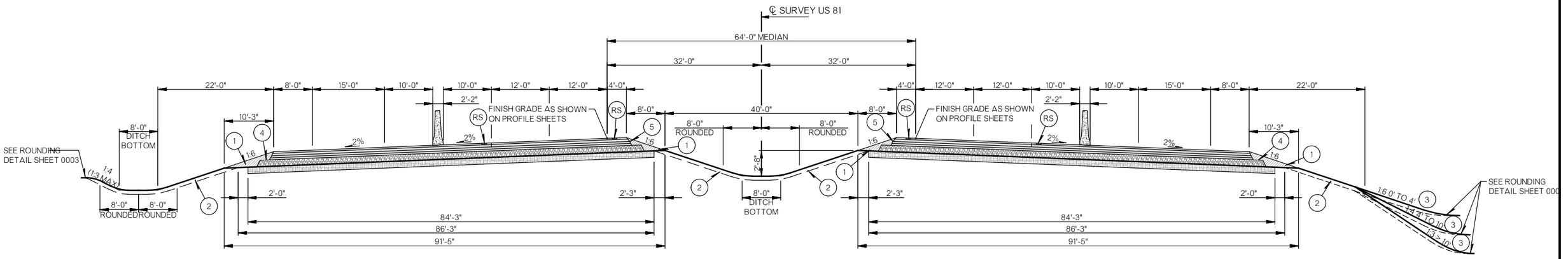
(4) PRIME COAT ON TOP OF AGGREGATE BASE

US 81 REALIGNMENT
GRADY COUNTY

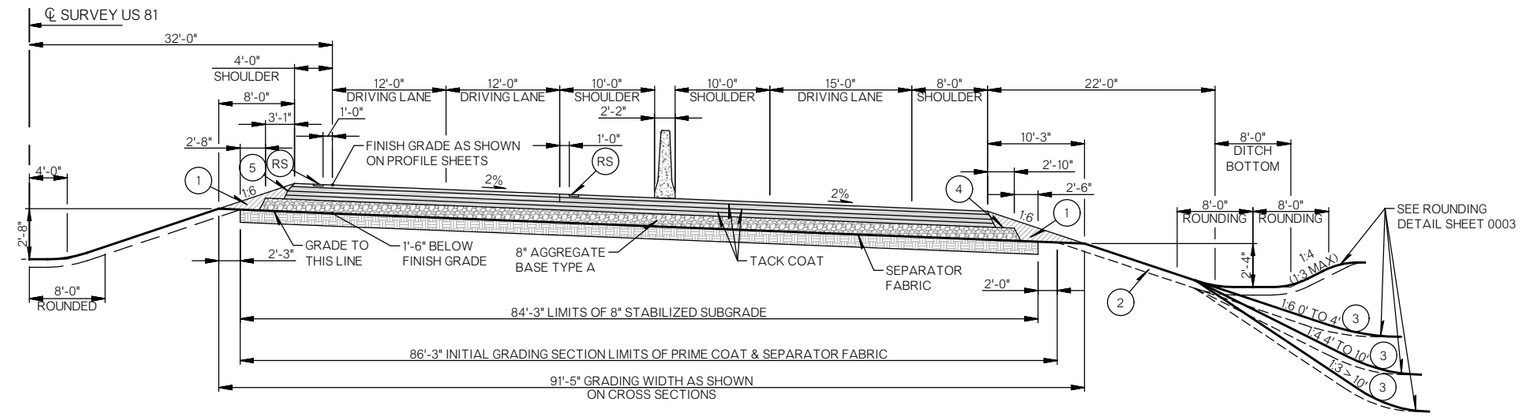
TYPICAL SECTIONS

State Job No. 24428(04) Sheet No. 0007

PROPOSED
R/W
AUGUST 2017



TYPICAL SECTION NO. 6
COLLECTOR - DISTRIBUTOR ROAD 15' LANE



PAVEMENT REQUIREMENTS					
10" PAVEMENT STRUCTURE	4'-0" SHOULDERS	12'-0" DRIVING LANES	10'-0" SHOULDERS	15'-0" DRIVING LANE	8'-0" SHOULDERS
SURFACE COURSE	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)
BASE COURSE	3" SUPERPAVE TYPE S3 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)

TYPICAL SECTION NO. 6 (HALF)
COLLECTOR - DISTRIBUTOR ROAD 15' LANE
STA.182+05.91 TO 191+89.12
STA. 201+22.68 TO 211+29.79

(1) BACKFILL NOTE:
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(2) TOPSOIL NOTE:

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(3) DISTANCE MEASURED VERTICALLY FROM EDGE OF FINISHED GRADE SHOULDER.

(4) PRIME COAT ON TOP OF AGGREGATE BASE.

(5) PAVEMENT SAFETY EDGE.

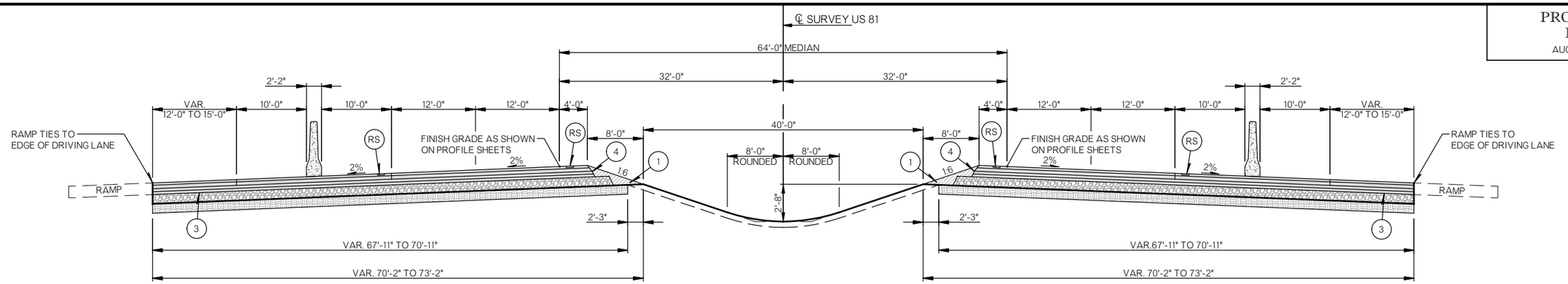
(RS) RUMBLE STRIP

US 81 REALIGNMENT
GRADY COUNTY

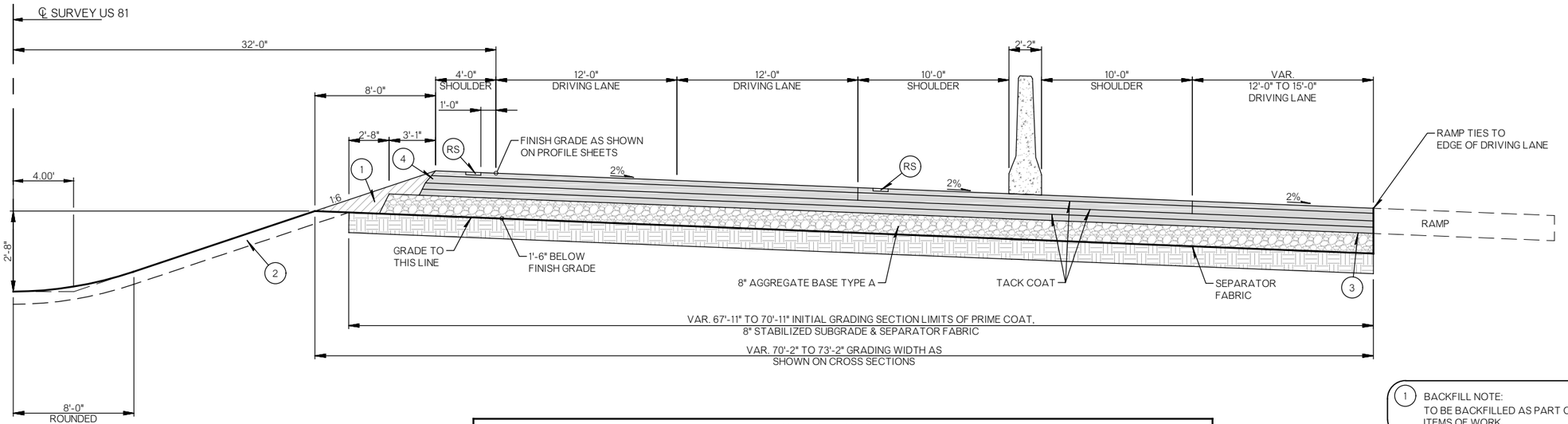
TYPICAL SECTIONS

State Job No. 24428(04) Sheet No. 0008

PROPOSED
R/W
AUGUST 2017



TYPICAL SECTION NO. 7
COLLECTOR / DISTRIBUTOR ROAD
US81



PAVEMENT REQUIREMENTS			
10" PAVEMENT STRUCTURE	12'-0" DRIVING LANES	4'-0" INSIDE SHOULDERS	10'-0" OUTSIDE SHOULDERS
SURFACE COURSE	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)
BASE COURSE	3" SUPERPAVE TYPE S3 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)

TYPICAL SECTION NO. 7 (HALF)
COLLECTOR / DISTRIBUTOR ROAD
US81
STA. 173+44.37 TO STA. 180+98
STA. 192+28.63 TO STA. 200+81.92
STA. 212+53.71 TO STA. 220+00

(1) BACKFILL NOTE:
TO BE BACKFILLED AS PART OF THE FINISHING OPERATIONS. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

(2) TOPSOIL NOTE:

THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATIONS SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.

THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED IN THE MASSLINE BALANCE.

(3) PRIME COAT ON TOP OF AGGREGATE BASE.

(4) PAVEMENT SAFETY EDGE.

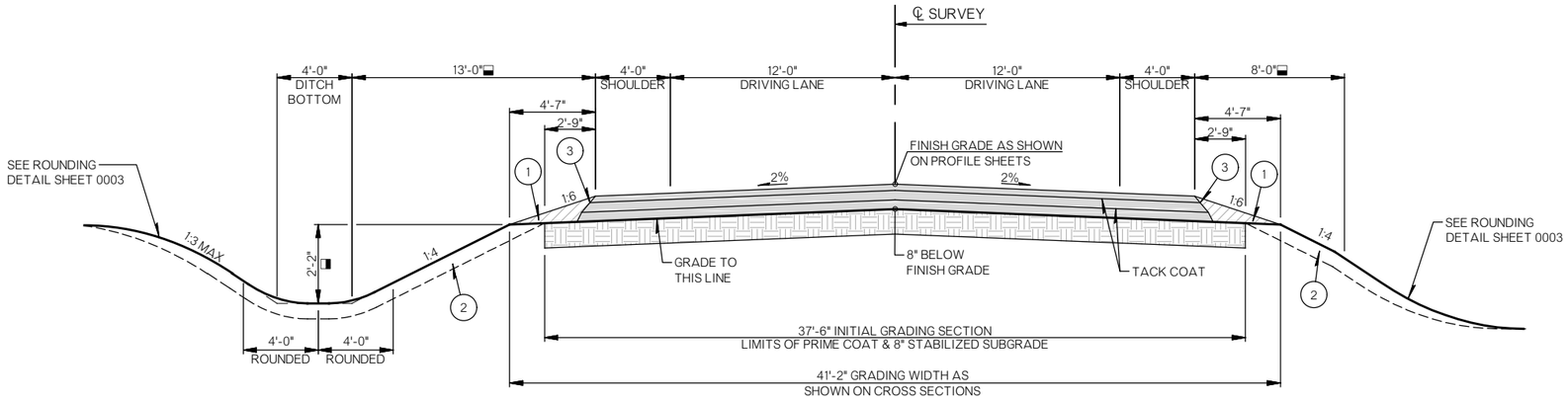
(RS) RUMBLE STRIP

US 81 REALIGNMENT
GRADY COUNTY

TYPICAL SECTIONS

State Job No. 24428(04) Sheet No. 0009

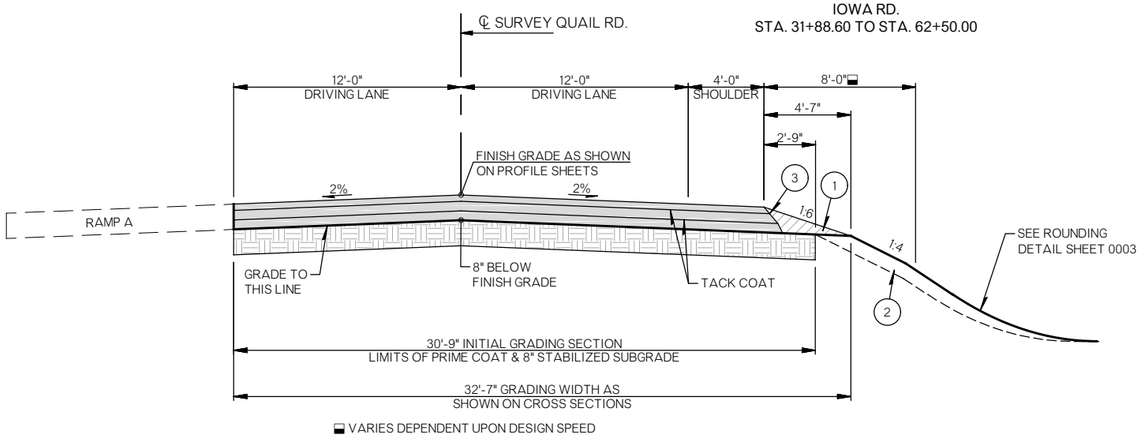
PROPOSED
R/W
AUGUST 2017



8" PAVEMENT STRUCTURE	12'-0" DRIVING LANES	4'-0" OUTSIDE SHOULDERS
SURFACE COURSE	2" SUPERPAVE TYPE S4 (PG 64-22 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)
BASE COURSE	3" SUPERPAVE TYPE S3 (PG 64-22 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)
	3" SUPERPAVE TYPE S3 (PG 64-22 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)

TYPICAL SECTION NO. 8

FRONTAGE RD.
STA. 5113+79.22 TO STA. 5142+22.49
EW 140.5
STA. 30+15 TO STA.35+65
QUAIL RD.
STA. 26+75.00 TO STA. 35+63.62
STA. 45+47.93 TO STA. 50+00
16TH ST.
STA. 19+90 TO STA 38+00
COUNTRY CLUB RD.
STA. 1601+00 TO STA. 1623+00
IDAHO RD.
STA. 1809+00 TO STA. 1814+00
IOWA RD.
STA. 31+88.60 TO STA. 62+50.00



8" PAVEMENT STRUCTURE	12'-0" DRIVING LANES	4'-0" OUTSIDE SHOULDER
SURFACE COURSE	2" SUPERPAVE TYPE S4 (PG 64-22 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)
BASE COURSE	3" SUPERPAVE TYPE S3 (PG 64-22 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)
	3" SUPERPAVE TYPE S3 (PG 64-22 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)

TYPICAL SECTION NO. 9

QUAIL RD.
STA. 35+63.62 TO STA. 45+47.93

(1) BACKFILL NOTE:
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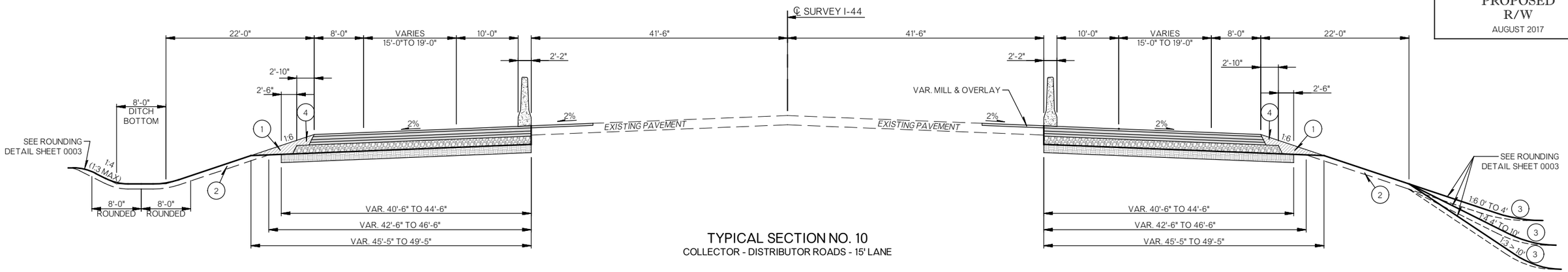
(3) PAVEMENT SAFETY EDGE.

US 81 REALIGNMENT
GRADY COUNTY

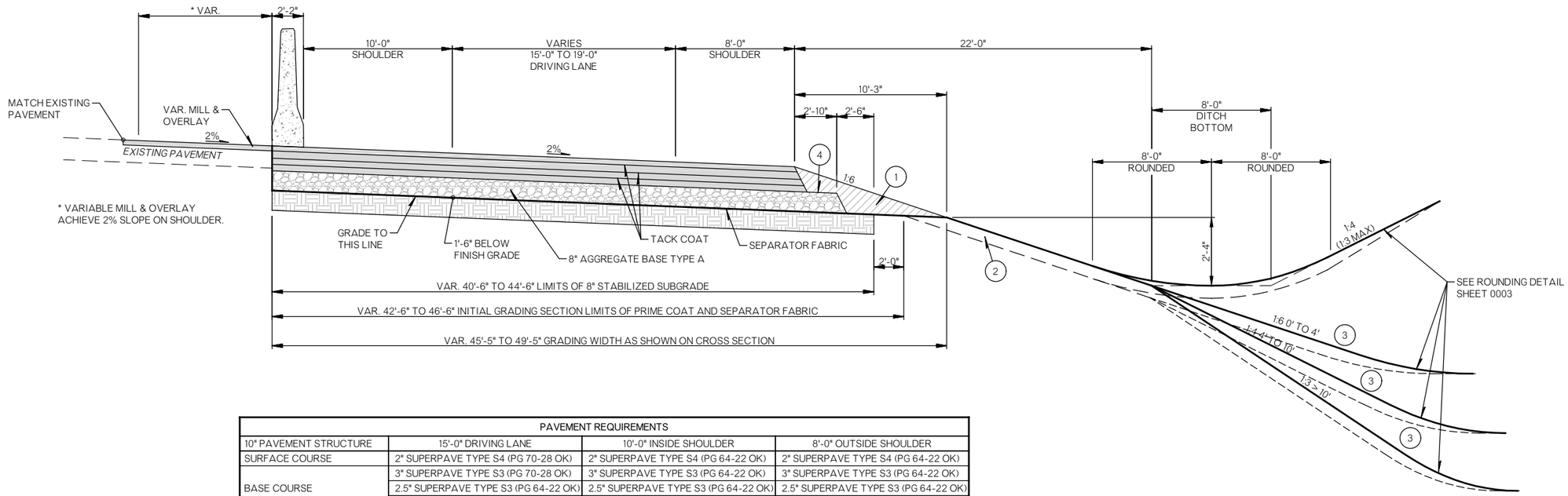
TYPICAL SECTIONS

State Job No. 24428(04) Sheet No. 0010

PROPOSED
R/W
AUGUST 2017



TYPICAL SECTION NO. 10
COLLECTOR - DISTRIBUTOR ROADS - 15' LANE



PAVEMENT REQUIREMENTS			
10" PAVEMENT STRUCTURE	15'-0" DRIVING LANE	10'-0" INSIDE SHOULDER	8'-0" OUTSIDE SHOULDER
SURFACE COURSE	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)
BASE COURSE	3" SUPERPAVE TYPE S3 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)

TYPICAL SECTION NO. 10
COLLECTOR - DISTRIBUTOR ROADS - 15' LANE (HALF)
I44
STA. 275+52.64 TO STA. 284+65.27
STA. 294+29.32 TO STA. 305+32.20
STA. 314+70 TO STA. 315+87.77

(1) BACKFILL NOTE:
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(2) TOPSOIL NOTE:

THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATIONS SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.

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(3) DISTANCE MEASURED VERTICALLY FROM EDGE OF FINISH GRADE SHOULDER

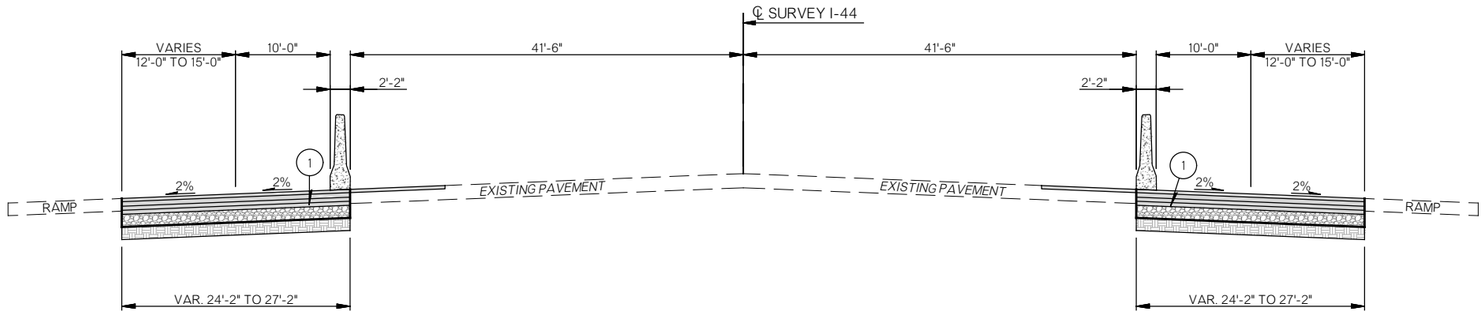
(4) PRIME COAT ON TOP OF AGGREGATE BASE

TYPICAL SECTIONS

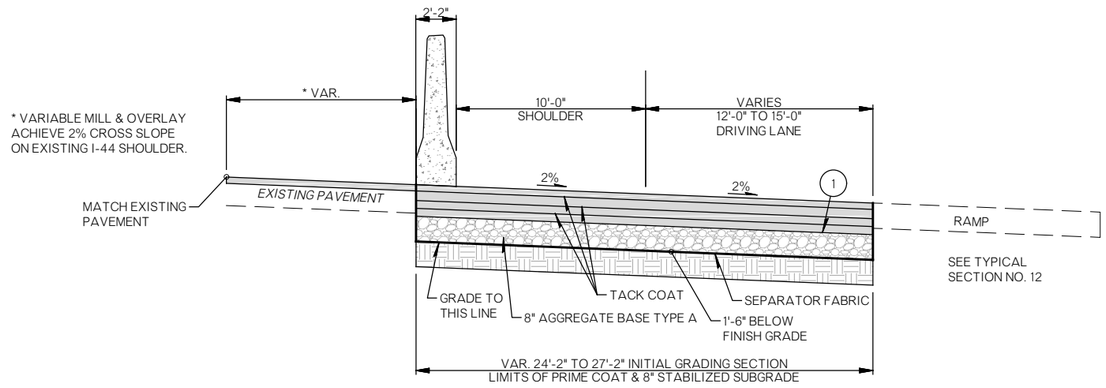
State Job No. 24428(04) Sheet No. 0011

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017



TYPICAL SECTION NO. 11
COLLECTOR - DISTRIBUTOR ROADS - 12' LANE
I44



* VARIABLE MILL & OVERLAY ACHIEVE 2% CROSS SLOPE ON EXISTING I-44 SHOULDER.

PAVEMENT REQUIREMENTS		
10" PAVEMENT STRUCTURE	12-0" DRIVING LANE	10'-0" INSIDE SHOULDER
SURFACE COURSE	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)
BASE COURSE	3" SUPERPAVE TYPE S3 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)

TYPICAL SECTION NO. 11 (HALF)
COLLECTOR - DISTRIBUTOR ROADS - 12' LANE
I44
STA.266+55 TO STA. 271+46.22
STA. 284+83.42 TO STA. 293+81.34
STA. 305+79.18 TO STA. 314+70

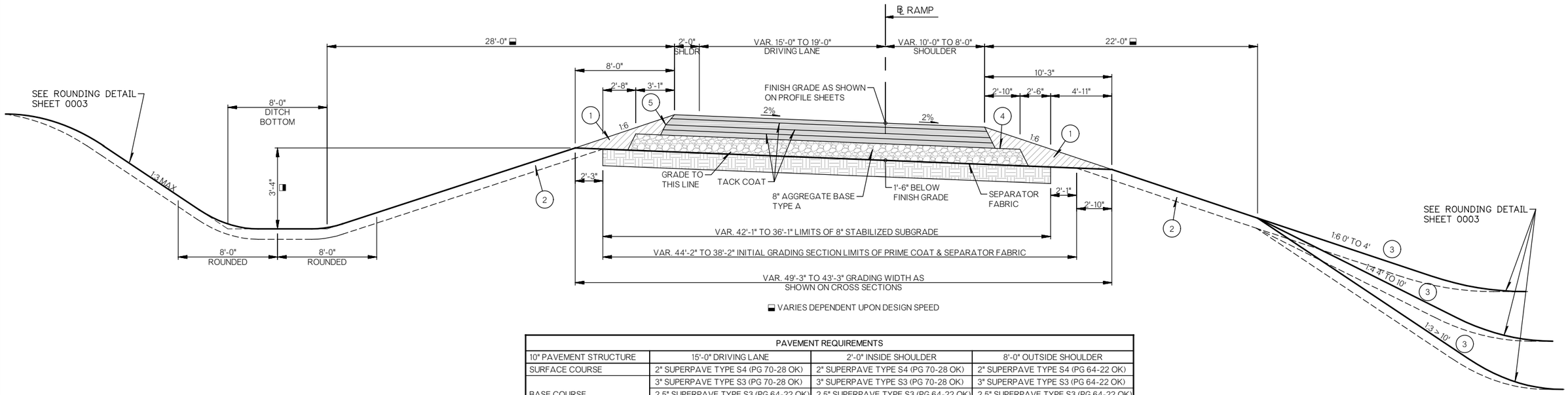
(1) PRIME COAT ON TOP OF AGGREGATE BASE.

US 81 REALIGNMENT
GRADY COUNTY

TYPICAL SECTIONS

State Job No. 24428(04) Sheet No. 0012

PROPOSED
R/W
AUGUST 2017



PAVEMENT REQUIREMENTS			
10" PAVEMENT STRUCTURE	15'-0" DRIVING LANE	2'-0" INSIDE SHOULDER	8'-0" OUTSIDE SHOULDER
SURFACE COURSE	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)
BASE COURSE	3" SUPERPAVE TYPE S3 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)

TYPICAL SECTION NO. 12

RAMP A STA. 145+46.83 TO STA. 150+36.75
STA. 152+52.03 TO STA. 153+66.15 (O.H.)
RAMP B STA. 245+81.07 TO STA. 254+97.15 (O.H.)
RAMP C STA. 113+86.73 TO STA. 144+48.36
RAMP D STA. 228+21.47 TO STA. 248+61.81 (O.H.)
RAMP E STA. 254+30.84 TO STA. 262+67.41 (O.H.)
RAMP F STA. 131+43.82 TO STA. 133+87.44
RAMP G STA. 1182+00.07 TO STA. 1201+48.26 (O.H.)
RAMP H STA. 196+05.98 TO STA. 205+49.88
RAMP I STA. 319+95.33 TO STA. 329+50.48
RAMP J STA. 2187+06.96 TO STA. 2208+62.99 (O.H.)

RAMP K STA. 3180+96.79 TO STA. 3203+63.80
RAMP L STA. 214+72.41 TO STA. 224+38.62
RAMP M STA. 301+17.77 TO STA. 310+50.38
RAMP N STA. 4185+10.80 TO STA. 4206+87.32
RAMP O STA. 1014+03.14 TO STA. 1028+90.23
RAMP P STA. 1055+98.25 TO STA. 1064+56.24
RAMP Q STA. 1106+13.85 TO STA. 1112+82.38
RAMP R STA. 1158+33.70 TO STA. 1171+61.95
RAMP S STA. 1214+04.33 TO STA. 1225+40.00
RAMP T STA. 1250+00.00 TO STA. 1260+37.19
RAMP U STA. 1306+19.51 TO STA. 1316+66.00

RAMP V STA. 1350+00.00 TO STA. 1361+36.19
RAMP W STA. 402+90.28 TO STA. 413+17.39
RAMP X STA. 401+77.08 TO STA. 411+66.40
RAMP Y STA. 410+83.83 TO STA. 420+64.19
RAMP Z STA. 412+43.00 TO STA. 423+01.48
RAMP AA STA. 473+65.05 TO STA. 488+06.02
RAMP BB STA. 474+34.60 TO STA. 488+12.03
RAMP CC STA. 489+13.82 TO STA. 497+62.29
RAMP DD STA.487+46.81 TO STA. 497+23.89

(1) BACKFILL NOTE:
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(2) TOPSOIL NOTE:

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(3) DISTANCE MEASURED VERTICALLY FROM EDGE OF FINISHED GRADE SHOULDER.

(4) PRIME COAT ON TOP OF AGGREGATE BASE.

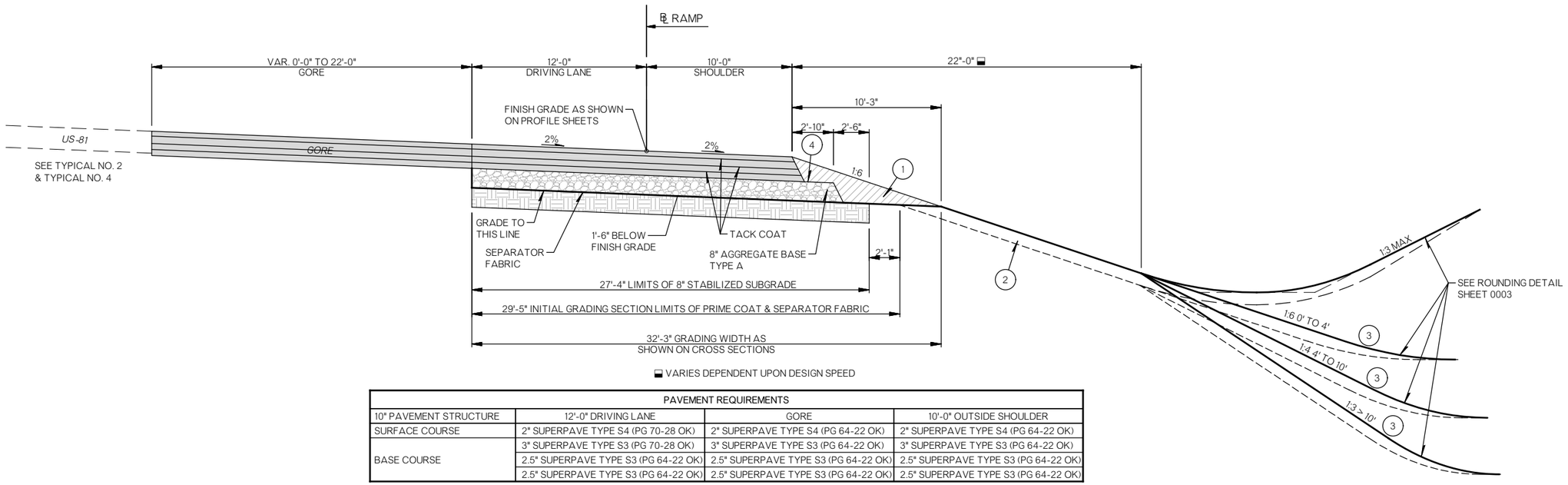
(5) PAVEMENT SAFETY EDGE.

US 81 REALIGNMENT
GRADY COUNTY

TYPICAL SECTIONS

State Job No. 24428(04) Sheet No. 0013

PROPOSED
R/W
AUGUST 2017



⬓ VARIES DEPENDENT UPON DESIGN SPEED

PAVEMENT REQUIREMENTS			
10" PAVEMENT STRUCTURE	12'-0" DRIVING LANE	GORE	10'-0" OUTSIDE SHOULDER
SURFACE COURSE	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)
BASE COURSE	3" SUPERPAVE TYPE S3 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)

TYPICAL SECTION NO. 13

RAMP A STA. 130+50.09 TO STA. 139+03.03
STA. 142+15.57 TO STA. 144+35.21 (O.H.)
RAMP B STA. 258+03.58 TO STA. 263+72.12 (O.H.)
RAMP C STA. 99+88.87 TO STA. 110+29.90
STA. 146+60.49 TO STA. 149+17.61
RAMP D STA. 218+95.41 TO STA. 224+60
STA. 254+00 TO STA. 264+50
RAMP E STA. 266+74.48 TO STA. 267+32.25
RAMP F STA. 133+87.44 TO STA. 136+48.68
RAMP G STA. 1176+35.63 TO STA. 1179+06.50
STA. 1204+43.74 TO STA. 1207+46.13
RAMP H STA. 191+60.99 TO STA. 194+88.56
STA. 206+60.30 TO STA. 210+19.06
RAMP I STA. 315+31.22 TO STA. 318+77.02
STA. 330+61.72 TO STA. 333+89.70
RAMP J STA. 2180+97.98 TO STA. 2184+01.52 (O.H.)
STA. 2211+75.06 TO STA. 2214+31.08 (O.H.)
RAMP K STA. 3175+00 TO STA. 3177+63.61
STA. 3206+80.39 TO STA. 3210+00.24
RAMP L STA. 210+19.06 TO STA. 213+55.35
STA. 225+49.87 TO STA. 228+63.32
RAMP M STA. 298+40.59 TO STA. 300+00.35
STA. 311+61.62 TO STA. 315+31.22
RAMP N STA. 4178+94.17 TO STA. 4181+98.78
STA. 4209+83.76 TO STA. 4212+37.17
RAMP O STA. 1000+00.00 TO STA.1014+03.14
RAMP P STA. 1055+98.25 TO STA. 1070+30.65
RAMP Q STA. 1100+00.00 TO STA. 1106+1385
RAMP R STA. 1171+61.95 TO STA. 1185+96.98
RAMP S STA. 1200+00.00 TO STA. 1214+04.33
RAMP T STA. 1260+37.19 TO STA. 1266+56.70
RAMP U STA. 1300+00.00 TO STA. 1306+19.51
RAMP V STA. 1361+36.19 TO STA. 1375+39.28
US-81 STA. 396+00.00 TO STA. 398+96.26 (O.H.)
US-81 STA. 396+00.00 TO STA. 399+37.32
US-81 STA. 424+59.49 TO STA. 428+65.29 (O.H.)
US-81 STA. 425+74.85 TO STA. 436+90.34
US-81 STA. 453+80.49 TO STA. 468+70.82 (O.H.)
US-81 STA. 500+38.45 TO STA. 514+50.00 (O.H.)
US-81 STA. 499+76.91 TO STA. 514+50.00
RAMP W STA. 398+96.26 TO STA. 402+90.28 (O.H.)
RAMP X STA. 399+37.32 TO STA. 401+77.08
RAMP Y STA. 420+64.19 TO STA. 424+59.49 (O.H.)
RAMP Z STA. 423+01.48 TO STA. 425+74.85
RAMP AA STA. 468+70.82 TO STA. 473+65.05 (O.H.)
RAMP BB STA. 461+68.17 TO STA. 474+34.60
RAMP CC STA. 497+62.29 TO STA. 500+38.45 (O.H.)
RAMP DD STA.497+23.89 TO STA.499+76.91

(1) BACKFILL NOTE:
TO BE BACKFILLED AS PART OF THE FINISHING OPERATIONS. QUANTITY IS MEASURED IN T.B.S.C. TYPE E.

(2) TOPSOIL NOTE:

THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATIONS SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.

THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED IN THE MASSLINE BALANCE.

(3) DISTANCE MEASURED VERTICALLY FROM EDGE OF FINISH GRADE SHOULDER

(4) PRIME COAT ON TOP OF AGGREGATE BASE

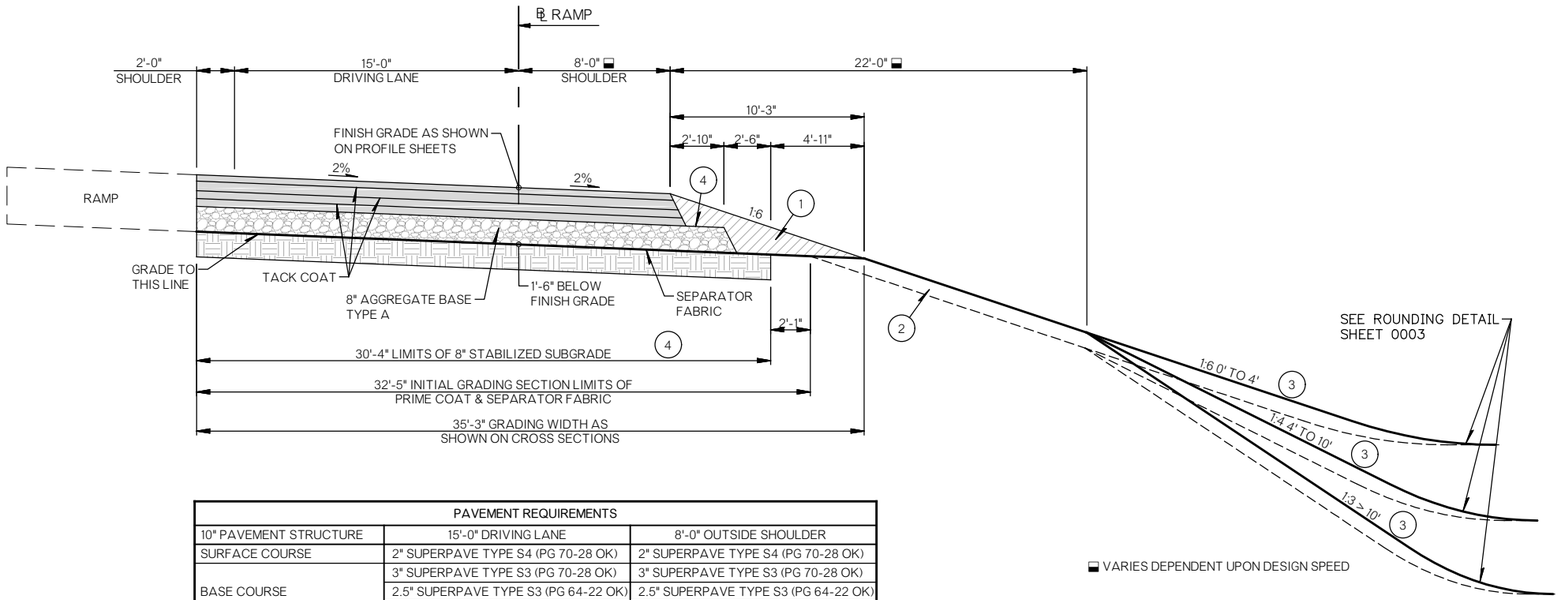
US 81 REALIGNMENT

GRADY COUNTY

TYPICAL SECTIONS

State Job No. 24428(04) Sheet No. 0014

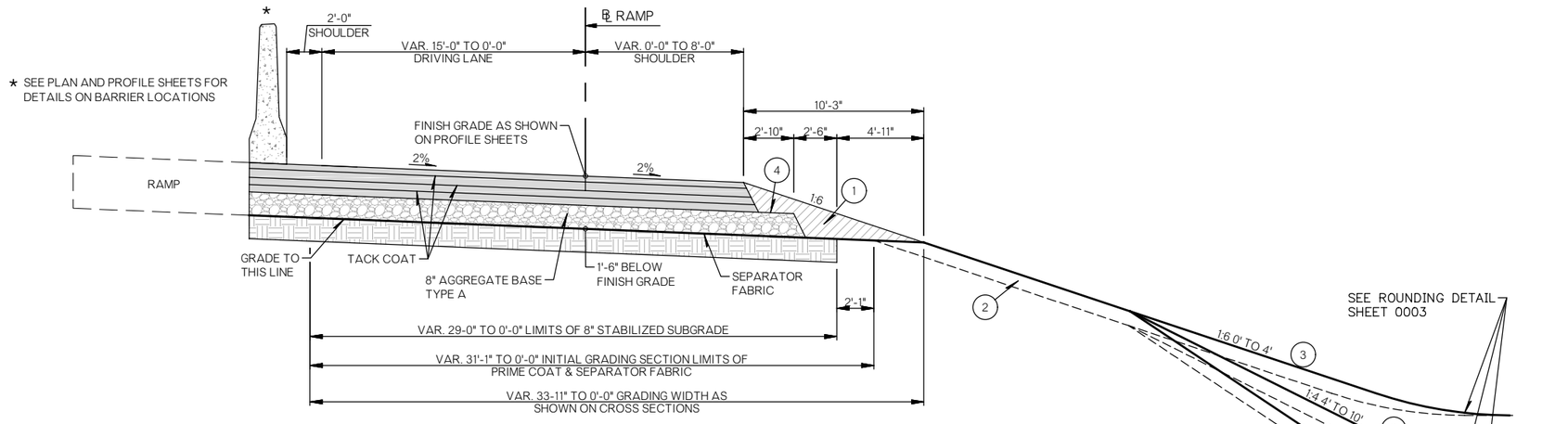
PROPOSED
R/W
AUGUST 2017



PAVEMENT REQUIREMENTS		
10" PAVEMENT STRUCTURE	15'-0" DRIVING LANE	8'-0" OUTSIDE SHOULDER
SURFACE COURSE	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 70-28 OK)
BASE COURSE	3" SUPERPAVE TYPE S3 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 70-28 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)

TYPICAL SECTION NO. 14

RAMP B STA. 242+00 TO STA. 245+81.07 (O.H.)
RAMP E STA. 250+00 TO STA. 254+30.84
STA. 262+62.41 TO STA. 267+32.25
RAMP F STA. 126+15.39 TO 131+43.82 (O.H.)
STA. 136+48.68+87.44 TO 143+17.95



PAVEMENT REQUIREMENTS		
10" PAVEMENT STRUCTURE	15'-0" DRIVING LANE	9'-0" OUTSIDE SHOULDER
SURFACE COURSE	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 70-28 OK)
BASE COURSE	3" SUPERPAVE TYPE S3 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 70-28 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)

TYPICAL SECTION NO. 15

RAMP A EXTENSION STA. 242+37 TO STA. 244+74

(1) BACKFILL NOTE:
TO BE BACKFILLED AS PART OF THE FINISHING OPERATIONS. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

(2) TOPSOIL NOTE:
THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATIONS SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.

THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED IN THE MASSLINE BALANCE.

(3) DISTANCE MEASURED VERTICALLY FROM EDGE OF FINISH GRADE SHOULDER

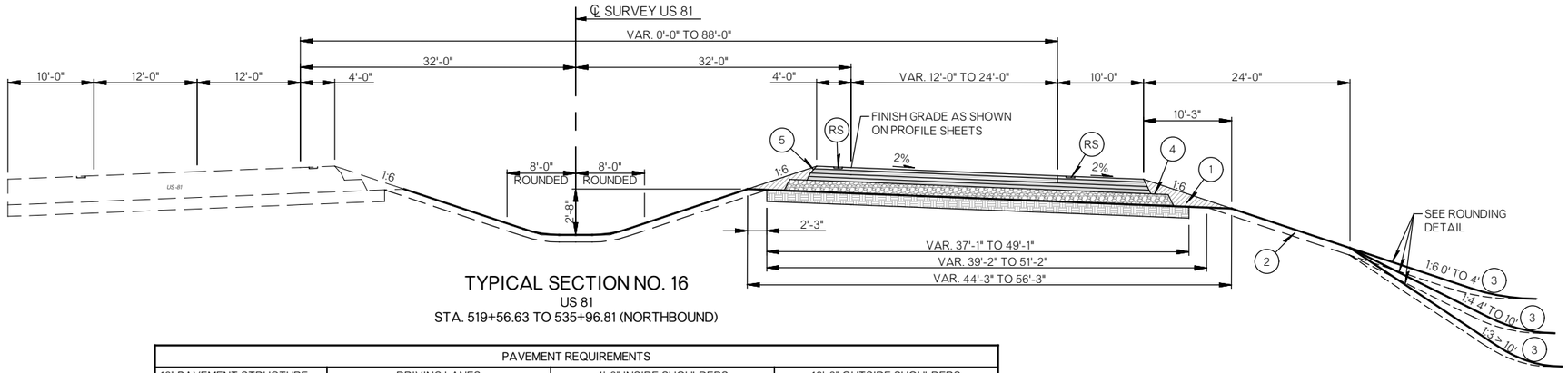
(4) PRIME COAT ON TOP OF AGGREGATE BASE

US 81 REALIGNMENT
GRADY COUNTY

TYPICAL SECTIONS

State Job No. 24428(04) Sheet No. 0015

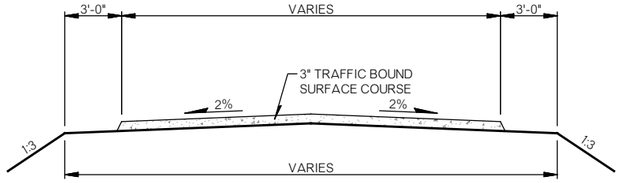
PROPOSED
R/W
AUGUST 2017



TYPICAL SECTION NO. 16

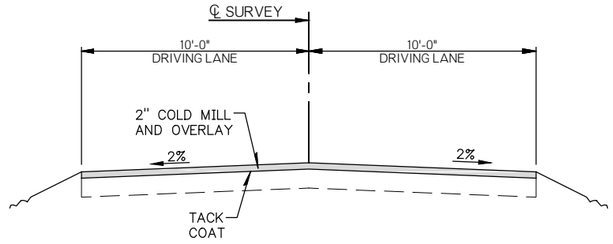
US 81
STA. 519+56.63 TO 535+96.81 (NORTHBOUND)

PAVEMENT REQUIREMENTS			
10" PAVEMENT STRUCTURE	DRIVING LANES	4'-0" INSIDE SHOULDERS	10'-0" OUTSIDE SHOULDERS
SURFACE COURSE	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)
BASE COURSE	3" SUPERPAVE TYPE S3 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)
	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)	2.5" SUPERPAVE TYPE S3 (PG 64-22 OK)



TYPICAL SECTION COUNTY ROAD

EW 135.5
STA. 11+96.45 TO STA. 25+40.69
NS 281.5
STA. 102+00.79 TO STA. 102+88.71
STA. 103+12.86 TO STA. 104+25.00
COUNTY ROAD
STA. 300+41.76 TO STA. 327+42.02



TYPICAL SECTION MILL & OVERLAY

GRAND AVE.
STA. 115+50 TO STA. 124+55

8" PAVEMENT STRUCTURE	12'-0" DRIVING LANES	4'-0" OUTSIDE SHOULDERS
SURFACE COURSE	2" SUPERPAVE TYPE S4 (PG 64-22 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)

(1) BACKFILL NOTE:
TO BE BACKFILLED AS PART OF THE FINISHING OPERATIONS. QUANTITY IS MEASURED IN T.B.S.C. TYPE E.

(2) TOPSOIL NOTE:

THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATIONS SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.

THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED IN THE MASSLINE BALANCE.

(3) DISTANCE MEASURED VERTICALLY FROM EDGE OF FINISHED GRADE SHOULDER.

(4) PRIME COAT ON TOP OF AGGREGATE BASE.

(5) PAVEMENT SAFETY EDGE.

(RS) RUMBLE STRIP

US 81 REALIGNMENT
GRADY COUNTY

TYPICAL SECTIONS

State Job No. 24428(04) Sheet No. 0016

PROPOSED
R/W
AUGUST 2017

STILLWATER CENTRAL RAILROAD COMPANY NOTES

NOTIFICATION OF WORK:

THE CONTRACTOR IS REQUIRED TO GIVE THE STILLWATER CENTRAL RAILROAD COMPANY AT LEAST 10 WORKING DAYS ADVANCE NOTICE, IN WRITING, BEFORE ANY WORK IS STARTED ON THE SITE. TO AVOID HAZARDS, THE STILLWATER CENTRAL RAILROAD COMPANY MAY HAVE A REPRESENTATIVE PRESENT, IF DEEMED NECESSARY, FOR THE PURPOSE OF INSPECTION AND THE ISSUANCE OF ANY APPROPRIATE INSTRUCTIONS FOR RAILWAY OPERATIONS DURING THE CHICKASHA BY-PASS CONSTRUCTION PROJECT IN CHICKASHA, GRADY COUNTY AS IT RELATES TO THE STILLWATER CENTRAL RAILROAD COMPANY'S PROPERTY. (DOT NO. TBD, MILEPOST 585.03)

THE CONTRACTOR SHALL NOTIFY:

MR. TOBY WAMPLER
ROADMASTER
STILLWATER CENTRAL RAILROAD COMPANY
900 S. BYERS
OKLAHOMA CITY, OKLAHOMA 73129
PHONE: 405-616-3000
E-MAIL: TWAMPLER@WATCOCOMPANIES.COM

MR. JIMMY PATTERSON
GENERAL MANAGER
STILLWATER CENTRAL RAILROAD COMPANY
900 S. BYERS
OKLAHOMA CITY, OKLAHOMA 73129
PHONE: 405-616-3000
E-MAIL: JPATTERSON@WATCOCOMPANIES.COM

FLAGGING AND INSURANCE:

FLAGGING AND INSURANCE SHALL BE PROVIDED AS SPECIFIED IN SECTION 107 OF THE STANDARD SPECIFICATIONS AND IN THE SPECIAL PROVISIONS FOR RAILROAD FLAGGING (SEE PROPOSAL FOR SPECIAL PROVISIONS) AND WHAT IS STATED IN THE STILLWATER CENTRAL RAILROAD COMPANY'S RIGHT OF ENTRY AGREEMENT. STILLWATER CENTRAL RAILROAD COMPANY, AT THEIR DISCRETION, SHALL PROVIDE FLAGGING FOR THE RAILWAY DURING CONSTRUCTION OPERATIONS.

THE CONTRACTOR IS REQUIRED TO REIMBURSE STILLWATER CENTRAL RAILROAD COMPANY FOR FLAGGING SERVICES PROVIDED.

THE CONTRACTOR SHALL ALSO FURNISH SATISFACTORY EVIDENCE TO THE STATE OF OKLAHOMA THAT THEY HAVE PROVIDED INSURANCE OF THE KINDS AND AMOUNTS AS SPECIFIED IN THE SPECIAL PROVISIONS FOR RAILROAD INSURANCE AND IN THE STILLWATER CENTRAL RAILROAD COMPANY'S RIGHT OF ENTRY AGREEMENT.

THE CONTRACTOR WILL BE REQUIRED TO ENTER INTO A RIGHT OF ENTRY AGREEMENT WITH THE STILLWATER CENTRAL RAILROAD COMPANY BEFORE THEY WILL BE ALLOWED ON THE RAILROAD'S RIGHT-OF-WAY.

PRE-WORK MEETING:

PRIOR TO WORKING ON THE STILLWATER CENTRAL RAILROAD COMPANY'S RIGHT-OF-WAY OR IN THE VICINITY OF THEIR TRACKS, YOU MUST CONTACT THE LOCAL ROADMASTER FOR THE STILLWATER CENTRAL RAILROAD COMPANY TO COORDINATE YOUR WORK. IT IS VITAL THAT YOU HAVE CONTACT WITH THE STILLWATER CENTRAL RAILROAD COMPANY ROADMASTER PRIOR TO GETTING ON THE RAILROAD'S PROPERTY.

COORDINATION WITH RAILROAD:

THE CONTRACTOR SHALL CONDUCT CONSTRUCTION OPERATIONS IN A MANNER WHICH WILL NOT DELAY OR INTERFERE WITH TRAIN OPERATIONS. CONSTRUCTION ACTIVITY WITHIN 25 (TWENTY-FIVE) FEET OF ACTIVE TRACKS WILL REQUIRE A FLAGMAN TO BE PROVIDED BY THE STILLWATER CENTRAL RAILROAD COMPANY AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO THE STILLWATER CENTRAL RAILROAD COMPANY ROADMASTER, A MINIMUM OF 30 (THIRTY) CALENDAR DAYS IN ADVANCE OF WHEN FLAGGING IS REQUIRED.

SPECIAL PERMISSION MUST BE OBTAINED FROM THE STILLWATER CENTRAL RAILROAD COMPANY BEFORE MOVING ANY EQUIPMENT OR OTHER OBJECT WHICH COULD MAKE THE TRACK IMPASSABLE IF IT FELL WITHIN THE AREA SHOWN ON THE CONSTRUCTION CLEARANCE DIAGRAM.

RAILROAD FLAGGERS, PROTECTIVE SERVICES, AND PROTECTIVE DEVICES WILL BE REQUIRED, BUT NOT LIMITED TO, EVENTS WHEN:

1) THE CONTRACTOR WORK ACTIVITIES ARE WITHIN 25 (TWENTY-FIVE) FEET OF THE TRACK, MEASURED FROM THE TRACK CENTERLINE.

2) ACTIVITIES ARE OVER OR UNDER THE TRACK.

3) CRANES OR SIMILAR EQUIPMENT WILL NOT BE POSITIONED WHERE THEY COULD FOUL THE TRACK IF THEY TIPPED OVER OR EXPERIENCED SOME OTHER CATASTROPHIC EVENT.

4) IN THE OPINION OF THE STILLWATER CENTRAL RAILROAD COMPANY REPRESENTATIVE:

- IT IS NECESSARY TO SAFEGUARD THE STILLWATER CENTRAL RAILROAD COMPANY PROPERTY, EMPLOYEES, TRAINS, ENGINES, AND FACILITIES.
- WHEN ANY EXCAVATION IS PERFORMED BELOW THE BOTTOM OF THE ELEVATIONS AND TRACK OR OTHER STILLWATER CENTRAL RAILROAD COMPANY FACILITIES MAY BE SUBJECT TO MOVEMENT OR SETTLEMENT.
- WHEN WORK IN ANY WAY INTERFERES WITH SAFE OPERATION OF TRAINS AND TIMETABLE SPEEDS.
- WHEN ANY HAZARD IS PRESENTED TO RAILROAD TRACK, SIGNALS, COMMUNICATIONS, ELECTRICAL, OR OTHER FACILITIES EITHER DUE TO PERSON, MATERIAL, EQUIPMENT, OR BLASTING IN THE AREA.

PROTECTION OF RAILROAD UNDER BRIDGE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE RAILROAD TRACK BED DURING ALL CONSTRUCTION OPERATIONS. PRIOR TO ANY WORK BEING STARTED, A PROPOSED METHOD OF PREVENTING DEBRIS FROM FALLING ON THE RAILROAD TRACK BED SHALL BE SUBMITTED TO THE RAILROAD REPRESENTATIVE FOR HIS APPROVAL.

THE CONTRACTOR SHALL NOT BE PERMITTED TO LEAVE ANY WORKER SCAFFOLDING IN PLACE IN WORKING POSITION. AT THE END OF EACH WORKDAY, THE SCAFFOLDING SHALL BE REMOVED AND SET A SAFE DISTANCE FROM ANY OPERATING RAILWAY LINE. SCAFFOLDING SHALL AT ALL TIMES MAINTAIN THE MINIMUM CLEARANCE AS SHOWN ON THE "FALSEWORK DIAGRAM" ON THE PLANS (SHEET NOS. B019 AND B021).

EROSION CONTROL AND DRAINAGE

THE CONTRACTOR WILL INSTALL, MAINTAIN, AND REMOVE ALL EROSION CONTROL MEASURES DEEMED NECESSARY WITHIN THE RAILROAD RIGHT OF WAY.

THE CONTRACTOR WILL MAINTAIN THE RAILROAD DRAINAGE AT ALL TIMES WHEN WORKING WITHIN THE RAILROAD RIGHT OF WAY.

RAIL TRAFFIC

THE STILLWATER CENTRAL RAILROAD COMPANY HAS 6 TRAINS PER DAY AT 20 MPH, ON THE CHICKASHA SUBDIVISION. RAIL TRAFFIC IS FOR INFORMATION PURPOSES ONLY. ACTUAL RAIL TRAFFIC MAY VARY.

US-81 REALIGNMENT

GENERAL NOTES AND SUMMARY
OF PAY QUANTITIES (BRIDGES)
(SHEET NO. 1 OF 2)

State Job No. 24428(04) Sheet No. AB01

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

UNION PACIFIC RAILROAD NOTES

NOTIFICATION OF WORK:

THE CONTRACTOR IS REQUIRED TO GIVE THE UNION PACIFIC RAILROAD COMPANY AT LEAST 10 WORKING DAYS ADVANCE NOTICE, IN WRITING, BEFORE ANY WORK IS STARTED ON THE SITE. TO AVOID HAZARDS, THE UNION PACIFIC RAILROAD COMPANY MAY HAVE A REPRESENTATIVE PRESENT, IF DEEMED NECESSARY, FOR THE PURPOSE OF INSPECTION AND THE ISSUANCE OF ANY APPROPRIATE INSTRUCTIONS FOR RAILROAD OPERATIONS DURING THE CHICKASHA BY-PASS CONSTRUCTION PROJECT IN CHICKASHA, GRADY COUNTY, AS IT RELATES TO THE UNION PACIFIC RAILROAD COMPANY'S PROPERTY. (DOT NO. 595 519H, MILEPOST 1.75, LAWTON SUBDIVISION)

THE CONTRACTOR SHALL NOTIFY:

MR. JEFFREY B. HOWELL
MANAGER OF TRACK MAINTENANCE
UNION PACIFIC RAILROAD COMPANY
901 N. 4TH
CHICKASHA, OK 73018
PHONE: 318-639-3575
JBHOWELL@UP.COM

MR. CLAY A. McMANAMAN
MANAGER PUBLIC PROJECTS
UNION PACIFIC RAILROAD COMPANY
P.O. BOX 1337
EL RENO, OKLAHOMA 73036
PHONE: 501-373-2927
CAMCMANA@UP.COM

FLAGGING AND INSURANCE:

FLAGGING AND INSURANCE SHALL BE PROVIDED AS SPECIFIED IN SECTION 107 OF THE STANDARD SPECIFICATIONS AND IN THE SPECIAL PROVISIONS FOR RAILROAD FLAGGING (SEE PROPOSAL FOR SPECIAL PROVISIONS) AND WHAT IS STATED IN THE UNION PACIFIC RAILROAD COMPANY'S RIGHT OF ENTRY AGREEMENT. UNION PACIFIC RAILROAD COMPANY, AT THEIR DISCRETION, SHALL PROVIDE FLAGGING FOR THE RAILROAD DURING THE BRIDGE DEMOLITION AND CONSTRUCTION OPERATIONS.

THE CONTRACTOR IS REQUIRED TO REIMBURSE UNION PACIFIC RAILROAD COMPANY FOR FLAGGING SERVICES PROVIDED.

THE CONTRACTOR SHALL ALSO FURNISH SATISFACTORY EVIDENCE TO THE STATE OF OKLAHOMA THAT THEY HAVE PROVIDED INSURANCE OF THE KINDS AND AMOUNTS AS SPECIFIED IN THE SPECIAL PROVISIONS FOR RAILROAD INSURANCE AND IN THE UNION PACIFIC COMPANY'S RIGHT OF ENTRY AGREEMENT.

THE CONTRACTOR WILL BE REQUIRED TO ENTER INTO A RIGHT OF ENTRY AGREEMENT WITH THE UNION PACIFIC RAILROAD COMPANY BEFORE THEY WILL BE ALLOWED ON THE RAILROAD'S RIGHT-OF-WAY.

PRE-WORK MEETING:

PRIOR TO WORKING ON THE UNION PACIFIC RAILROAD COMPANY'S RIGHT-OF-WAY OR IN THE VICINITY OF THEIR TRACKS, YOU MUST CONTACT THE LOCAL MANAGER OF TRACK MAINTENANCE FOR THE UNION PACIFIC RAILROAD COMPANY TO COORDINATE YOUR WORK. IT IS VITAL THAT YOU HAVE CONTACT WITH THE UNION PACIFIC RAILROAD COMPANY MANAGER OF TRACK MAINTENANCE PRIOR TO GETTING ON THE RAILROAD'S PROPERTY.

COORDINATION WITH RAILROAD:

THE CONTRACTOR SHALL CONDUCT CONSTRUCTION OPERATIONS IN A MANNER WHICH WILL NOT DELAY OR INTERFERE WITH TRAIN OPERATIONS. CONSTRUCTION ACTIVITY WITHIN 25 (TWENTY-FIVE) FEET OF ACTIVE TRACKS WILL REQUIRE A FLAGMAN TO BE PROVIDED BY THE UNION PACIFIC RAILROAD COMPANY AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO THE UNION PACIFIC RAILROAD COMPANY MANAGER OF TRACK MAINTENANCE, A MINIMUM OF 30 (THIRTY) CALENDAR DAYS IN ADVANCE OF WHEN FLAGGING IS REQUIRED.

SPECIAL PERMISSION MUST BE OBTAINED FROM THE UNION PACIFIC RAILROAD COMPANY BEFORE MOVING ANY EQUIPMENT OR OTHER OBJECT WHICH COULD MAKE THE TRACK IMPASSABLE IF IT FELL WITHIN THE AREA SHOWN ON THE CONSTRUCTION CLEARANCE DIAGRAM.

RAILROAD FLAGGERS, PROTECTIVE SERVICES, AND PROTECTIVE DEVICES WILL BE REQUIRED, BUT NOT LIMITED TO, EVENTS WHEN:

1) THE CONTRACTOR WORK ACTIVITIES ARE WITHIN 25 (RAILROADS) FEET OF THE TRACK, MEASURED FROM THE TRACK CENTERLINE.

2) ACTIVITIES ARE OVER OR UNDER THE TRACK.

3) CRANES OR SIMILAR EQUIPMENT WILL NOT BE POSITIONED WHERE THEY COULD FOUL THE TRACK IF THEY TIPPED OVER OR EXPERIENCED SOME OTHER CATASTROPHIC EVENT.

4) IN THE OPINION OF THE UNION PACIFIC RAILROAD COMPANY REPRESENTATIVE:

- IT IS NECESSARY TO SAFEGUARD THE UNION PACIFIC RAILROAD COMPANY PROPERTY, EMPLOYEES, TRAINS, ENGINES, AND FACILITIES.
- WHEN ANY EXCAVATION IS PERFORMED BELOW THE BOTTOM OF THE ELEVATIONS AND TRACK OR OTHER UNION PACIFIC RAILROAD COMPANY FACILITIES MAY BE SUBJECT TO MOVEMENT OR SETTLEMENT.
- WHEN WORK IN ANY WAY INTERFERES WITH SAFE OPERATION OF TRAINS AND TIMETABLE SPEEDS.
- WHEN ANY HAZARD IS PRESENTED TO RAILROAD TRACK, SIGNALS, COMMUNICATIONS, ELECTRICAL, OR OTHER FACILITIES EITHER DUE TO PERSON, MATERIAL, EQUIPMENT, OR BLASTING IN THE AREA.

PROTECTION OF RAILROAD UNDER BRIDGE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE RAILROAD TRACK BED DURING ALL CONSTRUCTION OPERATIONS. PRIOR TO ANY WORK BEING STARTED, A PROPOSED METHOD OF PREVENTING DEBRIS FROM FALLING ON THE RAILROAD TRACK BED SHALL BE SUBMITTED TO THE RAILROAD REPRESENTATIVE FOR HIS APPROVAL.

THE CONTRACTOR SHALL NOT BE PERMITTED TO LEAVE ANY WORKER SCAFFOLDING IN PLACE IN WORKING POSITION. AT THE END OF EACH WORKDAY, THE SCAFFOLDING SHALL BE REMOVED AND SET A SAFE DISTANCE FROM ANY OPERATING RAILROAD LINE. SCAFFOLDING SHALL AT ALL TIMES MAINTAIN THE MINIMUM CLEARANCE AS SHOWN ON THE "FALSEWORK DIAGRAM" ON THE PLANS (SHEET NOS. B040 AND B041).

1) THE ELEVATION OF THE EXISTING TOP-OF-RAIL SHALL NOT BE VERIFIED BEFORE BEGINNING CONSTRUCTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE RAILROAD PRIOR TO CONSTRUCTION.

2) ALL SHORTING SYSTEMS THAT IMPACT THE RAILROAD'S OPERATIONS AND/OR SUPPORTS THE RAILROAD'S EMBANKMENT SHALL BE DESIGNED AND CONSTRUCTED PER CURRENT RAILROAD GUIDELINES FOR TEMPORARY SHORING.

3) ALL DEMOLITIONS WITHIN THE RAILROAD'S RIGHT-OF-WAY AND/OR DEMOLITION THAT MAY IMPACT THE RAILROAD'S TRACKS OR OPERATIONS SHALL BE IN COMPLIANCE WITH THE RAILROAD'S DEMOLITION GUIDELINES.

4) ERECTION OVER THE RAILROAD'S RIGHT-OF-WAY SHALL BE DESIGNED TO CAUSE NO INTERRUPTION TO THE RAILROAD'S OPERATION, ENABLING THE TRACK(S) TO REMAIN OPEN TO TRAFFIC PER THE RAILROAD'S REQUIREMENTS.

5) RAILROAD REQUIREMENTS DO NOT ALLOW WORK WITHIN 50 FEET OF TRACK CENTERLINE WHEN A TRAIN PASSES THE WORK SITE AND ALL PERSONNEL MUST CLEAR THE AREA WITHIN 25 FEET OF THE TRACK CENTERLINE AND SECURE ALL EQUIPMENT.

6) ALL PERMANENT CLEARANCES SHALL BE VERIFIED BEFORE PROJECT CLOSING.

7) FALSEWORK CLEARANCES SHALL COMPLY WITH MINIMUM CONSTRUCTION CLEARANCES.

EROSION CONTROL AND DRAINAGE:

THE CONTRACTOR MUST SUBMIT A PROPOSED METHOD OF EROSION AND SEDIMENT CONTROL AND HAVE THE METHOD APPROVED BY THE RAILROAD. THE CONTRACTOR WILL INSTALL, MAINTAIN, AND REMOVE ALL EROSION CONTROL MEASURES DEEMED NECESSARY WITHIN THE RAILROAD RIGHT OF WAY.

THE PROPOSED GRADE SEPARATION PROJECT SHALL NOT INCREASE THE QUANTITY AND/OR CHARACTERISTICS OF THE FLOW IN THE RAILROAD'S DITCHES AND/OR DRAINAGE STRUCTURES. THE CONTRACTOR WILL MAINTAIN THE RAILROAD DRAINAGE AT ALL TIMES WHEN WORKING WITHIN THE RAILROAD RIGHT OF WAY.

RAIL TRAFFIC:

THE UNION PACIFIC RAILROAD COMPANY HAS SEVEN (7) TRAINS PER DAY AT 25 MPH, ON THE LAWTON SUBDIVISION. RAIL TRAFFIC IS FOR INFORMATION PURPOSES ONLY. ACTUAL RAIL TRAFFIC MAY VARY.

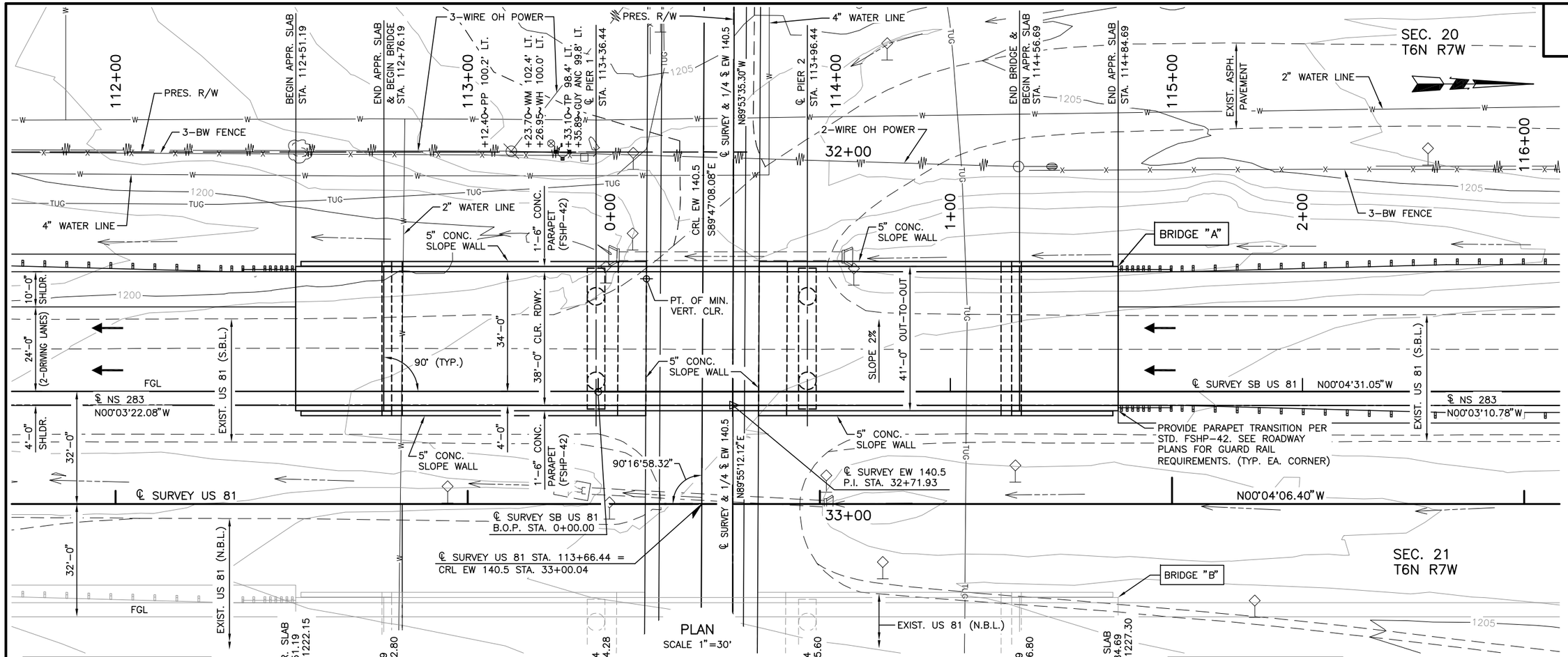
US-81 REALIGNMENT

GENERAL NOTES AND SUMMARY
OF PAY QUANTITIES (BRIDGES)
(SHEET NO. 2 OF 2)

State Job No. 24428(04) Sheet No. AB02

US 81 REALIGNMENT
GRADY COUNTY

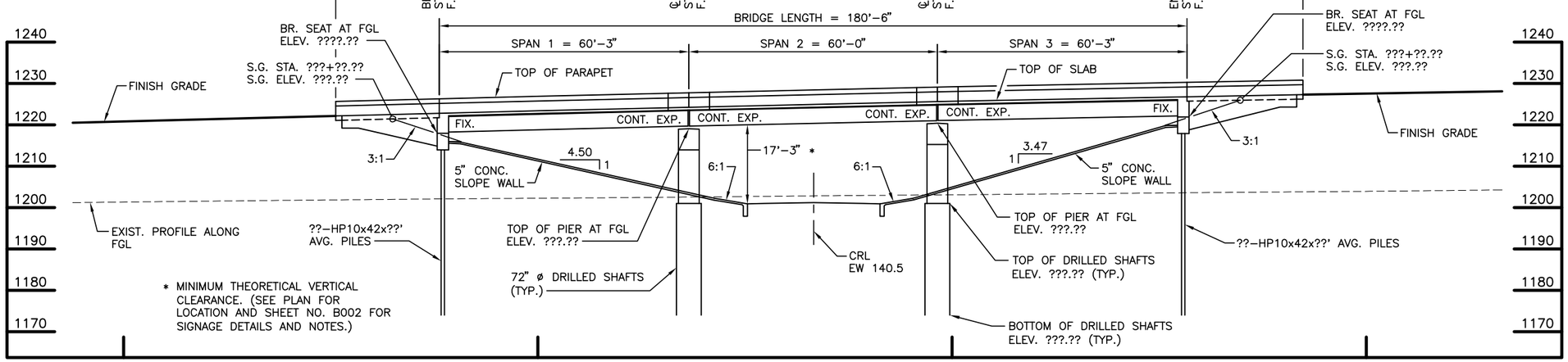
PROPOSED
R/W
AUGUST 2017



PLAN
SCALE 1"=30'

BM #210 "X" ON CENTER W. HDWL.
RCB CROSS DRAIN, 66.14' LT.
STA. 108+67.70
ELEV.= 1196.14

BM #211 "[]" ON N.E. WINGWALL
W. SIDE DRAIN, 68.77' LT.
STA. 114+06.93
ELEV.= 1200.65



* MINIMUM THEORETICAL VERTICAL CLEARANCE. (SEE PLAN FOR LOCATION AND SHEET NO. B002 FOR SIGNAGE DETAILS AND NOTES.)

ELEVATION
SCALE 1"=30'

NOTES:
ALL STATIONING FOLLOWS ℄ SURVEY US 81, UNLESS NOTED OTHERWISE.

ELEVATION OF BRIDGE IS SHOWN ALONG THE FINISH GRADE LINE.

SEE SHEET NO. B003 FOR THE GENERAL PLAN AND ELEVATION OF BRIDGE "B".

SEE SHEET NO. B002 FOR DESIGN DATA, FINISH GRADE DATA, FOUNDATION DATA, SUMMARY OF QUANTITIES AND INDEX OF SHEETS.

FOR CONCRETE SLOPE WALL DETAILS, SEE SHEET NOS. B?? THRU B??.

FOR GEOMETRIC DATA, SEE THE GEOMETRIC LAYOUT SHEETS.

PROPOSED R/W IS OUTSIDE THE VIEWING AREA. SEE ROADWAY PLANS FOR LIMITS.

SB US-81 OVER EW 140.5

GENERAL PLAN AND ELEVATION (BRIDGE "A")

(SHEET 1 OF 2)

CONST. 3-60' PRESTRESSED CONCRETE BEAM SPANS; 38'-0" CLR. RDWY. W/ CONC. PARAPETS (FSHP-42) SKEWED 0° AT ℄ STA. 113+66.44

State Job No. 24428(04) Sheet No. B001

US 81 REALIGNMENT
GRADY COUNTY

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PROPOSED
R/W
AUGUST 2017

LOAD AND RESISTANCE FACTOR DESIGN

DESIGN DATA

CLASS "AA" CONCRETE	F'c = 4,000 PSI
CLASS "A" CONCRETE	F'c = 3,000 PSI
REINFORCING STEEL	Fy = 60,000 PSI
STRUCTURAL STEEL AASHTO M270 (Gr. 50W)	Fy = 50,000 PSI
STAINLESS STEEL A240 (TYPE 316)	Fy = 30,000 PSI

LOADING: HL–93 OR OKLAHOMA OVERLOAD TRUCK
20 PSF FUTURE WEARING SURFACE
5 PSF STAY–IN–PLACE FORMS

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, WITH 2016 INTERIM REVISIONS.
ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.
ANSI/AWS D1.6 STRUCTURAL WELDING CODE – STAINLESS STEEL.

LRFR INVENTORY RATING FACTOR: ?.??
LFD OPERATING RATING: HS ??.?

FOUNDATION DATA

ABUTMENTS (HP10x42 PILING):

(1) MAXIMUM FACTORED PILE REACTION: = ??.? TONS/PILE

PIERS (72" DIAMETER DRILLED SHAFTS)		PIER 1	PIER 2
FACTORED REACTION (TONS/SHAFT)	=	???.?	???.?
NOMINAL UNIT BEARING RESISTANCE (TSF)	=	??.?	??.?
BEARING RESISTANCE FACTOR	=	0.7	0.7
FACTORED BEARING RESISTANCE (TONS/SHAFT)	=	????.?	????.?
NOMINAL UNIT FRICTION RESISTANCE (TSF)	=	?.?	?.?
FRICTION RESISTANCE FACTOR	=	0.45	0.45
FACTORED FRICTION RESISTANCE (TONS/SHAFT)	=	???.?	???.?
DEPTH OF ROCK NEGLECTED FOR FRICTION (FT.)	=	?.?	?.?
MINIMUM DEPTH INTO ROCK (FT.)	=	??.?	??.?
TOTAL FACTORED RESISTANCE (TONS/SHAFT)	=	????.?	????.?

(1) ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN ON THE PLANS. IF THE FACTORED PILE CAPACITY IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE FACTORED PILE CAPACITY IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

SUMMARY OF QUANTITIES (BRIDGE "A")

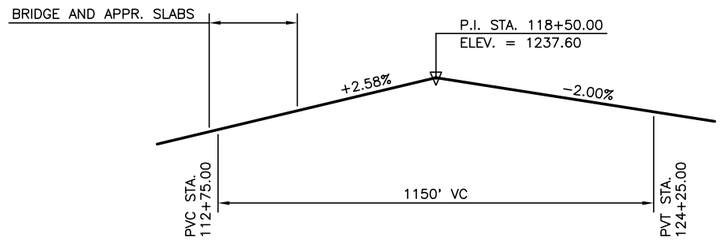
DESCRIPTION	UNITS	ABUTS.	PIERS	SUPSTR.	APPR. SLABS	SLOPE WALLS	TOTAL
SUBSTRUCTURE EXCAVATION COMMON	CY	1.00					1.00
CLSM BACKFILL	CY	1.00					1.00
PRESTRESSED CONCRETE BEAMS (TYPE III)	LF			1.00			1.00
APPROACH SLAB	SY				1.00		1.00
SAW–CUT GROOVING	SY			1.00	1.00		1.00
42" F–SHAPED PARAPET	LF			1.00	1.00		1.00
STRUCTURAL STEEL	LB			1.00			1.00
WEATHERING STEEL FIXED BEARING ASSEMBLY	EA			1.00			1.00
STAINLESS STEEL EXPANSION BEARING ASSEMBLY	EA			1.00			1.00
ELASTOMERIC BEARING PADS	EA			1.00			1.00
CLASS AA CONCRETE	CY			1.00			1.00
CLASS A CONCRETE	CY	1.00	1.00				1.00
SLOPE WALL (5")	SY					1.00	1.00
REINFORCING STEEL	LB		1.00				1.00
EPOXY COATED REINFORCING STEEL	LB	1.00	1.00	1.00			1.00
PILES, FURNISHED (HP10x42)	LF	1.00					1.00
PILES, DRIVEN (HP10x42)	LF	1.00					1.00
PILE SPLICE, H–PILE (NON–BIDDABLE)	EA	1.00					1.00
WATER REPELLENT (VISUALLY INSPECTED)	SY	1.00	1.00	1.00	1.00		1.00
DRILLED SHAFTS 72" DIAMETER	LF		1.00				1.00
CROSSHOLE SONIC LOGGING	EA		1.00				1.00
SEALER CRACK PREPARATION	LF			1.00			1.00
SEALER RESIN	GAL			1.00			1.00
6" PERFORATED PIPE UNDERDRAIN ROUND	LF	1.00				1.00	1.00
6" NON–PERF. PIPE UNDERDRAIN RND.	LF	1.00				1.00	1.00

INDEX OF SHEETS (BRIDGE "A")

SHEET NO.	TITLE
??	SUMMARY OF PAY QUANTITIES (BRIDGES "A" AND "B")
??	GENERAL NOTES (BRIDGES "A" AND "B")
B001	GENERAL PLAN AND ELEVATION (BRIDGE "A")
B002	GENERAL PLAN AND ELEVATION (BRIDGE "A")
??	FOUNDATION REPORT
??	FOUNDATION REPORT
??	SUBSTRUCTURE STAKING DIAGRAM
??	ABUTMENT 1 DETAILS
??	ABUTMENT 2 DETAILS
??	WING DETAILS
??	MISCELLANEOUS ABUTMENT DETAILS
??	SUBSTRUCTURE EXCAVATION AND PIPE UNDERDRAIN ASSEMBLY DETAILS
??	PIER 1 DETAILS
??	PIER 2 DETAILS
??	MISCELLANEOUS PIER DETAILS
??	MISCELLANEOUS PIER DETAILS
??	TYPICAL CROSS SECTION
??	LONGITUDINAL SECTION
??	BEARING DETAILS
??	P.C. BEAM AND DIAPHRAGM LAYOUT PLAN
??	PIER AND INTERMEDIATE DIAPHRAGM DETAILS
??	END DIAPHRAGM DETAILS (ABUTMENT 1)
??	END DIAPHRAGM DETAILS (ABUTMENT 2)
??	MISCELLANEOUS END DIAPHRAGM DETAILS
??	BOTTOM SLAB REINFORCING PLAN
??	TOP SLAB REINFORCING PLAN AND SLAB POURING SEQUENCE
??	TYPE III P.C. BEAM DETAILS
??	APPROACH SLAB DETAILS
??	APPROACH SLAB DETAILS
??	SLOPE WALL DETAILS
??	SLOPE WALL DETAILS
??	DRAIN AT END BRIDGE DETAILS

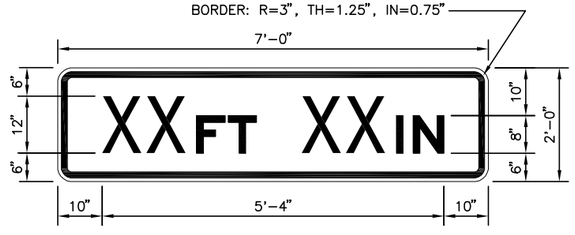
THE FOLLOWING STANDARDS SHALL BE REQUIRED:

FSHP–42–2–00E	LECS–4–1
HP1–2–01E	PUD–3–2



FINISH GRADE DATA
℄ SURVEY US 81

NOTE: STATIONING FOLLOWS ℄ SURVEY US 81. FINISH GRADE IS ALONG FINISH GRADE LINE (FGL).



SIGN NUMBER	W12–2p
WIDTH x HEIGHT	7'–0" x 2'–0"
BORDER WIDTH	1.25"
CORNER RADIUS	3"
MOUNTING	BRIDGE
BACKGROUND	TYPE: REFLECTIVE
	COLOR: YELLOW
LEGEND & BORDER	TYPE: REFLECTIVE
	COLOR: BLACK

VERTICAL CLEARANCE SIGN DETAILS

NOTES: INSTALL ONE (1) SIGN ON THE WEST SIDE OF BRIDGE "A" AND ONE (1) SIGN ON THE EAST SIDE OF BRIDGE "B" OVER THE ℄ OF EW 140.5 IN SPANS 2.

BRIDGE "A" CONTROLS THE VERTICAL CLEARANCE OVER EW 140.5. SEE SHEET NO. B001 FOR THE THEORETICAL VERTICAL CLEARANCE.

SIGNS SHOULD INDICATE A VERTICAL CLEARANCE OF 3" MIN. LESS THAN THE FINAL MEASURED CLEARANCE. THE CONTRACTOR SHALL CONTACT ODOT DIV. 7 FOR FINAL MEASUREMENT OF VERTICAL CLEARANCES.

HARDWARE AND CONNECTION DETAILS TO THE BRIDGES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

ALL COSTS FOR FABRICATION, LABOR, MATERIALS, HARDWARE AND INSTALLATION OF THE VERTICAL CLEARANCE SIGNS, COMPLETE–IN–PLACE, SHALL BE INCLUDED IN THE PRICE BID FOR "SHEET ALUMINUM SIGNS", PER SQ. FT. (TRAFFIC ITEM).

THE INSTALLATION OF THE PERMANENT VERTICAL CLEARANCE SIGNS DOES NOT RELIEVE THE CONTRACTOR OF MAINTAINING APPROPRIATE VERTICAL CLEARANCE SIGNS DURING CONSTRUCTION. COSTS TO BE INCLUDED IN OTHER ITEMS OF WORK.

SB US–81 OVER EW 140.5

GENERAL PLAN AND ELEVATION (BRIDGE "A")

(SHEET 2 OF 2)

CONST. 3–60' PRESTRESSED CONCRETE BEAM SPANS; 38'–0" CLR. RDWY. W/ CONC. PARAPETS (FSHP–42) SKEWED 0° AT ℄ STA. 113+66.44

State Job No. 24428(04) Sheet No. B002

US 81 REALIGNMENT
GRADY COUNTY

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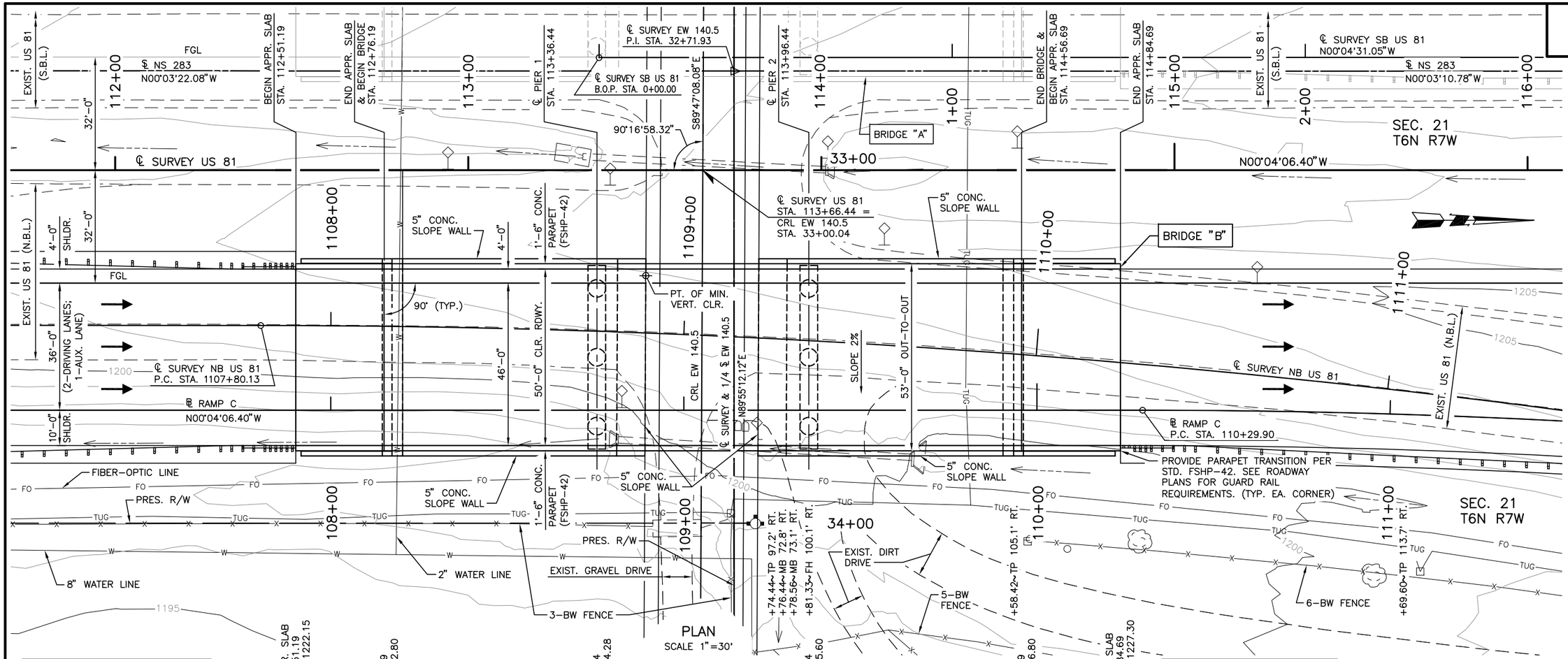
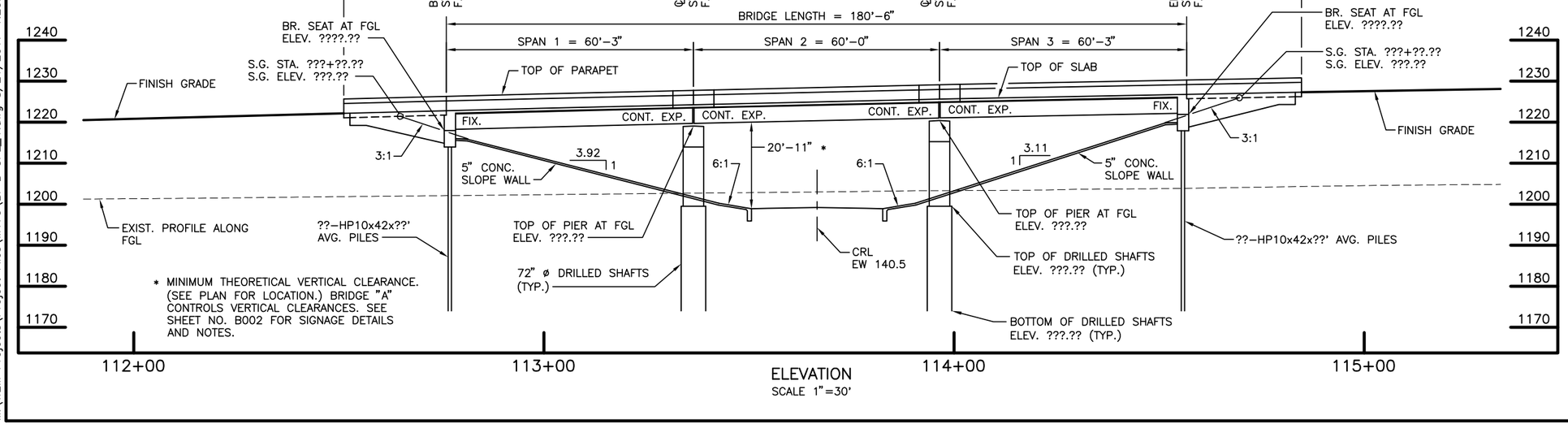
PROPOSED
R/W
AUGUST 2017



BM #210 "X" ON CENTER W. HDWL.
RCB CROSS DRAIN, 66.14' LT.
STA. 108+67.70
ELEV.= 1196.14

BM #211 "[]" ON N.E. WINGWALL
W. SIDE DRAIN, 68.77' LT.
STA. 114+06.93
ELEV.= 1200.65



* MINIMUM THEORETICAL VERTICAL CLEARANCE. (SEE PLAN FOR LOCATION.) BRIDGE "A" CONTROLS VERTICAL CLEARANCES. SEE SHEET NO. B002 FOR SIGNAGE DETAILS AND NOTES.

ELEVATION
SCALE 1"=30'

NOTES:
ALL STATIONING FOLLOWS ℄ SURVEY US 81, UNLESS NOTED OTHERWISE.

ELEVATION OF BRIDGE IS SHOWN ALONG THE FINISH GRADE LINE.

SEE SHEET NO. B001 FOR THE GENERAL PLAN AND ELEVATION OF BRIDGE "A".

SEE SHEET NO. B004 FOR DESIGN DATA, FINISH GRADE DATA, FOUNDATION DATA, SUMMARY OF QUANTITIES AND INDEX OF SHEETS.

FOR CONCRETE SLOPE WALL DETAILS, SEE SHEET NOS. B?? THRU B??.

FOR GEOMETRIC DATA, SEE THE GEOMETRIC LAYOUT SHEETS.

PROPOSED R/W IS OUTSIDE THE VIEWING AREA. SEE ROADWAY PLANS FOR LIMITS.

NB US-81 OVER EW 140.5

GENERAL PLAN AND ELEVATION (BRIDGE "B")

(SHEET 1 OF 2)

CONST. 3-60' PRESTRESSED CONCRETE BEAM SPANS; 50'-0" CLR. RDWY. W/ CONC. PARAPETS (FSHP-42) SKEWED 0° AT ℄ STA. 113+66.44

State Job No. 24428(04) Sheet No. B003

US 81 REALIGNMENT
GRADY COUNTY

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PROPOSED
R/W
AUGUST 2017

LOAD AND RESISTANCE FACTOR DESIGN

DESIGN DATA

CLASS "AA" CONCRETE	F'c = 4,000 PSI
CLASS "A" CONCRETE	F'c = 3,000 PSI
REINFORCING STEEL	Fy = 60,000 PSI
STRUCTURAL STEEL AASHTO M270 (Gr. 50W)	Fy = 50,000 PSI
STAINLESS STEEL A240 (TYPE 316)	Fy = 30,000 PSI

LOADING: HL–93 OR OKLAHOMA OVERLOAD TRUCK
20 PSF FUTURE WEARING SURFACE
5 PSF STAY–IN–PLACE FORMS

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, WITH 2016 INTERIM REVISIONS.
ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.
ANSI/AWS D1.6 STRUCTURAL WELDING CODE – STAINLESS STEEL.

LRFR INVENTORY RATING FACTOR: ?.??
LFD OPERATING RATING: HS ??.?

FOUNDATION DATA

ABUTMENTS (HP10x42 PILING):

(1) MAXIMUM FACTORED PILE REACTION: = ??.? TONS/PILE

PIERS (72" DIAMETER DRILLED SHAFTS)		PIER 1	PIER 2
FACTORED REACTION (TONS/SHAFT)	=	???.?	???.?
NOMINAL UNIT BEARING RESISTANCE (TSF)	=	??.?	??.?
BEARING RESISTANCE FACTOR	=	0.7	0.7
FACTORED BEARING RESISTANCE (TONS/SHAFT)	=	????.?	????.?
NOMINAL UNIT FRICTION RESISTANCE (TSF)	=	?.?	?.?
FRICTION RESISTANCE FACTOR	=	0.45	0.45
FACTORED FRICTION RESISTANCE (TONS/SHAFT)	=	???.?	???.?
DEPTH OF ROCK NEGLECTED FOR FRICTION (FT.)	=	?.?	?.?
MINIMUM DEPTH INTO ROCK (FT.)	=	??.?	??.?
TOTAL FACTORED RESISTANCE (TONS/SHAFT)	=	????.?	????.?

(1) ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN ON THE PLANS. IF THE FACTORED PILE CAPACITY IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE FACTORED PILE CAPACITY IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

SUMMARY OF QUANTITIES (BRIDGE "B")

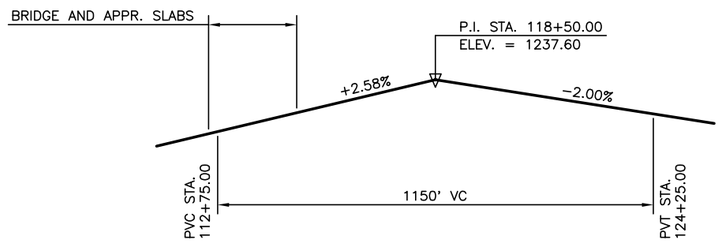
DESCRIPTION	UNITS	ABUTS.	PIERS	SUPSTR.	APPR. SLABS	SLOPE WALLS	TOTAL
SUBSTRUCTURE EXCAVATION COMMON	CY	1.00					1.00
CLSM BACKFILL	CY	1.00					1.00
PRESTRESSED CONCRETE BEAMS (TYPE III)	LF			1.00			1.00
APPROACH SLAB	SY				1.00		1.00
SAW–CUT GROOVING	SY			1.00	1.00		1.00
42" F–SHAPED PARAPET	LF			1.00	1.00		1.00
STRUCTURAL STEEL	LB			1.00			1.00
WEATHERING STEEL FIXED BEARING ASSEMBLY	EA			1.00			1.00
STAINLESS STEEL EXPANSION BEARING ASSEMBLY	EA			1.00			1.00
ELASTOMERIC BEARING PADS	EA			1.00			1.00
CLASS AA CONCRETE	CY			1.00			1.00
CLASS A CONCRETE	CY	1.00	1.00				1.00
SLOPE WALL (5")	SY					1.00	1.00
REINFORCING STEEL	LB		1.00				1.00
EPOXY COATED REINFORCING STEEL	LB	1.00	1.00	1.00			1.00
PILES, FURNISHED (HP10x42)	LF	1.00					1.00
PILES, DRIVEN (HP10x42)	LF	1.00					1.00
PILE SPLICE, H–PILE (NON–BIDDABLE)	EA	1.00					1.00
WATER REPELLENT (VISUALLY INSPECTED)	SY	1.00	1.00	1.00	1.00		1.00
DRILLED SHAFTS 72" DIAMETER	LF		1.00				1.00
CROSSHOLE SONIC LOGGING	EA		1.00				1.00
SEALER CRACK PREPARATION	LF			1.00			1.00
SEALER RESIN	GAL			1.00			1.00
6" PERFORATED PIPE UNDERDRAIN ROUND	LF	1.00				1.00	1.00
6" NON–PERF. PIPE UNDERDRAIN RND.	LF	1.00				1.00	1.00

INDEX OF SHEETS (BRIDGE "B")

SHEET NO.	TITLE
??	SUMMARY OF PAY QUANTITIES (BRIDGES "A" AND "B")
??	GENERAL NOTES (BRIDGES "A" AND "B")
B003	GENERAL PLAN AND ELEVATION (BRIDGE "B")
B004	GENERAL PLAN AND ELEVATION (BRIDGE "B")
??	FOUNDATION REPORT
??	FOUNDATION REPORT
??	SUBSTRUCTURE STAKING DIAGRAM
??	ABUTMENT 1 DETAILS
??	ABUTMENT 2 DETAILS
??	WING DETAILS
??	MISCELLANEOUS ABUTMENT DETAILS
??	SUBSTRUCTURE EXCAVATION AND PIPE UNDERDRAIN ASSEMBLY DETAILS
??	PIER 1 DETAILS
??	PIER 2 DETAILS
??	MISCELLANEOUS PIER DETAILS
??	MISCELLANEOUS PIER DETAILS
??	TYPICAL CROSS SECTION
??	LONGITUDINAL SECTION
??	BEARING DETAILS
??	P.C. BEAM AND DIAPHRAGM LAYOUT PLAN
??	PIER AND INTERMEDIATE DIAPHRAGM DETAILS
??	END DIAPHRAGM DETAILS (ABUTMENT 1)
??	END DIAPHRAGM DETAILS (ABUTMENT 2)
??	MISCELLANEOUS END DIAPHRAGM DETAILS
??	BOTTOM SLAB REINFORCING PLAN
??	TOP SLAB REINFORCING PLAN AND SLAB POURING SEQUENCE
??	TYPE III P.C. BEAM DETAILS
??	APPROACH SLAB DETAILS
??	APPROACH SLAB DETAILS
??	SLOPE WALL DETAILS
??	SLOPE WALL DETAILS
??	DRAIN AT END BRIDGE DETAILS

THE FOLLOWING STANDARDS SHALL BE REQUIRED:

FSHP–42–2–00E	LECS–4–1
HP1–2–01E	PUD–3–2



FINISH GRADE DATA
℄ SURVEY US 81

NOTE: STATIONING FOLLOWS ℄ SURVEY US 81. FINISH GRADE IS ALONG FINISH GRADE LINE (FGL).

NB US–81 OVER EW 140.5

GENERAL PLAN AND ELEVATION (BRIDGE "B")
(SHEET 2 OF 2)
CONST. 3–60' PRESTRESSED CONCRETE BEAM SPANS; 50'–0" CLR. RDWY.
W/ CONC. PARAPETS (FSHP–42) SKEWED 0° AT ℄ STA. 113+66.44

State Job No. 24428(04) Sheet No. B004

US 81 REALIGNMENT
GRADY COUNTY

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PROPOSED
R/W
AUGUST 2017

SEC. 20
T6N R7W

SEC. 17
T6N R7W

BEGIN APPR. SLAB
STA. 139+13.27

END APPR. SLAB
& BEGIN BRIDGE
STA. 139+42.43

℄ PIER 1
STA. 140+13.09

EXIST.
QUAIL RD.

℄ SURVEY QUAIL RD.
& ℄ EW 140
N89°50'44.43"E

℄ RAMP A
N89°50'44.43"E

℄ PIER 2
STA. 141+15.04
+19.35'~TP 135.6' LT.

END BRIDGE &
BEGIN APPR. SLAB
STA. 141+86.33

END APPR. SLAB
STA. 142+29.57

139+00 140+00 141+00 142+00 158+00 159+00 40+00 41+00

(1) 1'-6" CONC. PARAPET (FSHP-42)

5" CONC. SLOPE WALL

PT. OF MIN. VERT. CLR.

5-BW FENCE

℄ RAMP A

℄ SURVEY US 81
CURVE NO. US81-1

P.C. STA. 124+31.69
P.I. STA. 147+93.78
P.T. STA. 169+12.58

Δ = 44°48'32.01" LT.
D = 01°00'00.00"
R = 5729.5801'
L = 4480.8909'
T = 2362.0826'
S = 0.034'/'

15°01'17.53"
15°43'41.28"
16°44'51.41"
17°27'37.62"
16°04'53.72"

46'-0"
50'-0" CLR. RDWY.
4'-0"
32'-0" (1)
53'-0" OUT-TO-OUT (1)
SLOPE 3.4%
10'-0" SHLDR.
36'-0" (2-DRIVING LANES; 1-AUX. LANE)
4'-0" SHLDR.

BRIDGE "C"

PROVIDE PARAPET TRANSITION PER STD. FSHP-42. SEE ROADWAY PLANS FOR GUARD RAIL REQUIREMENTS. (TYP. EA. CORNER)

FGL

℄ SURVEY US 81
STA. 140+48.44 =
℄ SURVEY QUAIL RD.
STA. 40+97.36

+82.75'~TP 34.4' RT.

BRIDGE "D"

(1) RADIAL LINE OR RADIAL DIMENSION.

(2) HORIZONTAL ARC DIMENSIONS ALONG FGL, 32' LT. OF ℄ SURVEY US 81.

PLAN
SCALE 1"=30'

BM #11 100D NAIL
SET S.W. FACE
8" ELM, 58.92' RT.
STA. 134+50.38
ELEV.= 1183.36

BM #12 100D NAIL
SET W. FACE
18" ELM, 306.34' LT.
STA. 141+72.09
ELEV.= 1191.81

NOTES: ALL STATIONING FOLLOWS ℄ SURVEY US 81, UNLESS NOTED OTHERWISE.

ELEVATION OF BRIDGE IS SHOWN ALONG THE FINISH GRADE LINE.

SEE SHEET NO. B007 FOR THE GENERAL PLAN AND ELEVATION OF BRIDGE "D".

SEE SHEET NO. B006 FOR DESIGN DATA, FINISH GRADE DATA, FOUNDATION DATA, SUMMARY OF QUANTITIES AND INDEX OF SHEETS.

FOR CONCRETE SLOPE WALL DETAILS, SEE SHEET NOS. B?? THRU B??.

FOR GEOMETRIC DATA, SEE THE GEOMETRIC LAYOUT SHEETS.

PROPOSED R/W IS OUTSIDE THE VIEWING AREA. SEE ROADWAY PLANS FOR LIMITS.

BEGIN APPR. SLAB
STA. 139+13.27
F.G. ELEV. 1200.69

BEG. BRIDGE
STA. 139+42.43
F.G. ELEV. 1200.46

℄ PIER 1
STA. 140+13.09
F.G. ELEV. 1199.90

℄ PIER 2
STA. 141+15.04
F.G. ELEV. 1199.08

END BRIDGE
STA. 141+86.33
F.G. ELEV. 1198.51

END APPR. SLAB
STA. 142+29.57
F.G. ELEV. 1198.16

BR. SEAT AT FGL
ELEV. ????.??

S.G. STA. ???+??.??
S.G. ELEV. ???.??

BRIDGE LENGTH = 242'-6 3/8"

SPAN 1 = 70'-3 1/4"
SPAN 2 = 101'-4 1/2"
SPAN 3 = 70'-10 5/8"

(2)

TOP OF PARAPET
TOP OF SLAB

-0.80%
FINISH GRADE

FIX. EXP. EXP. CONT. EXP. CONT. EXP. FIX.

1
3.11
3.84
4.44
3.14

5" CONC. SLOPE WALL

TOP OF PIER AT FGL
ELEV. ????.??

17'-1" *

EXIST. PROFILE ALONG FGL

?-HP12x53x??' (AVG.) PILES
(BATTERED 3:12)

?-HP12x53x??'
(AVG.) PILES

2-HP10x42x??'
(AVG.) PILES
(1 EA. WING)

TOP OF DRILLED SHAFTS
ELEV. ???.?? (TYP.)

72" ø DRILLED SHAFTS
(TYP.)

℄ SURVEY QUAIL RD.

BOTTOM OF DRILLED SHAFTS
ELEV. ???.?? (TYP.)

* MINIMUM THEORETICAL VERTICAL CLEARANCE. (SEE PLAN FOR LOCATION AND SHEET NO. B006 FOR SIGNAGE DETAILS AND NOTES.)

1220 1210 1200 1190 1180 1170 1160 1150

139+00 140+00 141+00 142+00

ELEVATION
SCALE 1"=30'

SB US-81 OVER QUAIL RD.

GENERAL PLAN AND ELEVATION (BRIDGE "C")

(SHEET 1 OF 2)

CONST. (70'-101'-71') PRESTRESSED CONCRETE BEAM SPANS; 50'-0" CLR. RDWY. W/ CONC. PARAPETS (FSHP-42) SKEWED 16°04'53.72" LF AT ℄ STA. 140+64.38

State Job No. 24428(04) Sheet No. B005

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US 81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

LOAD AND RESISTANCE FACTOR DESIGN

DESIGN DATA

CLASS "AA" CONCRETE	F'c = 4,000 PSI
CLASS "A" CONCRETE	F'c = 3,000 PSI
REINFORCING STEEL	Fy = 60,000 PSI
STRUCTURAL STEEL AASHTO M270 (Gr. 50W)	Fy = 50,000 PSI
STAINLESS STEEL A240 (TYPE 316)	Fy = 30,000 PSI

LOADING: HL–93 OR OKLAHOMA OVERLOAD TRUCK
20 PSF FUTURE WEARING SURFACE
5 PSF STAY–IN–PLACE FORMS

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, WITH 2016 INTERIM REVISIONS.
ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.
ANSI/AWS D1.6 STRUCTURAL WELDING CODE – STAINLESS STEEL.

LRFR INVENTORY RATING FACTOR: ?.??
LFD OPERATING RATING: HS ??.?

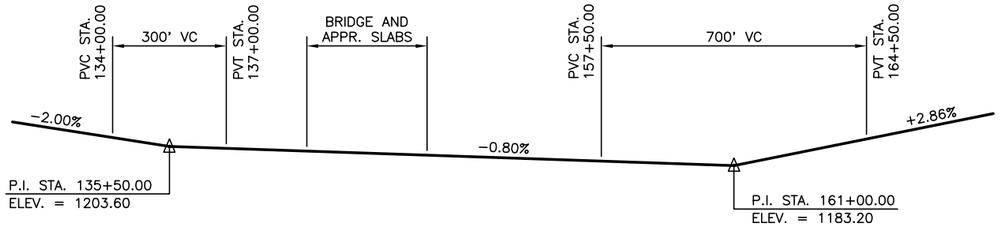
FOUNDATION DATA

ABUTMENTS (HP12x53 PILING):

(1) MAXIMUM FACTORED PILE REACTION: = ??.? TONS/PILE

PIERS (72" DIAMETER DRILLED SHAFTS)		PIER 1	PIER 2
FACTORED REACTION (TONS/SHAFT)	=	???.?	???.?
NOMINAL UNIT BEARING RESISTANCE (TSF)	=	??.?	??.?
BEARING RESISTANCE FACTOR	=	0.7	0.7
FACTORED BEARING RESISTANCE (TONS/SHAFT)	=	????.?	????.?
NOMINAL UNIT FRICTION RESISTANCE (TSF)	=	?.?	?.?
FRICTION RESISTANCE FACTOR	=	0.45	0.45
FACTORED FRICTION RESISTANCE (TONS/SHAFT)	=	???.?	???.?
DEPTH OF ROCK NEGLECTED FOR FRICTION (FT.)	=	?.?	?.?
MINIMUM DEPTH INTO ROCK (FT.)	=	??.?	??.?
TOTAL FACTORED RESISTANCE (TONS/SHAFT)	=	????.?	????.?

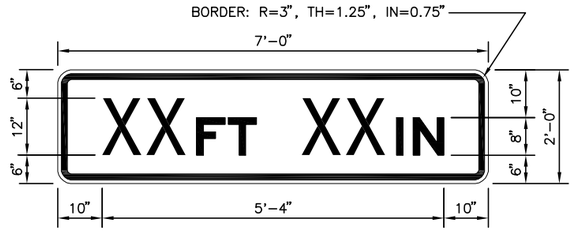
(1) ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN ON THE PLANS. IF THE FACTORED PILE CAPACITY IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE FACTORED PILE CAPACITY IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY.



FINISH GRADE DATA
℄ SURVEY US 81

NOTE: STATIONING FOLLOWS ℄ SURVEY US 81. FINISH GRADE IS ALONG FINISH GRADE LINE (FGL).

SUMMARY OF QUANTITIES (BRIDGE "C")							
DESCRIPTION	UNITS	ABUTS.	PIERS	SUPSTR.	APPR. SLABS	SLOPE WALLS	TOTAL
SUBSTRUCTURE EXCAVATION COMMON	CY	1.00					1.00
CLSM BACKFILL	CY	1.00					1.00
PRESTRESSED CONCRETE BEAMS (TYPE IV)	LF			1.00			1.00
APPROACH SLAB	SY				1.00		1.00
SAW–CUT GROOVING	SY			1.00	1.00		1.00
SEALED EXPANSION JOINT	LF			1.00			1.00
42" F–SHAPED PARAPET	LF			1.00	1.00		1.00
STRUCTURAL STEEL	LB			1.00			1.00
STAINLESS STEEL FIXED BEARING ASSEMBLY	EA			1.00			1.00
STAINLESS STEEL EXPANSION BEARING ASSEMBLY	EA			1.00			1.00
CLASS AA CONCRETE	CY			1.00			1.00
CLASS A CONCRETE	CY	1.00	1.00				1.00
SLOPE WALL (5")	SY					1.00	1.00
REINFORCING STEEL	LB		1.00				1.00
EPOXY COATED REINFORCING STEEL	LB	1.00	1.00	1.00			1.00
PILES, FURNISHED (HP10x42)	LF	1.00					1.00
PILES, FURNISHED (HP12x53)	LF	1.00					1.00
PILES, DRIVEN (HP10x42)	LF	1.00					1.00
PILES, DRIVEN (HP12x53)	LF	1.00					1.00
PILE SPLICE, H–PILE (NON–BIDDABLE)	EA	1.00					1.00
WATER REPELLENT (VISUALLY INSPECTED)	SY	1.00	1.00	1.00	1.00		1.00
DRILLED SHAFTS 72" DIAMETER	LF		1.00				1.00
CROSSHOLE SONIC LOGGING	EA		1.00				1.00
SEALER CRACK PREPARATION	LF			1.00			1.00
SEALER RESIN	GAL			1.00			1.00
6" PERFORATED PIPE UNDERDRAIN ROUND	LF	1.00				1.00	1.00
6" NON–PERF. PIPE UNDERDRAIN RND.	LF	1.00				1.00	1.00



SIGN NUMBER	W12–2p
WIDTH x HEIGHT	7'–0" x 2'–0"
BORDER WIDTH	1.25"
CORNER RADIUS	3"
MOUNTING	BRIDGE
BACKGROUND	TYPE: REFLECTIVE
	COLOR: YELLOW
LEGEND & BORDER	TYPE: REFLECTIVE
	COLOR: BLACK

VERTICAL CLEARANCE SIGN DETAILS

NOTES: INSTALL ONE (1) SIGN ON THE WEST SIDE OF BRIDGE "C" AND ONE (1) SIGN ON THE EAST SIDE OF BRIDGE "D" AT THE ℄ OF SPANS 2.

BRIDGE "C" CONTROLS THE VERTICAL CLEARANCE OVER QUAIL RD. SEE SHEET NO. B005 FOR THE THEORETICAL VERTICAL CLEARANCE.

SIGNS SHOULD INDICATE A VERTICAL CLEARANCE OF 3" MIN. LESS THAN THE FINAL MEASURED CLEARANCE. THE CONTRACTOR SHALL CONTACT ODOT DIV. 7 FOR FINAL MEASUREMENT OF VERTICAL CLEARANCES.

HARDWARE AND CONNECTION DETAILS TO THE BRIDGES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

ALL COSTS FOR FABRICATION, LABOR, MATERIALS, HARDWARE AND INSTALLATION OF THE VERTICAL CLEARANCE SIGNS, COMPLETE–IN–PLACE, SHALL BE INCLUDED IN THE PRICE BID FOR "SHEET ALUMINUM SIGNS", PER SQ. FT. (TRAFFIC ITEM).

THE INSTALLATION OF THE PERMANENT VERTICAL CLEARANCE SIGNS DOES NOT RELIEVE THE CONTRACTOR OF MAINTAINING APPROPRIATE VERTICAL CLEARANCE SIGNS DURING CONSTRUCTION. COSTS TO BE INCLUDED IN OTHER ITEMS OF WORK.

INDEX OF SHEETS (BRIDGE "C")

SHEET NO.	TITLE
??	SUMMARY OF PAY QUANTITIES (BRIDGES "C" AND "D")
??	GENERAL NOTES (BRIDGES "C" AND "D")
B005	GENERAL PLAN AND ELEVATION (BRIDGE "C")
B006	GENERAL PLAN AND ELEVATION (BRIDGE "C")
??	FOUNDATION REPORT
??	FOUNDATION REPORT
??	SUBSTRUCTURE LAYOUT DATA
??	SUBSTRUCTURE STAKING DIAGRAM
??	ABUTMENT 1 DETAILS
??	ABUTMENT 1 DETAILS
??	ABUTMENT 1 WINGWALL DETAILS
??	ABUTMENT 2 DETAILS
??	ABUTMENT 2 DETAILS
??	ABUTMENT 2 WINGWALL DETAILS
??	SUBSTRUCTURE EXCAVATION AND PIPE UNDERDRAIN ASSEMBLY DETAILS
??	PIER 1 DETAILS
??	PIER 2 DETAILS
??	MISCELLANEOUS PIER DETAILS
??	MISCELLANEOUS PIER DETAILS
??	TYPICAL CROSS SECTION
??	LONGITUDINAL SECTION
??	MISCELLANEOUS SUPERSTRUCTURE DETAILS
??	BEARING DETAILS
??	DIAPHRAGM DETAILS
??	DIAPHRAGM DETAILS
??	SLAB PLAN SHOWING CANTILEVER LAYOUT
??	BOTTOM SLAB REINFORCING PLAN
??	TOP SLAB REINFORCING PLAN AND PARAPET LAYOUT
??	TYPE IV P.C. BEAM DETAILS (SPANS 1 AND 3)
??	TYPE IV P.C. BEAM DETAILS (SPAN 2)
??	EXPANSION JOINT DETAILS
??	APPROACH SLAB DETAILS
??	APPROACH SLAB DETAILS
??	SLOPE WALL DETAILS
??	SLOPE WALL DETAILS
??	DRAIN AT END BRIDGE DETAILS

THE FOLLOWING STANDARDS SHALL BE REQUIRED:

FSHP–42–2–00E
EJ–SK–04E
EJ–DTL–02E
HP1–2–01E
LECS–4–1
PUD–3–2

SB US–81 OVER QUAIL RD.

GENERAL PLAN AND ELEVATION (BRIDGE "C")
(SHEET 2 OF 2)

CONST. (70'–101'–71') PRESTRESSED CONCRETE BEAM SPANS; 50'–0" CLR. RDWY. W/ CONC. PARAPETS (FSHP–42) SKEWED 16°04'53.72" LF AT ℄ STA. 140+64.38

State Job No. 24428(04) Sheet No. B006

US 81 REALIGNMENT
GRADY COUNTY

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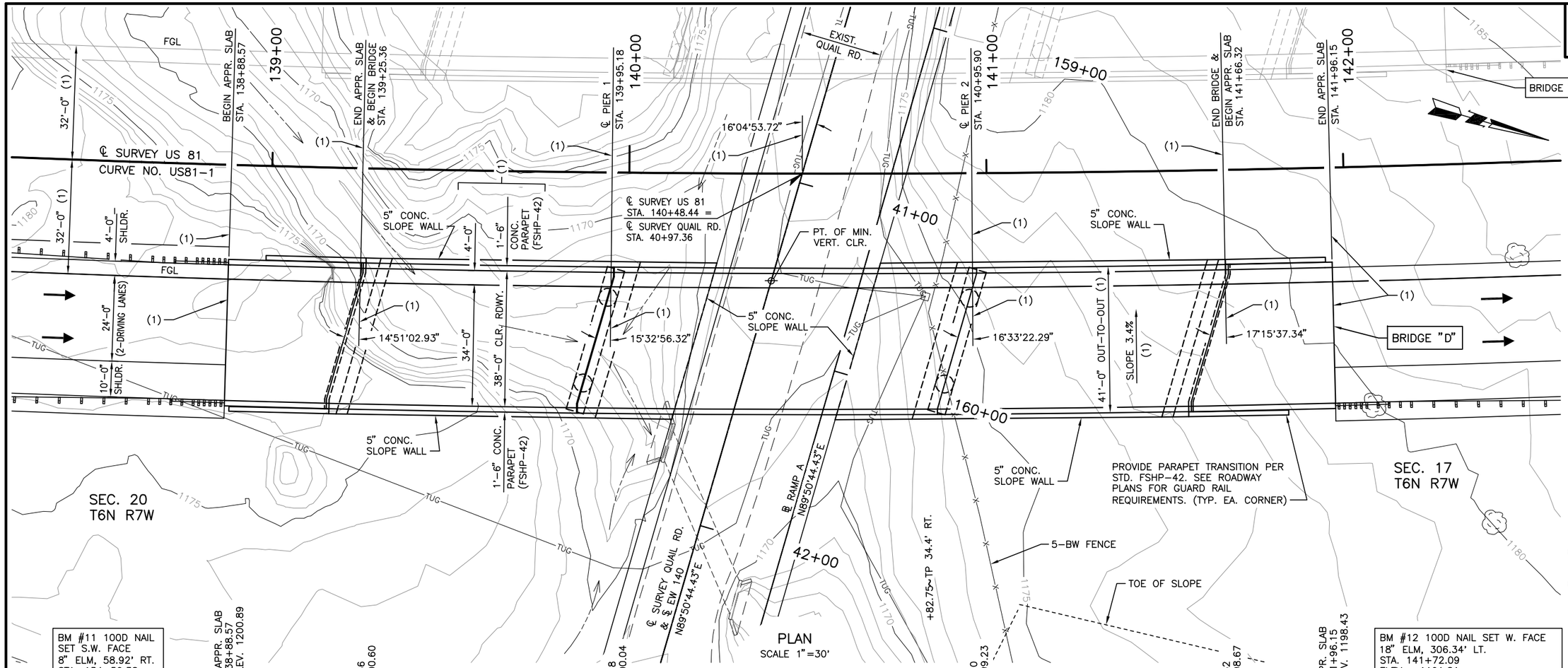
PROPOSED
R/W
AUGUST 2017



PLAN
SCALE 1"=30'

℄ SURVEY US 81
CURVE NO. US81-1 DATA

P.C. STA. 124+31.69
P.I. STA. 147+93.78
P.T. STA. 169+12.58

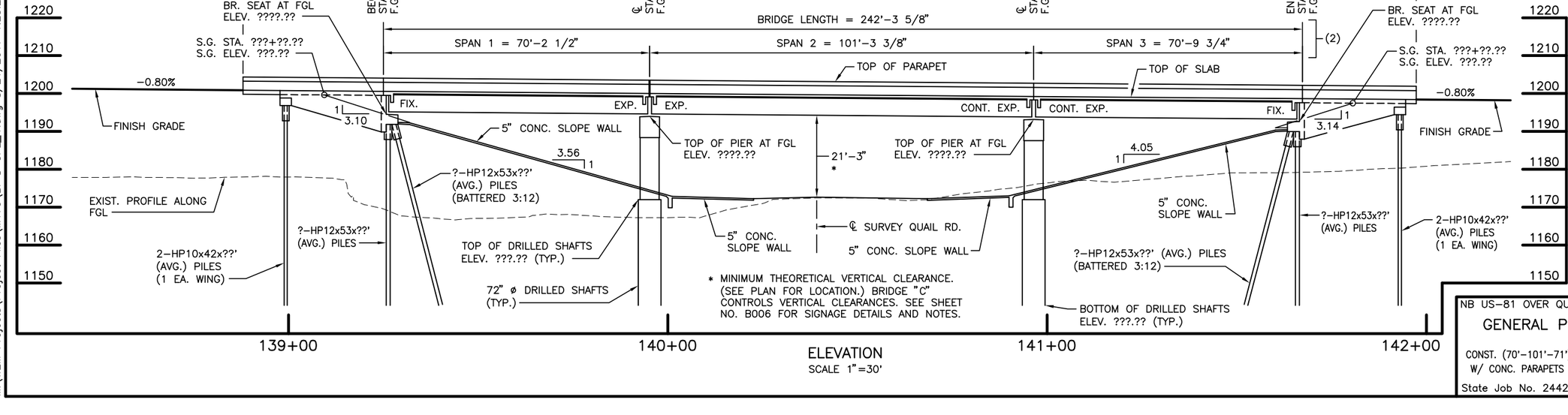
Δ = 44°48'32.01" LT.
D = 01°00'00.00"
R = 5729.5801'
L = 4480.8909'
T = 2362.0826'
S = 0.034'/'

(1) RADIAL LINE OR RADIAL DIMENSION.

(2) HORIZONTAL ARC DIMENSIONS ALONG FGL, 32' RT. OF ℄ SURVEY US 81.

BM #11 100D NAIL
SET S.W. FACE
8" ELM, 58.92' RT.
STA. 134+50.38
ELEV.= 1183.36

BM #12 100D NAIL SET W. FACE
18" ELM, 306.34' LT.
STA. 141+72.09
ELEV.= 1191.81



ELEVATION
SCALE 1"=30'

* MINIMUM THEORETICAL VERTICAL CLEARANCE. (SEE PLAN FOR LOCATION.) BRIDGE "C" CONTROLS VERTICAL CLEARANCES. SEE SHEET NO. B006 FOR SIGNAGE DETAILS AND NOTES.

NOTES:

ALL STATIONING FOLLOWS ℄ SURVEY US 81, UNLESS NOTED OTHERWISE.

ELEVATION OF BRIDGE IS SHOWN ALONG THE FINISH GRADE LINE.

SEE SHEET NO. B005 FOR THE GENERAL PLAN AND ELEVATION OF BRIDGE "C".

SEE SHEET NO. B008 FOR DESIGN DATA, FINISH GRADE DATA, FOUNDATION DATA, SUMMARY OF QUANTITIES AND INDEX OF SHEETS.

FOR CONCRETE SLOPE WALL DETAILS, SEE SHEET NOS. B?? THRU B??.

FOR GEOMETRIC DATA, SEE GEOMETRIC LAYOUT SHEETS.

PROPOSED R/W IS OUTSIDE THE VIEWING AREA. SEE ROADWAY PLANS FOR LIMITS.

NB US-81 OVER QUAIL RD.

GENERAL PLAN AND ELEVATION (BRIDGE "D")

(SHEET 1 OF 2)

CONST. (70'-101'-71') PRESTRESSED CONCRETE BEAM SPANS; 38'-0" CLR. RDWY. W/ CONC. PARAPETS (FSHP-42) SKEWED 16°04'53.72" LF AT ℄ STA. 140+45.84

State Job No. 24428(04) Sheet No. B007

US 81 REALIGNMENT
GRADY COUNTY

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PROPOSED
R/W
AUGUST 2017

LOAD AND RESISTANCE FACTOR DESIGN

DESIGN DATA

CLASS "AA" CONCRETE	F'c = 4,000 PSI
CLASS "A" CONCRETE	F'c = 3,000 PSI
REINFORCING STEEL	Fy = 60,000 PSI
STRUCTURAL STEEL AASHTO M270 (Gr. 50W)	Fy = 50,000 PSI
STAINLESS STEEL A240 (TYPE 316)	Fy = 30,000 PSI

LOADING: HL–93 OR OKLAHOMA OVERLOAD TRUCK
20 PSF FUTURE WEARING SURFACE
5 PSF STAY–IN–PLACE FORMS

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, WITH 2016 INTERIM REVISIONS.
ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.
ANSI/AWS D1.6 STRUCTURAL WELDING CODE – STAINLESS STEEL.

LRFR INVENTORY RATING FACTOR: ?.??
LFD OPERATING RATING: HS ??.?

FOUNDATION DATA

ABUTMENTS (HP12x53 PILING):

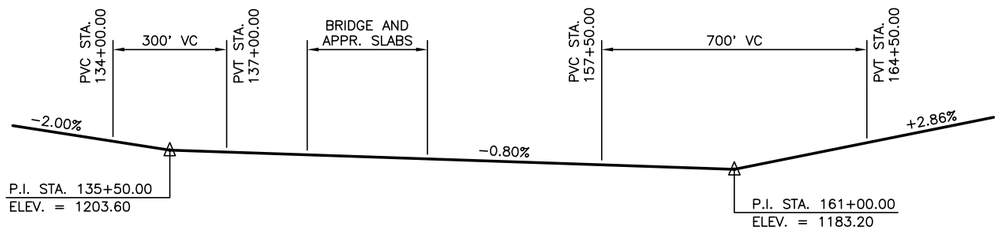
(1) MAXIMUM FACTORED PILE REACTION: = ??.? TONS/PILE

PIERS (72" DIAMETER DRILLED SHAFTS)		PIER 1	PIER 2
FACTORED REACTION (TONS/SHAFT)	=	???.?	???.?
NOMINAL UNIT BEARING RESISTANCE (TSF)	=	??.?	??.?
BEARING RESISTANCE FACTOR	=	0.7	0.7
FACTORED BEARING RESISTANCE (TONS/SHAFT)	=	????.?	????.?
NOMINAL UNIT FRICTION RESISTANCE (TSF)	=	?.?	?.?
FRICTION RESISTANCE FACTOR	=	0.45	0.45
FACTORED FRICTION RESISTANCE (TONS/SHAFT)	=	???.?	???.?
DEPTH OF ROCK NEGLECTED FOR FRICTION (FT.)	=	?.?	?.?
MINIMUM DEPTH INTO ROCK (FT.)	=	??.?	??.?
TOTAL FACTORED RESISTANCE (TONS/SHAFT)	=	????.?	????.?

(1) ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN ON THE PLANS. IF THE FACTORED PILE CAPACITY IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE FACTORED PILE CAPACITY IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

SUMMARY OF QUANTITIES (BRIDGE "D")

DESCRIPTION	UNITS	ABUTS.	PIERS	SUPSTR.	APPR. SLABS	SLOPE WALLS	TOTAL
SUBSTRUCTURE EXCAVATION COMMON	CY	1.00					1.00
CLSM BACKFILL	CY	1.00					1.00
PRESTRESSED CONCRETE BEAMS (TYPE IV)	LF			1.00			1.00
APPROACH SLAB	SY				1.00		1.00
SAW–CUT GROOVING	SY			1.00	1.00		1.00
SEALED EXPANSION JOINT	LF			1.00			1.00
42" F–SHAPED PARAPET	LF			1.00	1.00		1.00
STRUCTURAL STEEL	LB			1.00			1.00
STAINLESS STEEL FIXED BEARING ASSEMBLY	EA			1.00			1.00
STAINLESS STEEL EXPANSION BEARING ASSEMBLY	EA			1.00			1.00
CLASS AA CONCRETE	CY			1.00			1.00
CLASS A CONCRETE	CY	1.00	1.00				1.00
SLOPE WALL (5")	SY					1.00	1.00
REINFORCING STEEL	LB		1.00				1.00
EPOXY COATED REINFORCING STEEL	LB	1.00	1.00	1.00			1.00
PILES, FURNISHED (HP10x42)	LF	1.00					1.00
PILES, FURNISHED (HP12x53)	LF	1.00					1.00
PILES, DRIVEN (HP10x42)	LF	1.00					1.00
PILES, DRIVEN (HP12x53)	LF	1.00					1.00
PILE SPLICE, H–PILE (NON–BIDDABLE)	EA	1.00					1.00
WATER REPELLENT (VISUALLY INSPECTED)	SY	1.00	1.00	1.00	1.00		1.00
DRILLED SHAFTS 72" DIAMETER	LF		1.00				1.00
CROSSHOLE SONIC LOGGING	EA		1.00				1.00
SEALER CRACK PREPARATION	LF			1.00			1.00
SEALER RESIN	GAL			1.00			1.00
6" PERFORATED PIPE UNDERDRAIN ROUND	LF	1.00				1.00	1.00
6" NON–PERF. PIPE UNDERDRAIN RND.	LF	1.00				1.00	1.00



FINISH GRADE DATA
℄ SURVEY US 81

NOTE: STATIONING FOLLOWS ℄ SURVEY US 81. FINISH GRADE IS ALONG FINISH GRADE LINE (FGL).

INDEX OF SHEETS (BRIDGE "D")

SHEET NO.	TITLE
??	SUMMARY OF PAY QUANTITIES (BRIDGES "C" AND "D")
??	GENERAL NOTES (BRIDGES "C" AND "D")
B007	GENERAL PLAN AND ELEVATION (BRIDGE "D")
B008	GENERAL PLAN AND ELEVATION (BRIDGE "D")
??	FOUNDATION REPORT
??	FOUNDATION REPORT
??	SUBSTRUCTURE LAYOUT DATA
??	SUBSTRUCTURE STAKING DIAGRAM
??	ABUTMENT 1 DETAILS
??	ABUTMENT 1 DETAILS
??	ABUTMENT 1 WINGWALL DETAILS
??	ABUTMENT 2 DETAILS
??	ABUTMENT 2 DETAILS
??	ABUTMENT 2 WINGWALL DETAILS
??	SUBSTRUCTURE EXCAVATION AND PIPE UNDERDRAIN ASSEMBLY DETAILS
??	PIER 1 DETAILS
??	PIER 2 DETAILS
??	MISCELLANEOUS PIER DETAILS
??	MISCELLANEOUS PIER DETAILS
??	TYPICAL CROSS SECTION
??	LONGITUDINAL SECTION
??	MISCELLANEOUS SUPERSTRUCTURE DETAILS
??	BEARING DETAILS
??	DIAPHRAGM DETAILS
??	DIAPHRAGM DETAILS
??	SLAB PLAN SHOWING CANTILEVER LAYOUT
??	BOTTOM SLAB REINFORCING PLAN
??	TOP SLAB REINFORCING PLAN AND PARAPET LAYOUT
??	TYPE IV P.C. BEAM DETAILS (SPANS 1 AND 3)
??	TYPE IV P.C. BEAM DETAILS (SPAN 2)
??	EXPANSION JOINT DETAILS
??	APPROACH SLAB DETAILS
??	APPROACH SLAB DETAILS
??	SLOPE WALL DETAILS
??	SLOPE WALL DETAILS
??	DRAIN AT END BRIDGE DETAILS

THE FOLLOWING STANDARDS SHALL BE REQUIRED:

FSHP–42–2–00E
EJ–SK–04E
EJ–DTL–02E
HP1–2–01E
LECS–4–1
PUD–3–2

NB US–81 OVER QUAIL RD.

GENERAL PLAN AND ELEVATION (BRIDGE "D")
(SHEET 2 OF 2)
CONST. (70'–101'–71') PRESTRESSED CONCRETE BEAM SPANS; 38'–0" CLR. RDWY.
W/ CONC. PARAPETS (FSHP–42) SKEWED 16°04'53.72" LF AT ℄ STA. 140+45.84

State Job No. 24428(04) Sheet No. B008

US 81 REALIGNMENT
GRADY COUNTY

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PROPOSED
R/W
AUGUST 2017

℄ SURVEY I-44
CURVE NO. I-44-1 DATA

P.C. STA. 270+98.50
P.I. STA. 282+00.00
P.T. STA. 292+98.50

Δ = 07°20'00.00" LT.
D = 00°20'00.00"
R = 17188.7340'
L = 2200.0000'
T = 1101.5041'

(1) 42'-0" NEW COLLECTOR/DISTRIBUTOR ROAD AND RAMP

(2) RADIAL LINE AT ℄ SURVEY I-44 STA. 289+39.57

(3) RADIAL DIMENSION

(4) CONCRETE LONGITUDINAL BARRIER (RDWY. ITEM) (SEE ROADWAY PLANS)

(5) PROVIDE PARAPET TRANSITION PER STD. FSHP-42. SEE ROADWAY PLANS FOR GUARD RAIL REQUIREMENTS. (TYP. EA. CORNER)

B.F. – DENOTES BACK FACE

PLAN
SCALE 1"=40'

BM #1 100D NAIL SET IN E. FACE 8" WOOD BRACE POST, N. SIDE OF I-44, 286.18' LT. STA. 197+99.60 ELEV.= 1249.87

BM #2 100D NAIL SET IN E. FACE OF 12" ELM TREE, 312.42' LT. STA. 206+56.29 ELEV.= 1230.50

ELEVATION
SCALE 1"=40'

NOTES:

ALL STATIONING FOLLOWS ℄ SURVEY US 81, UNLESS NOTED OTHERWISE.

ELEVATION OF BRIDGE IS SHOWN ALONG THE FINISH GRADE LINE.

SEE SHEET NO. B011 FOR THE GENERAL PLAN AND ELEVATION OF BRIDGE "G".

SEE SHEET NO. B010 FOR DESIGN DATA, FINISH GRADE DATA, FOUNDATION DATA, SUMMARY OF QUANTITIES AND INDEX OF SHEETS.

FOR CONCRETE SLOPE WALL DETAILS, SEE SHEET NOS. B?? THRU B??.

FOR GEOMETRIC DATA, SEE THE GEOMETRIC LAYOUT SHEETS.

PROPOSED R/W IS OUTSIDE THE VIEWING AREA. SEE ROADWAY PLANS FOR LIMITS.

SB US-81 OVER I-44

GENERAL PLAN AND ELEVATION (BRIDGE "F")

(SHEET 1 OF 2)

CONST. (55'-99'-99'-55') PRESTRESSED CONCRETE BEAM SPANS; 38'-0" AND 42'-0" CLR. RDWYS. W/ CONC. PARAPETS (FSHP-42) SKEWED 2°39'35.10" RF AT ℄ STA. 196+50.61

State Job No. 24428(04) Sheet No. B009

US 81 REALIGNMENT
GRADY COUNTY

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PROPOSED
R/W
AUGUST 2017

LOAD AND RESISTANCE FACTOR DESIGN

DESIGN DATA

CLASS "AA" CONCRETE	F'c = 4,000 PSI
CLASS "A" CONCRETE	F'c = 3,000 PSI
REINFORCING STEEL	Fy = 60,000 PSI
STRUCTURAL STEEL AASHTO M270 (Gr. 50W)	Fy = 50,000 PSI
STAINLESS STEEL A240 (TYPE 316)	Fy = 30,000 PSI

LOADING: HL–93 OR OKLAHOMA OVERLOAD TRUCK
20 PSF FUTURE WEARING SURFACE
5 PSF STAY–IN–PLACE FORMS

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, WITH 2016 INTERIM REVISIONS.
ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.
ANSI/AWS D1.6 STRUCTURAL WELDING CODE – STAINLESS STEEL.

LRFR INVENTORY RATING FACTOR: ?.??
LFD OPERATING RATING: HS ??.?

FOUNDATION DATA

ABUTMENTS (HP10x42 PILING):

(1) MAXIMUM FACTORED PILE REACTION: = ??.? TONS/PILE

PIERS (72" DIAMETER DRILLED SHAFTS)		PIER 1	PIER 2	PIER 3
FACTORED REACTION (TONS/SHAFT)	=	???.?	???.?	???.?
NOMINAL UNIT BEARING RESISTANCE (TSF)	=	??.?	??.?	??.?
BEARING RESISTANCE FACTOR	=	0.7	0.7	0.7
FACTORED BEARING RESISTANCE (TONS/SHAFT)	=	????.?	????.?	????.?
NOMINAL UNIT FRICTION RESISTANCE (TSF)	=	?.?	?.?	?.?
FRICTION RESISTANCE FACTOR	=	0.45	0.45	0.45
FACTORED FRICTION RESISTANCE (TONS/SHAFT)	=	???.?	???.?	???.?
DEPTH OF ROCK NEGLECTED FOR FRICTION (FT.)	=	?.?	?.?	?.?
MINIMUM DEPTH INTO ROCK (FT.)	=	??.?	??.?	??.?
TOTAL FACTORED RESISTANCE (TONS/SHAFT)	=	????.?	????.?	????.?

(1) ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN ON THE PLANS. IF THE FACTORED PILE CAPACITY IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE FACTORED PILE CAPACITY IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

SUMMARY OF QUANTITIES (BRIDGE "F")

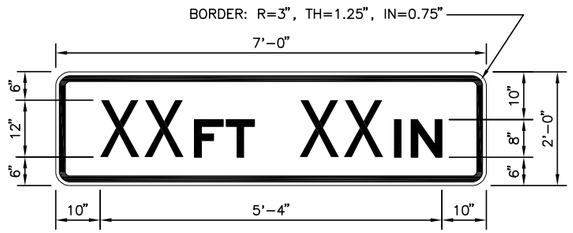
DESCRIPTION	UNITS	ABUTS.	PIERS	SUPSTR.	APPR. SLABS	SLOPE WALLS	TOTAL
SUBSTRUCTURE EXCAVATION COMMON	CY	1.00					1.00
CLSM BACKFILL	CY	1.00					1.00
PRESTRESSED CONCRETE BEAMS (TYPE IV)	LF			1.00			1.00
APPROACH SLAB	SY				1.00		1.00
SAW–CUT GROOVING	SY			1.00	1.00		1.00
42" F–SHAPED PARAPET	LF			1.00	1.00		1.00
STRUCTURAL STEEL	LB			1.00			1.00
WEATHERING STEEL FIXED BEARING ASSEMBLY	EA			1.00			1.00
STAINLESS STEEL EXPANSION BEARING ASSEMBLY	EA			1.00			1.00
ELASTOMERIC BEARING PADS	EA			1.00			1.00
CLASS AA CONCRETE	CY			1.00			1.00
CLASS A CONCRETE	CY	1.00	1.00				1.00
SLOPE WALL (5")	SY					1.00	1.00
REINFORCING STEEL	LB		1.00				1.00
EPOXY COATED REINFORCING STEEL	LB	1.00	1.00	1.00			1.00
PILES, FURNISHED (HP10x42)	LF	1.00					1.00
PILES, DRIVEN (HP10x42)	LF	1.00					1.00
PILE SPLICE, H–PILE (NON–BIDDABLE)	EA	1.00					1.00
WATER REPELLENT (VISUALLY INSPECTED)	SY	1.00	1.00	1.00	1.00		1.00
DRILLED SHAFTS 72" DIAMETER	LF		1.00				1.00
CROSSHOLE SONIC LOGGING	EA		1.00				1.00
SEALER CRACK PREPARATION	LF			1.00			1.00
SEALER RESIN	GAL			1.00			1.00
6" PERFORATED PIPE UNDERDRAIN ROUND	LF	1.00				1.00	1.00
6" NON–PERF. PIPE UNDERDRAIN RND.	LF	1.00				1.00	1.00
CONCRETE LONGITUDINAL BARRIER, DESIGN 1	LF			1.00			1.00

INDEX OF SHEETS (BRIDGE "F")

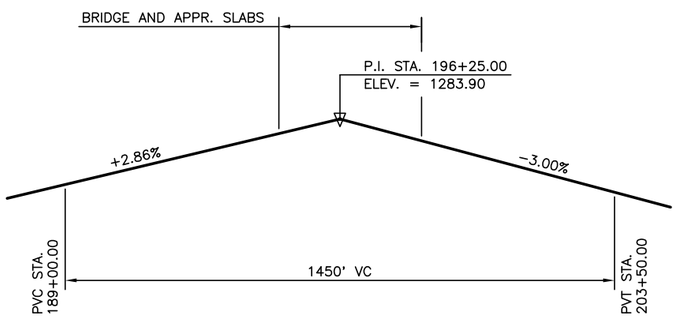
SHEET NO.	TITLE
??	SUMMARY OF PAY QUANTITIES (BRIDGES "F" AND "G")
??	GENERAL NOTES (BRIDGES "F" AND "G")
B009	GENERAL PLAN AND ELEVATION (BRIDGE "F")
B010	GENERAL PLAN AND ELEVATION (BRIDGE "F")
??	FOUNDATION REPORT
??	FOUNDATION REPORT
??	FOUNDATION REPORT
??	SUBSTRUCTURE STAKING DIAGRAM
??	ABUTMENT 1 DETAILS
??	ABUTMENT 1 DETAILS
??	ABUTMENT 2 DETAILS
??	ABUTMENT 2 DETAILS
??	WING DETAILS
??	MISCELLANEOUS ABUTMENT DETAILS
??	SUBSTRUCTURE EXCAVATION AND PIPE UNDERDRAIN ASSEMBLY DETAILS
??	PIER 1 DETAILS
??	PIER 1 DETAILS
??	PIER 2 DETAILS
??	PIER 2 DETAILS
??	PIER 3 DETAILS
??	PIER 3 DETAILS
??	MISCELLANEOUS PIER DETAILS
??	MISCELLANEOUS PIER DETAILS
??	TYPICAL CROSS SECTION
??	LONGITUDINAL SECTION
??	BEARING DETAILS
??	P.C. BEAM AND DIAPHRAGM LAYOUT PLAN
??	PIER AND INTERMEDIATE DIAPHRAGM DETAILS
??	END DIAPHRAGM DETAILS (ABUTMENT 1)
??	END DIAPHRAGM DETAILS (ABUTMENT 1)
??	END DIAPHRAGM DETAILS (ABUTMENT 2)
??	END DIAPHRAGM DETAILS (ABUTMENT 2)
??	MISCELLANEOUS END DIAPHRAGM DETAILS
??	BOTTOM SLAB REINFORCING PLAN
??	TOP SLAB REINFORCING PLAN AND SLAB POURING SEQUENCE
??	TYPE IV P.C. BEAM DETAILS (SPANS 1 AND 4)
??	TYPE IV P.C. BEAM DETAILS (SPANS 2 AND 3)
??	APPROACH SLAB DETAILS
??	APPROACH SLAB DETAILS
??	APPROACH SLAB DETAILS
??	SLOPE WALL DETAILS
??	SLOPE WALL DETAILS
??	DRAIN AT END BRIDGE DETAILS

THE FOLLOWING STANDARDS SHALL BE REQUIRED:

FSHP–42–2–00E	LECS–4–1
HP1–2–01E	PUD–3–2
	CLB–1–2



SIGN NUMBER	W12–2p
WIDTH x HEIGHT	7'–0" x 2'–0"
BORDER WIDTH	1.25"
CORNER RADIUS	3"
MOUNTING	BRIDGE
BACKGROUND	TYPE: REFLECTIVE
	COLOR: YELLOW
LEGEND & BORDER	TYPE: REFLECTIVE
	COLOR: BLACK



FINISH GRADE DATA
℄ SURVEY US 81

NOTE: STATIONING FOLLOWS ℄ SURVEY US 81. FINISH GRADE IS ALONG FINISH GRADE LINE (FGL).

VERTICAL CLEARANCE SIGN DETAILS

NOTES: INSTALL TWO (2) SIGNS ON THE WEST SIDE OF BRIDGE "F" IN SPAN 2 (ONE OVER I–44 AND ONE OVER THE CD ROAD), AND INSTALL TWO (2) SIGNS ON THE EAST SIDE OF BRIDGE "G" IN SPAN 3 (ONE OVER I–44 AND ONE OVER THE CD ROAD).

BRIDGE "F" CONTROLS THE VERTICAL CLEARANCE OVER I–44. SEE SHEET NO. B009 FOR THE THEORETICAL VERTICAL CLEARANCE.

SIGNS SHOULD INDICATE A VERTICAL CLEARANCE OF 3" MIN. LESS THAN THE FINAL MEASURED CLEARANCE. THE CONTRACTOR SHALL CONTACT ODOT DIV. 7 FOR FINAL MEASUREMENT OF VERTICAL CLEARANCES.

HARDWARE AND CONNECTION DETAILS TO THE BRIDGES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

ALL COSTS FOR FABRICATION, LABOR, MATERIALS, HARDWARE AND INSTALLATION OF THE VERTICAL CLEARANCE SIGNS, COMPLETE–IN–PLACE, SHALL BE INCLUDED IN THE PRICE BID FOR "SHEET ALUMINUM SIGNS", PER SQ. FT. (TRAFFIC ITEM).

THE INSTALLATION OF THE PERMANENT VERTICAL CLEARANCE SIGNS DOES NOT RELIEVE THE CONTRACTOR OF MAINTAINING APPROPRIATE VERTICAL CLEARANCE SIGNS DURING CONSTRUCTION. COSTS TO BE INCLUDED IN OTHER ITEMS OF WORK.

SB US–81 OVER I–44
GENERAL PLAN AND ELEVATION (BRIDGE "F")
(SHEET 2 OF 2)
CONST. (55'–99'–99'–55') PRESTRESSED CONCRETE BEAM SPANS; 38'–0" AND 42'–0" CLR. RDWYS. W/ CONC. PARAPETS (FSHP–42) SKEWED 2°39'35.10" RF AT ℄ STA. 196+50.61
State Job No. 24428(04) Sheet No. B010

US 81 REALIGNMENT
GRADY COUNTY

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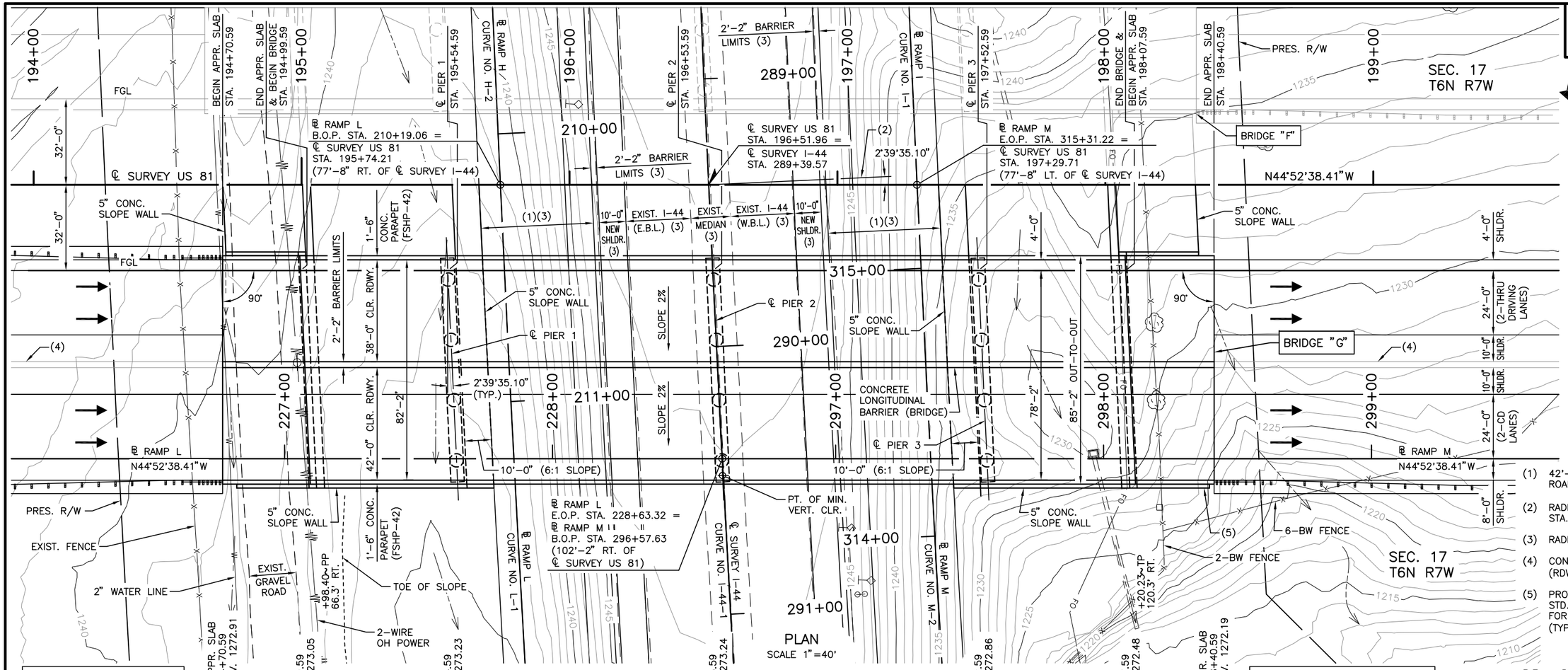
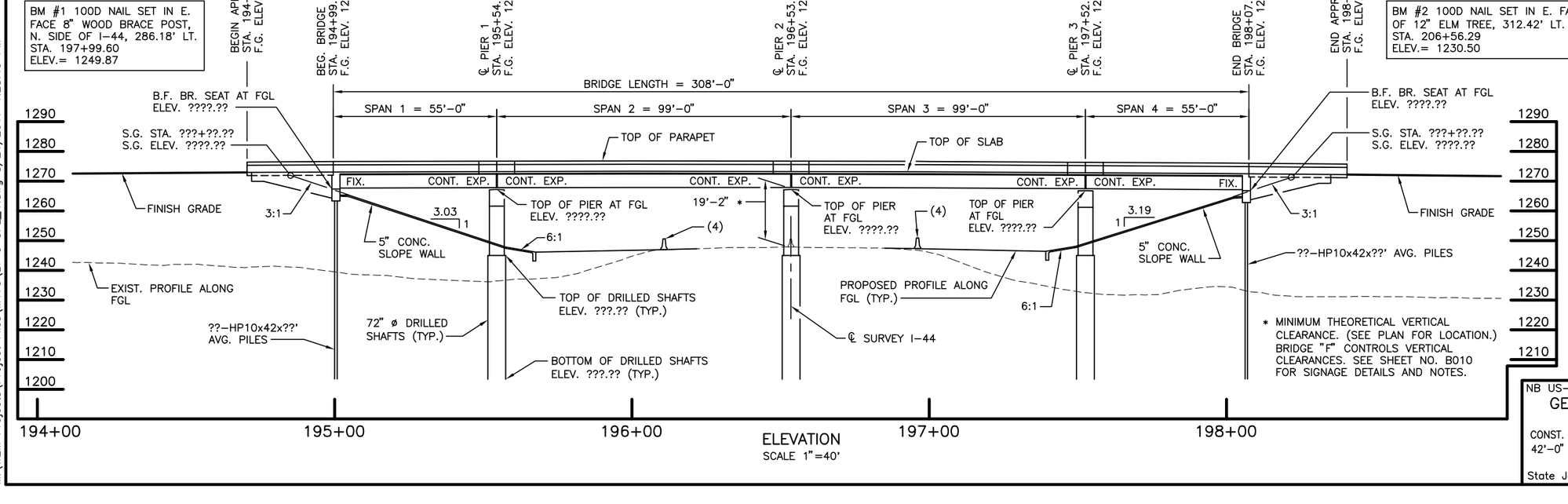
PROPOSED
R/W
AUGUST 2017



PLAN
SCALE 1"=40'

BM #1 100D NAIL SET IN E. FACE 8" WOOD BRACE POST, N. SIDE OF I-44, 286.18' LT. STA. 197+99.60 ELEV.= 1249.87

BM #2 100D NAIL SET IN E. FACE OF 12" ELM TREE, 312.42' LT. STA. 206+56.29 ELEV.= 1230.50



ELEVATION
SCALE 1"=40'

℄ SURVEY I-44
CURVE NO. I-44-1 DATA

P.C. STA. 270+98.50
P.I. STA. 282+00.00
P.T. STA. 292+98.50

Δ = 07°20'00.00" LT.
D = 00°20'00.00"
R = 17188.7340'
L = 2200.0000'
T = 1101.5041'

(1) 42'-0" NEW COLLECTOR/DISTRIBUTOR ROAD AND RAMP

(2) RADIAL LINE AT ℄ SURVEY I-44 STA. 289+39.57

(3) RADIAL DIMENSION

(4) CONCRETE LONGITUDINAL BARRIER (RDWY. ITEM) (SEE ROADWAY PLANS)

(5) PROVIDE PARAPET TRANSITION PER STD. FSHP-42. SEE ROADWAY PLANS FOR GUARD RAIL REQUIREMENTS. (TYP. EA. CORNER)

B.F. – DENOTES BACK FACE

NOTES:

ALL STATIONING FOLLOWS ℄ SURVEY US 81, UNLESS NOTED OTHERWISE.

ELEVATION OF BRIDGE IS SHOWN ALONG THE FINISH GRADE LINE.

SEE SHEET NO. B009 FOR THE GENERAL PLAN AND ELEVATION OF BRIDGE "F".

SEE SHEET NO. B012 FOR DESIGN DATA, FINISH GRADE DATA, FOUNDATION DATA, SUMMARY OF QUANTITIES AND INDEX OF SHEETS.

FOR CONCRETE SLOPE WALL DETAILS, SEE SHEET NOS. B?? THRU B??.

FOR GEOMETRIC DATA, SEE THE GEOMETRIC LAYOUT SHEETS.

PROPOSED R/W IS OUTSIDE THE VIEWING AREA. SEE ROADWAY PLANS FOR LIMITS.

* MINIMUM THEORETICAL VERTICAL CLEARANCE. (SEE PLAN FOR LOCATION.) BRIDGE "F" CONTROLS VERTICAL CLEARANCES. SEE SHEET NO. B010 FOR SIGNAGE DETAILS AND NOTES.

NB US-81 OVER I-44

GENERAL PLAN AND ELEVATION (BRIDGE "G")

(SHEET 1 OF 2)

CONST. (55'-99'-99'-55') PRESTRESSED CONCRETE BEAM SPANS; 38'-0" AND 42'-0" CLR. RDWYS. W/ CONC. PARAPETS (FSHP-42) SKEWED 2°39'35.10" RF AT ℄ STA. 196+53.59

State Job No. 24428(04) Sheet No. B011

US 81 REALIGNMENT
GRADY COUNTY

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PROPOSED
R/W
AUGUST 2017

LOAD AND RESISTANCE FACTOR DESIGN

DESIGN DATA

CLASS "AA" CONCRETE	F'c = 4,000 PSI
CLASS "A" CONCRETE	F'c = 3,000 PSI
REINFORCING STEEL	Fy = 60,000 PSI
STRUCTURAL STEEL AASHTO M270 (Gr. 50W)	Fy = 50,000 PSI
STAINLESS STEEL A240 (TYPE 316)	Fy = 30,000 PSI

LOADING: HL-93 OR OKLAHOMA OVERLOAD TRUCK
20 PSF FUTURE WEARING SURFACE
5 PSF STAY-IN-PLACE FORMS

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, WITH 2016 INTERIM REVISIONS.
ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.
ANSI/AWS D1.6 STRUCTURAL WELDING CODE - STAINLESS STEEL.

LRFR INVENTORY RATING FACTOR: ?.??
LFD OPERATING RATING: HS ??.?

FOUNDATION DATA

ABUTMENTS (HP10x42 PILING):

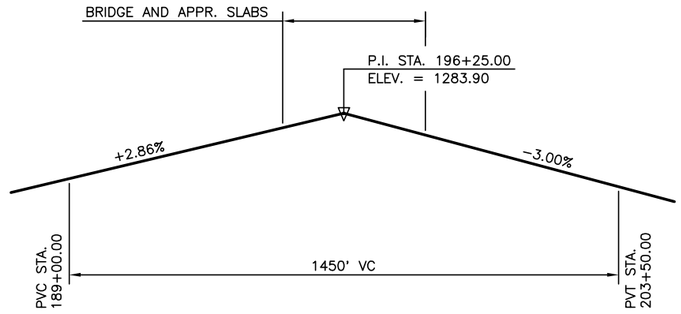
(1) MAXIMUM FACTORED PILE REACTION: = ??.? TONS/PILE

PIERS (72" DIAMETER DRILLED SHAFTS)		PIER 1	PIER 2	PIER 3
FACTORED REACTION (TONS/SHAFT)	=	???.?	???.?	???.?
NOMINAL UNIT BEARING RESISTANCE (TSF)	=	??.?	??.?	??.?
BEARING RESISTANCE FACTOR	=	0.7	0.7	0.7
FACTORED BEARING RESISTANCE (TONS/SHAFT)	=	????.?	????.?	????.?
NOMINAL UNIT FRICTION RESISTANCE (TSF)	=	?.?	?.?	?.?
FRICTION RESISTANCE FACTOR	=	0.45	0.45	0.45
FACTORED FRICTION RESISTANCE (TONS/SHAFT)	=	???.?	???.?	???.?
DEPTH OF ROCK NEGLECTED FOR FRICTION (FT.)	=	?.?	?.?	?.?
MINIMUM DEPTH INTO ROCK (FT.)	=	??.?	??.?	??.?
TOTAL FACTORED RESISTANCE (TONS/SHAFT)	=	????.?	????.?	????.?

(1) ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN ON THE PLANS. IF THE FACTORED PILE CAPACITY IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE FACTORED PILE CAPACITY IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

SUMMARY OF QUANTITIES (BRIDGE "G")

DESCRIPTION	UNITS	ABUTS.	PIERS	SUPSTR.	APPR. SLABS	SLOPE WALLS	TOTAL
SUBSTRUCTURE EXCAVATION COMMON	CY	1.00					1.00
CLSM BACKFILL	CY	1.00					1.00
PRESTRESSED CONCRETE BEAMS (TYPE IV)	LF			1.00			1.00
APPROACH SLAB	SY				1.00		1.00
SAW-CUT GROOVING	SY			1.00	1.00		1.00
42" F-SHAPED PARAPET	LF			1.00	1.00		1.00
STRUCTURAL STEEL	LB			1.00			1.00
WEATHERING STEEL FIXED BEARING ASSEMBLY	EA			1.00			1.00
STAINLESS STEEL EXPANSION BEARING ASSEMBLY	EA			1.00			1.00
ELASTOMERIC BEARING PADS	EA			1.00			1.00
CLASS AA CONCRETE	CY			1.00			1.00
CLASS A CONCRETE	CY	1.00	1.00				1.00
SLOPE WALL (5")	SY					1.00	1.00
REINFORCING STEEL	LB		1.00				1.00
EPOXY COATED REINFORCING STEEL	LB	1.00	1.00	1.00			1.00
PILES, FURNISHED (HP10x42)	LF	1.00					1.00
PILES, DRIVEN (HP10x42)	LF	1.00					1.00
PILE SPLICE, H-PILE (NON-BIDDABLE)	EA	1.00					1.00
WATER REPELLENT (VISUALLY INSPECTED)	SY	1.00	1.00	1.00	1.00		1.00
DRILLED SHAFTS 72" DIAMETER	LF		1.00				1.00
CROSSHOLE SONIC LOGGING	EA		1.00				1.00
SEALER CRACK PREPARATION	LF			1.00			1.00
SEALER RESIN	GAL			1.00			1.00
6" PERFORATED PIPE UNDERDRAIN ROUND	LF	1.00				1.00	1.00
6" NON-PERF. PIPE UNDERDRAIN RND.	LF	1.00				1.00	1.00
CONCRETE LONGITUDINAL BARRIER, DESIGN 1	LF			1.00			1.00



FINISH GRADE DATA
℄ SURVEY US 81

NOTE: STATIONING FOLLOWS ℄ SURVEY US 81. FINISH GRADE IS ALONG FINISH GRADE LINE (FGL).

INDEX OF SHEETS (BRIDGE "G")

SHEET NO.	TITLE
??	SUMMARY OF PAY QUANTITIES (BRIDGES "F" AND "G")
??	GENERAL NOTES (BRIDGES "F" AND "G")
B011	GENERAL PLAN AND ELEVATION (BRIDGE "G")
B012	GENERAL PLAN AND ELEVATION (BRIDGE "G")
??	FOUNDATION REPORT
??	FOUNDATION REPORT
??	FOUNDATION REPORT
??	SUBSTRUCTURE STAKING DIAGRAM
??	ABUTMENT 1 DETAILS
??	ABUTMENT 1 DETAILS
??	ABUTMENT 2 DETAILS
??	ABUTMENT 2 DETAILS
??	WING DETAILS
??	MISCELLANEOUS ABUTMENT DETAILS
??	SUBSTRUCTURE EXCAVATION AND PIPE UNDERDRAIN ASSEMBLY DETAILS
??	PIER 1 DETAILS
??	PIER 1 DETAILS
??	PIER 2 DETAILS
??	PIER 2 DETAILS
??	PIER 3 DETAILS
??	PIER 3 DETAILS
??	MISCELLANEOUS PIER DETAILS
??	MISCELLANEOUS PIER DETAILS
??	TYPICAL CROSS SECTION
??	LONGITUDINAL SECTION
??	BEARING DETAILS
??	P.C. BEAM AND DIAPHRAGM LAYOUT PLAN
??	PIER AND INTERMEDIATE DIAPHRAGM DETAILS
??	END DIAPHRAGM DETAILS (ABUTMENT 1)
??	END DIAPHRAGM DETAILS (ABUTMENT 1)
??	END DIAPHRAGM DETAILS (ABUTMENT 2)
??	END DIAPHRAGM DETAILS (ABUTMENT 2)
??	MISCELLANEOUS END DIAPHRAGM DETAILS
??	BOTTOM SLAB REINFORCING PLAN
??	TOP SLAB REINFORCING PLAN AND SLAB POURING SEQUENCE
??	TYPE IV P.C. BEAM DETAILS (SPANS 1 AND 4)
??	TYPE IV P.C. BEAM DETAILS (SPANS 2 AND 3)
??	APPROACH SLAB DETAILS
??	APPROACH SLAB DETAILS
??	APPROACH SLAB DETAILS
??	SLOPE WALL DETAILS
??	SLOPE WALL DETAILS
??	DRAIN AT END BRIDGE DETAILS

THE FOLLOWING STANDARDS SHALL BE REQUIRED:

FSHP-42-2-00E	LECS-4-1
HP1-2-01E	PUD-3-2
	CLB-1-2

NB US-81 OVER I-44
GENERAL PLAN AND ELEVATION (BRIDGE "G")
(SHEET 2 OF 2)
CONST. (55'-99'-99'-55') PRESTRESSED CONCRETE BEAM SPANS; 38'-0" AND 42'-0" CLR. RDWYS. W/ CONC. PARAPETS (FSHP-42) SKEWED 2°39'35.10" RF AT ℄ STA. 196+53.59
State Job No. 24428(04) Sheet No. B012

US 81 REALIGNMENT
GRADY COUNTY

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PROPOSED
R/W
AUGUST 2017

SEC. 7 T6N R7W

℄ NORGE ROAD

℄ TRACK
SLWC RAILROAD

RAILROAD R/W

VARIES
~50'-0"

EXISTING ASPHALT ROAD

POINT OF MINIMUM VERTICAL CLEARANCE

39'-99/16"
MINIMUM HORIZONTAL CLEARANCE

50'-5½"
MINIMUM HORIZONTAL CLEARANCE

BEGIN APPROACH SLAB
STA. 248+64.10

BEGIN BRIDGE
AND DECK SLAB
STA. 249+03.72

℄ PIER NO. 1
STA. 250+00.00

℄ PIER NO. 2
STA. 251+00.00

℄ PIER NO. 3
STA. 252+00.00

END APPROACH SLAB
STA. 252+97.66

END BRIDGE
AND DECK SLAB
STA. 252+66.78

73°44' 33"

FGL
N 44°52'38.41" W

℄ SURVEY US-81
N 44°52'38.41" W

1:3 SLOPE

1:6 SLOPE

10'-0" DRIVING SHLDR.

12'-0" DRIVING LANE

12'-0" DRIVING LANE

4'-6" SHLDR.

TRAIL

1'-6" 42" F-SHAPED PARAPET

41'-0" CLEAR ROADWAY

38'-0" CLEAR ROADWAY

34'-0"

32'-0"

4'-0"

2% SLOPE

PLAN

B.M. #7: SET ¾" I.P. (30" LONG), STA. 245+09.56, 219.21' LEFT OF ℄ SURVEY US-81, ELEV. = 1215.3944

B.M. #8: CHIX. "X" SET (N. END OF CONC. HDWL.), STA. 172+17.70, 13.67' LEFT OF ℄ SURVEY NORGE ROAD, ELEV. = 1231.7588

B.M. #90: SET ¾" I.P. (30" LONG), STA. 188+24.32, 61.45' RIGHT OF ℄ SURVEY NORGE ROAD, ELEV. = 1223.4025

B.M. #9: SET ¾" I.P. (30" LONG), STA. 260+20.24, 215.00' RIGHT OF ℄ SURVEY US-81, ELEV. = 1238.8087

BEGIN BRIDGE AND DECK SLAB
AT ABUTMENT NO. 1
STA. 249+03.72
FINISH GRADE ELEV. = 1258.37

BRIDGE LENGTH = 363'-0¾"

END BRIDGE AND DECK SLAB
AT ABUTMENT NO. 2
STA. 252+66.78
FINISH GRADE ELEV. = 1257.30

96'-3⅜"
SPAN NO. 1

100'-0"
SPAN NO. 2

100'-0"
SPAN NO. 3

66'-9⅜"
SPAN NO. 4

FINISH GRADE
ALONG FGL

BEGIN APPROACH SLAB
STA. = 248+64.10
F.G. ELEV. = 1258.17

FULL STA. 248+88.39
ELEV. = 1256.80

TOP OF DECK SLAB

TOP OF FENCE

TOP OF 42" F-SHAPED PARAPET

END APPROACH SLAB
STA. = 252+97.66
F.G. ELEV. = 1256.97

FULL STA. 252+81.40
ELEV. = 1255.65

FIX. 5 - P.C. BEAMS (TYPE IV) EXP

EXP 5 - P.C. BEAMS (TYPE IV) FIX

FIX 5 - P.C. BEAMS (TYPE IV) EXP

EXP 5 - P.C. BEAMS (TYPE IV) FIX.

TOP OF BRIDGE SEAT
ELEV. = 1251.64

TOP OF BRIDGE SEAT
ELEV. = 1250.72

1:3.12 SLOPE

SLOPE WALL (5")
(TYPICAL)

BOTTOM OF PIER CAP
ELEV. = XX

23'-11"
MINIMUM VERTICAL CLEARANCE

21'-2"
MINIMUM VERTICAL CLEARANCE

ZERO STA. 249+92.02
ELEV. = 1223.64

ZERO STA. 252+05.44
ELEV. = 1231.34

℄ TRACK

EXISTING GROUND
ALONG FGL

TOP OF DRILLED SHAFT
ELEV. = XX

℄ ROAD

30'-0"

15'-0" 15'-0"

LIMITS OF FALSEWORK CLEARANCE

EMBANKMENT
(TYPICAL)

2 - HP 10X42
XX'-0" LONG
(1 EACH WING)

X - HP 12X53
XX'-0" LONG

X - HP 12X53
XX'-0" LONG
(BATTERED 12:2)

BOTTOM OF DRILLED SHAFT
ELEV. = X

21'-6"
TOP OF RAIL

RAILROAD FALSEWORK
CLEARANCE DIAGRAM

ELEVATION

CLEARANCE OF FALSEWORK IS REQUIRED BY RAILROAD FOR OPERATION DURING CONSTRUCTION. NO CONSTRUCTION ACTIVITIES OR OTHER OBSTRUCTIONS SHALL BE PLACED WITHIN THE LIMITS SHOWN. HORIZONTAL DIMENSIONS SHOWN ARE MEASURED AT RIGHT ANGLES TO CENTERLINE TRACK, AND VERTICAL DIMENSION SHOWN IS MEASURED PERPENDICULAR TO PLANE OF THE TOP OF THE RAILS.

NOTES

SEE SHEET NO. B020 FOR RAILROAD FALSEWORK CLEARANCE DIAGRAM

SB US-81 OVER SLWC RAILROAD AND NORGE ROAD

GENERAL PLAN AND ELEVATION (BRIDGE "H")

(SHEET NO. 1 OF 2)

FOUR SPAN (86'-100'-100'-66') P.C. BEAM BRIDGE WITH 16°15' 27" SKEW RIGHT FORWARD, 38'-0" CLEAR ROADWAY AND 42" F-SHAPED PARAPETS AT ℄ SURVEY STA. 250+85.25

State Job No. 24428(04) Sheet No. B013

YOUNTY IIS R1 REALIGNMENT

PROPOSED
R/W
AUGUST 2017

SUMMARY OF QUANTITIES - BRIDGE 'H'

ITEM	UNIT	ABUTMENTS	PIERS	SUPERSTRUCTURE	APPROACH SLABS	SLOPE WALL	TOTAL
SUBSTRUCTURE EXCAVATION COMMON	CY	0.00	-	-	-	-	0.00
CLSM BACKFILL	CY	0.00	-	-	-	-	0.00
APPROACH SLAB	SY	-	-	-	0.00	-	0.00
SAW-CUT GROOVING	SY	-	-	0.00	0.00	-	0.00
SEALED EXPANSION JOINT	LF	-	-	0.00	-	-	0.00
42" F-SHAPED PARAPET	LF	-	-	0.00	0.00	-	0.00
STRUCTURAL STEEL	LB	-	-	0.00	-	-	0.00
STAINLESS STEEL FIXED BEARING ASSEMBLY	EA	-	-	0.00	-	-	0.00
STAINLESS STEEL EXPANSION BEARING ASSEMBLY	EA	-	-	0.00	-	-	0.00
CLASS AA CONCRETE	CY	-	-	0.00	-	-	0.00
CLASS A CONCRETE	CY	0.00	0.00	-	-	-	0.00
SLOPE WALL (5")	SY	-	-	-	-	0.00	0.00
MECHANICAL SPLICES	EA	0.00	0.00	0.00	0.00	-	0.00
REINFORCING STEEL	LB	-	0.00	-	-	-	0.00
EPOXY COATED REINFORCING STEEL	LB	0.00	0.00	0.00	-	-	0.00
PILES, FURNISHED (HP 10X42)	LF	0.00	-	-	-	-	0.00
PILES, FURNISHED (HP 12X53)	LF	0.00	-	-	-	-	0.00
PILES, DRIVEN (HP 10X42)	LF	0.00	-	-	-	-	0.00
PILES, DRIVEN (HP 12X53)	LF	0.00	-	-	-	-	0.00
WATER REPELLENT (VISUALLY INSPECTED)	SY	0.00	0.00	0.00	0.00	-	0.00
DRILLED SHAFT 84" DIAMETER	LF	-	0.00	-	-	-	0.00
SEALER CRACK PREPARATION	LF	-	-	0.00	-	-	0.00
SEALER RESIN	GAL	-	-	0.00	-	-	0.00
6" PERFORATED PIPE UNDERDRAIN ROUND	LF	0.00	-	-	-	0.00	0.00
6" NON-PERFORATED PIPE UNDERDRAIN ROUND	LF	0.00	-	-	-	-	0.00

STRUCTURAL AND FOUNDATION DESIGN DATA

MATERIAL:
CLASS A CONCRETE, f'c = 3 KSI
CLASS AA CONCRETE, f'c = 4 KSI
REINFORCING STEEL, fy = 60 KSI
STRUCTURAL STEEL M270 (GRADE 50W), Fy = 50 KSI
STAINLESS STEEL A240 (TYPE 316), Fy = 30 KSI

LOADING:
HL-93 OR OKLAHOMA OVERLOAD TRUCK
20 PSF FUTURE WEARING SURFACE
5 PSF STAY-IN-PLACE FORMS

DESIGN:
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS,
7TH EDITION WITH 2015 INTERIMS
ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE
ANSI/AWS D1.6 STRUCTURAL WELDING CODE - STAINLESS STEEL

HL-93 INVENTORY RATING FACTOR: 1.00
HL-93 OPERATING RATING FACTOR: 1.30

ABUTMENTS (HP 12X53 PILING)

ABUTMENTS NO.	1	2
MAXIMUM FACTORED PILE LOAD (TONS/PILE) =	XX	XX

ALL ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN IN THE PLANS. IF THE MAXIMUM FACTORED PILE LOAD IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE MAXIMUM FACTORED PILE LOAD IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN IN THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

PIERS

PIER NO.		1	2
DRILLED SHAFTS DIAMETER (INCHES)	=	XX	XX
FACTORED REACTION (TONS/SHAFT)	=	XXX	XXX
NOMINAL UNIT BEARING RESISTANCE (TSF)	=	XX.X	XX.X
BEARING RESISTANCE FACTOR	=	0.70	0.70
FACTORED BEARING RESISTANCE (TONS/SHAFT)	=	XXX	XXX
NOMINAL UNIT FRICTION RESISTANCE (TSF)	=	X.X	X.X
FRICTION RESISTANCE FACTOR	=	0.45	0.45
FACTORED FRICTION RESISTANCE (TONS/SHAFT)	=	XXX	XXX
DEPTH OF ROCK NEGLECTED FOR FRICTION (FEET)	=	X	X
TOTAL FACTORED RESISTANCE (TONS/SHAFT)	=	XXX	XXX

INDEX OF SHEETS

SHEET NO.	SHEET DESCRIPTION
B013, B014	GENERAL PLAN AND ELEVATION (BRIDGE "H")

REQUIRED STANDARD DRAWINGS

ROADWAY	BRIDGE
LECS-4-1	FSHP-42-2-00E
LTU-4-0	EJ-SK-04E
PED-3-2	EJ-DTL-02E
PUD-3-2	HP1-2-01E

UTILITIES

TELEPHONE:
CHICKASAW TELEPHONE CO. - (580) 618-5455
SOUTHWESTERN BELL - (800) 522-6543
AT&T - (800) 778-9140
DOBSON TECHNOLOGIES - (800) 778-9140
INTELLEQ COMMUNICATIONS - (800) 335-4343
MEDICINE PARK TELEPHONE CO. - (580) 529-2700

ELECTRIC:
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OKLAHOMA ELECTRIC COOPERATIVE - (405) 321-2024

WATER AND SANITARY SEWER:
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RURAL WATER DISTRICT #7 - (405) 779-6224

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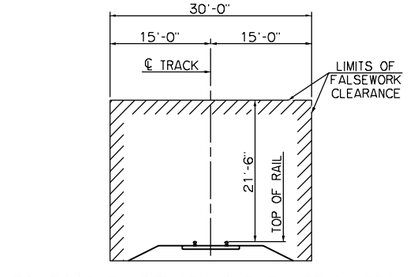
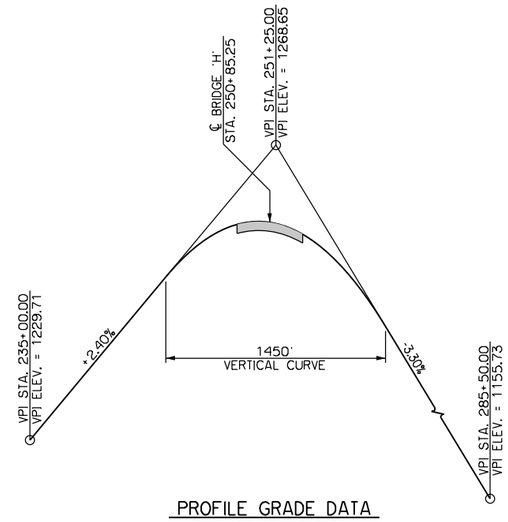
DCP MIDSTREAM - (800) 435-1679
UNIT PETROLEUM - (918) 493-7700
SUNOCO LOGISTICS - (800) 753-5531
KEPCO OPERATING INC. - (855) 421-2088



RAILROAD FALSEWORK CLEARANCE DIAGRAM

CLEARANCE OF FALSEWORK IS REQUIRED BY RAILROAD FOR OPERATION DURING CONSTRUCTION. NO CONSTRUCTION ACTIVITIES OR OTHER OBSTRUCTIONS SHALL BE PLACED WITHIN THE LIMITS SHOWN. HORIZONTAL DIMENSIONS SHOWN ARE MEASURED AT RIGHT ANGLES TO CENTERLINE TRACK, AND VERTICAL DIMENSION SHOWN IS MEASURED PERPENDICULAR TO PLANE OF THE TOP OF THE RAILS.



PROFILE GRADE DATA

FINISH GRADE ALONG FGL

SB US-81 OVER SLWC RAILROAD AND NORGE ROAD

GENERAL PLAN AND ELEVATION (BRIDGE "H")

(SHEET NO. 2 OF 2)

FOUR SPAN (86'-100'-100'-66') P.C. BEAM BRIDGE WITH
16°15' 27" SKEW RIGHT FORWARD, 38'-0" CLEAR ROADWAY
AND 42" F-SHAPED PARAPETS AT ℄ SURVEY STA. 250+85.25

State Job No. 24428(04) Sheet No. B014

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED R/W
AUGUST 2017

SEC. 7 T6N R7W

℄ SURVEY US-81
N 44°52'38.41" W

FGL
N 44°52'38.41" W

249+00 | 250+00 | 251+00 | 252+00 | 253+00

1:6 SLOPE | 4'-0" SHLDR. | 12'-0" DRIVING LANE | 12'-0" DRIVING LANE | 10'-0" SHLDR. | 1:3 SLOPE

BEGIN BRIDGE AND DECK SLAB
STA. 249+22.47

BEGIN APPROACH SLAB
STA. 248+91.59

73°44' 33"

℄ PIER NO. 1
STA. 250+18.75

℄ PIER NO. 2
STA. 251+18.75

℄ PIER NO. 3
STA. 252+18.75

END BRIDGE AND DECK SLAB
STA. 252+85.53

END APPROACH SLAB
STA. 253+25.15

VARIES ~50'-0"

RAILROAD R/W

50'-0 15/16" MINIMUM HORIZONTAL CLEARANCE

39'-3 1/8" MINIMUM HORIZONTAL CLEARANCE

POINT OF MINIMUM VERTICAL CLEARANCE

℄ TRACK
SLWC RAILROAD

℄ NORGE ROAD

EXISTING ASPHALT ROAD

42" F SHAPED PARAPET

32'-0" | 41'-0" CLEAR ROADWAY | 38'-0" | 34'-0" | 4'-0"

2% SLOPE

1:3 SLOPE

TOP OF FENCE

B.M. #7: SET ¾" I.P. (30" LONG), STA. 245+09.56, 219.21' LEFT OF ℄ SURVEY US-81, ELEV. = 1215.3944

B.M. #8: CHIX. "X" SET (N. END OF CONC. HDWL.), STA. 172+17.70, 13.67' LEFT OF ℄ SURVEY NORGE ROAD, ELEV. = 1231.7588

B.M. #90: SET ¾" I.P. (30" LONG), STA. 188+24.32, 61.45 RIGHT OF ℄ SURVEY NORGE ROAD, ELEV. = 1223.4025

B.M. #9: SET ¾" I.P. (30" LONG), STA. 260+20.24, 215.00' RIGHT OF ℄ SURVEY US-81, ELEV. = 1238.8087

PLAN

BEGIN BRIDGE AND DECK SLAB AT ABUTMENT NO. 1
STA. 249+22.47
FINISH GRADE ELEV. = 1258.44

BRIDGE LENGTH = 363'-0¾"

END BRIDGE AND DECK SLAB AT ABUTMENT NO. 2
STA. 252+85.53
FINISH GRADE ELEV. = 1257.10

96'-3⅜" SPAN NO. 1 | 100'-0" SPAN NO. 2 | 100'-0" SPAN NO. 3 | 66'-9⅜" SPAN NO. 4

10'-0" | ℄ PIER NO. 1 STA. 250+18.75 | ℄ PIER NO. 2 STA. 251+18.75 | 10'-0" | ℄ PIER NO. 3 STA. 252+18.75

FINISH GRADE ALONG FGL | BEGIN APPROACH SLAB STA. = 248+91.59 F.G. ELEV. = 1258.31

TOP OF DECK SLAB | TOP OF 42" F-SHAPED PARAPET

END APPROACH SLAB
STA. = 253+25.15
F.G. ELEV. = 1256.64

FIX. | 5 - P.C. BEAMS (TYPE IV) | EXP | EXP | 5 - P.C. BEAMS (TYPE IV) | FIX | FIX | 5 - P.C. BEAMS (TYPE IV) | EXP | EXP | 5 - P.C. BEAMS (TYPE IV) | FIX.

FULL STA. 249+07.32
ELEV. = 1256.88

TOP OF BRIDGE SEAT
ELEV. = 1251.78

1:3.12 SLOPE

SLOPE WALL (5") (TYPICAL)

EMBANKMENT (TYPICAL)

ZERO STA. 250+13.46
ELEV. = 1222.91

2 - HP 10X42
XX'-0" LONG
(1 EACH WING)

X - HP 12X53
XX'-0" LONG

X - HP 12X53
XX'-0" LONG
(BATTERED 12:2)

2 : 12

BOTTOM OF PIER CAP
ELEV. = XX

BOTTOM OF DRILLED SHAFT
ELEV. = x

TOP OF DRILLED SHAFT
ELEV. = XX

24'-10½" MINIMUM VERTICAL CLEARANCE

℄ TRACK

EXISTING GROUND ALONG FGL

21'-3" MINIMUM VERTICAL CLEARANCE

℄ ROAD

BOTTOM OF PIER CAP
ELEV. = XX

ZERO STA. 252+24.72
ELEV. = 1231.12

TOP OF DRILLED SHAFT
ELEV. = XX

BOTTOM OF DRILLED SHAFT
ELEV. = x

TOP OF BRIDGE SEAT
ELEV. = 1250.33

1:3.12 SLOPE

FULL STA. 253+00.69
ELEV. = 1255.43

2 : 12

X - HP 12X53
XX'-0" LONG

X - HP 12X53
XX'-0" LONG
(BATTERED 12:2)

2 - HP 10X42
XX'-0" LONG
(1 EACH WING)

CLEARANCE OF FALSEWORK IS REQUIRED BY RAILROAD FOR OPERATION DURING CONSTRUCTION. NO CONSTRUCTION ACTIVITIES OR OTHER OBSTRUCTIONS SHALL BE PLACED WITHIN THE LIMITS SHOWN. HORIZONTAL DIMENSIONS SHOWN ARE MEASURED AT RIGHT ANGLES TO CENTERLINE TRACK, AND VERTICAL DIMENSION SHOWN IS MEASURED PERPENDICULAR TO PLANE OF THE TOP OF THE RAILS.

30'-0"
15'-0" | 15'-0"
℄ TRACK | LIMITS OF FALSEWORK CLEARANCE
21'-6" TOP OF RAIL

RAILROAD FALSEWORK CLEARANCE DIAGRAM

ELEVATION

NOTES

SEE SHEET NO. B022 FOR RAILROAD FALSEWORK CLEARANCE DIAGRAM

NB US-81 OVER SLWC RAILROAD AND NORGE ROAD

GENERAL PLAN AND ELEVATION (BRIDGE "I")

(SHEET NO. 1 OF 2)

FOUR SPAN (86'-100'-100'-66') P.C. BEAM BRIDGE WITH 16°15' 27" SKEW RIGHT FORWARD, 38'-0" CLEAR ROADWAY AND 42" F-SHAPED PARAPETS AT CRL STA. 251+04.00

State Job No. 24428(04) Sheet No. B015

US 81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SUMMARY OF QUANTITIES - BRIDGE "I"

ITEM	UNIT	ABUTMENTS	PIERS	SUPERSTRUCTURE	APPROACH SLABS	SLOPE WALL	TOTAL
SUBSTRUCTURE EXCAVATION COMMON	CY	0.00	-	-	-	-	0.00
CLSM BACKFILL	CY	0.00	-	-	-	-	0.00
APPROACH SLAB	SY	-	-	-	0.00	-	0.00
SAW-CUT GROOVING	SY	-	-	0.00	0.00	-	0.00
SEALED EXPANSION JOINT	LF	-	-	0.00	-	-	0.00
42" F-SHAPED PARAPET	LF	-	-	0.00	0.00	-	0.00
STRUCTURAL STEEL	LB	-	-	0.00	-	-	0.00
STAINLESS STEEL FIXED BEARING ASSEMBLY	EA	-	-	0.00	-	-	0.00
STAINLESS STEEL EXPANSION BEARING ASSEMBLY	EA	-	-	0.00	-	-	0.00
CLASS AA CONCRETE	CY	-	-	0.00	-	-	0.00
CLASS A CONCRETE	CY	0.00	0.00	-	-	-	0.00
SLOPE WALL (5")	SY	-	-	-	-	0.00	0.00
MECHANICAL SPLICES	EA	0.00	0.00	0.00	0.00	-	0.00
REINFORCING STEEL	LB	-	0.00	-	-	-	0.00
EPOXY COATED REINFORCING STEEL	LB	0.00	0.00	0.00	-	-	0.00
PILES, FURNISHED (HP 10X42)	LF	0.00	-	-	-	-	0.00
PILES, FURNISHED (HP 12X53)	LF	0.00	-	-	-	-	0.00
PILES, DRIVEN (HP 10X42)	LF	0.00	-	-	-	-	0.00
PILES, DRIVEN (HP 12X53)	LF	0.00	-	-	-	-	0.00
WATER REPELLENT (VISUALLY INSPECTED)	SY	0.00	0.00	0.00	0.00	-	0.00
DRILLED SHAFT 84" DIAMETER	LF	-	0.00	-	-	-	0.00
SEALER CRACK PREPARATION	LF	-	-	0.00	-	-	0.00
SEALER RESIN	GAL	-	-	0.00	-	-	0.00
6" PERFORATED PIPE UNDERDRAIN ROUND	LF	0.00	-	-	-	0.00	0.00
6" NON-PERFORATED PIPE UNDERDRAIN ROUND	LF	0.00	-	-	-	-	0.00

STRUCTURAL AND FOUNDATION DESIGN DATA

MATERIAL:
CLASS A CONCRETE, f'c = 3 KSI
CLASS AA CONCRETE, f'c = 4 KSI
REINFORCING STEEL, fy = 60 KSI
STRUCTURAL STEEL M270 (GRADE 50W), Fy = 50 KSI
STAINLESS STEEL A240 (TYPE 316), Fy = 30 KSI

LOADING:
HL-93 OR OKLAHOMA OVERLOAD TRUCK
20 PSF FUTURE WEARING SURFACE
5 PSF STAY-IN-PLACE FORMS

DESIGN:
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS,
7TH EDITION WITH 2015 INTERIMS
ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE
ANSI/AWS D1.6 STRUCTURAL WELDING CODE - STAINLESS STEEL

HL-93 INVENTORY RATING FACTOR: 1.00
HL-93 OPERATING RATING FACTOR: 1.30

ABUTMENTS (HP 12X53 PILING)

ABUTMENTS NO.	1	2
MAXIMUM FACTORED PILE LOAD (TONS/PILE) =	XX	XX

ALL ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN IN THE PLANS. IF THE MAXIMUM FACTORED PILE LOAD IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE MAXIMUM FACTORED PILE LOAD IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN IN THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

PIERS

PIER NO.		1	2	3
DRILLED SHAFTS DIAMETER (INCHES)	=	XX	XX	XX
FACTORED REACTION (TONS/SHAFT)	=	XXX	XXX	XXX
NOMINAL UNIT BEARING RESISTANCE (TSF)	=	XX.X	XX.X	XX.X
BEARING RESISTANCE FACTOR	=	0.70	0.70	0.70
FACTORED BEARING RESISTANCE (TONS/SHAFT)	=	XXX	XXX	XXX
NOMINAL UNIT FRICTION RESISTANCE (TSF)	=	X.X	X.X	X.X
FRICTION RESISTANCE FACTOR	=	0.45	0.45	0.45
FACTORED FRICTION RESISTANCE (TONS/SHAFT)	=	XXX	XXX	XXX
DEPTH OF ROCK NEGLECTED FOR FRICTION (FEET)	=	X	X	X
TOTAL FACTORED RESISTANCE (TONS/SHAFT)	=	XXX	XXX	XXX

INDEX OF SHEETS

SHEET NO.	SHEET DESCRIPTION
B015, B016	GENERAL PLAN AND ELEVATION (BRIDGE "I")

REQUIRED STANDARD DRAWINGS

ROADWAY	BRIDGE
LECS-4-1	FSHP-42-2-00E
LTU-4-0	EJ-SK-04E
PED-3-2	EJ-DTL-02E
PUD-3-2	HP1-2-01E

UTILITIES

TELEPHONE:
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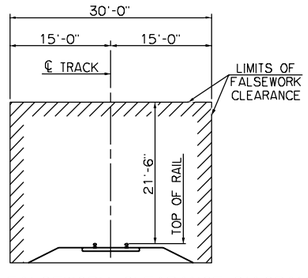
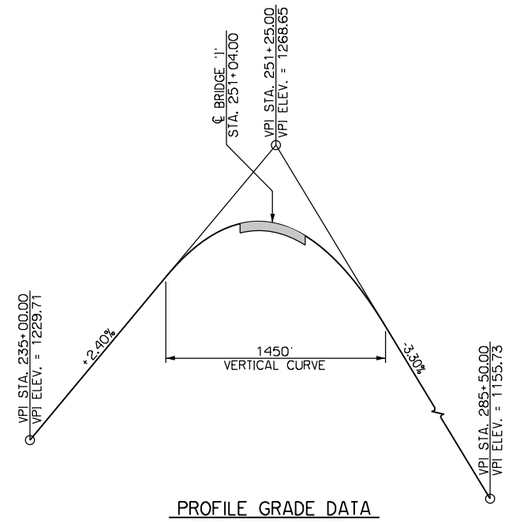


RAILROAD FALSEWORK CLEARANCE DIAGRAM

CLEARANCE OF FALSEWORK IS REQUIRED BY RAILROAD FOR OPERATION DURING CONSTRUCTION. NO CONSTRUCTION ACTIVITIES OR OTHER OBSTRUCTIONS SHALL BE PLACED WITHIN THE LIMITS SHOWN. HORIZONTAL DIMENSIONS SHOWN ARE MEASURED AT RIGHT ANGLES TO CENTERLINE TRACK, AND VERTICAL DIMENSION SHOWN IS MEASURED PERPENDICULAR TO PLANE OF THE TOP OF THE RAILS.



PROFILE GRADE DATA

FINISH GRADE ALONG FGL

NB US-81 OVER SLWC RAILROAD AND NORGE ROAD

GENERAL PLAN AND ELEVATION (BRIDGE "I")

(SHEET NO. 2 OF 2)

FOUR SPAN (86'-100'-100'-66') P.C. BEAM BRIDGE WITH 16°15' 27" SKEW RIGHT FORWARD, 38'-0" CLEAR ROADWAY AND 42" F-SHAPED PARAPETS AT CRL STA. 251+04.00

State Job No. 24428(04) Sheet No. B016

US 81 REALIGNMENT
GRADY COUNTY

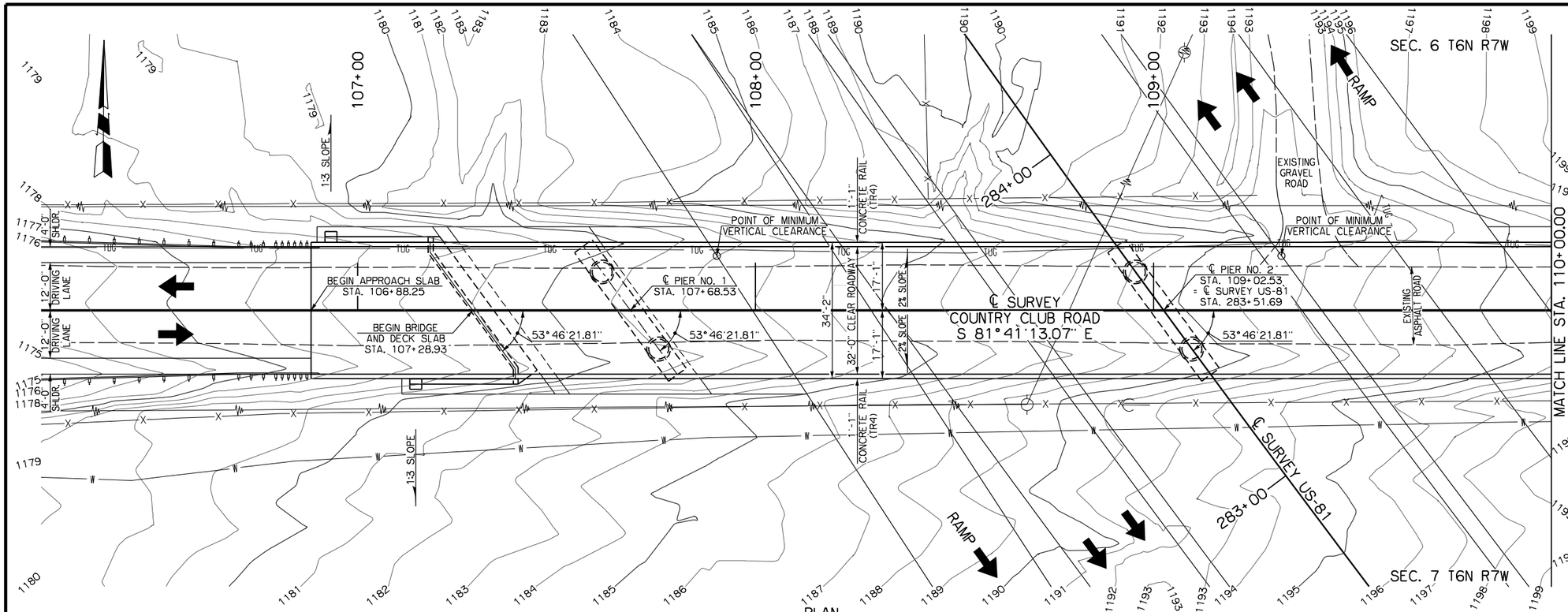
PROPOSED
R/W
AUGUST 2017

INDEX OF SHEETS

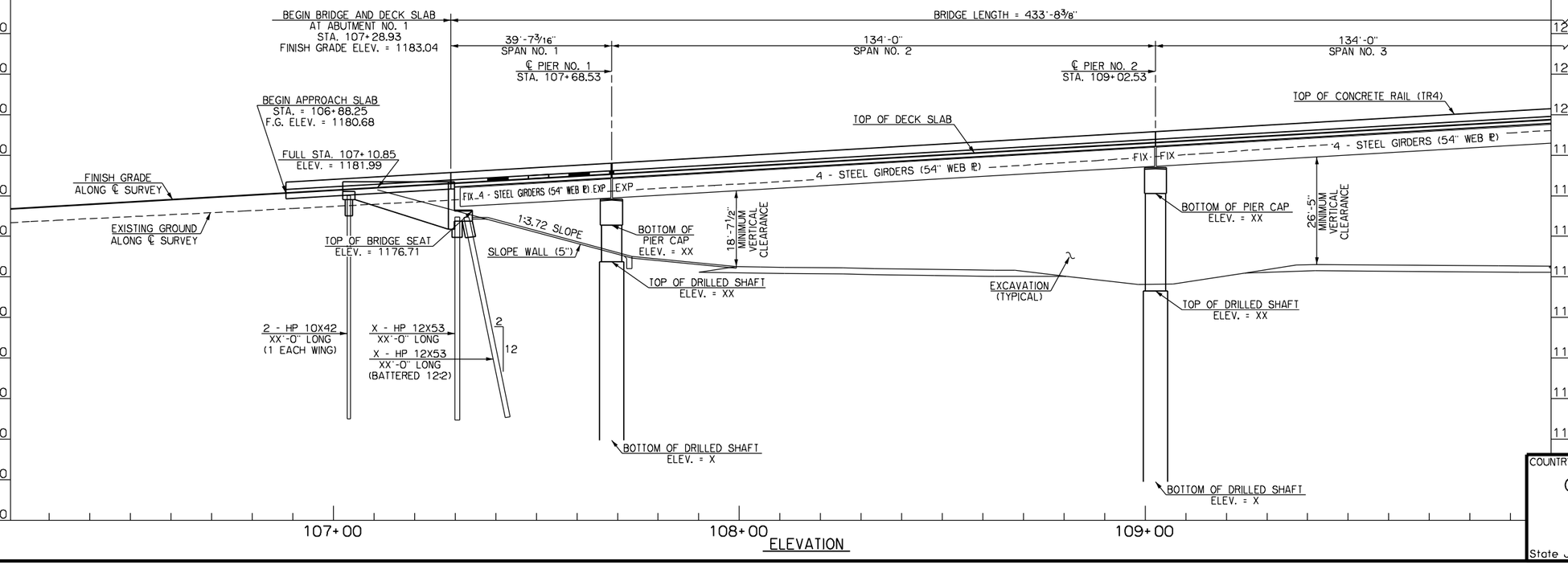
SHEET NO.	SHEET DESCRIPTION
BO17, BO18	GENERAL PLAN AND ELEVATION (BRIDGE "J")

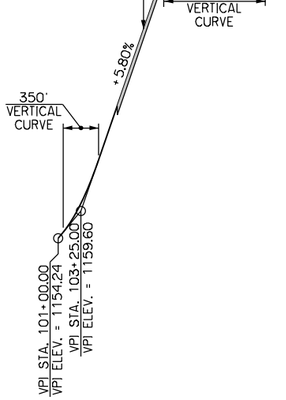
REQUIRED STANDARD DRAWINGS

ROADWAY	BRIDGE
LECS-4-1	TR4-2-00E
LTU-4-0	EJ-SK-04E
PED-3-2	EJ-DTL-01E
PUD-3-2	HP1-2-01E



B.M. #16: SET ¾" I.P. (30" LONG), STA. 105+78.86, 134.75' LEFT OF ℄ SURVEY COUNTRY CLUB ROAD, ELEV. = 1176.3595





PROFILE GRADE DATA

FINISH GRADE ALONG ℄ SURVEY

COUNTRY CLUB ROAD OVER US-81

GENERAL PLAN AND ELEVATION (BRIDGE "J")

(SHEET NO. 1 OF 2)

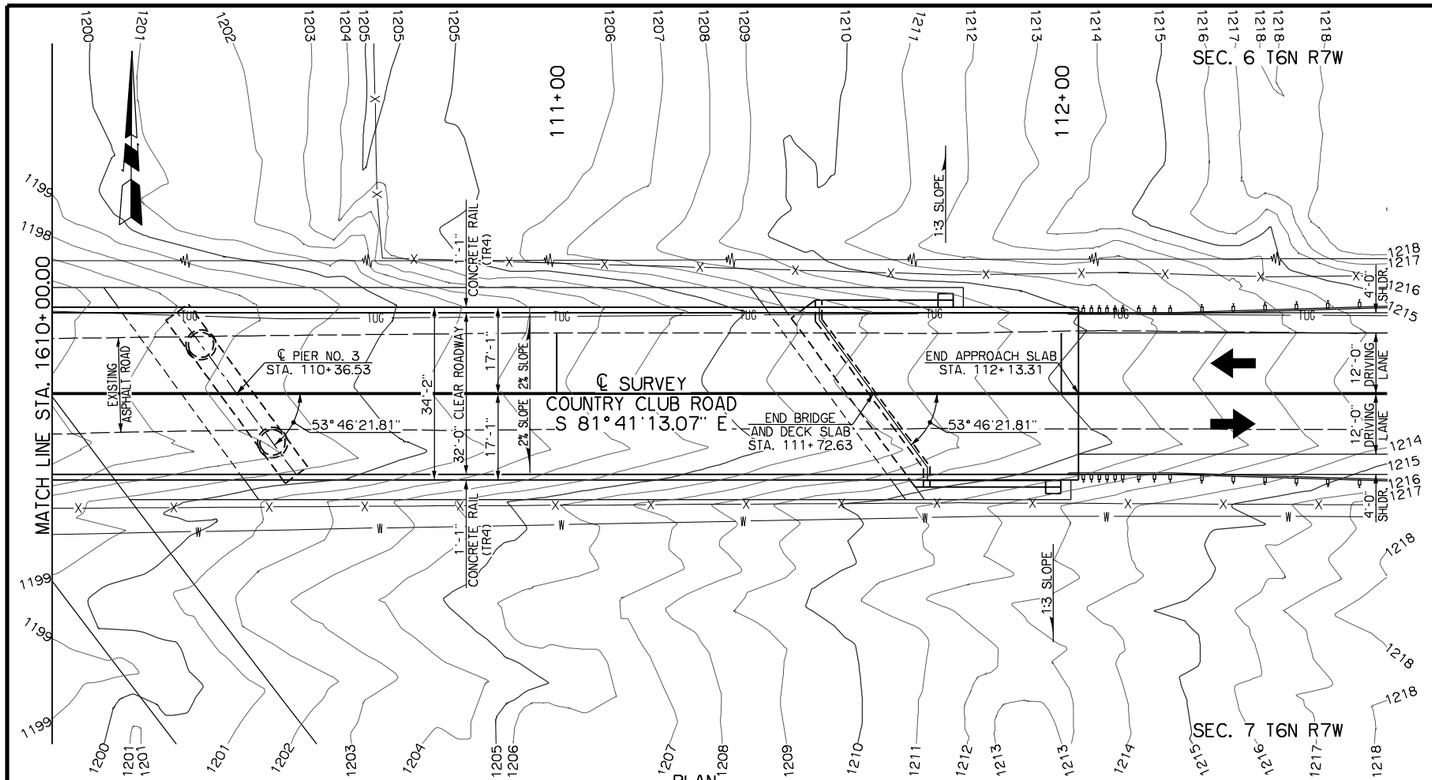
FOUR SPAN (40'-134'-134'-126') STEEL I-GIRDER BRIDGE WITH 36°13'38" SKEW RIGHT FORWARD, 32'-0" CLEAR ROADWAY AND CONCRETE RAIL (TR4) AT ℄ SURVEY STA. 109+45.78

State Job No. 24428(04) Sheet No. BO17

US 81 REALIGNMENT

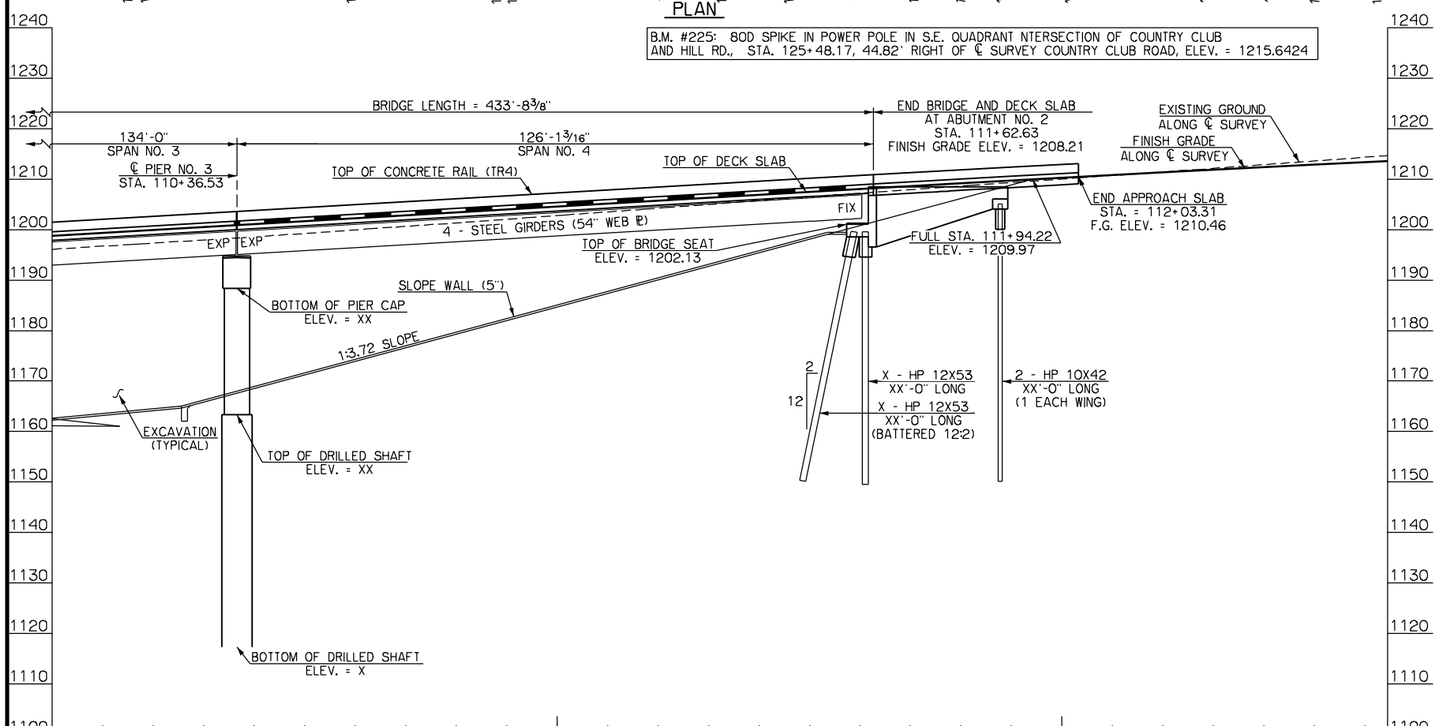
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017



PLAN

B.M. #225: 8OD SPIKE IN POWER POLE IN S.E. QUADRANT NTERSECTION OF COUNTRY CLUB AND HILL RD., STA. 125+48.17, 44.82' RIGHT OF ℄ SURVEY COUNTRY CLUB ROAD, ELEV. = 1215.6424



ELEVATION

SUMMARY OF QUANTITIES - BRIDGE 'J'

ITEM	UNIT	ABUTMENTS	PIERS	SUPER-STRUCTURE	APPROACH SLABS	SLOPE WALL	TOTAL
SUBSTRUCTURE EXCAVATION COMMON	CY	0.00	-	-	-	-	0.00
CLSM BACKFILL	CY	0.00	-	-	-	-	0.00
APPROACH SLAB	SY	-	-	-	0.00	-	0.00
SAW-CUT GROOVING	SY	-	-	0.00	0.00	-	0.00
SEALED EXPANSION JOINT	LF	-	-	0.00	-	-	0.00
CONCRETE RAIL (TR4)	LF	-	-	0.00	0.00	-	0.00
STRUCTURAL STEEL	LB	-	-	0.00	-	-	0.00
STAINLESS STEEL FIXED BEARING ASSEMBLY	EA	-	-	0.00	-	-	0.00
STAINLESS STEEL EXPANSION BEARING ASSEMBLY	EA	-	-	0.00	-	-	0.00
CLASS AA CONCRETE	CY	-	-	0.00	-	-	0.00
CLASS A CONCRETE	CY	0.00	0.00	-	-	-	0.00
SLOPE WALL (5")	SY	-	-	-	-	0.00	0.00
REINFORCING STEEL	LB	-	0.00	-	-	-	0.00
EPOXY COATED REINFORCING STEEL	LB	0.00	0.00	0.00	-	-	0.00
PILES, FURNISHED (HP 10X42)	LF	0.00	-	-	-	-	0.00
PILES, FURNISHED (HP 12X53)	LF	0.00	-	-	-	-	0.00
PILES, DRIVEN (HP 10X42)	LF	0.00	-	-	-	-	0.00
PILES, DRIVEN (HP 12X53)	LF	0.00	-	-	-	-	0.00
WATER REPELLENT (VISUALLY INSPECTED)	SY	0.00	0.00	0.00	0.00	-	0.00
DRILLED SHAFT 72" DIAMETER	LF	-	0.00	-	-	-	0.00
SEALER CRACK PREPARATION	LF	-	-	0.00	-	-	0.00
SEALER RESIN	GAL	-	-	0.00	-	-	0.00
6" PERFORATED PIPE UNDERDRAIN ROUND	LF	0.00	-	-	-	0.00	0.00
6" NON-PERFORATED PIPE UNDERDRAIN ROUND	LF	0.00	-	-	-	-	0.00

STRUCTURAL AND FOUNDATION DESIGN DATA

MATERIAL:
CLASS A CONCRETE, f'c = 3 KSI
CLASS AA CONCRETE, f'c = 4 KSI
REINFORCING STEEL, fy = 60 KSI
STRUCTURAL STEEL M270 (GRADE 50W), Fy = 50 KSI
STAINLESS STEEL A240 (TYPE 316), Fy = 30 KSI

LOADING:
HL-93 OR OKLAHOMA OVERLOAD TRUCK
20 PSF FUTURE WEARING SURFACE
5 PSF STAY-IN-PLACE FORMS

DESIGN:
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS,
7TH EDITION WITH 2015 INTERIMS
ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE
ANSI/AWS D1.6 STRUCTURAL WELDING CODE - STAINLESS STEEL

HL-93 INVENTORY RATING FACTOR: 1.00
HL-93 OPERATING RATING FACTOR: 1.30

ABUTMENTS (HP 12X53 PILING)

ABUTMENTS NO. 1 2

MAXIMUM FACTORED PILE LOAD (TONS/PILE) = XX XX

ALL ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN IN THE PLANS. IF THE MAXIMUM FACTORED PILE LOAD IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE MAXIMUM FACTORED PILE LOAD IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN IN THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

PIERS

PIER NO.		1	2	3
DRILLED SHAFTS DIAMETER (INCHES)	=	XX	XX	XX
FACTORED REACTION (TONS/SHAFT)	=	XXX	XXX	XXX
NOMINAL UNIT BEARING RESISTANCE (TSF)	=	XX.X	XX.X	XX.X
BEARING RESISTANCE FACTOR	=	0.70	0.70	0.70
FACTORED BEARING RESISTANCE (TONS/SHAFT)	=	XXX	XXX	XXX
NOMINAL UNIT FRICTION RESISTANCE (TSF)	=	X.X	X.X	X.X
FRICTION RESISTANCE FACTOR	=	0.45	0.45	0.45
FACTORED FRICTION RESISTANCE (TONS/SHAFT)	=	XXX	XXX	XXX
DEPTH OF ROCK NEGLECTED FOR FRICTION (FEET)	=	X	X	X
TOTAL FACTORED RESISTANCE (TONS/SHAFT)	=	XXX	XXX	XXX

UTILITIES

TELEPHONE:
CHICKASAW TELEPHONE CO. - (580) 618-5455
SOUTHWESTERN BELL - (800) 522-6543
AT&T - (800) 778-9140
DOBSON TECHNOLOGIES - (800) 778-9140
INTELLEQ COMMUNICATIONS - (800) 335-4343
MEDICINE PARK TELEPHONE CO. - (580) 529-2700

ELECTRIC:
AEP PUBLIC SERVICE CO. OF OKLAHOMA - (888) 216-3523
OKLAHOMA ELECTRIC COOPERATIVE - (405) 321-2024

WATER AND SANITARY SEWER:
CITY OF CHICKASHA PUBLIC WORKS - (405) 222-6080
RURAL WATER DISTRICT #6 - (405) 459-6626
RURAL WATER DISTRICT #7 - (405) 779-6224

GAS AND PETROLEUM PIPELINES:
ENABLE MIDSTREAM - (800) 522-8048
CONTINUUM ENERGY - (877) 587-0026
DCP MIDSTREAM - (800) 435-1679
UNIT PETROLEUM - (918) 493-7700
SUNOCO LOGISTICS - (800) 753-5531
KEPCO OPERATING INC. - (855) 421-2088

COUNTRY CLUB ROAD OVER US-81

GENERAL PLAN AND ELEVATION (BRIDGE "J")

(SHEET NO. 2 OF 2)

FOUR SPAN (40'-134'-134'-126') STEEL I-GIRDER BRIDGE WITH 36°13'38" SKEW RIGHT FORWARD, 32'-0" CLEAR ROADWAY AND CONCRETE RAIL (TR4) AT ℄ SURVEY STA. 109+45.78

State Job No. 24428(04) Sheet No. B018

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 1 T6N R8W

SEC. 6 T6N R7W

309+00

℄ SURVEY US-81

END BRIDGE
STA. 308+43.00

RCB APRON
(TYPICAL)

1'-0" CURTAIN WALL

1'-0" HEADWALL

℄ LINE CREEK

STA. 307+84.26
108.22' LT.

℄ BRIDGE
S 63°04'11.37" W

℄ BRIDGE
STA. 308+12.70

75°
(1)

308+00

STA. 308+40.62
102.29' RT.

BEGIN BRIDGE
STA. 307+82.44

RAMP

PLAN

B.M. #1: 100D NAIL SET IN E. FACE 8" WOOD BRACE POST, N. SIDE OF I-44, STA. 197+99.60, 286.18' LEFT OF ℄ SURVEY US-81, ELEV. = 1249.8746

B.M. #2: 100D NAIL SET IN E. FACE OF 12" ELM TREE, STA. 206+56.29, 312.42' LEFT OF ℄ SURVEY US-81, ELEV. = 1230.5022

℄ SURVEY US-81

220'-0"

113'-0"

107'-0"

1'-0 7/16" HEADWALL
(1'-0" NORMAL TO HEADWALL)

ROADWAY GRADING AND SURFACING ALONG ℄ BRIDGE

EXISTING GROUND ALONG ℄ BRIDGE

LOW CHORD
ELEV. = 1142.04

RCB WING
(TYPICAL)

℄ ELEV. = 1127.85

℄ ELEV. = 1127.70

0.30%

RCB BARREL

℄ ELEV. = 1127.04

℄ ELEV. = 1126.89

8'-0"

CURTAIN WALL

PROFILE ALONG ℄ BRIDGE

NOTES

(1) ANGLE MEASURED BETWEEN ℄ BRIDGE AND TANGENT TO ℄ SURVEY US-81 AT ℄ BRIDGE

US-81 OVER LINE CREEK

GENERAL PLAN AND ELEVATION (BRIDGE "K")

(SHEET NO. 1 OF 2)

3 - 18' X 15' X 220' LONG RCB WITH 15° SKEW RIGHT FORWARD, WINGS, APRONS AND 8' DEEP CURTAIN WALLS AT ℄ SURVEY STA. 308+12.70

State Job No. 24428(04) Sheet No. B019

US 81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

HYDRAULIC DATA

DRAINAGE AREA	= 7.08 SQ. MI.
CONTROLLED AREA	= 0.00 SQ. MI.
EFFECTIVE AREA	= 7.08 SQ. MI.
Q2	= 590 CFS
V2	= 1.69 FPS
CHW2	= 1,134.31 FT.
Q5	= 1,280 CFS
V5	= 2.52 FPS
CHW5	= 1,137.25 FT.
Q10	= 1,970 CFS
V10	= 3.35 FPS
CHW10	= 1,138.90 FT.
Q25	= 3,130 CFS
V25	= 4.96 FPS
CHW25	= 1,140.44 FT.
Q50	= 4,020 CFS
V50	= 6.18 FPS
CHW50	= 1,140.57 FT.
Q100	= 5,070 CFS
V100	= 7.60 FPS
CHW100	= 1,141.16 FT.
Q500	= 8,070 CFS
V500	= 11.45 FPS
CHW500	= 1,143.76 FT.
Q0T>Q500	> 8,070 CFS
V0T	= 11.45 FPS
CHW0T	= 1,143.90 FT.

DESIGN DATA

MATERIALS:
CLASS AA CONCRETE, f'C = 4 KSI
REINFORCING STEEL, fy = 60 KSI

LOADING:
HL-93 AND OKLAHOMA OVERLOAD TRUCK
LIVE LOAD SURCHARGE = X.X FT.
DESIGN FILL HEIGHT = X.X FT.

DESIGN:
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS,
7TH EDITION WITH 2015 INTERIMS

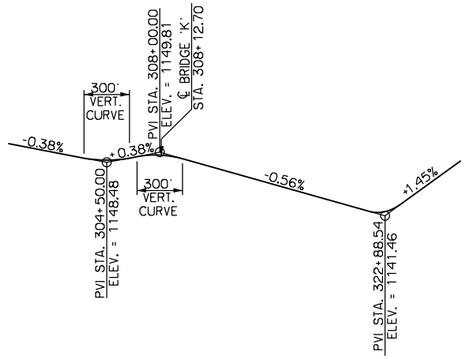
HL-93 INVENTORY RATING FACTOR: 1.00
HL-93 OPERATING RATING FACTOR: 1.30

INDEX OF SHEETS

SHEET NO.	SHEET DESCRIPTION
B019, B020	GENERAL PLAN AND PROFILE (BRIDGE "K")

REQUIRED STANDARD DRAWINGS

ROADWAY
SBI-4-2



PROFILE GRADE DATA

ALONG PROFILE GRADE LINE

SUMMARY OF QUANTITIES - BRIDGE 'K'

ITEM	UNIT	TOTAL
UNCLASSIFIED EXCAVATION	CY	0.00
STRUCTURAL EXCAVATION UNCLASSIFIED	CY	0.00
CLASS AA CONCRETE	CY	0.00
REINFORCING STEEL	LB	0.00

US-81 OVER LINE CREEK

GENERAL PLAN AND ELEVATION (BRIDGE "K")

(SHEET NO. 2 OF 2)
3 - 18' X 15' X 220' LONG RCB WITH 15°
SKEW RIGHT FORWARD, WINGS, APRONS AND 8' DEEP
CURTAIN WALLS AT ℄ SURVEY STA. 308+12.70

State Job No. 24428(04) Sheet No. B020

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 1 T6N R8W

SEC. 36 T7N R8W

338+00

339+00

340+00

1:3 SLOPE

1:6 SLOPE

10'-0" SHLDR.

12'-0" DRIVING LANE

12'-0" DRIVING LANE

4'-0" SHLDR.

1'-6" 42" F-SHAPED PARAPET

41'-0"

38'-0" CLEAR ROADWAY

34'-0"

32'-0"

4'-0"

2% SLOPE

POINT OF MINIMUM VERTICAL CLEARANCE

EXISTING ASPHALT ROAD

℄ GRAND AVENUE

BEGIN APPROACH SLAB
STA. 337+75.98

BEGIN BRIDGE AND DECK SLAB
STA. 338+05.98

℄ PIER NO. 1
STA. 338+56.40

℄ PIER NO. 2
STA. 339+50.40

END BRIDGE AND DECK SLAB
STA. 340+00.82

END APPROACH SLAB
STA. 340+30.82

90°

FGL
N 01°43'24.55" E

℄ SURVEY US-81
N 01°43'24.55" E

PLAN

B.M. #23: SET ¾" I.P. (30" LONG), STA. 331+35.67, 232.88' RIGHT OF ℄ SURVEY US-81, ELEV. = 1132.0986

B.M. #24: SET ¾" I.P. (30" LONG), STA. 121+84.30, 37.10' LEFT OF ℄ SURVEY GRAND AVENUE, ELEV. = 1132.6589

B.M. #91: SET ¾" I.P. (30" LONG), STA. 111+74.40, 213.43' LEFT OF ℄ SURVEY GRAND AVENUE, ELEV. = 1150.3224

B.M. #92: SET ¾" I.P. (30" LONG), STA. 104+11.22, 212.64' RIGHT OF ℄ SURVEY GRAND AVENUE, ELEV. = 1183.5639

BEGIN BRIDGE AND DECK SLAB
AT ABUTMENT NO. 1
STA. 338+05.98
FINISH GRADE ELEV. = 1158.50

BRIDGE LENGTH = 194'-10"

END BRIDGE AND DECK SLAB
AT ABUTMENT NO. 2
STA. 340+00.82
FINISH GRADE ELEV. = 1158.14

50'-5" SPAN NO. 1

94'-0" SPAN NO. 2

50'-5" SPAN NO. 3

FINISH GRADE ALONG FGL

BEGIN APPROACH SLAB
STA. = 337+75.98
F.G. ELEV. = 1158.43

℄ PIER NO. 1
STA. 338+56.40

TOP OF DECK SLAB

TOP OF 42" F-SHAPED PARAPET

℄ PIER NO. 2
STA. 339+50.40

END APPROACH SLAB
STA. = 340+30.82
F.G. ELEV. = 1157.98

FIX. | 5 - P.C. BEAMS (TYPE II) | EXP | EXP | 5 - P.C. BEAMS (TYPE II) | EXP | EXP | 5 - P.C. BEAMS (TYPE II) | FIX.

FULL STA. 337+92.39
ELEV. = 1156.97

TOP OF BRIDGE SEAT
ELEV. = 1153.69

SLOPE WALL 5" (TYPICAL)

1:3 SLOPE

BOTTOM OF PIER CAP
ELEV. = XX

16'-10½" MINIMUM VERTICAL CLEARANCE

BOTTOM OF PIER CAP
ELEV. = XX

TOP OF BRIDGE SEAT
ELEV. = 1153.34

FULL STA. 340+14.26
ELEV. = 1156.57

1:3 SLOPE

ZERO STA. 338+62.23
ELEV. = 1133.69

ZERO STA. 339+48.75
ELEV. = 1134.73

EMBANKMENT (TYPICAL)

X - HP 10X42
X'-0" LONG

TOP OF DRILLED SHAFT
ELEV. = XX

EXISTING GROUND ALONG FGL

℄ ROAD

TOP OF DRILLED SHAFT
ELEV. = XX

X - HP 10X42
X'-0" LONG

BOTTOM OF DRILLED SHAFT
ELEV. = XX

BOTTOM OF DRILLED SHAFT
ELEV. = XX

1180 1170 1160 1150 1140 1130 1120 1110 1100 1090

338+00

339+00

ELEVATION

SB US-81 OVER GRAND AVENUE

GENERAL PLAN AND ELEVATION (BRIDGE "M")

(SHEET NO. 1 OF 2)

THREE SPAN (50'-94'-50') P.C. BEAM BRIDGE
WITH 0° SKEW, 38'-0" CLEAR ROADWAY AND 42"
F-SHAPED PARAPETS AT ℄ SURVEY STA. 339+03.40

State Job No. 24428(04) Sheet No. B021

US 81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SUMMARY OF QUANTITIES - BRIDGE 'M'

ITEM	UNIT	ABUTMENTS	PIERS	SUPERSTRUCTURE	APPROACH SLABS	SLOPE WALL	TOTAL
SUBSTRUCTURE EXCAVATION COMMON	CY	0.00	-	-	-	-	0.00
CLSM BACKFILL	CY	0.00	-	-	-	-	0.00
PRESTRESSED CONCRETE BEAMS (TYPE II)	LF	-	-	0.00	-	-	0.00
PRESTRESSED CONCRETE BEAMS (TYPE IV)	LF	-	-	0.00	-	-	0.00
APPROACH SLAB	SY	-	-	-	0.00	-	0.00
SAW-CUT GROOVING	SY	-	-	0.00	0.00	-	0.00
42" F-SHAPED PARAPET	LF	-	-	0.00	0.00	-	0.00
STRUCTURAL STEEL	LB	-	-	0.00	-	-	0.00
WEATHERING STEEL FIXED BEARING ASSEMBLY	EA	-	-	0.00	-	-	0.00
STAINLESS STEEL EXPANSION BEARING ASSEMBLY	EA	-	-	0.00	-	-	0.00
ELASTOMERIC BEARING PADS	EA	-	-	0.00	-	-	0.00
CLASS AA CONCRETE	CY	-	-	0.00	-	-	0.00
CLASS A CONCRETE	CY	0.00	0.00	-	-	-	0.00
SLOPE WALL (5")	SY	-	-	-	-	0.00	0.00
REINFORCING STEEL	LB	-	0.00	-	-	-	0.00
EPOXY COATED REINFORCING STEEL	LB	0.00	0.00	0.00	-	-	0.00
PILES, FURNISHED (HP 10X42)	LF	0.00	-	-	-	-	0.00
PILES, DRIVEN (HP 10X42)	LF	0.00	-	-	-	-	0.00
WATER REPELLENT (VISUALLY INSPECTED)	SY	0.00	0.00	0.00	0.00	-	0.00
DRILLED SHAFT 72" DIAMETER	LF	-	0.00	-	-	-	0.00
SEALER CRACK PREPARATION	LF	-	-	0.00	-	-	0.00
SEALER RESIN	GAL	-	-	0.00	-	-	0.00
6" PERFORATED PIPE UNDERDRAIN ROUND	LF	0.00	-	-	-	0.00	0.00
6" NON-PERFORATED PIPE UNDERDRAIN ROUND	LF	0.00	-	-	-	-	0.00

STRUCTURAL AND FOUNDATION DESIGN DATA

MATERIAL:
CLASS A CONCRETE, f'c = 3 KSI
CLASS AA CONCRETE, f'c = 4 KSI
REINFORCING STEEL, fy = 60 KSI
STRUCTURAL STEEL M270 (GRADE 50W), Fy = 50 KSI
STAINLESS STEEL A240 (TYPE 316), Fy = 30 KSI

LOADING:
HL-93 OR OKLAHOMA OVERLOAD TRUCK
20 PSF FUTURE WEARING SURFACE
5 PSF STAY-IN-PLACE FORMS

DESIGN:
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS,
7TH EDITION WITH 2015 INTERIMS
ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE
ANSI/AWS D1.6 STRUCTURAL WELDING CODE - STAINLESS STEEL

HL-93 INVENTORY RATING FACTOR: 1.00
HL-93 OPERATING RATING FACTOR: 1.30

ABUTMENTS (HP 10X42 PILING)

ABUTMENTS NO.	1	2
MAXIMUM FACTORED PILE LOAD (TONS/PILE) =	XX	XX

ALL ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN IN THE PLANS. IF THE MAXIMUM FACTORED PILE LOAD IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE MAXIMUM FACTORED PILE LOAD IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN IN THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

PIERS

PIER NO.		1	2
DRILLED SHAFTS DIAMETER (INCHES)	=	XX	XX
FACTORED REACTION (TONS/SHAFT)	=	XXX	XXX
NOMINAL UNIT BEARING RESISTANCE (TSF)	=	XX.X	XX.X
BEARING RESISTANCE FACTOR	=	0.70	0.70
FACTORED BEARING RESISTANCE (TONS/SHAFT)	=	XXX	XXX
NOMINAL UNIT FRICTION RESISTANCE (TSF)	=	X.X	X.X
FRICTION RESISTANCE FACTOR	=	0.45	0.45
FACTORED FRICTION RESISTANCE (TONS/SHAFT)	=	XXX	XXX
DEPTH OF ROCK NEGLECTED FOR FRICTION (FEET)	=	X	X
TOTAL FACTORED RESISTANCE (TONS/SHAFT)	=	XXX	XXX

INDEX OF SHEETS

SHEET NO.	SHEET DESCRIPTION
B021, B022	GENERAL PLAN AND ELEVATION (BRIDGE "M")

REQUIRED STANDARD DRAWINGS

ROADWAY	BRIDGE
LECS-4-1	FSHP-42-2-00E
LTU-4-0	HP1-2-01E
PED-3-2	B40-1-ABUT-MISC-01E
PUD-3-2	

UTILITIES

TELEPHONE:
CHICKASAW TELEPHONE CO. - (580) 618-5455
SOUTHWESTERN BELL - (800) 522-6543
AT&T - (800) 778-9140
DOBSON TECHNOLOGIES - (800) 778-9140
INTELLEQ COMMUNICATIONS - (800) 335-4343
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ELECTRIC:
AEP PUBLIC SERVICE CO. OF OKLAHOMA - (888) 216-3523
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WATER AND SANITARY SEWER:
CITY OF CHICKASHA PUBLIC WORKS - (405) 222-6080
RURAL WATER DISTRICT #6 - (405) 459-6626
RURAL WATER DISTRICT #7 - (405) 779-6224

GAS AND PETROLEUM PIPELINES:
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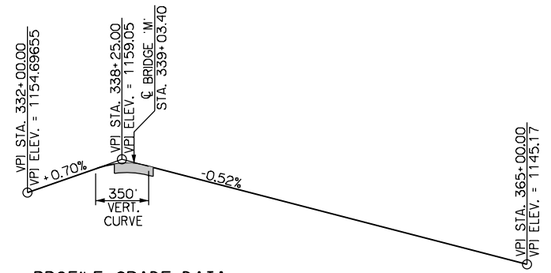
CONTINUUM ENERGY - (877) 587-0026
DCP MIDSTREAM - (800) 435-1679
UNIT PETROLEUM - (918) 493-7700
SUNOCO LOGISTICS - (800) 753-5531
KEPCO OPERATING INC. - (855) 421-2088



PROFILE GRADE DATA
FINISH GRADE ALONG FGL

SB US-81 OVER GRAND AVENUE

GENERAL PLAN AND ELEVATION (BRIDGE "M")

(SHEET NO. 2 OF 2)

THREE SPAN (50'-94'-50') P.C. BEAM BRIDGE
WITH 0° SKEW, 38'-0" CLEAR ROADWAY AND 42"
F-SHAPED PARAPETS AT ℄ SURVEY STA. 339+03.40

State Job No. 24428(04) Sheet No. B022

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 1 T6N R8W

℄ SURVEY US-81
N 01°43'24.55" E

338+00

339+00

℄ GRAND AVENUE

340+00

SEC. 36 T7N R8W

1:6 SLOPE

4'-0" SHLDR.

12'-0" DRIVING LANE

12'-0" DRIVING LANE

10'-0" SHLDR.

1:3 SLOPE

FGL
N 01°43'24.55" E

32'-0" (TYPICAL)

1'-6" 42" F-SHAPED PARAPET

4'-0"

41'-0"

38'-0" CLEAR ROADWAY

34'-0"

2% SLOPE

BEGIN APPROACH SLAB
STA. 337+78.98

BEGIN BRIDGE
AND DECK SLAB
STA. 338+08.98

℄ PIER NO. 1
STA. 338+59.40

℄ PIER NO. 2
STA. 339+53.40

END BRIDGE
STA. 340+03.82

END APPROACH SLAB
STA. 340+33.82

90°

EXISTING
ASPHALT ROAD

POINT OF MINIMUM
VERTICAL CLEARANCE

TUG

W

1132

1133

1134

1135

PLAN

B.M. #23: SET ¾" I.P. (30" LONG), STA. 331+35.67, 232.88' RIGHT OF ℄ SURVEY US-81, ELEV. = 1132.0986

B.M. #24: SET ¾" I.P. (30" LONG), STA. 121+84.30, 37.10' LEFT OF ℄ SURVEY GRAND AVENUE, ELEV. = 1132.6589

B.M. #91: SET ¾" I.P. (30" LONG), STA. 111+74.40, 213.43' LEFT OF ℄ SURVEY GRAND AVENUE, ELEV. = 1150.3224

B.M. #92: SET ¾" I.P. (30" LONG), STA. 104+11.22, 212.64' RIGHT OF ℄ SURVEY GRAND AVENUE, ELEV. = 1183.5639

BEGIN BRIDGE AND DECK SLAB
AT ABUTMENT NO. 1
STA. 338+08.98
FINISH GRADE ELEV. = 1158.50

BRIDGE LENGTH = 194'-10"

END BRIDGE AND DECK SLAB
AT ABUTMENT NO. 2
STA. 340+03.82
FINISH GRADE ELEV. = 1158.12

50'-5"
SPAN NO. 1

94'-0"
SPAN NO. 2

50'-5"
SPAN NO. 3

℄ PIER NO. 1
STA. 338+59.40

℄ PIER NO. 2
STA. 339+53.40

TOP OF DECK SLAB

TOP OF 42" F-SHAPED PARAPET

FINISH GRADE
ALONG FGL

BEGIN APPROACH SLAB
STA. = 337+78.98
F.G. ELEV. = 1158.44

END APPROACH SLAB
STA. = 340+33.82
F.G. ELEV. = 1157.97

FULL STA. 337+95.39
ELEV. = 1156.98

FIX.

5 - P.C. BEAMS (TYPE ID)

EXP

TOP OF BRIDGE SEAT
ELEV. = 1153.69

SLOPE WALL 5"
(TYPICAL)

1:3 SLOPE

BOTTOM OF PIER CAP
ELEV. = XX

17'-11½"
MINIMUM
VERTICAL
CLEARANCE

ZERO STA. 338+66.61
ELEV. = 1133.23

ZERO STA. 339+50.17
ELEV. = 1134.19

TOP OF BRIDGE SEAT
ELEV. = 1153.32

FULL STA. 340+17.26
ELEV. = 1156.55

EMBANKMENT
(TYPICAL)

X - HP 10X42
X'-0" LONG

TOP OF DRILLED SHAFT
ELEV. = XX

EXISTING GROUND
ALONG FGL

BOTTOM OF DRILLED SHAFT
ELEV. = XX

1180
1170
1160
1150
1140
1130
1120
1110
1100
1090

338+00

339+00

ELEVATION

NB US-81 OVER GRAND AVENUE

GENERAL PLAN AND ELEVATION (BRIDGE "N")

(SHEET NO. 1 OF 2)

THREE SPAN (50'-94'-50') P.C. BEAM BRIDGE
WITH 0° SKEW, 38'-0" CLEAR ROADWAY AND 42"
F-SHAPED PARAPETS AT ℄ SURVEY STA. 339+06.40

State Job No. 24428(04)

Sheet No. B023

US 81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SUMMARY OF QUANTITIES - BRIDGE 'N'

ITEM	UNIT	ABUTMENTS	PIERS	SUPERSTRUCTURE	APPROACH SLABS	SLOPE WALL	TOTAL
SUBSTRUCTURE EXCAVATION COMMON	CY	0.00	-	-	-	-	0.00
CLSM BACKFILL	CY	0.00	-	-	-	-	0.00
PRESTRESSED CONCRETE BEAMS (TYPE II)	LF	-	-	0.00	-	-	0.00
PRESTRESSED CONCRETE BEAMS (TYPE IID)	LF	-	-	0.00	-	-	0.00
APPROACH SLAB	SY	-	-	-	0.00	-	0.00
SAW-CUT GROOVING	SY	-	-	0.00	0.00	-	0.00
42" F-SHAPED PARAPET	LF	-	-	0.00	0.00	-	0.00
STRUCTURAL STEEL	LB	-	-	0.00	-	-	0.00
WEATHERING STEEL FIXED BEARING ASSEMBLY	EA	-	-	0.00	-	-	0.00
STAINLESS STEEL EXPANSION BEARING ASSEMBLY	EA	-	-	0.00	-	-	0.00
ELASTOMERIC BEARING PADS	EA	-	-	0.00	-	-	0.00
CLASS AA CONCRETE	CY	-	-	0.00	-	-	0.00
CLASS A CONCRETE	CY	0.00	0.00	-	-	-	0.00
SLOPE WALL (5")	SY	-	-	-	-	0.00	0.00
REINFORCING STEEL	LB	-	0.00	-	-	-	0.00
EPOXY COATED REINFORCING STEEL	LB	0.00	0.00	0.00	-	-	0.00
PILES, FURNISHED (HP 10X42)	LF	0.00	-	-	-	-	0.00
PILES, DRIVEN (HP 10X42)	LF	0.00	-	-	-	-	0.00
WATER REPELLENT (VISUALLY INSPECTED)	SY	0.00	0.00	0.00	0.00	-	0.00
DRILLED SHAFT 72" DIAMETER	LF	-	0.00	-	-	-	0.00
SEALER CRACK PREPARATION	LF	-	-	0.00	-	-	0.00
SEALER RESIN	GAL	-	-	0.00	-	-	0.00
6" PERFORATED PIPE UNDERDRAIN ROUND	LF	0.00	-	-	-	0.00	0.00
6" NON-PERFORATED PIPE UNDERDRAIN ROUND	LF	0.00	-	-	-	-	0.00

STRUCTURAL AND FOUNDATION DESIGN DATA

MATERIAL:
CLASS A CONCRETE, f'c = 3 KSI
CLASS AA CONCRETE, f'c = 4 KSI
REINFORCING STEEL, fy = 60 KSI
STRUCTURAL STEEL M270 (GRADE 50W), Fy = 50 KSI
STAINLESS STEEL A240 (TYPE 316), Fy = 30 KSI

LOADING:
HL-93 OR OKLAHOMA OVERLOAD TRUCK
20 PSF FUTURE WEARING SURFACE
5 PSF STAY-IN-PLACE FORMS

DESIGN:
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS,
7TH EDITION WITH 2015 INTERIMS
ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE
ANSI/AWS D1.6 STRUCTURAL WELDING CODE - STAINLESS STEEL

HL-93 INVENTORY RATING FACTOR: 1.00
HL-93 OPERATING RATING FACTOR: 1.30

ABUTMENTS (HP 10X42 PILING)

ABUTMENTS NO.		1	2
MAXIMUM FACTORED PILE LOAD (TONS/PILE)	=	XX	XX

ALL ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN IN THE PLANS. IF THE MAXIMUM FACTORED PILE LOAD IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE MAXIMUM FACTORED PILE LOAD IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN IN THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

PIERS

PIER NO.		1	2
DRILLED SHAFTS DIAMETER (INCHES)	=	XX	XX
FACTORED REACTION (TONS/SHAFT)	=	XXX	XXX
NOMINAL UNIT BEARING RESISTANCE (TSF)	=	XX.X	XX.X
BEARING RESISTANCE FACTOR	=	0.70	0.70
FACTORED BEARING RESISTANCE (TONS/SHAFT)	=	XXX	XXX
NOMINAL UNIT FRICTION RESISTANCE (TSF)	=	X.X	X.X
FRICTION RESISTANCE FACTOR	=	0.45	0.45
FACTORED FRICTION RESISTANCE (TONS/SHAFT)	=	XXX	XXX
DEPTH OF ROCK NEGLECTED FOR FRICTION (FEET)	=	X	X
TOTAL FACTORED RESISTANCE (TONS/SHAFT)	=	XXX	XXX

INDEX OF SHEETS

SHEET NO.	SHEET DESCRIPTION
B023, B024	GENERAL PLAN AND ELEVATION (BRIDGE 'N')

REQUIRED STANDARD DRAWINGS

ROADWAY	BRIDGE
LECS-4-1	FSHP-42-2-00E
LTU-4-0	HP1-2-01E
PED-3-2	B40-I-ABUT-MISC-01E
PUD-3-2	

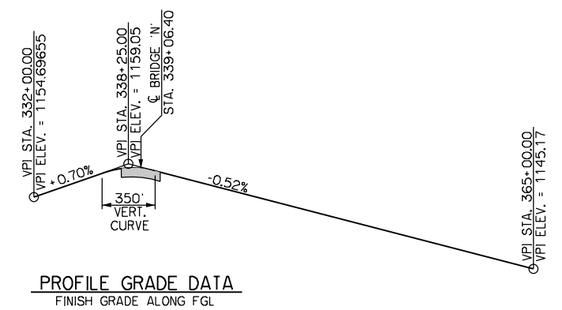
UTILITIES

TELEPHONE:
CHICKASAW TELEPHONE CO. - (580) 618-5455
SOUTHWESTERN BELL - (800) 522-6543
AT&T - (800) 778-9140
DOBSON TECHNOLOGIES - (800) 778-9140
INTELLEO COMMUNICATIONS - (800) 335-4343
MEDICINE PARK TELEPHONE CO. - (580) 529-2700

ELECTRIC:
AEP PUBLIC SERVICE CO. OF OKLAHOMA - (888) 216-3523
OKLAHOMA ELECTRIC COOPERATIVE - (405) 321-2024

WATER AND SANITARY SEWER:
CITY OF CHICKASHA PUBLIC WORKS - (405) 222-6080
RURAL WATER DISTRICT #6 - (405) 459-6626
RURAL WATER DISTRICT #7 - (405) 779-6224

GAS AND PETROLEUM PIPELINES:
ENABLE MIDSTREAM - (800) 522-8048
CONTINUUM ENERGY - (877) 587-0026
DCP MIDSTREAM - (800) 435-1679
UNIT PETROLEUM - (918) 493-7700
SUNOCO LOGISTICS - (800) 753-5531
KEPCO OPERATING INC. - (855) 421-2088



PROFILE GRADE DATA
FINISH GRADE ALONG FGL

NB US-81 OVER GRAND AVENUE

GENERAL PLAN AND ELEVATION (BRIDGE "N")

(SHEET NO. 2 OF 2)

THREE SPAN (50'-94'-50') P.C. BEAM BRIDGE
WITH 0° SKEW, 38'-0" CLEAR ROADWAY AND 42"
F-SHAPED PARAPETS AT ℄ SURVEY STA. 339+06.40

State Job No. 24428(04) Sheet No. B024

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 25 T7N R8W

SEC. 30 T7N R7W

SEC. 36 T7N R8W

SEC. 31 T7N R7W

1810+00

1811+00

1812+00

1813+00

RAMP

RAMP

℄ SURVEY US-81

1:3 SLOPE

1:3 SLOPE

1:3 SLOPE

1:3 SLOPE

4'-0" SHLDR.

12'-0" DRIVING LANE

12'-0" DRIVING LANE

4'-0" SHLDR.

POINT OF MINIMUM VERTICAL CLEARANCE

POINT OF MINIMUM VERTICAL CLEARANCE

1'-1" CONCRETE RAIL (TR4)

1'-1" CONCRETE RAIL (TR4)

17'-1"

17'-1"

34'-2"

32'-0" CLEAR ROADWAY

2% SLOPE

2% SLOPE

BEGIN APPROACH SLAB
STA. 1809+74.19

BEGIN BRIDGE AND DECK SLAB
STA. 1810+07.39

℄ PIER NO. 1
STA. 1810+48.58

CRL IDAHO AVENUE
N 89°57'49.76" E

392+00

EXISTING ASPHALT ROAD

℄ PIER NO. 2
STA. 1811+53.58
= ℄ SURVEY US-81
STA. 391+89.32

℄ PIER NO. 3
STA. 1812+58.58

END BRIDGE AND DECK SLAB,
STA. 1813+06.93

END APPROACH SLAB
STA. 1813+40.13

77°37'38.50"

77°37'38.50"

77°37'38.50"

77°37'38.50"

77°37'38.50"

TUG

EXISTING GRAVEL ROAD

1178

1178

1178

1182

1182

1182

1181

1180

1179

PLAN

1220

1210

1200

1190

1180

1170

1160

1150

1140

1130

1120

1110

1100

1090

1080

B.M. #31: SET ¾" I.P. (30" LONG), STA. 386+19.68, 310.53' RIGHT OF ℄ SURVEY US-81, ELEV. = 1172.3739

B.M. #33: SET ¾" I.P. (30" LONG), STA. 114+28.25, 120.83' LEFT OF ℄ SURVEY IDAHO AVENUE, ELEV. = 1177.0526

B.M. #68: SET ¾" I.P. (30" LONG) - 1' UNDERGROUND, STA. 103+91.14, 217.57' LEFT OF ℄ SURVEY IDAHO AVENUE, ELEV. = 1187.0347

BEGIN BRIDGE AND DECK SLAB
AT ABUTMENT NO. 1
STA. 1810+07.39
FINISH GRADE ELEV. = 1180.32

BEGIN APPROACH SLAB
STA. = 1809+74.19
F.G. ELEV. = 1180.65

BRIDGE LENGTH = 299'-6½"

END BRIDGE AND DECK SLAB
AT ABUTMENT NO. 2
STA. 1813+06.93
FINISH GRADE ELEV. = 1178.52

END APPROACH SLAB
STA. = 1813+40.13
F.G. ELEV. = 1178.33

41'-2¼"
SPAN NO. 1

105'-0"
SPAN NO. 2

105'-0"
SPAN NO. 3

48'-4¼"
SPAN NO. 4

℄ PIER NO. 1
STA. 1810+48.58

℄ PIER NO. 2
STA. 1811+53.58

℄ PIER NO. 3
STA. 1812+58.58

FINISH GRADE
ALONG CRL

EXISTING GROUND
ALONG CRL

FULL STA. 1809+93.32
ELEV. = 1180.45

TOP OF DECK SLAB

TOP OF CONCRETE RAIL (TR4)

FIX. 4 - P.C. BEAMS (TYPE II) EXP

EXP

4 - P.C. BEAMS (TYPE IV)

FIX

FIX

4 - P.C. BEAMS (TYPE IV)

EXP

EXP 4 - P.C. BEAMS (TYPE II) FIX

TOP OF BRIDGE SEAT
ELEV. = 1175.62

1:3.07 SLOPE

BOTTOM OF PIER CAP
ELEV. = XX

18'-2" MINIMUM VERTICAL CLEARANCE

BOTTOM OF PIER CAP
ELEV. = XX

19'-2½" MINIMUM VERTICAL CLEARANCE

BOTTOM OF PIER CAP
ELEV. = XX

SLOPE WALL (5")
(TYPICAL)

TOP OF BRIDGE SEAT
ELEV. = 1173.85

1:3.07 SLOPE

FULL STA. 1813+20.26
ELEV. = 1178.44

TOP OF DRILLED SHAFT
ELEV. = XX

EXCAVATION
(TYPICAL)

TOP OF DRILLED SHAFT
ELEV. = XX

PROPOSED GROUND
ALONG CRL

TOP OF DRILLED SHAFT
ELEV. = XX

2 - HP 10X42
XX'-0" LONG
(1 EACH WING)

X - HP 12X53
XX'-0" LONG

X - HP 12X53
XX'-0" LONG
(BATTERED 122)

2

12

BOTTOM OF DRILLED SHAFT
ELEV. = X

BOTTOM OF DRILLED SHAFT
ELEV. = X

BOTTOM OF DRILLED SHAFT
ELEV. = X

2

12

X - HP 12X53
XX'-0" LONG

X - HP 12X53
XX'-0" LONG
(BATTERED 122)

2 - HP 10X42
XX'-0" LONG
(1 EACH WING)

1810+00

1811+00

1812+00

ELEVATION

US 81 REALIGNMENT

GRADY COUNTY

IDAHO AVENUE OVER US-81

GENERAL PLAN AND ELEVATION (BRIDGE "O")

(SHEET NO. 1 OF 2)

FOUR SPAN (41'-105'-105'-48') P.C. BEAM BRIDGE WITH
12°22'22" SKEW LEFT FORWARD, 32'-0" CLEAR ROADWAY
AND CONCRETE RAIL (TR4) AT CRL STA. 1811+57.16

State Job No. 24428(04)

Sheet No. B025

PROPOSED
R/W
AUGUST 2017

SUMMARY OF QUANTITIES - BRIDGE 'O'

ITEM	UNIT	ABUTMENTS	PIERS	SUPERSTRUCTURE	APPROACH SLABS	SLOPE WALL	TOTAL
SUBSTRUCTURE EXCAVATION COMMON	CY	0.00	-	-	-	-	0.00
CLSM BACKFILL	CY	0.00	-	-	-	-	0.00
PRESTRESSED CONCRETE BEAMS (TYPE II)	LF	-	-	0.00	-	-	0.00
PRESTRESSED CONCRETE BEAMS (TYPE IV)	LF	-	-	0.00	-	-	0.00
APPROACH SLAB	SY	-	-	-	0.00	-	0.00
SAW-CUT GROOVING	SY	-	-	0.00	0.00	-	0.00
SEALED EXPANSION JOINT	LF	-	-	0.00	-	-	0.00
CONCRETE RAIL (TR4)	LF	-	-	0.00	0.00	-	0.00
STRUCTURAL STEEL	LB	-	-	0.00	-	-	0.00
STAINLESS STEEL FIXED BEARING ASSEMBLY	EA	-	-	0.00	-	-	0.00
STAINLESS STEEL EXPANSION BEARING ASSEMBLY	EA	-	-	0.00	-	-	0.00
CLASS AA CONCRETE	CY	-	-	0.00	-	-	0.00
CLASS A CONCRETE	CY	0.00	0.00	-	-	-	0.00
SLOPE WALL (5")	SY	-	-	-	-	0.00	0.00
REINFORCING STEEL	LB	-	0.00	-	-	-	0.00
EPOXY COATED REINFORCING STEEL	LB	0.00	0.00	0.00	-	-	0.00
PILES, FURNISHED (HP 10X42)	LF	0.00	-	-	-	-	0.00
PILES, FURNISHED (HP 12X53)	LF	0.00	-	-	-	-	0.00
PILES, DRIVEN (HP 10X42)	LF	0.00	-	-	-	-	0.00
PILES, DRIVEN (HP 12X53)	LF	0.00	-	-	-	-	0.00
WATER REPELLENT (VISUALLY INSPECTED)	SY	0.00	0.00	0.00	0.00	-	0.00
DRILLED SHAFT 72" DIAMETER	LF	-	0.00	-	-	-	0.00
SEALER CRACK PREPARATION	LF	-	-	0.00	-	-	0.00
SEALER RESIN	GAL	-	-	0.00	-	-	0.00
6" PERFORATED PIPE UNDERDRAIN ROUND	LF	0.00	-	-	-	0.00	0.00
6" NON-PERFORATED PIPE UNDERDRAIN ROUND	LF	0.00	-	-	-	-	0.00

STRUCTURAL AND FOUNDATION DESIGN DATA

MATERIAL:
CLASS A CONCRETE, f'c = 3 KSI
CLASS AA CONCRETE, f'c = 4 KSI
REINFORCING STEEL, fy = 60 KSI
STRUCTURAL STEEL M270 (GRADE 50W), Fy = 50 KSI
STAINLESS STEEL A240 (TYPE 316), Fy = 30 KSI

LOADING:
HL-93 OR OKLAHOMA OVERLOAD TRUCK
20 PSF FUTURE WEARING SURFACE
5 PSF STAY-IN-PLACE FORMS

DESIGN:
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS,
7TH EDITION WITH 2015 INTERIMS
ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE
ANSI/AWS D1.6 STRUCTURAL WELDING CODE - STAINLESS STEEL

HL-93 INVENTORY RATING FACTOR: 1.00
HL-93 OPERATING RATING FACTOR: 1.30

ABUTMENTS (HP 12X53 PILING)

ABUTMENTS NO.	1	2
MAXIMUM FACTORED PILE LOAD (TONS/PILE) =	XX	XX

ALL ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN IN THE PLANS. IF THE MAXIMUM FACTORED PILE LOAD IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE MAXIMUM FACTORED PILE LOAD IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN IN THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

PIERS

PIER NO.		1	2	3
DRILLED SHAFTS DIAMETER (INCHES)	=	XX	XX	XX
FACTORED REACTION (TONS/SHAFT)	=	XXX	XXX	XXX
NOMINAL UNIT BEARING RESISTANCE (TSF)	=	XX.X	XX.X	XX.X
BEARING RESISTANCE FACTOR	=	0.70	0.70	0.70
FACTORED BEARING RESISTANCE (TONS/SHAFT)	=	XXX	XXX	XXX
NOMINAL UNIT FRICTION RESISTANCE (TSF)	=	X.X	X.X	X.X
FRICTION RESISTANCE FACTOR	=	0.45	0.45	0.45
FACTORED FRICTION RESISTANCE (TONS/SHAFT)	=	XXX	XXX	XXX
DEPTH OF ROCK NEGLECTED FOR FRICTION (FEET)	=	X	X	X
TOTAL FACTORED RESISTANCE (TONS/SHAFT)	=	XXX	XXX	XXX

INDEX OF SHEETS

SHEET NO.	SHEET DESCRIPTION
B025, B026	GENERAL PLAN AND ELEVATION (BRIDGE "O")

REQUIRED STANDARD DRAWINGS

ROADWAY	BRIDGE
LECS-4-1	TR4-2-00E
LTU-4-0	EJ-SK-04E
PED-3-2	EJ-DTL-02E
PUD-3-2	HP1-2-01E

UTILITIES

TELEPHONE:
CHICKASAW TELEPHONE CO. - (580) 618-5455
SOUTHWESTERN BELL - (800) 522-6543
AT&T - (800) 778-9140
DOBSON TECHNOLOGIES - (800) 778-9140
INTELLEQ COMMUNICATIONS - (800) 335-4343
MEDICINE PARK TELEPHONE CO. - (580) 529-2700

ELECTRIC:
AEP PUBLIC SERVICE CO. OF OKLAHOMA - (888) 216-3523
OKLAHOMA ELECTRIC COOPERATIVE - (405) 321-2024

WATER AND SANITARY SEWER:
CITY OF CHICKASHA PUBLIC WORKS - (405) 222-6080
RURAL WATER DISTRICT #6 - (405) 459-6626
RURAL WATER DISTRICT #7 - (405) 779-6224

GAS AND PETROLEUM PIPELINES:
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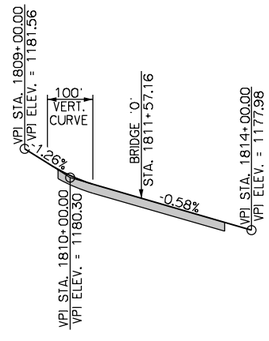
CONTINUUM ENERGY - (877) 587-0026
DCP MIDSTREAM - (800) 435-1679
UNIT PETROLEUM - (918) 493-7700
SUNOCO LOGISTICS - (800) 753-5531
KEPCO OPERATING INC. - (855) 421-2088



PROFILE GRADE DATA
FINISH GRADE ALONG CRL

IDAHO AVENUE OVER US-81

GENERAL PLAN AND ELEVATION (BRIDGE "O")

(SHEET NO. 2 OF 2)
FOUR SPAN (41'-105'-105'-48') P.C. BEAM BRIDGE WITH
12°22'22" SKEW LEFT FORWARD, 32'-0" CLEAR ROADWAY
AND CONCRETE RAIL (TR4) AT CRL STA. 1811+57.16

State Job No. 24428(04) Sheet No. B026

US 81 REALIGNMENT
GRADY COUNTY

8/25/2017

10:42:48 AM

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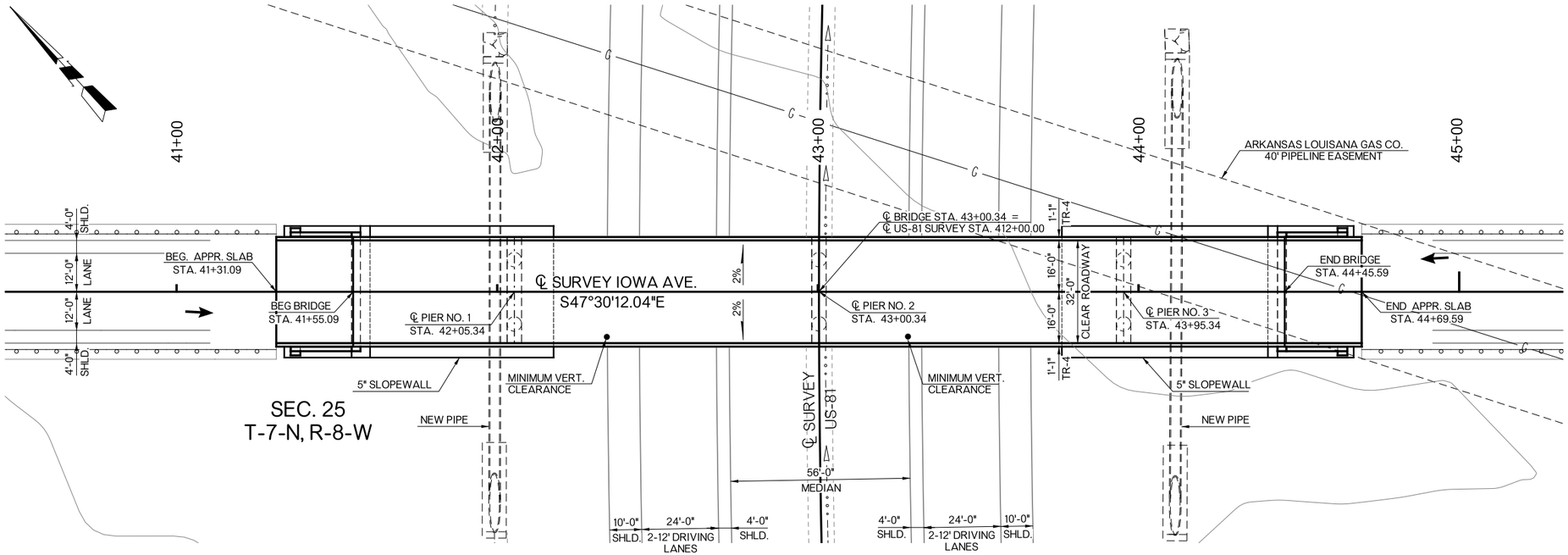
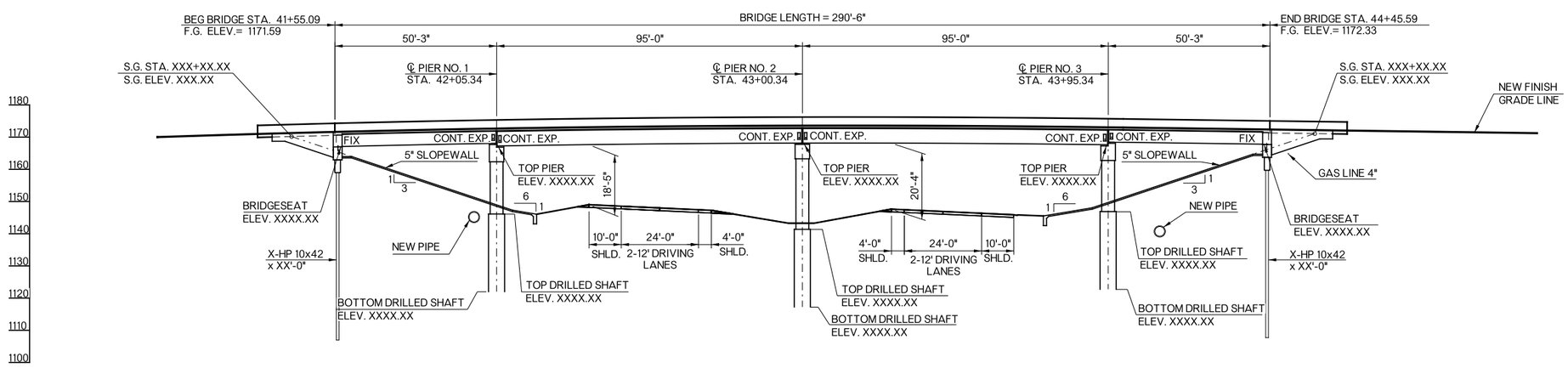
PROPOSED
R/W
AUGUST 2017



PLAN

BENCHMARK #32 1873.77' RT. OF US-81 CRL A001
CHIS. "X" SET, NW COR. PAD OF WATER VAULT
STA. 399+38.08 ELEV: 1176.66

BENCHMARK #232 2379.36' RT. OF US-81 CRL A001
80D SPIKE IN POWER POLE
STA. 406+08.72 ELEV: 1160.59



ELEVATION

DESIGN DATA

MATERIAL

CLASS AA CONCRETE	F'C=4,000 P.S.I.
CLASS A CONCRETE	F'C=3,000 P.S.I.
REINFORCING STEEL (GRADE 60)	FY=60,000 P.S.I.
STRUCTURAL STEEL M270 (GRADE 50W)	FY=50,000 P.S.I.
STAINLESS STEEL A240 (TYPE 316)	FY=30,000 P.S.I.

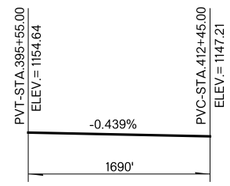
LOADING

LOADING: HL-93 OR OKLAHOMA OVERLOAD TRUCK
20 P.S.F. FUTURE WEARING SURFACE
5 P.S.F. STAY-IN-PLACE FORMS

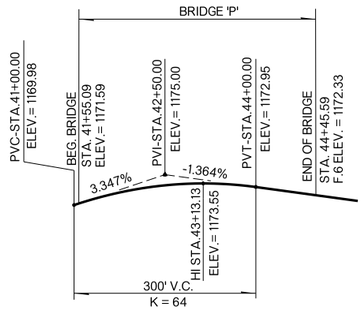
DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION.

ANSI/AASHTO/AWSD D1.5 BRIDGE WELDING CODE
ANSI/AWSD D1.6 STRUCTURAL WELDING CODE-STAINLESS STEEL
LRFR OPERATING RATING FACTOR X.XX

ALL ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN ON THE PLANS. IF THE REQUIRED AXIAL LOAD RESISTANCE IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE REQUIRED AXIAL LOAD RESISTANCE IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY.



GRADE DATA
US- 81



VERTICAL CURVE DATA
IOWA AVE.

IOWA AVE. OVER US-81

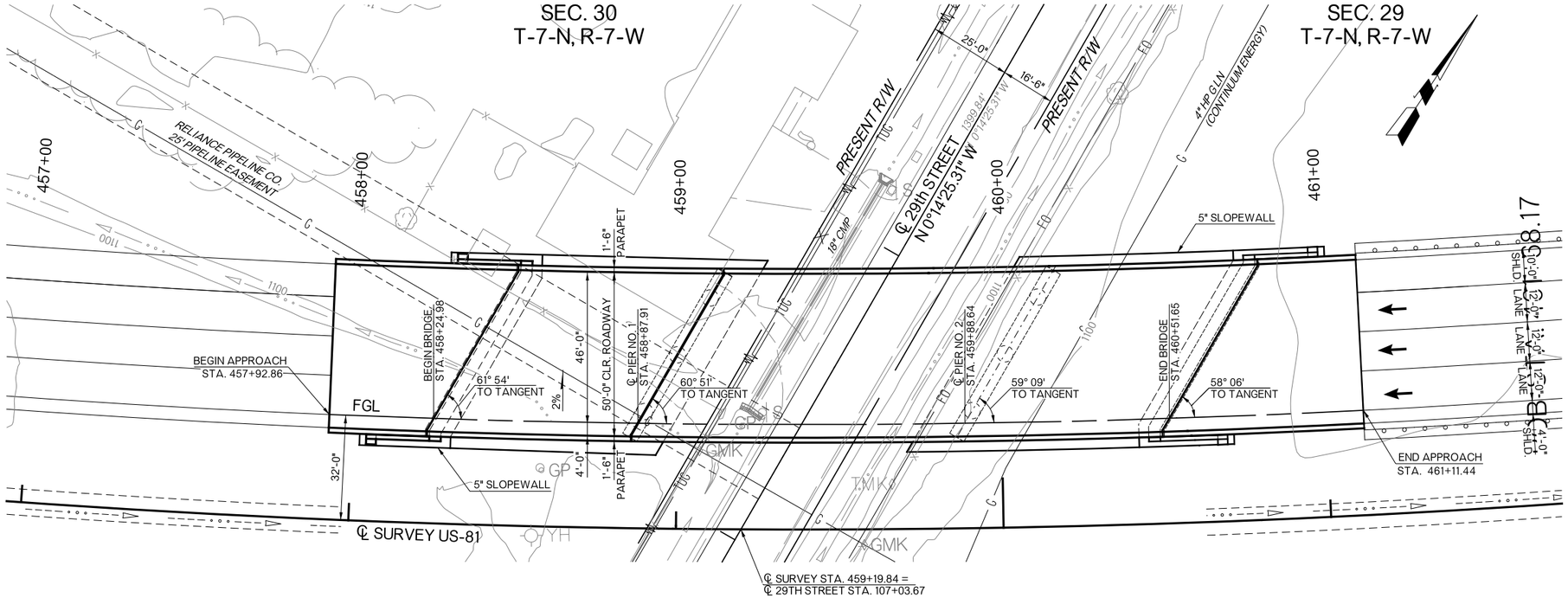
GENERAL PLAN AND ELEVATION (BRIDGE "P")

CONST. 50.25' (TYPE III), 2-95' (TYPE IV), 50.25 (TYPE III) PC BEAM SPANS
WITH INTEGRAL ABUTMENTS X 32' CLR. RDY W/ TR-4
℄ BRIDGE STA. 43+00.34 = ℄ US-81 SURVEY STA. 412+00.00

State Job No. 24428(04) Sheet No. B027

US-81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

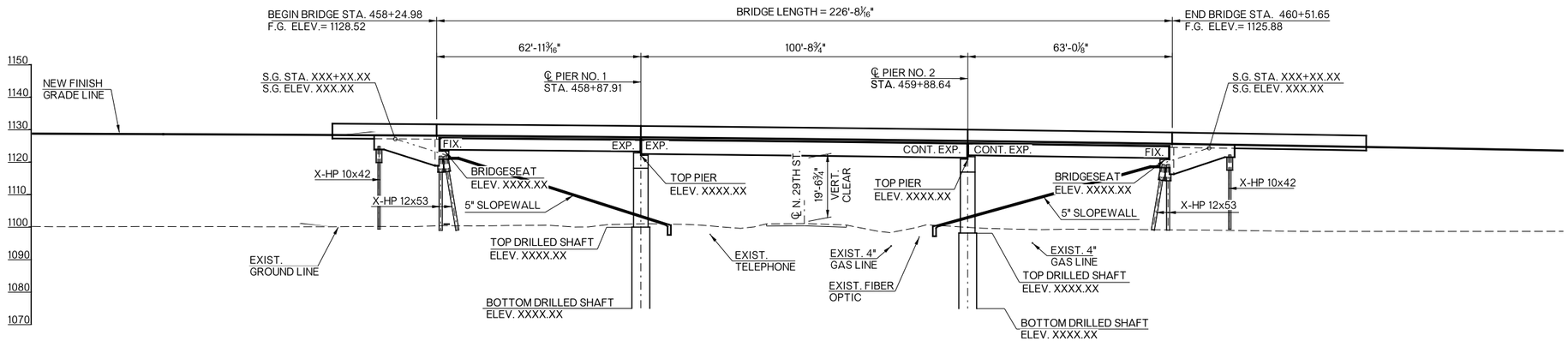


PLAN

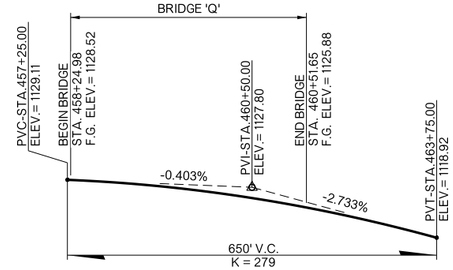
BENCHMARK NO. 42: 104.61' LT. OF ℄ 29TH ST. A019
SET ¾" I.P. (30" LONG)
STA. 103+55.35 ELEV: 1101.56

BENCHMARK NO. 43: 284.38' RT. OF US-81 CRL A001
SET ¾" I.P. (30" LONG)
STA. 465+43.47 ELEV: 1098.98

NOTE: ALL STATIONING FOLLOWS ℄ SURVEY US-81
UNLESS NOTED OTHERWISE.
ELEVATION OF BRIDGE IS SHOWN ALONG THE
FINISH GRADE LINE.



ELEVATION



VERTICAL CURVE DATA US-81

457+00 458+00 459+00 460+00 461+00

DESIGN DATA

MATERIAL

CLASS AA CONCRETE	F'C=4,000 P.S.I.
CLASS A CONCRETE	F'C=3,000 P.S.I.
REINFORCING STEEL (GRADE 60)	FY=60,000 P.S.I.
STRUCTURAL STEEL M270 (GRADE 50W)	FY=50,000 P.S.I.
STAINLESS STEEL A240 (TYPE 316)	FY=30,000 P.S.I.

LOADING

LOADING: HL-93 OR OKLAHOMA OVERLOAD TRUCK
20 P.S.F. FUTURE WEARING SURFACE
5 P.S.F. STAY-IN-PLACE FORMS

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS,
7TH EDITION.
ANSI/AASHTO/AWSD D1.5 BRIDGE WELDING CODE
ANSI/AWSD D1.6 STRUCTURAL WELDING CODE-STAINLESS STEEL
LRFR OPERATING RATING FACTOR X.XX

ALL ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN ON THE PLANS. IF THE REQUIRED AXIAL LOAD RESISTANCE IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE REQUIRED AXIAL LOAD RESISTANCE IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

SB US-81 OVER 29th STREET

GENERAL PLAN AND ELEVATION (BRIDGE "Q")

CONST. 62.93' (TYPE III), 100.73' (TYPE IV), 63.01' (TYPE III) P.C. BEAM SPANS
x 50' CLEAR ROADWAY WITH 42" F-SHAPED PARAPETS
SKEWED LEFT FORWARD, ℄ US-81 SURVEY STA. 459+38.32

State Job No. 24428(04) Sheet No. B028

GRADY COUNTY US-81 REALIGNMENT

8/25/2017 10:43:06 AM
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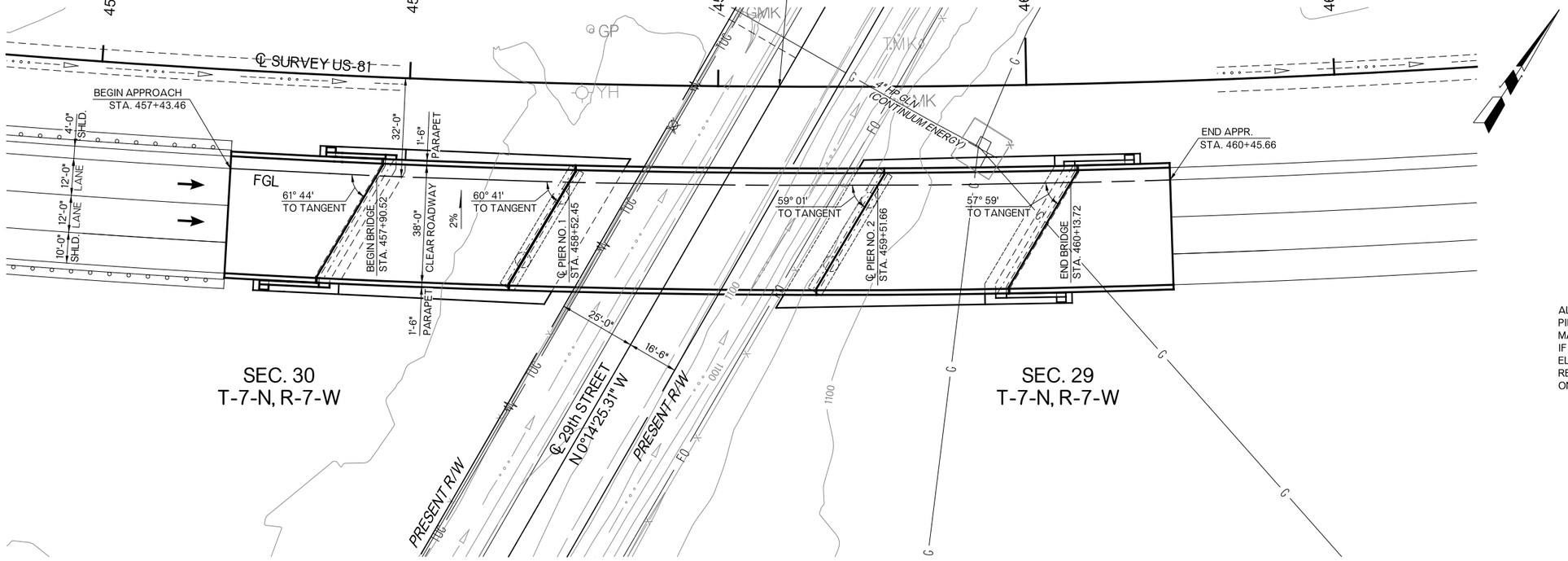
PROPOSED
R/W
AUGUST 2017



PLAN

DESIGN DATA

MATERIAL

CLASS AA CONCRETE	F'C=4,000 P.S.I.
CLASS A CONCRETE	F'C=3,000 P.S.I.
REINFORCING STEEL (GRADE 60)	FY=60,000 P.S.I.
STRUCTURAL STEEL M270 (GRADE 50W)	FY=50,000 P.S.I.
STAINLESS STEEL A240 (TYPE 316)	FY=30,000 P.S.I.

LOADING

LOADING: HL-93 OR OKLAHOMA OVERLOAD TRUCK
20 P.S.F. FUTURE WEARING SURFACE
5 P.S.F. STAY-IN-PLACE FORMS

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS,
7TH EDITION.

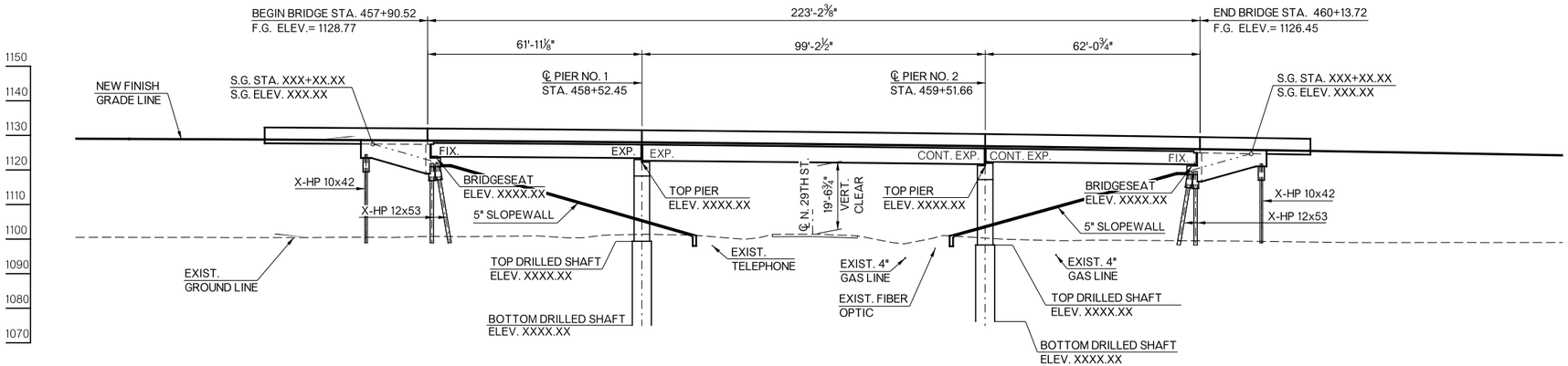
ANSI/AASHTO/AWSD D1.5 BRIDGE WELDING CODE
ANSI/AWSD D1.6 STRUCTURAL WELDING CODE-STAINLESS STEEL
LRFR OPERATING RATING FACTOR XX.X

ALL ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN ON THE PLANS. IF THE REQUIRED AXIAL LOAD RESISTANCE IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE REQUIRED AXIAL LOAD RESISTANCE IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

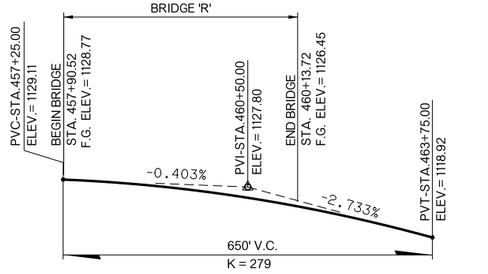
BENCHMARK NO. 42: 104.61' LT. OF ℄ 29TH ST. A019
SET ¾" I.P. (30" LONG)
STA. 103+55.35 ELEV: 1101.56

BENCHMARK NO. 43: 284.38' RT. OF US-81 CRL A001
SET ¾" I.P. (30" LONG)
STA. 465+43.47 ELEV: 1098.98

NOTE: ALL STATIONING FOLLOWS ℄ SURVEY US-81
UNLESS NOTED OTHERWISE.
ELEVATION OF BRIDGE IS SHOWN ALONG THE
FINISH GRADE LINE.



ELEVATION



VERTICAL CURVE DATA US-81

457+00 458+00 459+00 460+00 461+00

NB US-81 OVER 29th STREET

GENERAL PLAN AND ELEVATION (BRIDGE "R")

CONST. 61.93' (TYPE III), 99.21' (TYPE IV), 62.06' (TYPE III) P.C. BEAM SPANS
x 38' CLEAR ROADWAY WITH 42" F-SHAPED PARAPETS
SKEWED LEFT FORWARD, ℄ US-81 SURVEY STA. 459+02.12

State Job No. 24428(04) Sheet No. B029

US-81 REALIGNMENT
GRADY COUNTY

8/25/2017 10:43:22 AM
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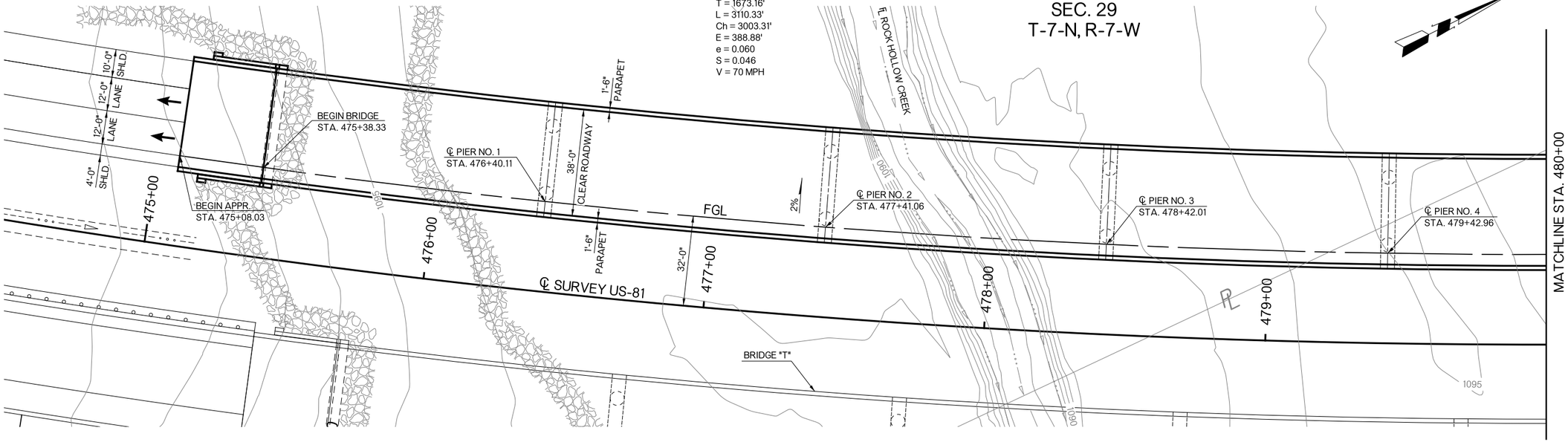
PROPOSED
R/W
AUGUST 2017

CURVE NO. US81-4
PI-STA. 466+28.63
Δ = 52°20'18.72"
R = 3404.93'
D = 1°40'57.84"
T = 1673.16'
L = 3110.33'
Ch = 3003.31'
E = 388.88'
e = 0.060
S = 0.046
V = 70 MPH

SEC. 29
T-7-N, R-7-W

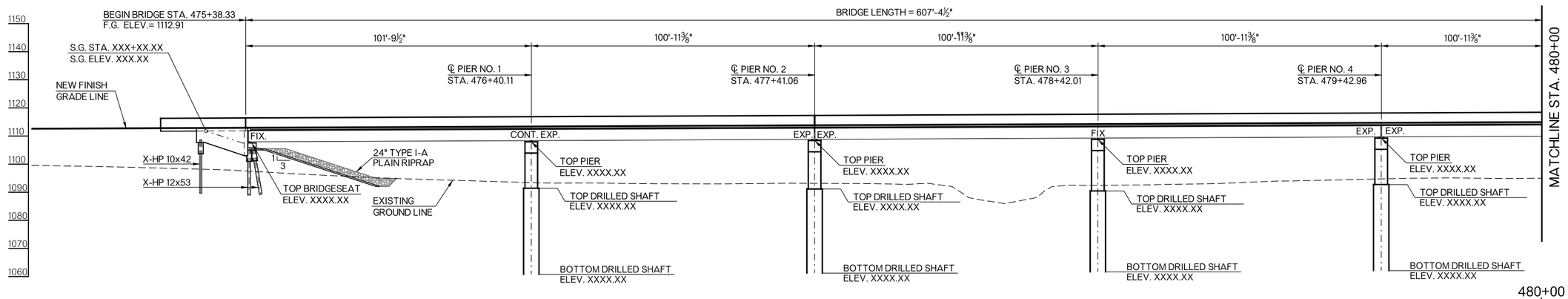


PLAN

BENCHMARK NO.44: 307.35' RT. OF US-81 CRL A001
SET ¾" I.P. (30" LONG)
STA. 473+41.96 ELEV: 1098.80

BENCHMARK NO.45: 283.55' RT. OF US-81 CRL A001
SET ¾" I.P. (30" LONG)
STA. 480+83.78 ELEV: 1093.72

NOTE: ALL STATIONING FOLLOWS ℄ SURVEY US-81
UNLESS NOTED OTHERWISE.
ELEVATION OF BRIDGE IS SHOWN ALONG THE
FINISH GRADE LINE.



ELEVATION

475+00 476+00 477+00 478+00 479+00

SB US-81 OVER ROCK HOLLOW CREEK

GENERAL PLAN AND ELEVATION (BRIDGE "S")

(SHEET 1 OF 2)

CONST. 100.79'-100.95', 100.95'-100.95', 100.95'-100.79' CONTINUOUS
PLATE GIRDER SPANS x 38' CLEAR ROADWAY WITH 42" F-SHAPED PARAPETS
℄ US-81 SURVEY STA. 478+42.01

State Job No. 24428(04) Sheet No. B030

US-81 REALIGNMENT
GRADY COUNTY

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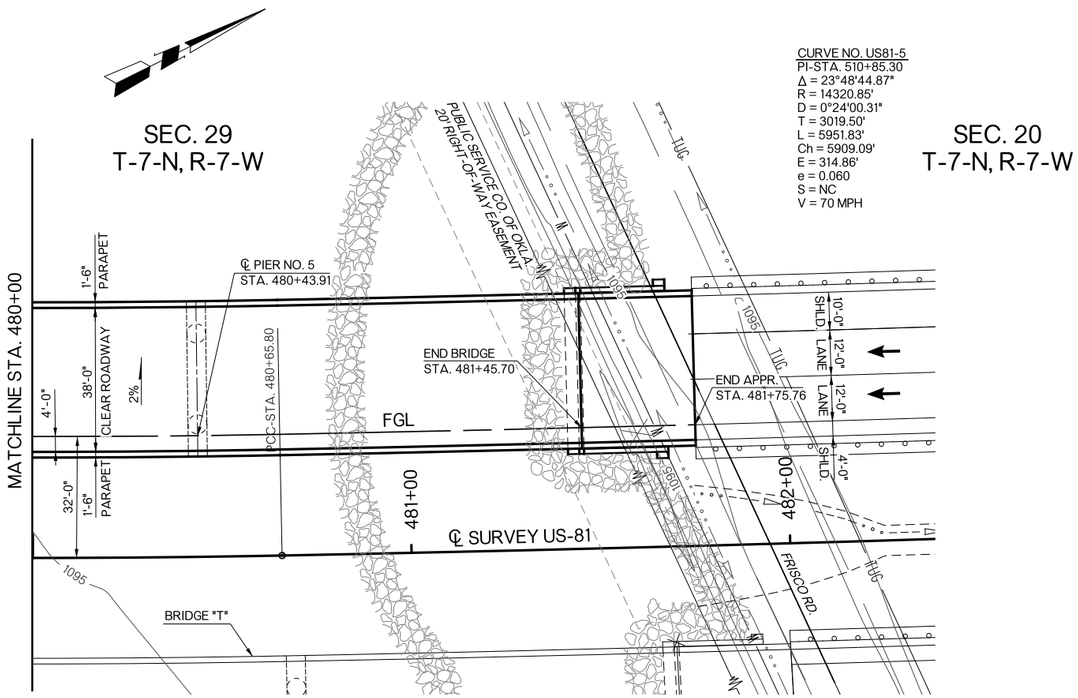
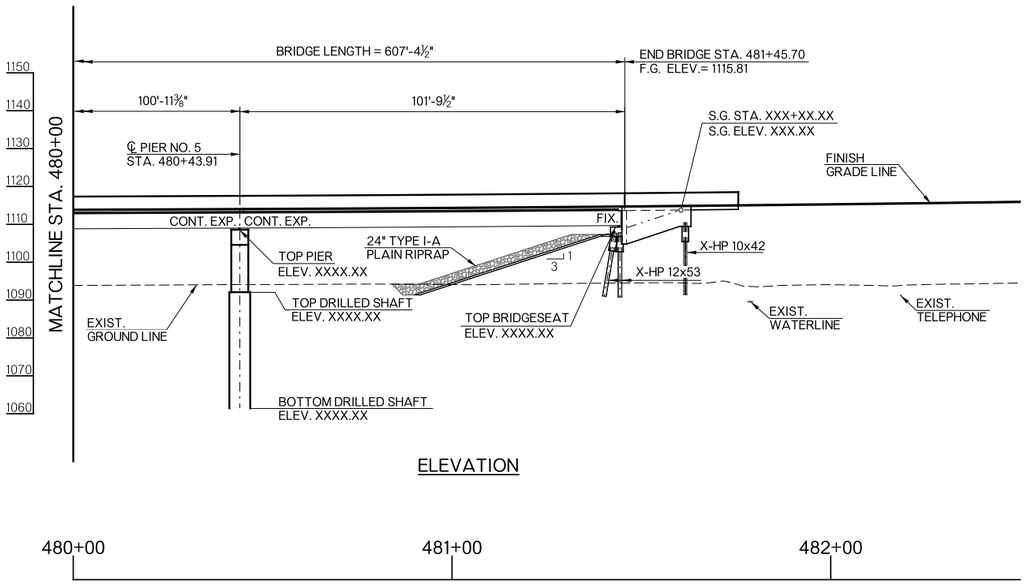
PROPOSED
R/W
AUGUST 2017



PLAN

BENCHMARK NO.45: 283.55' RT. OF US-81 CRL A001
SET ¾" I.P. (30" LONG)
STA. 480+83.78 ELEV: 1093.72

NOTE: ALL STATIONING FOLLOWS ℄ SURVEY US-81 UNLESS NOTED OTHERWISE. ELEVATION OF BRIDGE IS SHOWN ALONG THE FINISH GRADE LINE.



ELEVATION

DESIGN DATA

MATERIAL

CLASS AA CONCRETE	F'C=4,000 P.S.I.
CLASS A CONCRETE	F'C=3,000 P.S.I.
REINFORCING STEEL (GRADE 60)	FY=60,000 P.S.I.
STRUCTURAL STEEL M270 (GRADE 50W)	FY=50,000 P.S.I.
STAINLESS STEEL A240 (TYPE 316)	FY=30,000 P.S.I.

LOADING

LOADING: HL-93 OR OKLAHOMA OVERLOAD TRUCK
20 P.S.F. FUTURE WEARING SURFACE
5 P.S.F. STAY-IN-PLACE FORMS

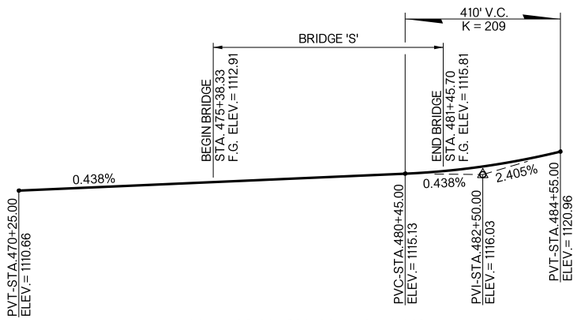
DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION.

ANSI/AASHTO/AWSD D1.5 BRIDGE WELDING CODE
ANSI/AWSD D1.6 STRUCTURAL WELDING CODE-STAINLESS STEEL
LRFR OPERATING RATING FACTOR X.XX

ALL ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN ON THE PLANS. IF THE REQUIRED AXIAL LOAD RESISTANCE IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE REQUIRED AXIAL LOAD RESISTANCE IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

HYDRAULIC DATA

DRAINAGE AREA (sq. mi.)			
TOTAL			37.54
CONTROLLED			00.00
EFFECTIVE			37.54
FREQ.	Q(cfs)	V(fps)	CHW(ft)
2	1510	4.62	1095.36
5	3210	4.76	1096.86
10	4890	5.05	1097.80
25	7700	5.76	1098.89
50	10100	6.34	1099.64
100	12500	6.87	1100.30
	QOT (cfs)	VOT (fps)	CHWOT (ft)
483	19690	8.78	1101.66
	CONTRACTION SCOUR(ft)	PIER SCOUR (ft)	TOTAL SCOUR (ft)
100	3.11	8.12	11.23



VERTICAL CURVE DATA US-81

SB US-81 OVER ROCK HOLLOW CREEK

GENERAL PLAN AND ELEVATION (BRIDGE "S")

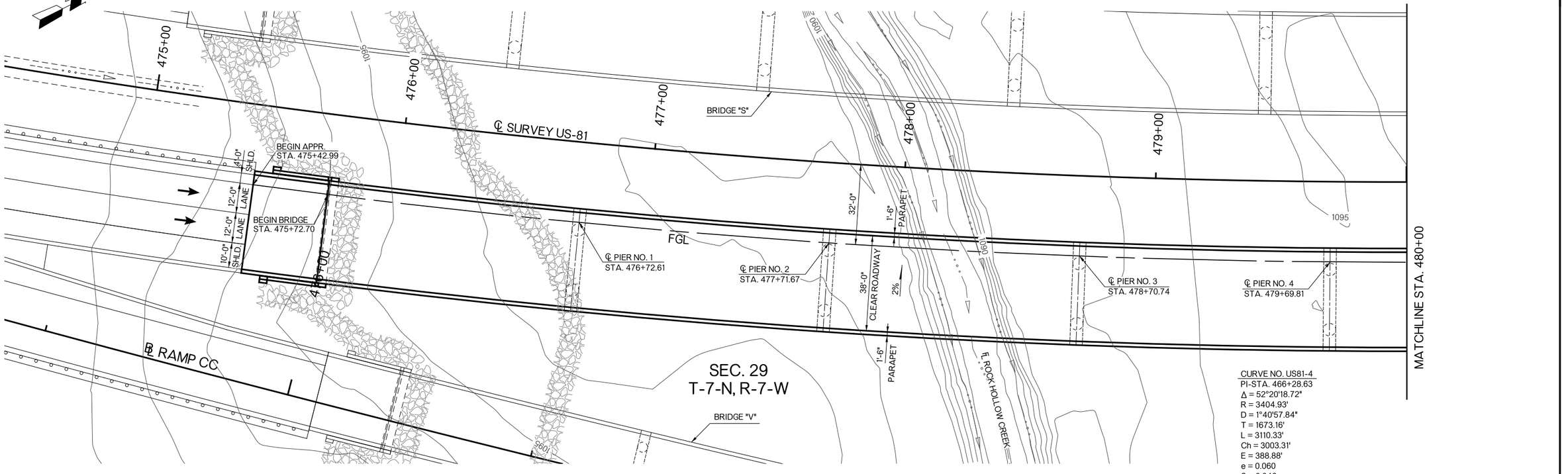
(SHEET 2 OF 2)

CONST. 101.79'-100.95', 100.95'-100.95', 100.95'-101.79' CONTINUOUS PLATE GIRDER SPANS x 38' CLEAR ROADWAY WITH 42" F-SHAPED PARAPETS
℄ US-81 SURVEY STA. 478+42.01

State Job No. 24428(04) Sheet No. B031

US-81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017



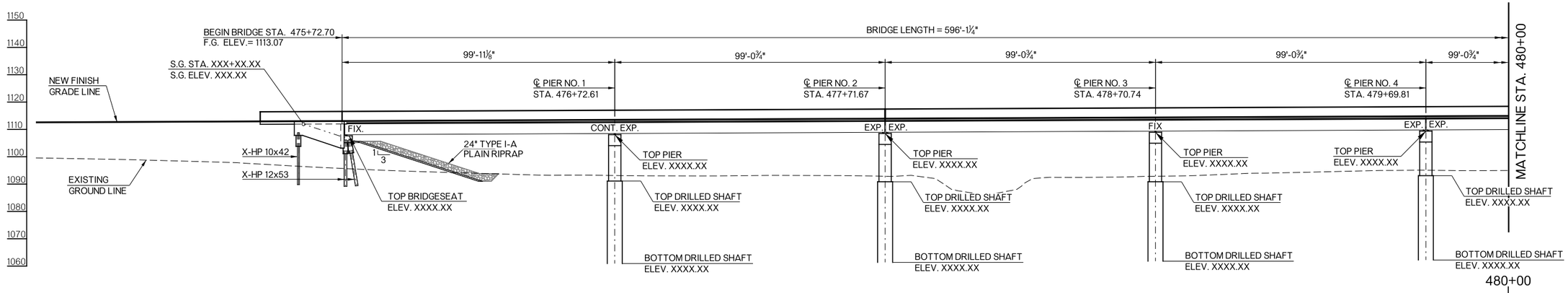
CURVE NO. US81-4
PI-STA. 466+28.63
Δ = 52°20'18.72"
R = 3404.93'
D = 1°40'57.84"
T = 1673.16'
L = 3110.33'
Ch = 3003.31'
E = 388.88'
e = 0.060
S = 0.046
V = 70 MPH

PLAN

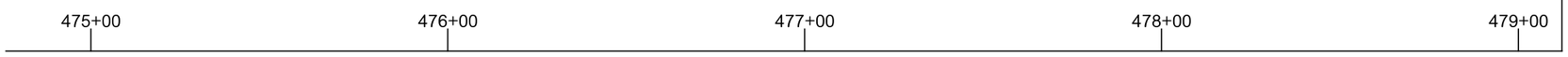
BENCHMARK NO.44: 307.35' RT. OF US-81 CRL A001
SET ¾" I.P. (30" LONG)
STA. 473+41.96 ELEV: 1098.80

NOTE: ALL STATIONING FOLLOWS ℄ SURVEY US-81
UNLESS NOTED OTHERWISE.
ELEVATION OF BRIDGE IS SHOWN ALONG THE
FINISH GRADE LINE.

BENCHMARK NO.45: 283.55' RT. OF US-81 CRL A001
SET ¾" I.P. (30" LONG)
STA. 480+83.78 ELEV: 1093.72



ELEVATION



NB US-81 OVER ROCK HOLLOW CREEK

GENERAL PLAN AND ELEVATION (BRIDGE "T")

(SHEET 1 OF 2)

CONST. 99.93'-99.06', 99.06'-99.06', 99.06'-99.93' CONTINUOUS
PLATE GIRDER SPANS x 38' CLEAR ROADWAY WITH 42" F-SHAPED PARAPETS
℄ US-81 SURVEY STA. 478+70.75

State Job No. 24428(04) Sheet No. B032

GRADY COUNTY US-81 REALIGNMENT

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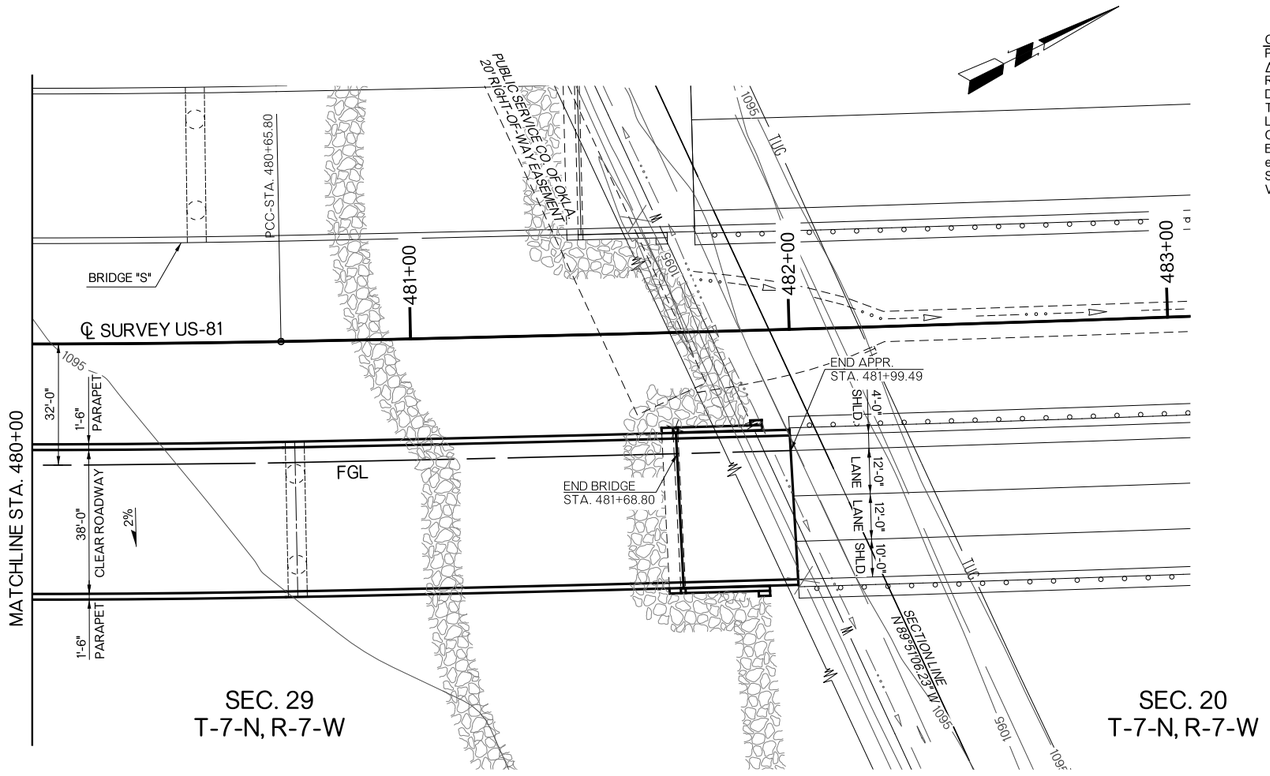
PROPOSED
R/W
AUGUST 2017



PLAN

CURVE NO. US81-5
PI-STA. 510+85.30
Δ = 23°48'44.87"
R = 14320.85'
D = 0°24'00.31"
T = 3019.50'
L = 5951.83'
Ch = 5909.09'
E = 314.86'
e = 0.060
S = NC
V = 70 MPH

DESIGN DATA

MATERIAL

CLASS AA CONCRETE	F'C=4,000 P.S.I.
CLASS A CONCRETE	F'C=3,000 P.S.I.
REINFORCING STEEL (GRADE 60)	FY=60,000 P.S.I.
STRUCTURAL STEEL M270 (GRADE 50W)	FY=50,000 P.S.I.
STAINLESS STEEL A240 (TYPE 316)	FY=30,000 P.S.I.

LOADING

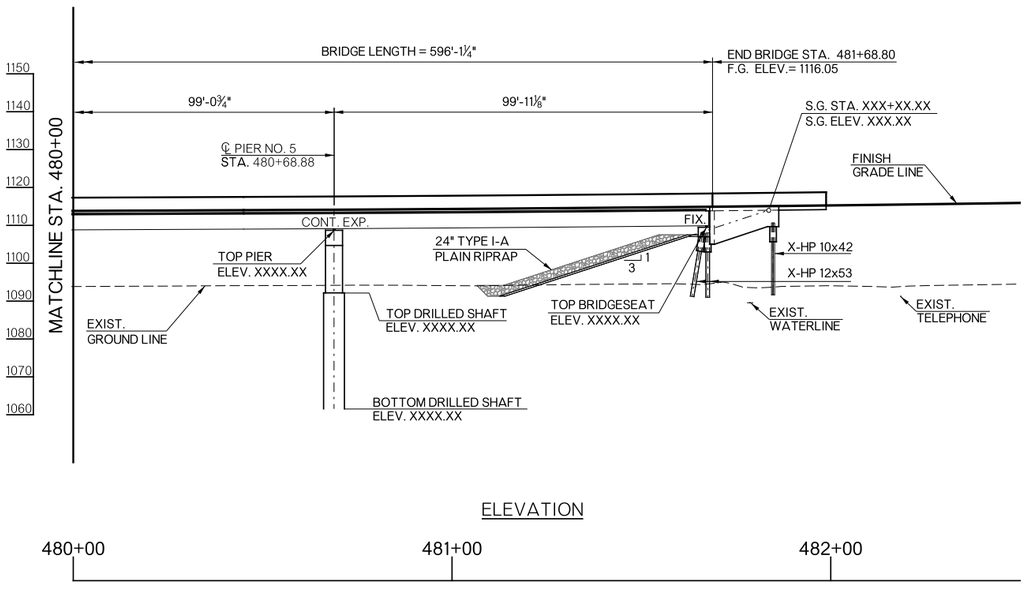
LOADING: HL-93 OR OKLAHOMA OVERLOAD TRUCK
20 P.S.F. FUTURE WEARING SURFACE
5 P.S.F. STAY-IN-PLACE FORMS

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION.
ANSI/AASHTO/AWSD D1.5 BRIDGE WELDING CODE
ANSI/AWSD D1.6 STRUCTURAL WELDING CODE-STAINLESS STEEL
LRFR OPERATING RATING FACTOR X.XX

ALL ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN ON THE PLANS. IF THE REQUIRED AXIAL LOAD RESISTANCE IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE REQUIRED AXIAL LOAD RESISTANCE IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

BENCHMARK NO.45: 283.55' RT. OF US-81 CRL A001
SET ¾" I.P. (30" LONG)
STA. 480+83.78 ELEV: 1093.72

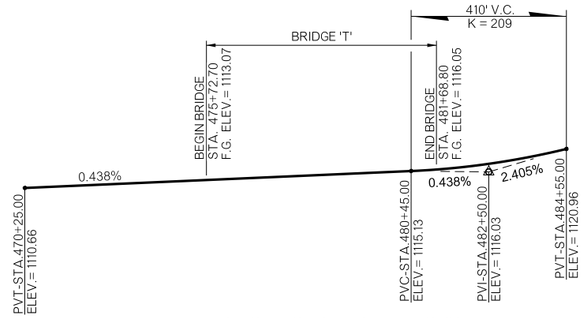
NOTE: ALL STATIONING FOLLOWS ℄ SURVEY US-81 UNLESS NOTED OTHERWISE. ELEVATION OF BRIDGE IS SHOWN ALONG THE FINISH GRADE LINE.



ELEVATION

HYDRAULIC DATA

DRAINAGE AREA (sq. mi.)			
TOTAL			37.54
CONTROLLED			00.00
EFFECTIVE			37.54
FREQ.	Q(cfs)	V(fps)	CHW(ft)
2	1510	4.62	1095.36
5	3210	4.76	1096.86
10	4890	5.05	1097.80
25	7700	5.76	1098.89
50	10100	6.34	1099.64
100	12500	6.87	1100.30
	QOT (cfs)	VOT (fps)	CHWOT (ft)
483	19690	8.78	1101.66
	CONTRACTION SCOUR(ft)	PIER SCOUR (ft)	TOTAL SCOUR (ft)
100	3.11	8.12	11.23



VERTICAL CURVE DATA US-81

NB US-81 OVER ROCK HOLLOW CREEK

GENERAL PLAN AND ELEVATION (BRIDGE "T")

(SHEET 2 OF 2)

CONST. 99.93'-99.06', 99.06'-99.06', 99.06'-99.93' CONTINUOUS
PLATE GIRDER SPANS x 38' CLEAR ROADWAY WITH 42" F-SHAPED PARAPETS
℄ US-81 SURVEY STA. 478+70.75

State Job No. 24428(04) Sheet No. B033

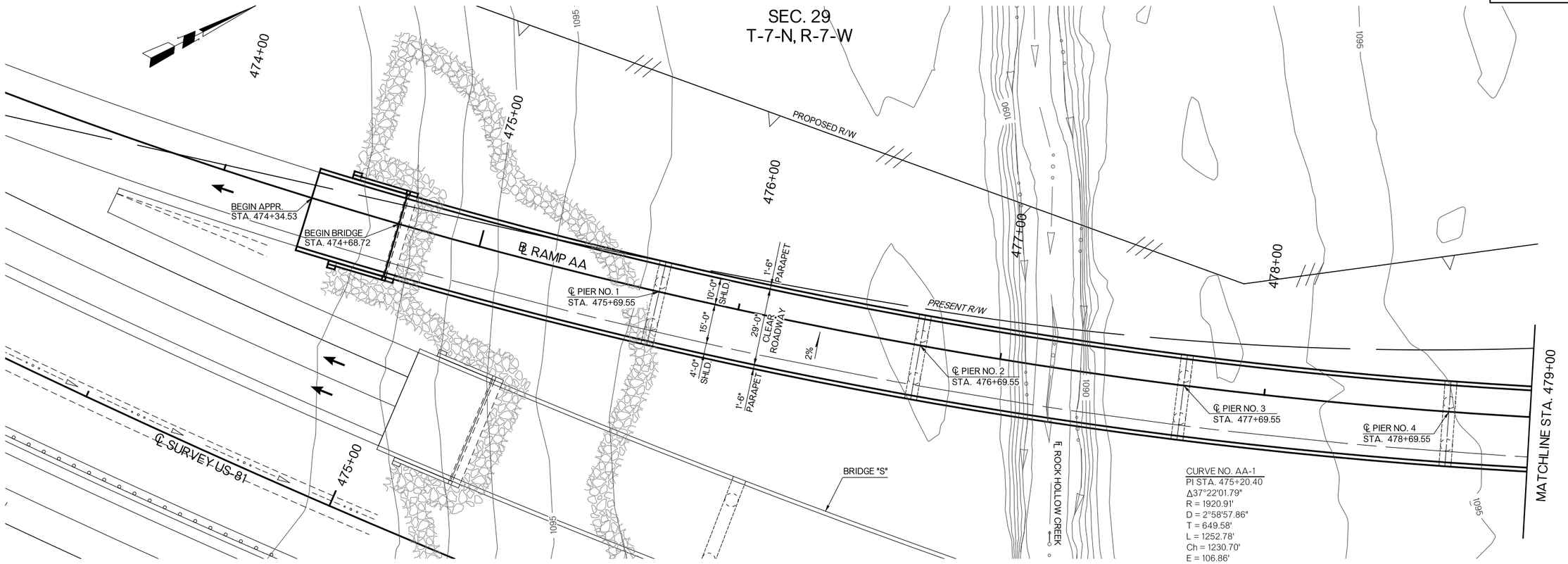
GRADY COUNTY US-81 REALIGNMENT

8/25/2017

10:44:47 AM

PROPOSED
R/W
AUGUST 2017

SEC. 29
T-7-N, R-7-W

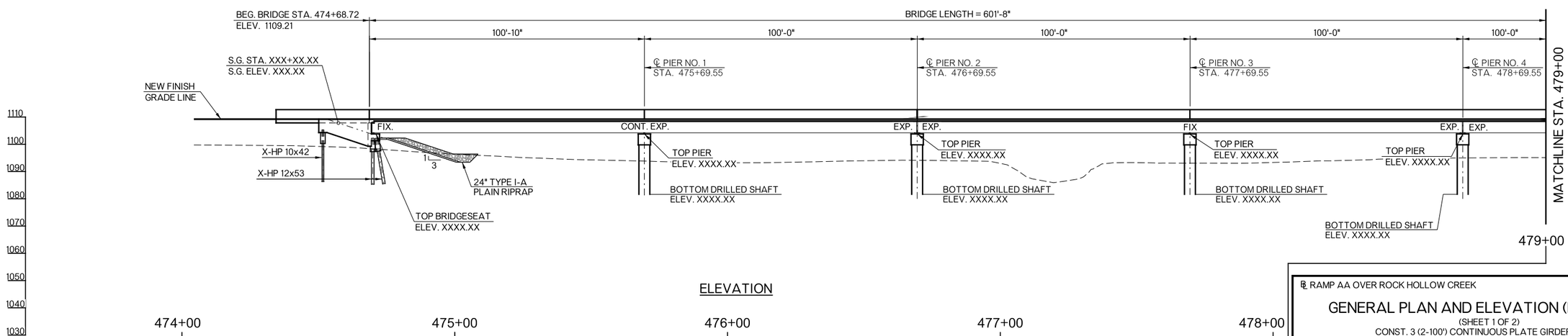


CURVE NO. AA-1
PI STA. 475+20.40
Δ37°22'01.79"
R = 1920.91'
D = 2°58'57.86"
T = 649.58'
L = 1252.78'
Ch = 1230.70'
E = 106.86'
e = 0.060
S = 0.044
V = 50MPH

PLAN

NOTE: ALL STATIONING FOLLOWS ℄ RAMP AA UNLESS NOTED OTHERWISE. ELEVATION OF BRIDGE IS SHOWN ALONG THE ℄ RAMP AA.

BENCHMARK NO.44: 307.35' RT. OF US-81 CRL A001
SET ¾" I.P. (30" LONG)
STA. 473+41.96 ELEV: 1098.80



ELEVATION

℄ RAMP AA OVER ROCK HOLLOW CREEK

GENERAL PLAN AND ELEVATION (BRIDGE "U")

(SHEET 1 OF 2)
CONST. 3 (2-100') CONTINUOUS PLATE GIRDER SPANS
x 29' CLEAR ROADWAY WITH 42" F-SHAPED PARAPETS
℄ STA. 477+69.55 ℄ RAMP AA

State Job No. 24428(04) Sheet No. B034

US-81 REALIGNMENT
GRADY COUNTY

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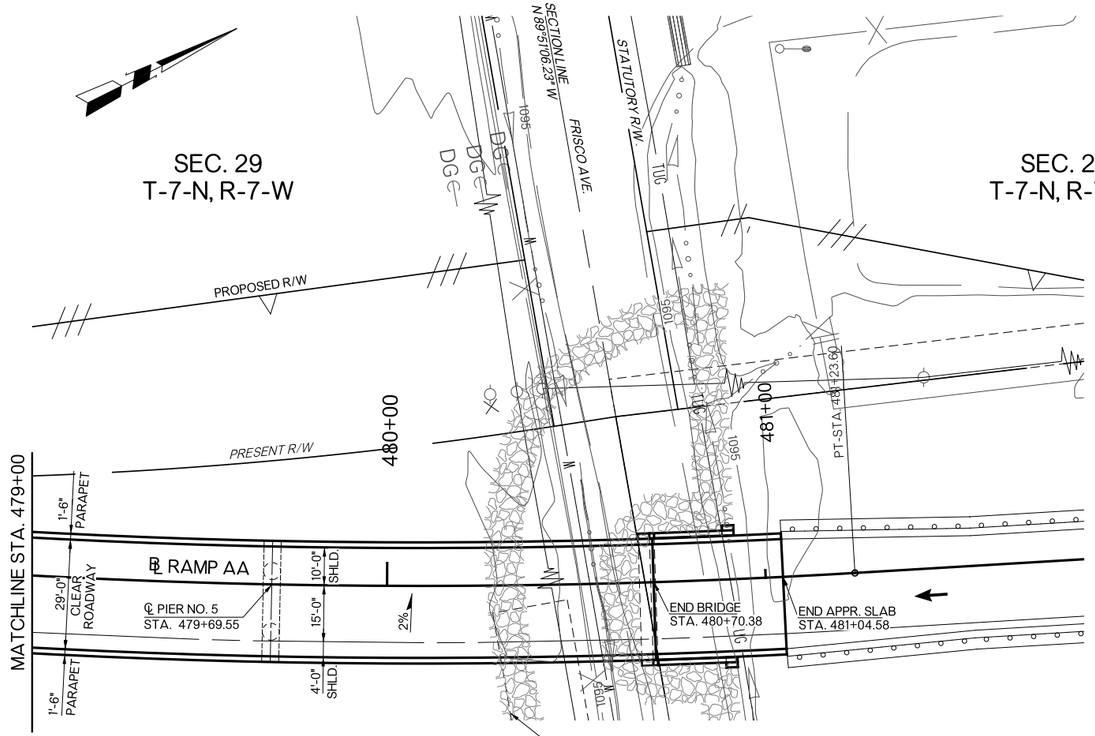
PROPOSED
R/W
AUGUST 2017



PLAN

CURVE NO. AA-1
PI STA. 475+20.40
Δ37°22'01.79"
R = 1920.91'
D = 2°58'57.86"
T = 649.58'
L = 1252.78'
Ch = 1230.70'
E = 106.86'
e = 0.060
S = 0.044
V = 50MPH

DESIGN DATA

MATERIAL

CLASS AA CONCRETE	F'C=4,000 P.S.I.
CLASS A CONCRETE	F'C=3,000 P.S.I.
REINFORCING STEEL (GRADE 60)	FY=60,000 P.S.I.
STRUCTURAL STEEL M270 (GRADE 50W)	FY=50,000 P.S.I.
STAINLESS STEEL A240 (TYPE 316)	FY=30,000 P.S.I.

LOADING

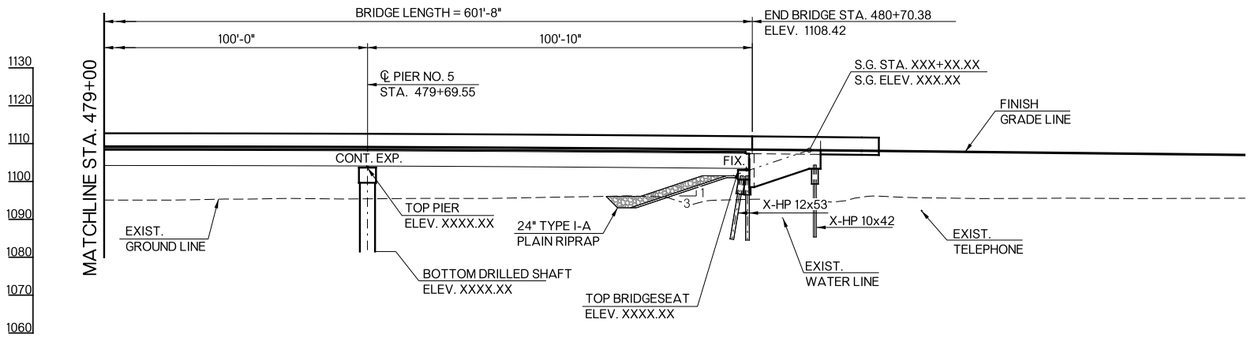
LOADING: HL-93 OR OKLAHOMA OVERLOAD TRUCK
20 P.S.F. FUTURE WEARING SURFACE
5 P.S.F. STAY-IN-PLACE FORMS

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION.
ANSI/AASHTO/AWSD D1.5 BRIDGE WELDING CODE
ANSI/AWSD D1.6 STRUCTURAL WELDING CODE-STAINLESS STEEL
LRFR OPERATING RATING RATING X.XX

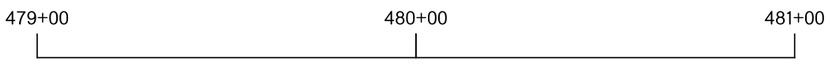
ALL ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN ON THE PLANS. IF THE REQUIRED AXIAL LOAD RESISTANCE IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE REQUIRED AXIAL LOAD RESISTANCE IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

NOTE: ALL STATIONING FOLLOWS ℄ RAMP AA UNLESS NOTED OTHERWISE.
ELEVATION OF BRIDGE IS SHOWN ALONG THE ℄ RAMP AA.

BENCHMARK NO.45: 283.55' RT. OF US-81 CRL A001
SET ¾" I.P. (30" LONG)
STA. 480+83.78 ELEV: 1093.72

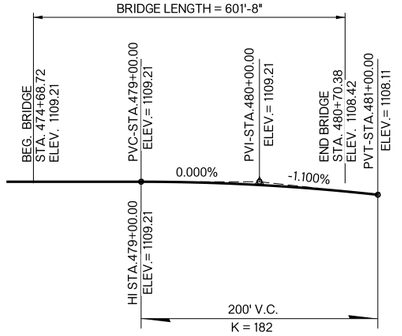


ELEVATION



HYDRAULIC DATA

DRAINAGE AREA (sq. mi.)			
TOTAL			37.54
CONTROLLED			00.00
EFFECTIVE			37.54
FREQ.	Q(cfs)	V(fps)	CHW(ft)
2	1510	4.62	1095.36
5	3210	4.76	1096.86
10	4890	5.05	1097.80
25	7700	5.76	1098.89
50	10100	6.34	1099.64
100	12500	6.87	1100.30
	QOT (cfs)	VOT (fps)	CHWOT (ft)
483	19690	8.78	1101.66
	CONTRACTION SCOUR(ft)	PIER SCOUR (ft)	TOTAL SCOUR (ft)
100	3.11	8.12	11.23



VERTICAL CURVE DATA

℄ RAMP AA OVER ROCK HOLLOW CREEK

GENERAL PLAN AND ELEVATION (BRIDGE "U")

(SHEET 2 OF 2)
CONST. 3 (2-100') CONTINUOUS PLATE GIRDER SPANS
x 29' CLEAR ROADWAY WITH 42" F-SHAPED PARAPETS
℄ STA. 477+69.55 ℄ RAMP AA

State Job No. 24428(04) Sheet No. B035

GRADY COUNTY US-81 REALIGNMENT

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8/25/2017

10:45:08 AM

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PROPOSED
R/W
AUGUST 2017

℄ SURVEY US-81

475+00 476+00 477+00 478+00 479+00

SEC. 29
T-7-N, R-7-W

BRIDGE "T"

ROCK HOLLOW CREEK

1090

PT STA. 479+42.466

MATCHLINE STA. 480+00

BEGIN APPR.
STA. 476+11.63

BEGIN BRIDGE
STA. 476+41.63

530.78'
N 37°22'00.00" E

4'-0" SHLD.
15'-0"
10'-0" SHLD.

1'-6" PARAPET

29'-0" CLEAR ROADWAY

1'-6" PARAPET

2.30%

℄ PIER NO. 1
STA. 477+42.46

℄ PIER NO. 2
STA. 478+42.46

℄ PIER NO. 3
STA. 479+42.46

℄ RAMP CC

CURVE NO. AA-1
PI STA. 475+20.40
Δ37°22'01.79"
R = 1920.91'
D = 2°58'57.86"
T = 649.58'
L = 1252.78'
Ch = 1230.70'
E = 106.86'
e = 0.060
S = 0.044
V = 50MPH

PRESENT R/W

PROPOSED R/W

NOTE: ALL STATIONING FOLLOWS ℄ RAMP CC UNLESS NOTED OTHERWISE. ELEVATION OF BRIDGE IS SHOWN ALONG THE ℄ RAMP CC.

PLAN

BENCHMARK NO.44: 307.35' RT. OF US-81 CRL A001
SET ¾" I.P. (30" LONG)
STA. 473+41.96 ELEV: 1098.80

BENCHMARK NO.45: 283.55' RT. OF US-81 CRL A001
SET ¾" I.P. (30" LONG)
STA. 480+83.78 ELEV: 1093.72

1150
1140
1130
1120
1110
1100
1090
1080
1070
1060

BEGIN BRIDGE STA. 476+41.63
F.G. ELEV.= 1116.89

BRIDGE LENGTH = 601'-8"

100'-10" 100'-0" 100'-0" 100'-0"

S.G. STA. XXX+XX.XX
S.G. ELEV. XXX.XX

NEW FINISH GRADE

EXISTING GROUND LINE

X-HP 10x42
X-HP 10x42

FIX. CONT. EXP. CONT. EXP. EXP. EXP. FIX FIX

1:3

24" TYPE I-A PLAIN RIPRAP

TOP BRIDGESEAT
ELEV. XXXX.XX

TOP PIER
ELEV. XXXX.XX

TOP DRILLED SHAFT
ELEV. XXXX.XX

BOTTOM DRILLED SHAFT
ELEV. XXXX.XX

MATCHLINE STA. 480+00

480+00

ELEVATION

475+00 476+00 477+00 478+00 479+00

RAMP BB OVER ROCK HOLLOW CREEK

GENERAL PLAN AND ELEVATION (BRIDGE "V")

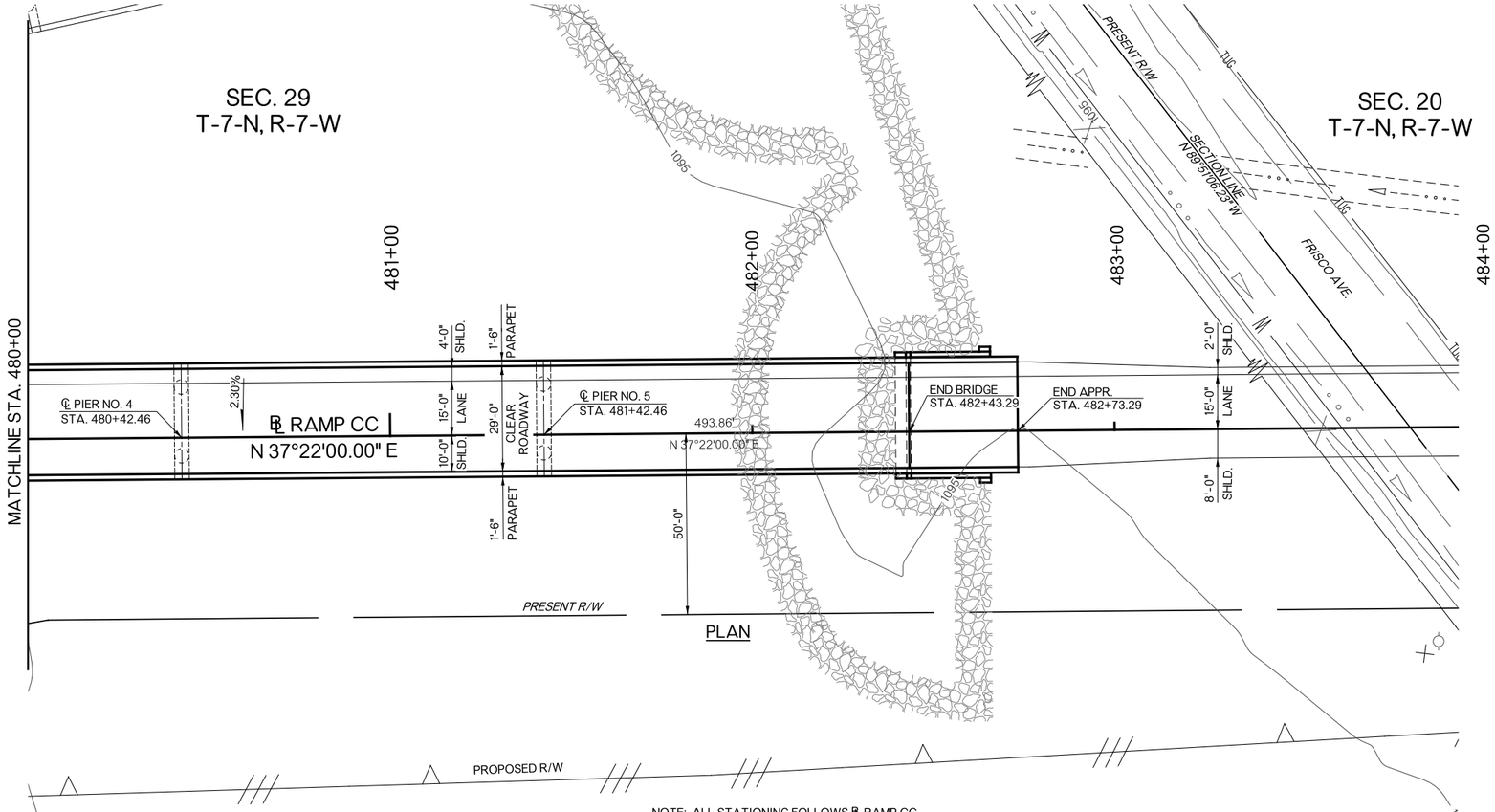
(SHEET 1 OF 2)
CONST. 6-100' TYPE IV PC BEAM SPANS
x 29' CLEAR ROADWAY WITH 42" F-SHAPED PARAPETS
℄ STA. 479+42.46 ℄ RAMP CC

State Job No. 24428(04) Sheet No. B036

US-81 REALIGNMENT

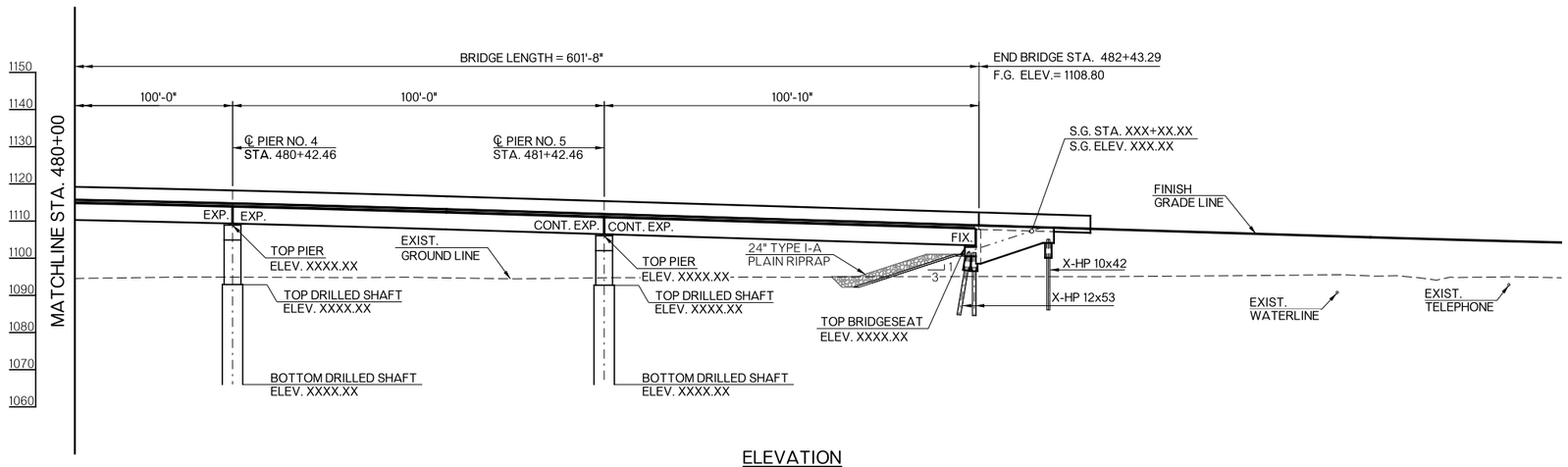
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017



B.M. #45 283.55' RT. OF US-81 CRL A001
SET ¾" I.P. (30" LONG)
STA. 480+83.78 ELEV: 1093.72

NOTE: ALL STATIONING FOLLOWS ℄ RAMP CC
UNLESS NOTED OTHERWISE.
ELEVATION OF BRIDGE IS SHOWN ALONG THE
℄ RAMP CC.



ELEVATION

DESIGN DATA

MATERIAL

CLASS AA CONCRETE	F'C=4,000 P.S.I.
CLASS A CONCRETE	F'C=3,000 P.S.I.
REINFORCING STEEL (GRADE 60)	FY=60,000 P.S.I.
STRUCTURAL STEEL M270 (GRADE 50W)	FY=50,000 P.S.I.
STAINLESS STEEL A240 (TYPE 316)	FY=30,000 P.S.I.

LOADING

LOADING: HL-93 OR OKLAHOMA OVERLOAD TRUCK
20 P.S.F. FUTURE WEARING SURFACE
5 P.S.F. STAY-IN-PLACE FORMS

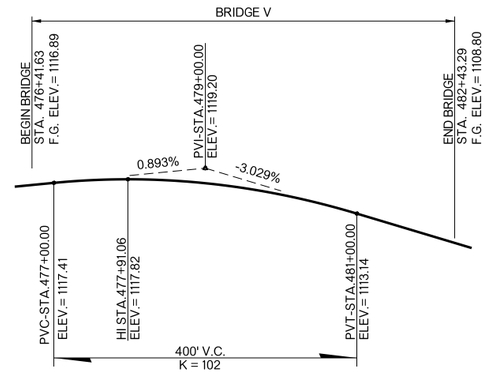
DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS,
7TH EDITION.

ANSI/AASHTO/AWSD D1.5 BRIDGE WELDING CODE
ANSI/AWSD D1.6 STRUCTURAL WELDING CODE-STAINLESS STEEL
LRFR OPERATING RATING FACTOR X.XX

ALL ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN ON THE PLANS. IF THE REQUIRED AXIAL LOAD RESISTANCE IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE REQUIRED AXIAL LOAD RESISTANCE IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

HYDRAULIC DATA

DRAINAGE AREA (sq. mi.)			
TOTAL			37.54
CONTROLLED			00.00
EFFECTIVE			37.54
FREQ.	Q(cfs)	V(fps)	CHW(ft)
2	1510	4.62	1095.36
5	3210	4.76	1096.86
10	4890	5.05	1097.80
25	7700	5.76	1098.89
50	10100	6.34	1099.64
100	12500	6.87	1100.30
	QOT (cfs)	VOT (fps)	CHWOT (ft)
483	19690	8.78	1101.66
	CONTRACTION SCOUR(ft)	PIER SCOUR (ft)	TOTAL SCOUR (ft)
100	3.11	8.12	11.23



RAMP BB OVER ROCK HOLLOW CREEK

GENERAL PLAN AND ELEVATION (BRIDGE "V")

(SHEET 2 OF 2)
CONST. 6-100' TYPE IV PC BEAM SPANS
x 29' CLEAR ROADWAY WITH 42" F-SHAPED PARAPETS
℄ STA. 479+42.46 ℄ RAMP CC

State Job No. 24428(04) Sheet No. B037

US-81 REALIGNMENT
GRADY COUNTY

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8/25/2017

10:45:31 AM

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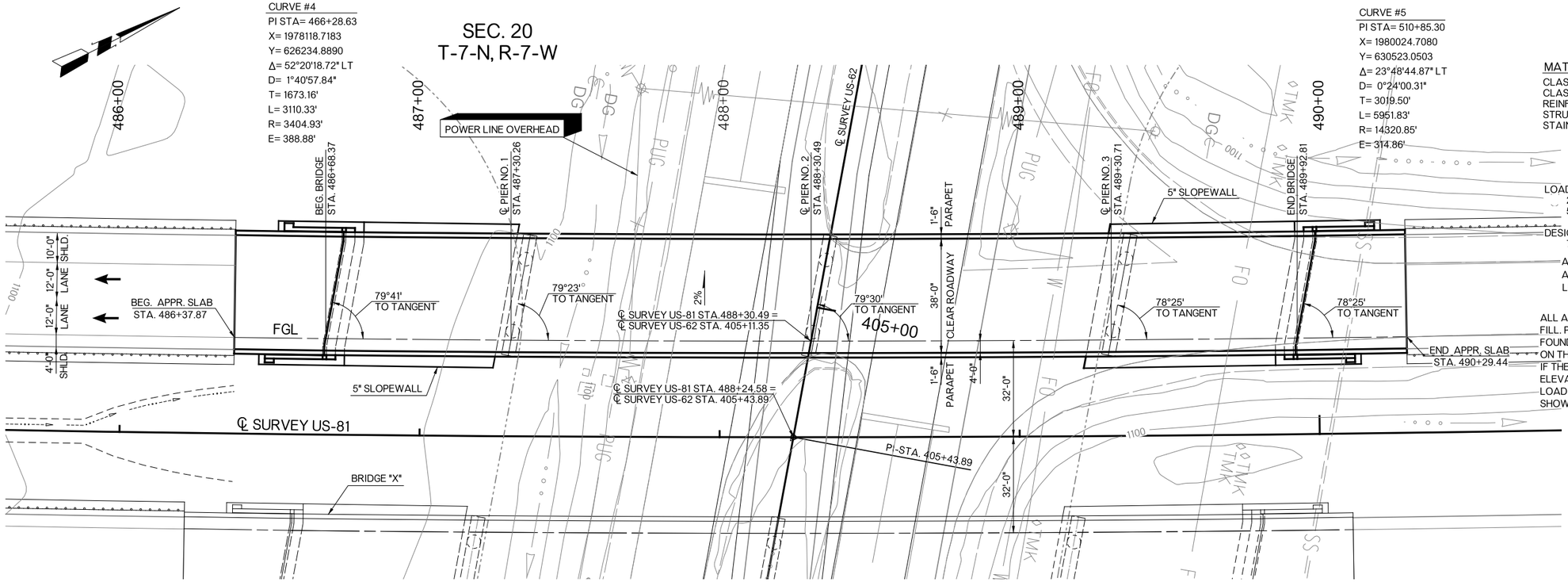
PROPOSED
R/W
AUGUST 2017

CURVE #4
PI STA= 466+28.63
X= 1978118.7183
Y= 626234.8890
Δ= 52°20'18.72" LT
D= 1°40'57.84"
T= 1673.16'
L= 3110.33'
R= 3404.93'
E= 388.88'

SEC. 20
T-7-N, R-7-W

CURVE #5
PI STA= 510+85.30
X= 1980024.7080
Y= 630523.0503
Δ= 23°48'44.87" LT
D= 0°24'00.31"
T= 3019.50'
L= 5951.83'
R= 14320.85'
E= 374.86'



DESIGN DATA

MATERIAL

CLASS AA CONCRETE	F'C=4,000 P.S.I.
CLASS A CONCRETE	F'C=3,000 P.S.I.
REINFORCING STEEL (GRADE 60)	FY=60,000 P.S.I.
STRUCTURAL STEEL M270 (GRADE 50W)	FY=50,000 P.S.I.
STAINLESS STEEL A240 (TYPE 316)	FY=30,000 P.S.I.

LOADING

LOADING: HL-93 OR OKLAHOMA OVERLOAD TRUCK
20 P.S.F. FUTURE WEARING SURFACE
5 P.S.F. STAY-IN-PLACE FORMS

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION.

ANSI/AASHTO/AWSD D1.5 BRIDGE WELDING CODE
ANSI/AWSD D1.6 STRUCTURAL WELDING CODE-STAINLESS STEEL
LRFR OPERATING RATING FACTOR X.XX

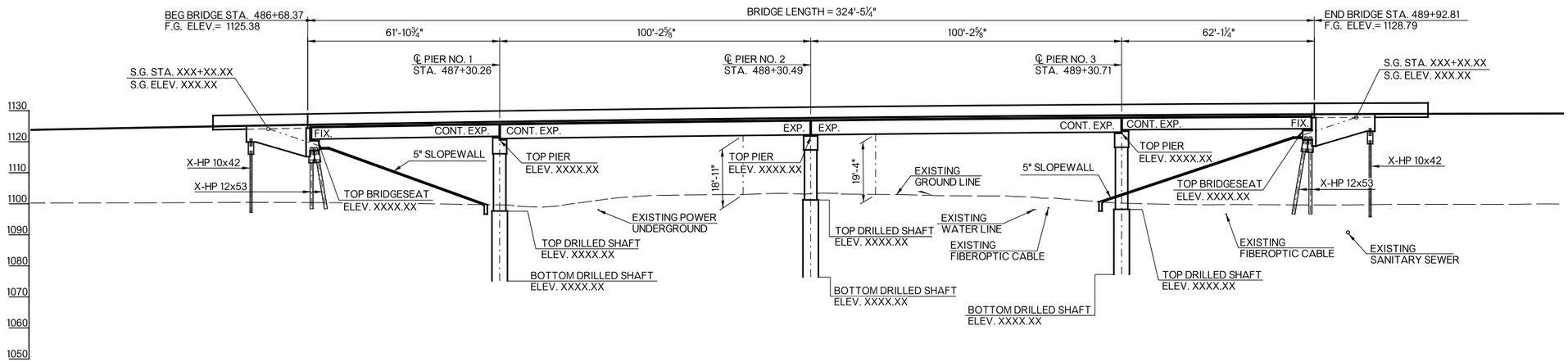
ALL ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN ON THE PLANS.
IF THE REQUIRED AXIAL LOAD RESISTANCE IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE REQUIRED AXIAL LOAD RESISTANCE IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

BENCHMARK #237 12.28 LT. OF US-81 CRL A001
ODOT STANDARD BRASS MONUMENT "G-26-399"
STA. 488+32.41 ELEV: 1103.30

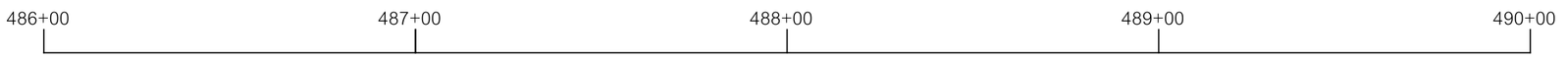
PLAN

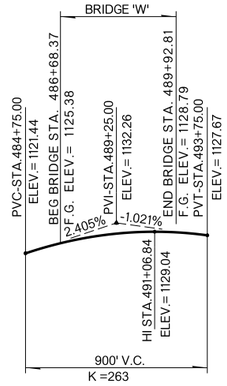
NOTE: ALL STATIONING FOLLOWS ℄ SURVEY US-81 UNLESS NOTED OTHERWISE.
ELEVATION OF BRIDGE IS SHOWN ALONG THE FINISH GRADE LINE.

BENCHMARK #48 236.05 RT. OF US-81 CRL A001
SET 3/4" I.P. (30" LONG)
STA. 496+14.08 ELEV: 1099.58



ELEVATION





VERTICAL CURVE DATA

US-81

SB US-81 OVER US-62

GENERAL PLAN AND ELEVATION (BRIDGE "W")

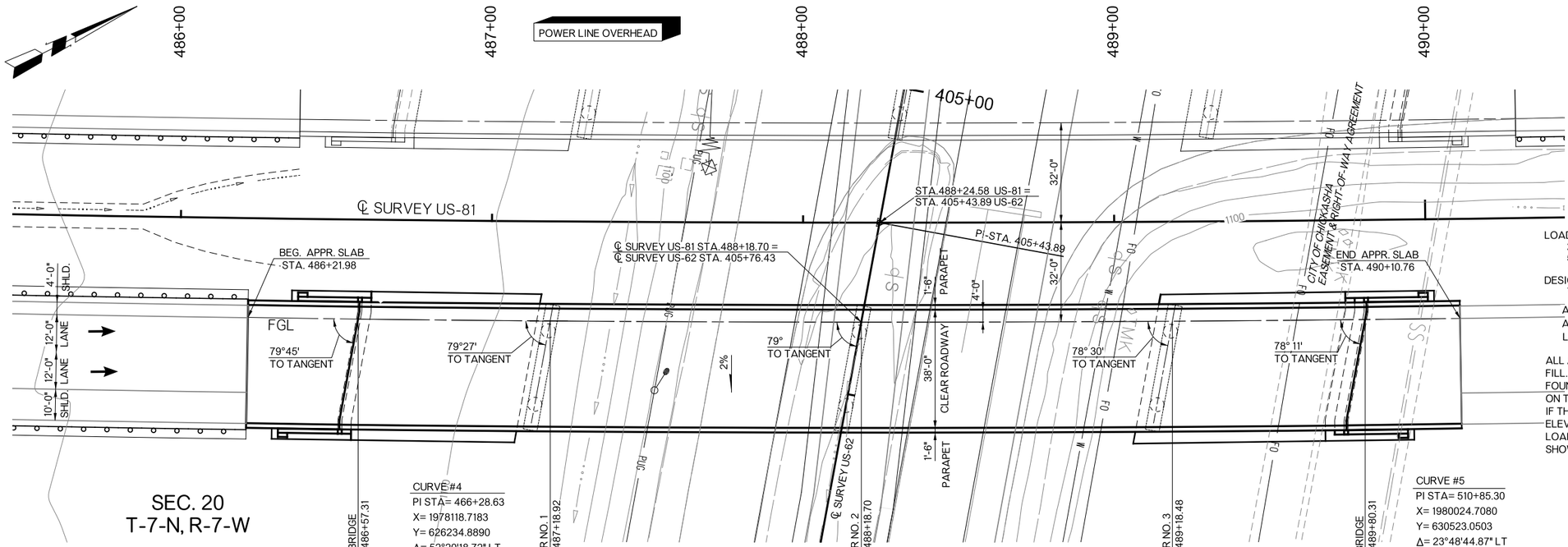
CONST. 61.90' (TYPE III), 2-100.22' (TYPE IV), 62.10' (TYPE III) PC BEAM SPANS X 38 CLR. RDY W/ F-SHAPED PARAPET SKEWED LEFT FORWARD
℄ US-81 SURVEY STA. 488+30.59

State Job No. 24428(04) Sheet No. B038

US-81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017



CURVE #4
PI STA= 466+28.63
X= 1978118.7183
Y= 626234.8890
Δ= 52°20'18.72" LT
D= 1°40'57.84"
T= 1673.16'
L= 3110.33'
R= 3404.93'
E= 388.88'

CURVE #5
PI STA= 510+85.30
X= 1980024.7080
Y= 630523.0503
Δ= 23°48'44.87" LT
D= 0°24'00.31"
T= 3019.50'
L= 5951.83'
R= 14320.85'
E= 314.86'

DESIGN DATA

MATERIAL

CLASS AA CONCRETE	F'C=4,000 P.S.I.
CLASS A CONCRETE	F'C=3,000 P.S.I.
REINFORCING STEEL (GRADE 60)	FY=60,000 P.S.I.
STRUCTURAL STEEL M270 (GRADE 50W)	FY=50,000 P.S.I.
STAINLESS STEEL A240 (TYPE 316)	FY=30,000 P.S.I.

LOADING

LOADING: HL-93 OR OKLAHOMA OVERLOAD TRUCK
20 P.S.F. FUTURE WEARING SURFACE
5 P.S.F. STAY-IN-PLACE FORMS

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION.

ANSI/AASHTO/AWSD D1.5 BRIDGE WELDING CODE
ANSI/AWSD D1.6 STRUCTURAL WELDING CODE-STAINLESS STEEL
LRFR OPERATING RATING FACTOR X.XX

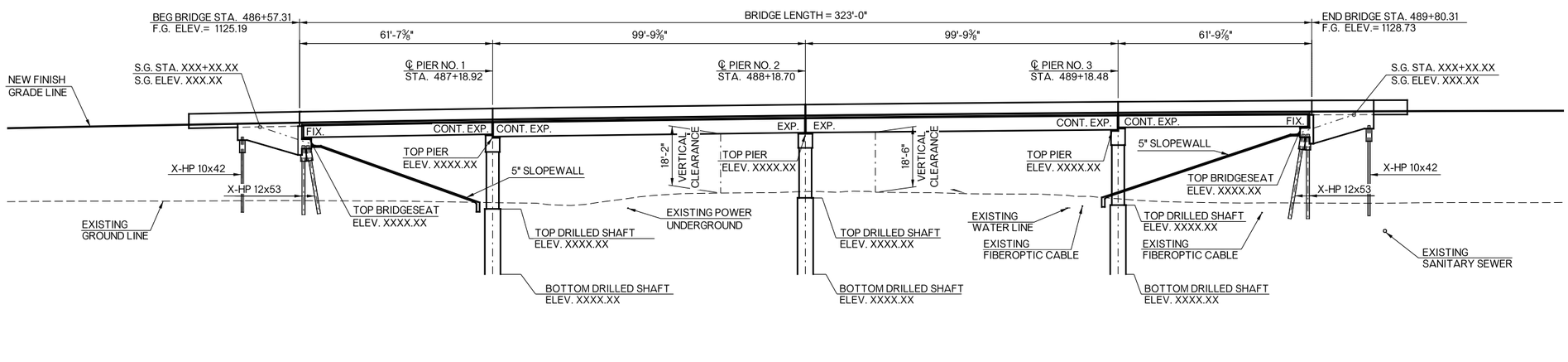
ALL ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN ON THE PLANS.
IF THE REQUIRED AXIAL LOAD RESISTANCE IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE REQUIRED AXIAL LOAD RESISTANCE IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

PLAN

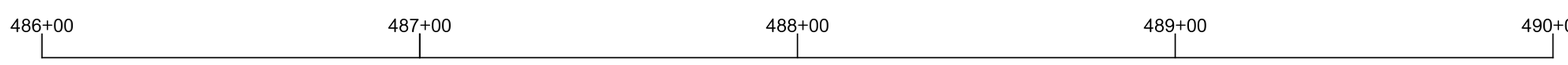
NOTE: ALL STATIONING FOLLOWS ℄ SURVEY US-81 UNLESS NOTED OTHERWISE.
ELEVATION OF BRIDGE IS SHOWN ALONG THE FINISH GRADE LINE.

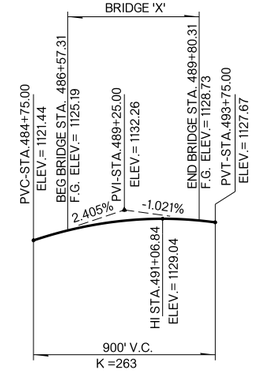
BENCHMARK #237 12.28 LT. OF US-81 CRL A001
ODOT STANDARD BRASS MONUMENT "G-26-399"
STA. 488+32.41 ELEV: 1103.30

BENCHMARK #48 236.05 RT. OF US-81 CRL A001
SET 3/4" I.P. (30" LONG)
STA. 496+14.08 ELEV: 1099.58



ELEVATION





VERTICAL CURVE DATA

US-81

NB US-81 OVER US-62

GENERAL PLAN AND ELEVATION (BRIDGE "X")

CONST. 61.63' (TYPE III), 2-99.78' (TYPE IV), 61.82' (TYPE III) PC BEAM SPANS X 38 CLR. RDY W/ F-SHAPED PARAPET SKEWED LEFT FORWARD
℄ US-81 SURVEY STA. 488+18.81

State Job No. 24428(04) Sheet No. B039

8/25/2017
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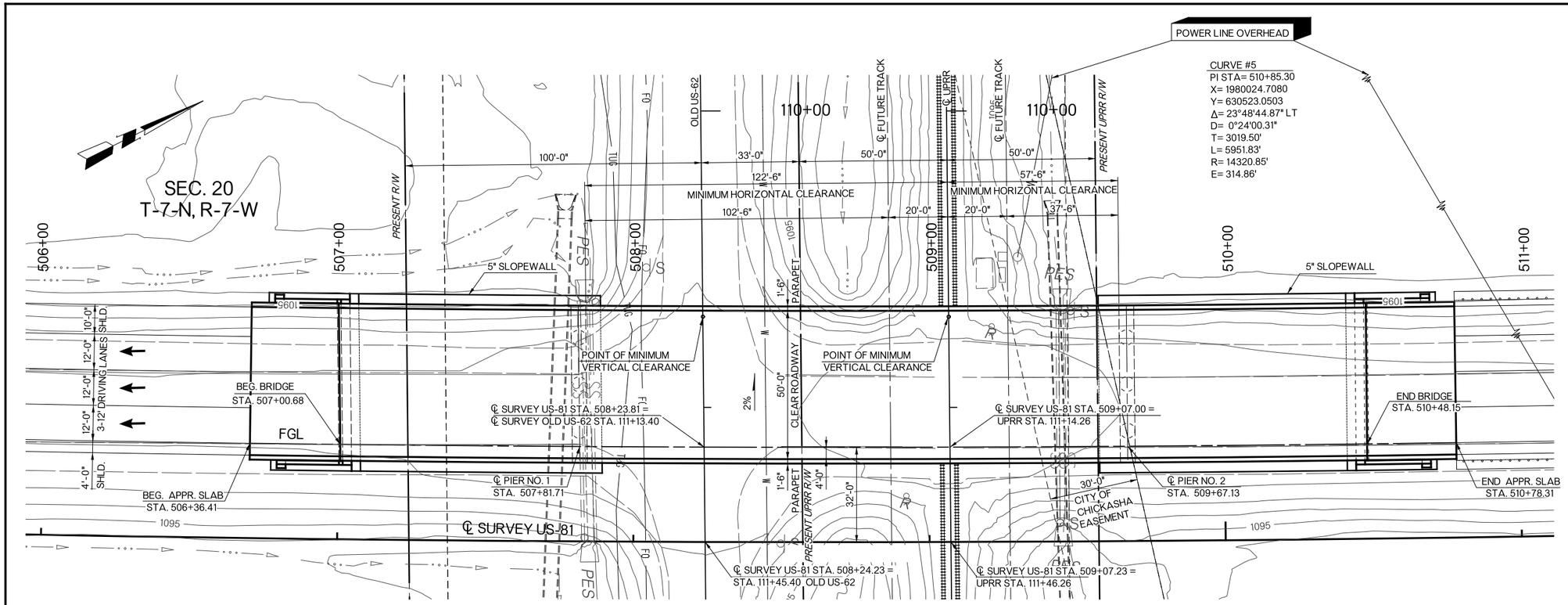
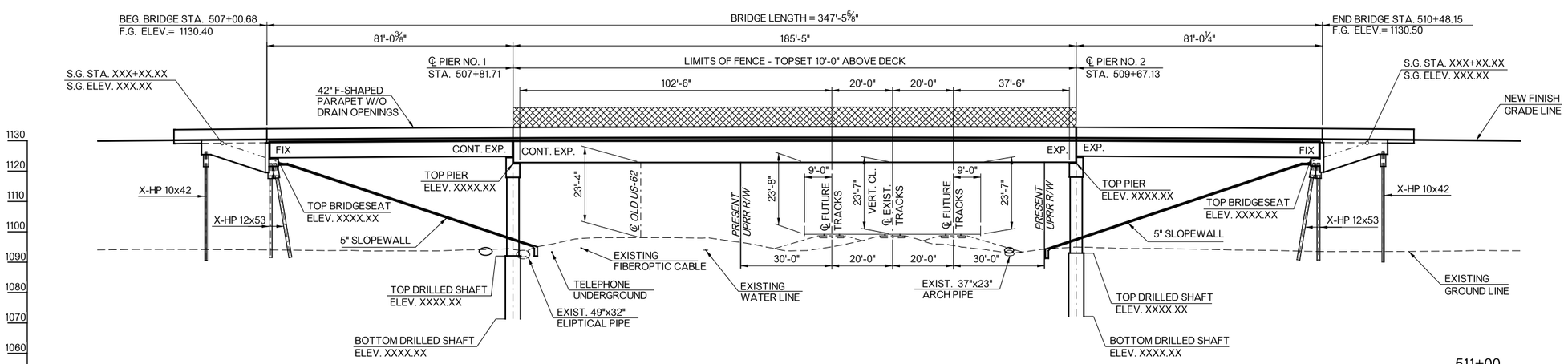


PLAN

BENCHMARK #49 227.46 RT. OF US-81 CRL A001
SET ¾" I.P. (30" LONG)
STA. 503+82.60 ELEV: 1095.87

NOTE: ALL STATIONING FOLLOWS ℄ SURVEY US-81 UNLESS NOTED OTHERWISE. ELEVATION OF BRIDGE IS SHOWN ALONG THE FINISH GRADE LINE.

BENCHMARK #50 231.34 RT. OF US-81 CRL A001
SET ¾" I.P. (30" LONG)
STA. 512+02.76 ELEV: 1092.88



ELEVATION

DESIGN DATA

PROPOSED R/W
AUGUST 2017

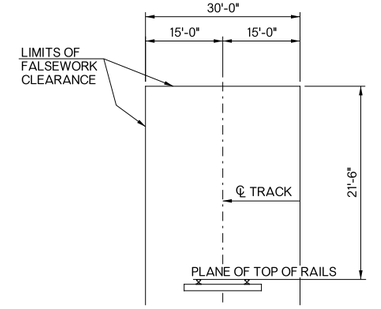
CLASS AA CONCRETE	F'C=4,000 P.S.I.
CLASS A CONCRETE	F'C=3,000 P.S.I.
REINFORCING STEEL (GRADE 60)	FY=60,000 P.S.I.
STRUCTURAL STEEL M270 (GRADE 50W)	FY=50,000 P.S.I.
STAINLESS STEEL A240 (TYPE 316)	FY=30,000 P.S.I.

LOADING

LOADING: HL-93 OR OKLAHOMA OVERLOAD TRUCK
20 P.S.F. FUTURE WEARING SURFACE
5 P.S.F. STAY-IN-PLACE FORMS

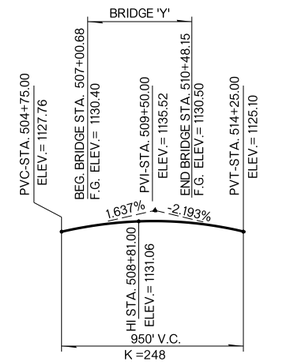
DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION.
ANSI/AASHTO/AWSD D1.5 BRIDGE WELDING CODE
ANSI/AWSD D1.6 STRUCTURAL WELDING CODE-STAINLESS STEEL
LRFR OPERATING RATING FACTOR X.XX

ALL ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN ON THE PLANS.
IF THE REQUIRED AXIAL LOAD RESISTANCE IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE REQUIRED AXIAL LOAD RESISTANCE IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY.



RAILROAD FALSEWORK CLEARANCE DIAGRAM

NOTE:
CLEARANCE OF FALSEWORK IS REQUIRED BY RAILROAD FOR OPERATION DURING CONSTRUCTION. NO CONSTRUCTION ACTIVITIES OR OTHER OBSTRUCTIONS SHALL BE PLACED WITHIN THE LIMITS SHOWN. HORIZONTAL DIMENSIONS SHOWN ARE MEASURED AT RIGHT ANGLES TO THE ℄ OF RAILROAD TRACKS. ALL MEASUREMENTS SHOWN ARE PERPENDICULAR TO OR PARALLEL WITH PLANE OF TOP OF RAILS.



VERTICAL CURVE DATA

US-81

SB US-81 OVER OLD US-62 AND UP RAILROAD

GENERAL PLAN AND ELEVATION (BRIDGE "Y")

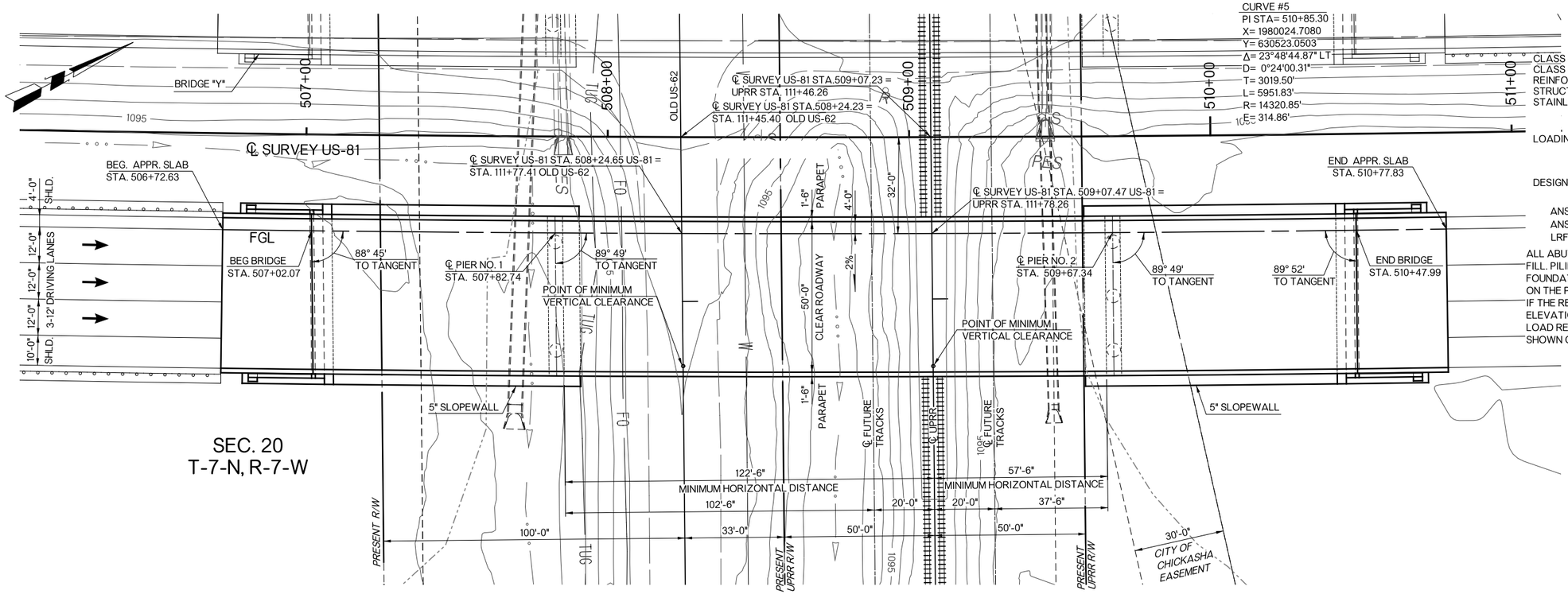
CONST. 81.03'-185.42'-81.02 ℄ GIRDER SPANS X 50 CLR. RDY
W/42" F-SHAPED PARAPET W/O DRAIN OPENINGS
℄ US-81 SURVEY STA. 508+74.42

State Job No. 24428(04) Sheet No. B040

US-81 REALIGNMENT
GRADY COUNTY

8/25/2017
10:46:23 AM
F:\2016\1001-1500\016-1182\40-Design\Microstation\US-81\DGN\S\BRIDGE Z\24428_BRZ_GPE_01.dgn

PROPOSED R/W
AUGUST 2017



SEC. 20
T-7-N, R-7-W

PLAN

DESIGN DATA

CURVE #5
PI STA= 510+85.30
X= 1980024.7080
Y= 630523.0503
Δ= 23°48'44.87" LT
D= 0°24'00.31"
T= 3019.50'
L= 5951.83'
R= 14320.85'
E= 314.86'

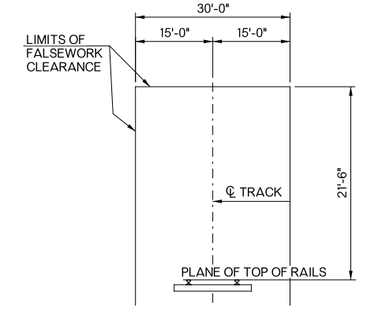
CLASS AA CONCRETE	F'C=4,000 P.S.I.
CLASS A CONCRETE	F'C=3,000 P.S.I.
REINFORCING STEEL (GRADE 60)	FY=60,000 P.S.I.
STRUCTURAL STEEL M270 (GRADE 50W)	FY=50,000 P.S.I.
STAINLESS STEEL A240 (TYPE 316)	FY=30,000 P.S.I.

LOADING

LOADING: HL-93 OR OKLAHOMA OVERLOAD TRUCK
20 P.S.F. FUTURE WEARING SURFACE
5 P.S.F. STAY-IN-PLACE FORMS

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION.
ANSI/AASHTO/AWSD D1.5 BRIDGE WELDING CODE
ANSI/AWSD D1.6 STRUCTURAL WELDING CODE-STAINLESS STEEL
LRFR OPERATING RATING FACTOR X.XX

ALL ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN ON THE PLANS.
IF THE REQUIRED AXIAL LOAD RESISTANCE IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE REQUIRED AXIAL LOAD RESISTANCE IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY.



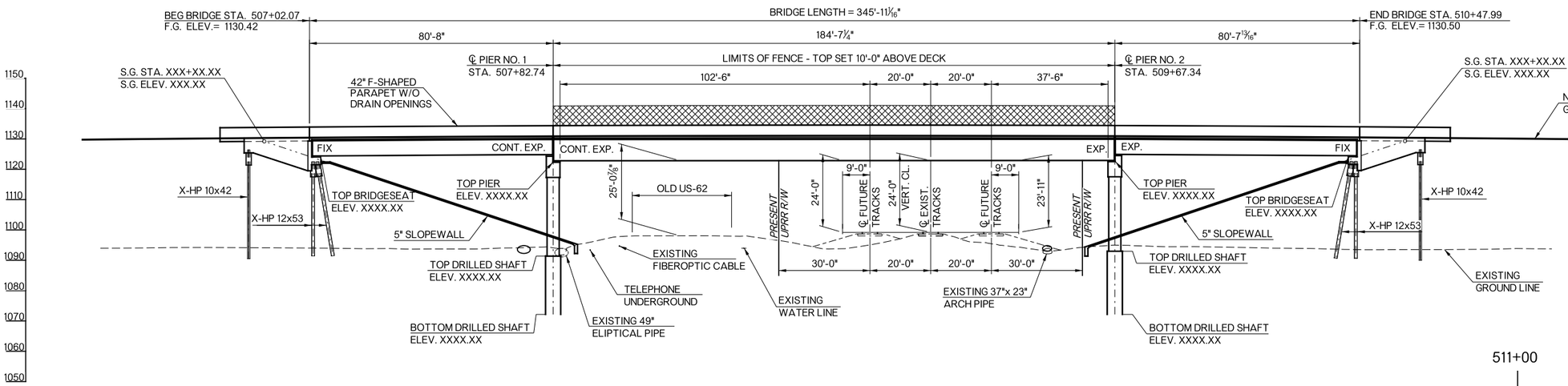
RAILROAD FALSEWORK CLEARANCE DIAGRAM

NOTE:
CLEARANCE OF FALSEWORK IS REQUIRED BY RAILROAD FOR OPERATION DURING CONSTRUCTION. NO CONSTRUCTION ACTIVITIES OR OTHER OBSTRUCTIONS SHALL BE PLACED WITHIN THE LIMITS SHOWN. HORIZONTAL DIMENSIONS SHOWN ARE MEASURED AT RIGHT ANGLES TO THE ℄ OF RAILROAD TRACKS. ALL MEASUREMENTS SHOWN ARE PERPENDICULAR TO OR PARALLEL WITH PLANE OF TOP OF RAILS.

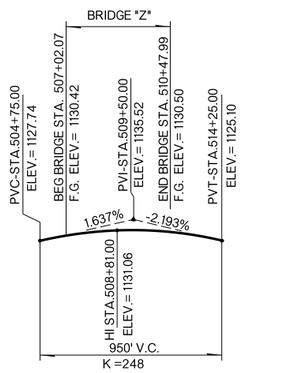
NOTE: ALL STATIONING FOLLOWS ℄ SURVEY US-81 UNLESS NOTED OTHERWISE.
ELEVATION OF BRIDGE IS SHOWN ALONG THE FINISH GRADE LINE.

BENCHMARK #49 227.46 RT. OF US-81 CRL A001
SET ¾" I.P. (30" LONG)
STA. 503+82.60 ELEV: 1095.87

BENCHMARK #50 231.34 RT. OF US-81 CRL A001
SET ¾" I.P. (30" LONG)
STA. 512+02.76 ELEV: 1092.88



ELEVATION



VERTICAL CURVE DATA

US-81

NB US-81 OVER OLD US-62 AND UP RAILROAD

GENERAL PLAN AND ELEVATION (BRIDGE "Z")

CONST. 80.67'-184.69'-80.65' ℄ GIRDER SPANS X 50 CLR. RDY
W/ 42" F-SHAPED PARAPET W/O DRAIN OPENINGS
℄ US-81 SURVEY STA. 508+75.03

State Job No. 24428(04) Sheet No. B041

US-81 REALIGNMENT
GRADY COUNTY

SEC. 20 T6N R7W

PROPOSED
R/W
AUGUST 2017

0 100′ 200′

EW 141
N 89°55'59.02" W

90+00

BOP: 30+00.00

30+00

PI: 32+71.36

NS 283 $
N00°03'22.08"W

A001
N00°04'06.40"W

95+00

POB STA: 439+99.71 A001
= POT STA: 33+00.00 ℄ SURVEY OLD FREDS RD.

35+00

EOP: 36+00.00

EW 141
S 89°55'15.68" W

SEC. 21 T6N R7W

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A004	A007	A011	A015	A019
A002	A005	A008	A013	A017	
A003	A006	A009	A014	A018	

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R001

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED R/W
AUGUST 2017

SEC. 20 T6N R7W

0 100′ 200′

EW 140.5
N 89°53'35.30" W

BOP: 28+00.00
CRL EW 140.5

CRL EW 140.5

100+00 | 105+00 | 110+00 | 115+00 | 120+00 | 125+00

30+00

S89°47'08.08"E
900.00'

A010

POT STA: 113+75.27 A001
= POT STA: 33+00.00 A010

POT STA: 33+00.00 CRL EW 140.5
= POT STA: 113+66.44 A001

PC: 124+31.69

95+00

2652.85'
N 00°03'22.08" W

NS283

NS 283.9'
N00°03'10.78"W

N00°04'02.66"W

A003

A001
N00°04'06.40"W

N00°04'06.40"W

BOP STA. 1097+73.99 A002
= POT STA: 102+35.08 A001, 43.68 LT.

44.71'

BOP STA: 96+88.43 ℄ RAMP C
= POT STA: 101+50.00 A001, 44.71 LT.

300.44'
N03°02'19.85"E

61'

PI: 99+88.87

490.05'
N00°45'00.04"E

℄ RAMP C

88'

PI: 104+78.92

550.98'
N00°04'06.40"W

A002
N00°03'01.95"W

PC: 107+80.13

POT STA: 33+46.77 CRL EW 140.5
= POT STA: 1109+05.17 A002

POT STA: 33+68.00 CRL EW 140.5
= POT STA: 109+05.11 ℄ RAMP C

68'

PC: 110+29.90

A002

C-1

TS: 1117+62.39

35+00

S89°47'08.08"E
900.00'

EOP: 37+00.00
CRL EW 140.5

37+00

CURVE DATA
CURVE NO. C-1
P.I. STA. 120+46.22
Δ= 047°07'58.16"
R = 2330.0000'
D = 002°27'32.57"
T = 1016.3257'
L = 1916.7114'
Ch = 1863.1228'
E = 212.0106'
e = 0.06'/'
S = 0.05'/'
V = 60 mi/h

EW 140.5
S 89°55'12.12" W

SEC. 21 T6N R7W

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A004	A007	A011	A015	A019
A002	A005	A008	A013	A017	
A003	A006	A009	A014	A018	

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R002

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED R/W
AUGUST 2017

SEC. 20 T6N R7W

SEC. 17 T6N R7W

0 100′ 200′

CURVE DATA
CURVE NO. C-1
P.I. STA. 120+46.22
Δ= 047°07'58.16"
R = 2330.0000'
D = 002°27'32.57"
T = 1016.3257'
L = 1916.7114'
Ch = 1863.1228'
E = 212.0106'
e = 0.06'/'
S = 0.05'/'
V = 60 mi/h

CURVE DATA
CURVE NO. A-1
P.I. STA. 137+46.08
Δ= 014°01'06.35"
R = 5661.5801'
D = 001°00'43.24"
T = 696.0790'
L = 1385.2062'
Ch = 1381.7537'
E = 42.6302'
e = 0.06'/'
S = 0.034'/'
V = 70 mi/h

CURVE DATA
CURVE NO. A-2
P.I. STA. 140+77.40
Δ= 249°53'03.76"
R = 250.0000'
D = 022°55'05.92"
T = 357.8048'
L = 1090.3263'
Ch = 409.8652'
E = 686.4909'
e = 0.06'/'
S = 0.06'/'
V = 30 mi/h

CURVE DATA
CURVE NO. B-1
P.I. STA. 245+72.52
Δ= 010°23'39.28"
R = 1660.0000'
D = 003°27'05.59"
T = 150.9878'
L = 301.1469'
Ch = 300.7341'
E = 6.8525'
e = 0.06'/'
S = 0.048'/'
V = 50 mi/h

CURVE DATA
CURVE NO. B-2
P.I. STA. 254+13.01
Δ= 044°10'35.95"
R = 1070.0000'
D = 005°21'17.08"
T = 434.2280'
L = 825.0000'
Ch = 804.7159'
E = 84.7528'
e = 0.06'/'
S = 0.058'/'
V = 50 mi/h

CURVE DATA
CURVE NO. D-1
P.I. STA. 240+15.52
Δ= 094°01'15.99"
R = 1450.0000'
D = 003°57'05.16"
T = 1555.5090'
L = 2379.4180'
Ch = 2121.2900'
E = 676.5249'
e = 0.06'/'
S = 0.052'/'
V = 50 mi/h

CURVE DATA
CURVE NO. 16TH-1
P.I. STA. 31+90.97
Δ= 110°35'12.32"
R = 766.0000'
D = 007°28'47.52"
T = 1105.9713'
L = 1478.4589'
Ch = 1259.4239'
E = 579.3359'
e = 0.06'/'
S = 0.04'/'
V = 30 mi/h

CURVE DATA
CURVE NO. A-1 EXT.
P.I. STA. 245+52.42
Δ= 032°44'07.81"
R = 267.0000'
D = 021°27'32.74"
T = 78.4191'
L = 152.5484'
Ch = 150.4820'
E = 11.2778'
e = 0.06'/'
S = 0.06'/'
V = 30 mi/h

BOP STA: 242+00.00 ℄ RAMP B
= POT STA: 33+89.46 A011

BOP STA: 242+00.00 ℄ RAMP A EXT
= POT STA: 34+06.46 A011

N00°09'15.57"W
221.53'

274.00'
N00°09'15.57"W

BOP STA. 127+53.04 ℄ RAMP A
= POT STA. 127+50.00 A001, 56' RT.

296.96'
N07°03'59.86"W

POC STA: 140+56.32 ℄ RAMP A
= POT STA: 40+26.51 A011

POT STA: 40+97.36 A011
= POC STA: 140+48.44 A001

POT STA: 159+42.45 ℄ RAMP A
= POC STA: 140+73.43 A001

PI STA: 42+96.60 A011

PI: 161+00.00

EOP STA. 164+00.22 ℄ RAMP A
= POT STA. 45+47.93 A011 12' RT.

BOP STA. 126+15.39 ℄ RAMP F
= POT STA. 48+99.98 A011, 12' RT.

BOP STA. 250+00.00 ℄ RAMP E
= POT STA. 49+99.96 A011, 12' LT.

560.58'
N29°45'05.42"W

EOP STA. 38+00.00 CRL SURVEY NS 283 (16TH AVE)

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A004	A007	A011	A015	A019
A002	A005	A008	A013	A017	
A003	A006	A009	A014	A018	

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R003

US 81 REALIGNMENT
GRADY COUNTY

SEC. 21 T6N R7W

SEC. 16 T6N R7W

PROPOSED R/W
AUGUST 2017

SEC. 17 T6N R7W

CURVE DATA	CURVE DATA	CURVE DATA	CURVE DATA	CURVE DATA	CURVE DATA	CURVE DATA
CURVE NO. B-2	CURVE NO. B-3	CURVE NO. D-2	CURVE NO. NB CD-1	CURVE NO. NB CD-2	CURVE NO. SB CD-1	CURVE NO. SB CD-2
P.I. STA. 254+13.01	P.I. STA. 260+88.29	P.I. STA. 259+26.44	P.I. STA. 264+81.53	P.I. STA. 270+71.68	P.I. STA. 264+05.84	P.I. STA. 266+11.36
Δ= 044°10'35.95"	Δ= 005°45'13.21"	Δ= 010°22'36.62"	Δ= 000°37'23.37"	Δ= 004°07'33.00"	Δ= 000°40'57.00"	Δ= 006°41'18.66"
R = 1070.0000'	R = 5661.5801'	R = 5797.5801'	R = 5797.5801'	R = 6200.0000'	R = 5661.5801'	R = 2940.0000'
D = 005°21'17.08"	D = 001°00'43.24"	D = 000°59'17.77"	D = 000°59'17.77"	D = 000°55'26.85"	D = 001°00'43.24"	D = 001°56'55.81"
T = 434.2280'	T = 284.5084'	T = 526.4396'	T = 31.5280'	T = 223.3256'	T = 33.7204'	T = 171.7980'
L = 825.0000'	L = 568.5386'	L = 1049.9997'	L = 63.0553'	L = 446.4583'	L = 67.4400'	L = 343.2057'
Ch = 804.7159'	Ch = 568.2998'	Ch = 1048.5653'	Ch = 63.0550'	Ch = 446.3618'	Ch = 67.4396'	Ch = 343.0108'
E = 84.7528'	E = 7.1441'	E = 23.8522'	E = 0.0857'	E = 4.0208'	E = 0.1004'	E = 5.0152'
e = 0.06'/'	e = 0.06'/'	e = 0.06'/'	e = 0.06'/'	e =0.06'/'	e =0.06'/'	e =0.06'/'
S = 0.058'/'	S = 0.034'/'	S = 0.034'/'	S = 0.034'/'	S =RC	S =0.034'/'	S =0.034'/'
V = 50 mi/h	V = 70 mi/h	V = 70 mi/h	V = 70 mi/h	V = 50 mi/h	V = 70 mi/h	V = 50 mi/h

CURVE DATA	CURVE DATA	CURVE DATA
CURVE NO. SB CD-3	CURVE NO. G-1	CURVE NO. K-1
P.I. STA. 271+66.51	P.I. STA. 1194+92.65	P.I. STA. 3195+77.25
Δ= 002°11'02.70"	Δ= 087°03'00.25"	Δ= 086°08'37.79"
R = 7870.0000'	R = 1670.0000'	R = 1940.0000'
D = 000°43'40.90"	D = 003°25'51.19"	D = 002°57'12.21"
T = 150.0182'	T = 1586.1582'	T = 1813.6370'
L = 300.0000'	L = 2537.2483'	L = 2916.7773'
Ch = 299.9818'	Ch = 2300.1627'	Ch = 2649.7132'
E = 1.4297'	E = 633.2147'	E = 715.7257'
e =0.06'/'	e = 0.06'/'	e = 0.06'/'
S =RC	S = 0.048'/'	S = 0.044'/'
V = 50 mi/h	V = 50 mi/h	V = 50 mi/h

NS:282.5
2655.60'
N1°06'54.24"E
EW:139.5
S 89°34'13.03"W
NS:282.5
2656.02'
N1°07'02.57"E
EW:139.5
S 89°53'28.73"W
EW:139.5

255+00 260+00 265+00 270+00 1175+00 1180+00 1185+00
160+00 175+00 180+00
3175+00 3180+00
155+00 185+00

PCC: 258+03.78
EOP PT STA: 263+72.32 ℄ RAMP B
= BOP PC STA: 263+72.12 ℄ US 81 SB CD RD. 1
= POC STA: 163+93.89 A001, 68.00' RT.
PCC: 264+39.56
PT: 267+82.77
PT: 269+12.58
PC: 270+16.49
EOP PT STA: 273+16.49 ℄ US 81 SB CD RD. 1
= BOP STA: 1173+39.86 ℄ RAMP G
= POT STA: 1173+44.37 A001, 93.17' RT.
PI: 1176+35.63
PC: 1179+06.50

B-2 ℄ RAMP B
B-3
SB CD-1
SB CD-2
233.73'
N47°03'41.11"W
℄ US 81 SB CD RD. 1
SB CD-3
295.77'
N46°37'15.91"W
270.87'
N44°52'38.41"W
G-1 ℄ RAMP G
A001
68'
93.17'
102.17'

D-2 ℄ RAMP D
NB CD-1
335.30'
N40°45'05.40"W
NB CD-2
℄ US 81 NB CD RD. 1
N44°52'38.41"W
24.03'
200.20'
N42°18'02.75"W
263.61'
N44°52'38.41"W
K-1 ℄ RAMP K

EOP PT STA: 264+50.00 ℄ RAMP D
= BOP PC STA: 264+50.00 ℄ US 81 NB CD RD. 1
= POC STA: 164+37.68 A001, 68.00' LT.
PT: 265+13.06
PC: 268+48.35
PT: 272+94.81
EOP STA: 273+18.85 ℄ US 81 NB CD RD. 1
= BOP STA: 3172+99.80 ℄ RAMP K
= POT STA: 173+00.00 A001, 93.17' LT.
PI: 3175+00.00
PC: 3177+63.61

0 100' 200'

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A004	A007	A011	A015	A019
A002	A005	A008	A013	A017	
A003	A006	A009	A014	A018	

SEC. 16 T6N R7W

SEC. 17 T6N R7W

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R004

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED R/W
AUGUST 2017

SEC. 17 T6N R7W

SEC. 18 T6N R7W

<u>CURVE DATA</u>
CURVE NO. G-1
P.I. STA. 1194+92.65
Δ= 087°03'00.25"
R = 1670.0000'
D = 003°25'51.19"
T = 1586.1582'
L = 2537.2483'
Ch = 2300.1627'
E = 633.2147'
e = 0.06'/'
S = 0.048'/'
V = 50 mi/h

<u>CURVE DATA</u>
CURVE NO. H-1
P.I. STA. 192+32.12
Δ= 268°32'33.78"
R = 250.0000'
D = 022°55'05.92"
T = 256.4409'
L = 1171.7386'
Ch = 358.0209'
E = 608.1367'
e = 0.06'/'
S = 0.06'/'
V = 30 mi/h

<u>CURVE DATA</u>
CURVE NO. H-2
P.I. STA. 208+39.69
Δ= 001°11'25.77"
R = 17266.4007'
D = 000°19'54.60"
T = 179.3871'
L = 358.7612'
Ch = 358.7548'
E = 0.9318'
e = 0.06'/'
S = NC
V = 30 mi/h

<u>CURVE DATA</u>
CURVE NO. J-1
P.I. STA. 2202+07.97
Δ= 093°28'40.68"
R = 1700.0000'
D = 003°22'13.22"
T = 1806.4572'
L = 2773.5471'
Ch = 2476.0133'
E = 780.5821'
e = 0.06'/'
S = 0.048'/'
V = 50 mi/h

<u>CURVE DATA</u>
CURVE NO. I-1
P.I. STA. 317+04.12
Δ= 001°09'28.41"
R = 17111.0673'
D = 000°20'05.45"
T = 172.9050'
L = 345.7982'
Ch = 345.7923'
E = 0.8736'
e = 0.06'/'
S = NC
V = 30 mi/h

<u>CURVE DATA</u>
CURVE NO. I-2
P.I. STA. 316+33.54
Δ= 271°30'50.17"
R = 250.0000'
D = 022°55'05.92"
T = 243.4800'
L = 1184.7030'
Ch = 348.8517'
E = 598.9735'
e = 0.06'/'
S = 0.06'/'
V = 30 mi/h

<u>CURVE DATA</u>
CURVE NO. L-2
P.I. STA. 211+21.25
Δ= 273°45'49.30"
R = 250.0000'
D = 022°55'05.92"
T = 234.0945'
L = 1194.5195'
Ch = 341.7525'
E = 592.4912'
e = 0.06'/'
S = 0.06'/'
V = 30 mi/h

<u>CURVE DATA</u>
CURVE NO. K-1
P.I. STA. 3195+77.25
Δ= 086°08'37.79"
R = 1940.0000'
D = 002°57'12.21"
T = 1813.6370'
L = 2916.7773'
Ch = 2649.7132'
E = 715.7257'
e = 0.06'/'
S = 0.044'/'
V = 50 mi/h

<u>CURVE DATA</u>
CURVE NO. L-1
P.I. STA. 211+87.21
Δ= 001°06'57.30"
R = 17266.4007'
D = 000°19'54.60"
T = 168.1492'
L = 336.2878'
Ch = 336.2825'
E = 0.8187'
e = 0.06'/'
S = NC
V = 30 mi/h

<u>CURVE DATA</u>
CURVE NO. M-1
P.I. STA. 297+32.93
Δ= 266°08'37.79"
R = 250.0000'
D = 022°55'05.92"
T = 267.4184'
L = 1161.2715'
Ch = 365.2486'
E = 616.0774'
e = 0.06'/'
S = 0.06'/'
V = 30 mi/h

<u>CURVE DATA</u>
CURVE NO. M-2
P.I. STA. 313+54.38
Δ= 001°11'03.63"
R = 17111.0672'
D = 000°20'05.45"
T = 176.8547'
L = 353.6968'
Ch = 353.6905'
E = 0.9139'
e =0.06'/'
S = NC
V = 30 mi/h

<u>CURVE DATA</u>
CURVE NO. N-1
P.I. STA. 4200+17.46
Δ= 093°51'48.47"
R = 1700.0000'
D = 003°22'13.22"
T = 1818.6774'
L = 2784.9849'
Ch = 2483.8379'
E = 789.4954'
e = 0.06'/'
S = 0.048'/'
V = 50 mi/h

SEC. 8 T6N R7W

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A004	A007	A011	A015	A019
A002	A005	A008	A013	A017	
A003	A006	A009	A014	A018	

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R005

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED R/W
AUGUST 2017

SEC. 18 T6N R7W

SEC. 7 T6N R7W

E-W 139

26'43.91"
S 89°56'26.44"W

2652.58'
N 00°05'31.09"W

CURVE DATA
CURVE NO. J-1
P.I. STA. 2202+07.97
Δ= 093°28'40.68"
R = 1700.0000'
D = 003°22'13.22"
T = 1806.4572'
L = 2773.5471'
Ch = 2476.0133'
E = 780.5821'
e = 0.06'/'
S = 0.048'/'
V = 50 mi/h

CURVE DATA
CURVE NO. SB CD-4
P.I. STA. 322+05.89
Δ= 003°00'56.04"
R = 5700.0000'
D = 001°00'18.68"
T = 150.0346'
L = 300.0000'
Ch = 299.9654'
E = 1.9743'
e =0.06'/'
S =RC
V = 50 mi/h

CURVE DATA
CURVE NO. SB CD-5
P.I. STA. 326+84.21
Δ= 003°00'56.04"
R = 5700.0000'
D = 001°00'18.68"
T = 150.0346'
L = 300.0000'
Ch = 299.9654'
E = 1.9743'
e =0.06'/'
S =RC
V = 50 mi/h

CURVE DATA
CURVE NO. N-1
P.I. STA. 4200+17.46
Δ= 093°51'48.47"
R = 1700.0000'
D = 003°22'13.22"
T = 1818.6774'
L = 2784.9849'
Ch = 2483.8379'
E = 789.4954'
e = 0.06'/'
S = 0.048'/'
V = 50 mi/h

CURVE DATA
CURVE NO. NB CD-3
P.I. STA. 323+07.56
Δ= 003°00'56.04"
R = 5700.0000'
D = 001°00'18.68"
T = 150.0346'
L = 300.0000'
Ch = 299.9654'
E = 1.9743'
e =0.06'/'
S =RC
V = 50 mi/h

CURVE DATA
CURVE NO. NB CD-4
P.I. STA. 327+85.88
Δ= 003°00'56.04"
R = 5700.0000'
D = 001°00'18.68"
T = 150.0346'
L = 300.0000'
Ch = 299.9654'
E = 1.9743'
e =0.06'/'
S =RC
V = 50 mi/h

2215+00 | 320+00 | 220+00 | 325+00 | 225+00 | 330+00 | 230+00 | 335+00 | 235+00 | 240+00

4210+00 | 4215+00 | 325+00 | 330+00 | 335+00

PI: 2214+31.08

EOP STA: 2217+31.45 ℄ RAMP J
= BOP STA: 319+95.63 ℄ US 81 SB CD RD. 3
= POT STA: 220+00.00 A001, 93.17' RT.

PC: 320+55.85

PT: 323+55.85

PC: 325+34.17

PT: 328+34.17

PI: 335+96.15

EOP STA. 338+96.39 ℄ US 81 SB CD RD. 3
= POT STA. 239+00.00 A001, 56' RT.

256.01'
N44°52'41.31"W

300.37'
N43°09'34.79"W

SB CD-4

178.32'
N41°51'42.37"W

SB CD-5

761.98'
N44°52'38.41"W

300.24'
N42°35'12.21"W

102.17'

93.17'

68'

56'

A001
N44°52'38.41"W

215+00 | 245+00

102.13'

102.17'

93.17'

68'

56'

253.41'
N44°52'12.16"W

300.13'
N46°35'44.50"W

NB CD-3

178.32'
N47°53'34.45"W

NB CD-4

667.21'
N44°52'38.41"W

300.24'
N47°10'04.61"W

PT: 4209+83.76

PI: 4212+37.17

EOP STA: 4215+37.31 ℄ RAMP N
= BOP STA: 321+57.53 ℄ US 81 NB CD RD. 3
= POT STA: 221+05.00 A001, 93.17' LT.

PT: 324+57.53

PC: 326+35.85

PT: 329+35.85

PI: 336+03.05

EOP STA. 339+03.29 ℄ US 81 NB CD RD. 3
=EOP STA. 238+50.00 A001, 56' LT.

N5°232

2642.41'
S 89°53'36.08"W

E-W 138.5

0 100' 200'

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A004	A007	A011	A015	A019
A002	A005	A008	A013	A017	
A003	A006	A009	A014	A018	

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R006

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 7 T6N R7W

0 100' 200'

℄ SURVEY RR BNSF

℄ SURVEY NORGE RD.

℄ SURVEY US 81

℄ RAMP O

℄ RAMP O-1

℄ RAMP Q

A001

A005

A006

PI: 105+62.2

PT: 173+92.76

PT: 111+11.72

PC: 179+36.62

PC: 116+48.25

PI: 1001+67.02

PC: 1012+11.02

PT 1020+55.54

PI: 182+67.67

PI: 119+79.31

PT: 185+95.79

PT: 123+07.45

170+00
110+00
175+00
115+00
250+00
180+00
1000+00
255+00
1005+00
260+00
1010+00
265+00
1015+00
270+00
1020+00
1021+00
245+00
275+00
162+81
165+00
185+00
125+00
190+00

2650.02' N 00°35'54.22" W

2623.29' S 89°53'16.08" W

EW 138.5

2642.41' S 89°53'16.08" W

NS 2815

536.53' N 30°44'13.22" E

543.86' N 30°44'13.22" E

BOP STA. 998+66.78 ℄ RAMP O
= POT STA. 253+68.54 A001, 56' RT.

300.24' N 47°10'04.61" W

1044.00' N 44°52'38.41" W

10605.40' N 44°52'38.41" W

56'

68'

CURVE DATA
CURVE NO. O-1
P.I. STA. 1016+45.95
Δ= 33°46'51.15" LT
R = 1432.39'
D = 4°00'00.05"
T = 434.93'
L = 844.52'
Ch =832.34'
E = 64.58'
e = 6.00'/'
S = 5.20'/'
V = 50 mi/h

BOP STA. 1090+52.93 ℄ RAMP Q
= POT STA. 272+17.98 A001, 56' LT.

300.24' N 42°35'12.21" W

POT STA. 250+64.41 A001
= POT STA. 117+41.85 A006

POT STA. 251+58.67 A001
= POT STA. 180+64.05 A005

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A013
A005	A014
A006	A015

SEC. 7 T6N R7W

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No R007

US 81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

0 100' 200'

CURVE DATA
CURVE NO. O-2
P.I. STA. 1029+28.29
Δ= 78°20'42.63" RT
R= 340.00'
D= 16°51'06.12"
T= 277.03'
L= 464.91'
Ch= 429.53'
E= 98.57'
e = 6.00'/'
S = 5.60'/'
V= 30 mi/h

CURVE DATA
CURVE NO. P-1
Δ= 213°05'52.95" RT
R = 296.00'
D = 19°21'24.06"
T = N/A
L = 1100.90'
Ch = 567.48'
E = N/A
e = 6.00'/'
S = 5.80'/'
V = 30 mi/h

CURVE DATA
CURVE NO. Q-1
P.I. STA 1099+00.14
Δ= 11°02'11.27" RT
R =5661.58'
D = 1°00'43.24"
T = 546.97'
L = 1090.55'
Ch = 1088.86'
E = 26.36'
e = 6.00'/'
S = 3.40'/'
V = 50 mi/h

CURVE DATA
CURVE NO. Q-2
Δ= 213°31'40.21" RT
R =318.31'
D = 17°59'59.98"
T = N/A
L = 1186.27'
Ch = 609.56'
E = N/A
e = 6.00'/'
S = 5.60'/'
V = 50 mi/h

CURVE DATA
CURVE NO. R-1
P.I. STA 1156+96.14
Δ= 72°40'09.51" LT
R =355.31'
D = 16°07'32.07"
T = 261.33'
L = 450.65'
Ch = 421.04'
E = 85.76'
e = 6.00'/'
S = 5.40'/'
V = 30 mi/h

CURVE DATA
CURVE NO. R-2
P.I. STA 1167+60.11
Δ= 54°10'36.25" RT
R =1145.92'
D = 4°59'59.99"
T = 586.10'
L = 1083.54'
Ch = 1043.62'
E = 141.19'
e = 6.00'/'
S = 4.40'/' FOR V= 40 mi/h
S = 5.60'/' FOR V= 50 mi/h

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A013
A005	A014
A006	A015

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No R008

US 81 REALIGNMENT
GRADY COUNTY

SEC. 7 T6N R7W

SEC. 6 T6N R7W

PROPOSED
R/W
AUGUST 2017

SEC. 1 T6N R8W

P.I. STA 299+85.58
Δ= 46°36'02.96" RT
R = 5729.58'
D = 1°00'00.00"
T = 2467.60'
L = 4660.08'
Ch = 4532.69'
E = 508.78'
e = 6.00'/'
S = 4.0'/'
V = 70 mi/h

0 100' 200'

CURVE DATA
CURVE NO. S-1
P.I. STA 1215+01.72
Δ= 21°37'45.70" LT
R = 1432.39'
D = 4°00'00.00"
T = 273.62'
L = 540.73'
Ch = 537.33'
E = 25.90'
e = 6.00'/'
S = 5.00'/'
V = 50 mi/h

CURVE DATA
CURVE NO. U-1
P.I. STA 1308+89.73
Δ= 24°30'56.90" RT
R = 1432.39'
D = 4°00'00.00"
T = 311.21'
L = 612.89'
Ch = 608.23'
E = 33.42'
e = 6.00'/'
S = 5.20'/'
V = 50 mi/h

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A013
A005	A014
A006	A015

SEC. 6 T6N R7W

GEOMETRIC LAYOUT

State Job No 24428(04) Sheet No R009

US 81 REALIGNMENT
GRADY COUNTY

SEC. 1 T6N R8W

SEC. 36 T7N R8W

PROPOSED
R/W
AUGUST 2017

0 100' 200'

CURVE DATA
CURVE NO. S-2
P.I. STA 1222+99.41
Δ= 21°31'41.96" RT
R = 540.00'
D = 10°36'37.19"
T = 102.66'
L = 202.90'
Ch = 201.71'
E = 9.67'
e = 6.00'/'
S = 4.60'/'
V = 30 mi/h

CURVE DATA
CURVE NO. T-1
P.I. STA 1252+62.91
Δ= 24°40'54.29" RT
R = 540.00'
D = 10°36'37.19"
T = 118.14'
L = 232.62'
Ch = 230.83'
E = 12.77'
e = 6.00'/'
S = 4.60'/'
V = 30 mi/h

CURVE DATA
CURVE NO. T-2
P.I. STA 1259+76.50
Δ= 24°30'56.90" LT
R = 1432.39'
D = 4°00'00.00"
T = 311.21'
L = 612.89'
Ch = 608.23'
E = 33.42'
e = 6.00'/'
S = 5.00'/'
V = 50 mi/h

111+00
1225+00
1250+00
115+00
1255+00
1260+00
1265+00
1270+00
1221+00
340+00
345+00
350+00
355+00
360+00
335+00
365+00
120+00
1312+00
1315+00
1350+00
1355+00
1360+00
1365+00
1370+00
125+00
130+00

2124.83' N 89°55'19.99" E
BOP STA. 1250+00.00 ℄ RAMP T
= EOP STA. 1225+39.61 ℄ RAMP S
= POT STA. 115+88.34 A014

PC: 1221+96.15
PI: 1222+99.41
PT: 1223+99.65
PC: 1251+44.77
PI: 1252+62.91
PT: 1253+77.39
PC: 1256+66.29
PT: 1262+78.18
PI: STA 1270+78.18
EOP STA 1273+78.42 ℄ RAMP T
= STA. 362+20.14 A001, 56' RT.

℄ RAMP S
139.96'
N 1°37'20.81" E

144.77'
N 1°33'27.15" E
℄ RAMP T

T-1
287.90'
N 26°14'21.44" E
T-2

℄ RAMP T
800.00'
N 1°43'24.55" E
300.24'
N 4°00'50.74" E

68'
68'
56'

℄ SURVEY GRAND AVE.
A014
POT STA. 399+4.90 A001
= POT STA. 119+53.38 A014

A001

℄ SURVEY US 81
6303.72' N 1°43'24.55" E

℄ SURVEY US 81
6303.72' N 1°43'24.55" E

℄ RAMP V
800.00'
N 1°43'24.55" E
300.24'
N 0°34'01.64" W

68'
68'
56'

PT: 1363+12.43
PI: 1371+12.43
EOP STA. 1374+12.67 ℄ RAMP V
= POT STA. 362+80.40 A001, 56' LT.

2642.53'
S 89°55'19.99" W

2657.43' PI 121+24.83 2637.62'
N 00°01'28.45" E NS 281 N 00°00'34.84" W

2637.62' NS 281
N 00°00'34.84" W

EW 137

2617.40'
N 89°52'51.14" W

428.72'
N 19°54'21.15" W

PC: 1312+60.08
PI: 1313+98.22
PT: 1315+12.70
PC: 1351+40.07
PI: 1352+42.73
PT: 1353+42.97
PC: 1371+71.69

U-2
153.21'
N 1°33'27.15" E
℄ RAMP U

140.07'
N 1°37'20.81" E
℄ RAMP V

V-1
V-2

928.57' S 89°52'51.14" E

BOP STA. 1350+00.00 ℄ RAMP V
= EOP STA. 1316+65.91 ℄ RAMP U
= POT STA. 123+18.70 A014

EW 137
A014

EOP 130+53.40

CURVE DATA
CURVE NO. U-2
P.I. STA 1313+98.22
Δ= 24°40'54.29" LT
R = 540.00'
D = 10°36'37.19"
T = 118.14'
L = 232.62'
Ch = 230.83'
E = 12.77'
e = 6.00'/'
S = 4.60'/'
V = 30 mi/h

CURVE DATA
CURVE NO. V-1
P.I. STA 1352+42.73
Δ= 21°31'41.96" LT
R = 540.00'
D = 10°36'37.19"
T = 102.66'
L = 202.90'
Ch = 201.71'
E = 9.67'
e = 6.00'/'
S = 4.60'/'
V = 30 mi/h

CURVE DATA
CURVE NO. V-2
P.I. STA 1360+45.32
Δ= 21°37'45.70" RT
R = 1432.39'
D = 4°00'00.00"
T = 273.62'
L = 540.73'
Ch = 537.53'
E = 25.90'
e = 6.00'/'
S = 5.20'/'
V = 50 mi/h

SEC. 6 T6N R7W

SEC. 31 T7N R7W

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A013
A005	A014
A006	A015

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No R010

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 36 T7N R8W

SEC. 30 T7N R7W

0 100' 200'

CRL BOP 1800+00.00
1800+00

℄ BOP 100+00.00
100+00

1100.01' N 89°53'15.44" E
800.01' N 89°51'53.20" E

1805+00

105+00

℄ SURVEY IDAHO AVE.
CRL IDAHO AVE.

A015

CRL PI 1809+00.00

℄ PI 109+00.00

390+00

1810+00

110+00

N 89°53'15.44" W
2641.54'
EW 136

℄ PI 111+00.01
NS 281 N 00°04'25.51" W
2651.08'

2637.62'
NS 281 N 00°00'34.84" W

395+00

℄ SURVEY US 81

2642.03'
N 89°58'57.75" W

365+00

℄ SURVEY US 81
6303.72'
N 1°43'24.55" E
A001

℄ SURVEY US 81

EW 136.5

NS 281 2637.62'
N 00°00'34.84" W

2615.03'
N 89°54'23.42" W

300+00

305+00

310+00

315+00

PC: 384+81.79

320+00

370+00

375+00

380+00

385+00

2612.66'
S 89°51'53.20" W

500.00' N 89°57'49.76" E

POT STA. 391+88.89 A001
= POT STA. 111+53.47 A015

396+00

℄ COUNTY RD
1536.33'
N 1°42'56.57" E

90.47'
N 3°12'39.46" W

BOP STA. 300+00 ℄ COUNTY RD

PC: 300+90.47

PT: 305+20.41

PC: 320+56.73

CRL PI 1814+00.00

℄ PI 114+00.00

1815+00

325+00

115+00

PT: 324+04.03

76.43'
N 68°02'43.70" E

PC: 324+80.46

EW 136

PT: 326+58.96

N 0°08'06.80" W
94.62'

EOP STA. 327+53.58 ℄ COUNTY RD
= POT STA. 117+00 A015

117+00

CRL IDAHO AVE. ℄ SURVEY

EW 136.5

CURVE DATA
CURVE NO. CO-1
P.I. STA 303+05.57
Δ= 4°55'36.03" RT
R = 5000.00'
D = 1°08'45.30"
T = 215.10'
L = 429.93'
Ch = 429.80'
E = 4.62'
e = 6.00'/'
S = 2.00'/' (RC)
V = 45 mi/h

CURVE DATA
CURVE NO. CO-2
P.I. STA 332+52.78
Δ= 66°19'47.13" RT
R = 300.00'
D = 19°05'54.94"
T = 196.05'
L = 347.30'
Ch = 328.23'
E = 58.38'
e = 6.00'/'
S = 5.80'/' (RC)
V = 30 mi/h

CURVE DATA
CURVE NO. CO-3
P.I. STA 325+81.98
Δ= 68°10'50.49" LT
R = 150.00'
D = 38°11'49.87"
T = 101.52'
L = 178.50'
Ch = 168.15'
E = 31.13'
e = 6.00'/'
S = 2.00'/' (NC)
V = 30 mi/h

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A013
A005	A014
A006	A015

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No R011

US 81 REALIGNMENT
GRADY COUNTY

8/21/2017

4:21:52 PM

F:\2016\1001-1500\016-1182\40-Design\Microstation\US-81\DGN\C\24428_GEO_DATA_01.dgn

PROPOSED
R/W
AUGUST 2017

SEC. 25, T7N R8W

0 100' 200'

N

SEC. LINE NS-281 MOCKINGBIRD RD.

2651.08'
N 00°04'25.51" W

400+00

W-1

PC-STA. 401+78.74

282.48'
N 22°56'25.64" E

POB-STA. 398+96.26 RAMP W
= STA. 398+96.26 A001, 68' LT

405+00

PC-STA. 405+76.63

PT-STA. 405+60.63

216.00'
N 5°57'51.08" E

W-2

410+00

PT-STA. 411+83.01

146.38'
N 42°29'47.95" E

℄ RAMP W

POE-STA. 413+29.39 RAMP W
= POB-STA. 410+71.83 RAMP X
= STA. 39+29.36 IOWA AVE.

150.23'
N 42°29'47.95" E

PC-STA. 412+22.06

℄ RAMP X

X-1

35+00

40+00

IOWA-1

A017

2602.91'
S 89°57'33.60" W

1/4 SEC. LINE EW-135.5

POB-STA. 10+00.00

CRL CO. RD
EW-135.5

CURVE DATA
CURVE NO. CR-1
PI STA. 13+77.17
Δ = 29°27'45.84"
R = 288.00'
D = 19°53'39.72"
T = 75.72'
L = 148.10'
Ch = 146.47'
E = 9.79'
e = 0.040
S = 0.035
V = 25 MPH

PT-STA. 415+55.17

227.05'
N 79°07'50.16" E

PC-STA. 417+82.22

420+00

301.45'
N 69°57'33.60" E

PC-STA. 13+01.45

CR-1

PT-STA. 14+49.54

224.09'
N 60°29'47.76" E

POE-STA. 424+59.49 RAMP X
= STA. 424+59.49 A001, 66' LT

PC-STA. 16+73.63

15+00

17+00

425+00

PT-STA. 421+72.01

287.48'
N 61°24'03.09" E

X-2

420+00

415+00

A001

STA. 412+00.00 A001
= STA. 43+00.34 IOWA AVE.

S 47°30'12.04" E
1048.13'

IOWA AVE CRL

410+00

405+00

PT-STA. 404+97.22

PC-STA. 407+08.72

211.50'
N 59°41'08.12" E

Y-1

Y-2

PC-STA. 399+27.32 RAMP Y
= STA. 399+27.32 A001, 68' RT

398+00

426+00

POE-STA. 411+78.40 RAMP Y
= BOP-STA. 412+31.00 RAMP Z
= STA. 46+71.36 IOWA AVE.

PT-STA. 410+16.40

161.99'
N42°29'47.96"E

℄ RAMP Y

165.95'
N42°29'47.96"E

PC-STA. 413+96.95

℄ RAMP Z

Z-1

45+00

PT-STA. 416+97.24

203.25'
N 27°12'10.86" E

PC-STA. 419+00.00

Z-2

EOP-STA. 425+74.85
= PT-STA. 425+74.85 RAMP Z
= STA. 426+74.85 A001, 68' RT

50+00

IOWA-2

SEC. 30, T7N R7W

CURVE DATA
CURVE NO. W-1
PI STA. 403+71.09
Δ = 16°58'34.55"
R = 1288.91'
D = 4°26'43.08"
T = 192.36'
L = 381.89'
Ch = 380.50'
E = 14.27'
e = 0.060
S = 0.054
V = 50 MPH

CURVE DATA
CURVE NO. W-2
PI STA. 409+86.99
Δ =36°31'56.87"
R = 637.34'
D = 8°59'23.35"
T = 210.36'
L = 406.38'
Ch = 399.53'
E =33.82'
e = 0.060
S = 0.051
V = 35 MPH

CURVE DATA
CURVE NO. Y-1
PI STA. 402+26.93
Δ = 36°07'45.02"
R = 887.93'
D = 6°27'09.89"
T = 289.61'
L = 559.90'
Ch = 550.67'
E = 46.04
e = 0.060
S = 0.060
V = 50 MPH

CURVE DATA
CURVE NO. Y-2
PI STA. 408+63.72
Δ = 17°11'20.16"
R = 1025.56'
D = 5°35'12.41"
T = 155.00'
L = 307.67'
Ch = 306.52'
E = 11.65'
e = 0.060
S = 0.041
V = 35 MPH

CURVE DATA
CURVE NO. Z-1
PI STA. 415+48.00
Δ = 15°17'37.10"
R = 1125.00'
D = 5°05'34.65"
T = 151.04'
L = 300.29'
Ch = 299.40'
E = 10.09'
e = 0.060
S = 0.039
V = 35 MPH

CURVE DATA
CURVE NO. Z-2
PI STA. 422+49.17
Δ = 35°54'58.57"
R = 1075.77'
D = 5°19'33.67"
T = 348.67'
L = 674.35'
Ch = 663.37'
E = 55.09'
e = 0.060
S = 0.058
V = 50 MPH

CURVE DATA
CURVE NO. X-1
PI STA. 413+94.53
Δ = 36°38'02.19"
R = 520.98'
D = 10°59'51.76"
T = 172.47'
L = 333.11'
Ch = 327.46'
E = 27.81
e = 0.060
S = 0.055
V = 35 MPH

CURVE DATA
CURVE NO. X-2
PI STA. 419+78.69
Δ = 17°43'47.07"
R = 1259.64'
D = 4°32'54.85"
T = 196.46'
L = 389.79'
Ch = 388.23'
E = 15.23'
e = 0.060
S = 0.054
V = 50 MPH

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING SEGMENTS:

A001	A004	A007	A010	A014	A018
A002	A005	A008	A011	A015	A019
A003	A006	A009	A013	A017	

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R012

US-81 REALIGNMENT

GRADY COUNTY

8/21/2017

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PROPOSED
R/W
AUGUST 2017

0 100' 200'

N

EOP-STA.127+55.13

NS 281.5

1/4 SEC. LINE

125+00

1134.93'
N 0°17'10.07" W

CURVE DATA
CURVE NO. CR-3
PI STA. 23+82.42
Δ = 73°47'13.59"
R = 155.00'
D = 36°57'54.07"
T = 116.35'
L = 199.61'
Ch = 186.10'
E = 38.81'
e = 0.040
S = 0.035
V = 20 MPH

POE-STA. 26+27.78

CURVE DATA
CURVE NO. CR-2
PI STA. 17+32.10
Δ = 13°00'15.75"
R = 513.00'
D = 11°10'07.56"
T = 58.47'
L = 116.44'
Ch = 116.19'
E = 3.32'
e = 0.040
S = 0.028
V = 25 MPH

20+00

25+00

PT-STA. 24+65.69

120+00

PC-STA. 22+66.07

CR-3

CRL CO. RD.
EW-135.5

476.01'
N 73°30'03.51" E

PT-STA 17+90.07

CR-2

17+00

2647.22'
N 0°17'10.07" W

PT-STA.434+53.73

435+00

440+00

445+00

1501.73'
N 76°18'09.32" E

A001

PC-STA 449+55.47

450+00

456+00

POC - STA. 431+60.54 A001
= 1/4 SEC. LINE NS 281.5
162.34' TO CENTER SECTION
X=1974752.2013
Y=625402.8053

2636.48'
S 89°58'41.04" W

EW-135.5 1/4 SEC. LINE

2602.91'
S 89°57'33.60" W

PI-STA.116+20.20

CENTER SECTION 30
X=1974753.0120
Y=625240.4660

POC - STA. 427+15.25 A001
= 1/4 SEC. LINE EW 135.5
415.06' TO 1/4 SEC. CORNER
X=1974337.9528
Y =625240.1714

426+00

115+00

A018

2646.79'
N 00°17'05.10" W

1620.20'
N 0°17'05.10" W

110+00

SEC. 30, T7N R7W

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING SEGMENTS:

A001	A004	A007	A010	A014	A018
A002	A005	A008	A011	A015	A019
A003	A006	A009	A013	A017	

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R013

US-81 REALIGNMENT

GRADY COUNTY

8/21/2017

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PROPOSED
R/W
AUGUST 2017

SEC. 30, T7N R7W

SEC. 20, T7N R7W

SEC. 29, T7N R7W

0 100' 200'

SECTION LINE

NS-282
29TH ST.

EOP STA 113+99.84

E 2644.22'
N 00°14'25.31" W

1399.84'
N 0°14'25.31" W

SECTION LINE EW-135
FRISCO AVE.

2659.01'
N 89°51'06.23" W

POC - STA. 459+19.84 A001
= SEC. LINE NS-282
954.34' SOUTH TO
1/4 SEC. CORNER
X=1977385.4833
Y=626195.8093

POC =STA. 481+94.71 A001
= SEC. LINE EW-135
1187.27' EAST TO
1/4 SEC. CORNER
X=1978850.7600
Y=627881.8618

110+00
460+00
465+00
470+00
475+00
480+00
485+00
486+00
456+00
105+00

A019
A001
AA-1
AA-2
CC-1
CC-2
CC-3

℄ RAMP AA
℄ RAMP CC

493.86'
N 37°22'00.00" E

201.75'
N 57°38'24.65" E

PC-STA. 468+70.82 RAMP AA-2
= STA. 468+70.82 A001, 68' LT

PC-STA. 463+69.92

POB-STA. 461+68.17 RAMP CC
= STA. 461+68.17 A001, 56' RT

PCC-STA. 468+82.13

PC-STA. 483+04.13

PT-STA. 481+23.60

PCC-STA. 480+65.80

PC-STA. 484+36.31

PT-STA. 479+42.46

CURVE DATA

CURVE NO. AA-1
PI STA. 475+20.40
Δ 37°22'01.79"
R = 1920.91'
D = 2°58'57.86"
T = 649.58'
L = 1252.78'
Ch = 1230.70'
E = 106.86'
e = 0.060
S = 0.044
V = 50MPH

CURVE DATA

CURVE NO. AA-2
PI STA. 485+17.91
Δ = 24°38'57.30"
R = 978.46'
D = 5°51'20.65"
T = 213.78'
L = 420.94'
Ch = 417.70'
E = 23.08'
e = 0.060
S = 0.042
V =35 MPH

CURVE DATA

CURVE NO. CC-1
PI STA. 466+26.49
Δ = 8°27'01.34"
R = 3472.93'
D = 1°38'59.22"
T = 256.57'
L = 512.21'
Ch = 511.75'
E = 9.46
e = 0.060
S = 0.049
V = 70 MPH

CURVE DATA

CURVE NO. CC-2
PI STA. 474+12.91
R = 9000.00'
D = 0°38'11.83"
T = 530.78'
L = 1060.33'
Ch = 1059.71
E = 15.64'
e = 0.060
S = 0.023
V = 70 MPH

CURVE DATA

CURVE NO. CC-3
PI STA. 485+69.88
R = 950.00'
D = 6°01'52.08"
T = 133.57'
L = 265.39'
Ch = 264.53'
E = 9.34
e =0.060
S = 0.042
V = 35 MPH

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING SEGMENTS:

A001	A004	A007	A010	A014	A018
A002	A005	A008	A011	A015	A019
A003	A006	A009	A013	A017	

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R014

US-81 REALIGNMENT

GRADY COUNTY

8/21/2017
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PROPOSED
R/W
AUGUST 2017

0 100' 200'

POB-STA. 10+00.00 DRIVE
= STA. 394+76.85 A007

PC-STA. 10+95.00

DR-1

PT-STA. 12+12.81

CURVE DATA
CURVE NO. DR-1
PI STA. 11+70.00
Δ = 90°00'00.00"
R = 75.00'
D = 76°23'39.74"
T = 75.00'
L = 117.81'
Ch = 106.07'
E = 31.07'

S 58°38'22.71" E
393.75'

CURVE DATA
CURVE NO. DR-2
PI STA. 16+67.19
Δ = 62°17'44.81"
R = 100.00'
D = 57°17'44.81"
T = 60.64'
L = 109.02'
Ch = 103.70'
E = 16.65'

PC-STA. 16+06.56

S03°49'25.31"W
86.25'

POE-STA. 18+01.82

PT-STA. 17+15.75
85.93'

PT-STA. 487+25.07

POE-STA. 488+51.02 RAMP AA
=POB-STA. 488+68.82 RAMP BB
= STA. 402+47.63 A007

CURVE DATA
CURVE NO. BB-1
PI STA. 493+08.77
Δ = 1°38'21.55"
R = 11321.10
D = 0°30'21.95"
T = 161.97'
L = 323.91'
Ch = 323.90'
E = 1.16
e = 0.060
S = NC
V = 35 MPH

CURVE DATA
CURVE NO. BB-2
PI = 498+34.84
Δ = 16°55'40.57"
R = 1388.50'
D = 4°07'35.21"
T = 206.62'
L = 410.23'
Ch = 408.74'
E = 15.29'
e = 0.060
S =0.052
V = 50 MPH

PT-STA. 500+38.45 RAMP BB
= STA. 500+38.45 A001, 68' LT

PT-STA. 494+70.72

PC-STA. 496+28.22

PC-STA. 491+46.81

125.94'
N 31°21'37.29" E

277.99'
N 31°21'37.29" E

℄ RAMP AA

℄ RAMP BB

BB-1

157.50'

BB-2

395+00
400+00
405+00
410+00
490+00
495+00
500+00
505+00
510+00
515+00
516+00
105+00
110+00
115+00
120+00
486+00

POC - STA. 509+74.78 A001
= 1/4 SEC. LINE EW-134.5
331.89' EAST TO
CENTER SECTION
X=1979702.6554
Y=630523.4041

CRL US-81 CROSSOVER

S 77°49'39.53"E
2400.00'

S 77°49'39.53"E
2400.00'

N 00°03'41.97" W
2648.44'

PC-STA. 511+49.72
=US-81 CROSSOVER
= STA. 511+49.72 A001,
56' RT

2643.94'
N 00°03'41.97" W

CENTER SECTION 20
X=1980034.5485
Y=630523.0395

2644.25'
N 00°03'41.97" W

N 89°56'13.40" W
2647.88'

E-W 1/4 SEC. LINE

STA. 488+24.58 A001
=PI-STA. 405+43.89 A007

℄ RAMP CC

℄ RAMP DD

DD-1

DD-2

PT-STA. 487+01.71

POE-STA. 488+57.73 RAMP CC
= STA. 408+60.17 A007

POB-STA. 487+01.63 RAMP DD
=STA. 408+64.11 A007

PC-STA. 488+98.99

PT-STA. 491+90.61

218.25'
N 6°35'53.31" W

PC-STA. 494+08.98

PT-STA. 499+76.91 RAMP DD
= STA. 499+76.91 A001, 68' RT

CURVE DATA
CURVE NO. DD-2
PI STA. 496+96.73
Δ = 22°54'57.98"
R = 1420.28'
D = 4°02'02.78"
T = 287.88'
L = 568.06'
Ch = 564.28'
E = 28.88'
e = 0.060
S = 0.052
V = 50 MPH

CURVE DATA
CURVE NO. DD-1
PI STA. 490+48.96
Δ = 32°57'30.60"
R = 506.95'
D = 11°18'07.15"
T = 149.97'
L = 291.62'
Ch = 287.61'
E = 21.72'
e = 0.060
S=0.055
V = 35 MPH

133.57'
N 26°21'37.29" E

156.02'
N 26°21'37.29" E

197.35'
N 26°21'37.29" E

NS-282.5

1/4 SECTION LINE

A001
A007
A008
A009

SEC. 20, T7N R7W

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING SEGMENTS:

A001	A004	A007	A010	A014	A018
A002	A005	A008	A011	A015	A019
A003	A006	A009	A013	A017	

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R015

US-81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

0 100' 200'

N

516+00
520+00
525+00
530+00
535+00
540+00

CRL US-81 CROSSOVER

CO-1

CO-2

A001

1/4 SEC. LINE

NS-282.5

2643.94'
N 00°03'41.97" W

113.14'
US81-5

PT-STA. 530+72.05

PC-STA. 531+85.20

PT-STA. 536+02.46 US-81 CROSSOVER
= STA. 535+96.81 A001 CL-1

2638.13'
S 89°56'26.07" W

POC -STA.536+42.01 A001
= SEC. LINE EW-134
4.92' EAST TO
1/4 SEC. CORNER
X=1980026.7774
Y=633166.9785

1/4 SEC. CORNER
X=1980031.7033
Y=633166.9807

PT-STA. 540+17.63

282.37'
N 0°09'05.73" E

EOP-STA. 543+00.00

2642.87'
N 00°09'05.73" E

STA. 528+94.67 A001
= STA. 529+00.41 US-81 CROSSOVER

CURVE DATA
CURVE NO. CO-2
PI STA. 433+93.85
Δ = 1°53'57.27"
R = 12588.00'
D = 0°27'18.58"
T = 208.65'
L = 417.27'
Ch = 417.25'
E = 1.73'
e = 0.060
S = NC
V = 65 MPH

CURVE DATA
CURVE NO. CO-1
PI STA. 521+14.24
Δ = 11°41'23.13"
R = 9422.00'
D = 0°36'29.18"
T = 964.51'
L = 1922.32'
Ch = 1918.99'
E = 49.24'
e = 0.060
S = RC
V = 65 MPH

2648.75'
S 89°56'26.08" W

SEC. LINE
EW-134
COUNTY RD 1340

SEC. 20, T7N R7W

SEC. 17, T7N R7W

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING SEGMENTS:

A001	A004	A007	A010	A014	A018
A002	A005	A008	A011	A015	A019
A003	A006	A009	A013	A017	

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R016

US-81 REALIGNMENT
GRADY COUNTY

SEC. 17 T6N R7W

CURVE DATA
CURVE NO. A-1
P.I. STA. 137+46.08
Δ= 014°01'06.35"
R = 5661.5801'
D = 001°00'43.24"
T = 696.0790'
L = 1385.2062'
Ch = 1381.7537'
E = 42.6302'
e = 0.06'/'
S = 0.034'/'
V = 70 mi/h

CURVE DATA
CURVE NO. A-2
P.I. STA. 140+77.40
Δ= 249°53'03.76"
R = 250.0000'
D = 022°55'05.92"
T = 357.8048'
L = 1090.3263'
Ch = 409.8652'
E = 686.4909'
e = 0.06'/'
S = 0.06'/'
V = 30 mi/h

CURVE DATA
CURVE NO. B-1
P.I. STA. 245+72.52
Δ= 010°23'39.28"
R = 1660.0000'
D = 003°27'05.59"
T = 150.9878'
L = 301.1469'
Ch = 300.7341'
E = 6.8525'
e = 0.06'/'
S = 0.048'/'
V = 50 mi/h

CURVE DATA
CURVE NO. B-2
P.I. STA. 254+13.01
Δ= 044°10'35.95"
R = 1070.0000'
D = 005°21'17.08"
T = 434.2280'
L = 825.0000'
Ch = 804.7159'
E = 84.7528'
e = 0.06'/'
S = 0.058'/'
V = 50 mi/h

CURVE DATA
CURVE NO. D-1
P.I. STA. 240+15.52
Δ= 094°01'15.99"
R = 1450.0000'
D = 003°57'05.16"
T = 1555.5090'
L = 2379.4180'
Ch = 2121.2900'
E = 676.5249'
e = 0.06'/'
S = 0.052'/'
V = 50 mi/h

PROPOSED R/W
AUGUST 2017

SEC. 16 T6N R7W

PT: 35+63.46
EOP STA. 38+00.00 CRL SURVEY
N30°45'05.42"W 560.58'
PT: 248+39.42
35+00
NS 283 N00°13'06.60"E
I 67TH-1
D-1 ℄ RAMP D
160+00
30+00
40+00
155+00
145+00
150+00
245+00
250+00
PC: 249+78.78
B-2
150+00
℄ RAMP B
B-1 256.10' N00°14'23.71"E
PT: 247+22.68
EOP: 246+26.56
℄ RAMP A A-2
A-1 EXT.
PT: 246+26.56
35+00
145+00
68'
POC: 144+35.21
PC: 244+74.00
17'
PC: 244+21.53
274.00' N00°09'15.57"W
N00°09'15.57"W 221.53'
PT: 155+25.53
POT STA: 159+42.45 ℄ RAMP A = POC STA: 140+73.48 A001
PT: 161+00.00
30+00
245+00
25+00
BOP: 25+00.00
EW 140 2653.47' S 89°50'44.43" W
A011 N89°50'44.43"E
BOP: 242+00.00
N89°50'44.43"E 574.47'
℄ RAMP A
S87°54'31.14"E 300.22'
45+00
BOP STA: 242+00.00 ℄ RAMP B = POT STA: 33+89.46 A011
BOP STA: 242+00.00 ℄ RAMP A EXT = POT STA: 34+06.46 A011
POC STA: 140+56.32 ℄ RAMP A = POT STA: 40+26.51 A011
POT STA: 40+97.36 A011 = POC STA: 140+48.44 A001
PI STA: 42+96
240+00
PI: 42+96.60
140+00
℄ RAMP A
A001
NS 283 N00°03'10.78"W
1130+00
135+00
A-1
2655.60' N 00°18'54.24"E
NS 282.5
2640.01' N 00°05'53.38" W
NS 282.5
0 100' 200'
SEC. 21 T6N R7W
SEC. 20 T6N R7W

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A004	A007	A011	A015	A019
A002	A005	A008	A013	A017	
A003	A006	A009	A014	A018	

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R017

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 16 T6N R7W

CURVE DATA	CURVE DATA	CURVE DATA	CURVE DATA	CURVE DATA
CURVE NO. 16TH-1	CURVE NO. C-1	CURVE NO. D-1	CURVE NO. F-1	CURVE NO. E-1
P.I. STA. 31+90.97	P.I. STA. 120+46.22	P.I. STA. 240+15.52	P.I. STA. 132+83	P.I. STA. 260+03.55
Δ= 110°35'12.32"	Δ= 047°07'58.16"	Δ= 094°01'15.99"	Δ= 033°33'52.08"	Δ= 042°43'38.90"
R = 766.0000'	R = 2330.0000'	R = 1450.0000'	R = 1450.0000'	R = 1330.0000'
D = 007°28'47.52"	D = 002°27'32.57"	D = 003°57'05.16"	D = 003°57'05.16"	D = 004°18'28.63"
T = 1105.9713'	T = 1016.3257'	T = 1555.5090'	T = 437.2902'	T = 520.2505'
L = 1478.4589'	L = 1916.7114'	L = 2379.4180'	L = 849.4251'	L = 991.8277'
Ch = 1259.4239'	Ch = 1863.1228'	Ch = 2121.2900'	Ch = 837.3313'	Ch = 969.0046'
E = 579.3359'	E = 212.0106'	E = 676.5249'	E = 64.5041'	E = 98.1318'
e = 0.06'/'	e = 0.06'/'	e = 0.06'/'	e = 0.06'/'	e = 0.06'/'
S = 0.04'/'	S = 0.05'/'	S = 0.052'/'	S = 0.052'/'	S = 0.054'/'
V = 30 mi/h	V = 60 mi/h	V = 50 mi/h	V = 50 mi/h	V = 50 mi/h

CRL SURVEY NS 283 (16TH AVE)
BOP STA. 19+90.00 CRL SURVEY NS 283 (16TH AVE)
16TH-1
℄ RAMP D
D-1
℄ RAMP F
F-1
℄ RAMP E
E-1
℄ RAMP C
BOP STA. 126+15.39 ℄ RAMP F
= POT STA. 48+99.98 A011 12' LT.
BOP STA. 250+00.00 ℄ RAMP E
= POT STA. 49+99.96 A011 12' LT.
EOP STA. 164+00.22 ℄ RAMP A
= POT STA. 45+47.93 A011 12' RT.
EOP STA. 216+95.41 ℄ RAMP D
EOP STA. 143+17.95 ℄ RAMP F
= EOP STA. 1151+94.45 A003
EOP STA. 267+32.25 ℄ RAMP E
= POT STA. 149+17.61 ℄ RAMP C, 12' RT.
EOP STA. 149+17.61 ℄ RAMP C
PC: 126+45.71
PC: 201+85.00
PC: 254+83.30
PC: 224+60.01
PT: 136+95.13
EOP: 1151+94.45
EOP: 1145+99.51
EOP: 56+16.49
ST: 1135+69.75
CS: 1131+69.75
PT: 1131+25.54
PT: 129+46.61
A011
N89°47'30.67"E
.60 A011
A003
N56°13'38.59"E
A002
N47°03'17.65"E
1473.97'
1971.00'
N47°03'51.76"E
2639.79'
S 89°47'30.67" W
EW 140
2641.46'
S 89°47'30.67" W
2662.51'
N 00°06'04.86" E
NS 283.5
2658.01'
N 00°09'22.84" W
12'
45+00
1125+00
1130+00
1135+00
1140+00
1145+00
1150+00
125+00
130+00
135+00
140+00
145+00
220+00
225+00
230+00
235+00
240+00
250+00
255+00
260+00
265+00

0 100' 200'

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A004	A007	A011	A015	A019
A002	A005	A008	A013	A017	
A003	A006	A009	A014	A018	

SEC. 21 T6N R7W

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R018

US 81 REALIGNMENT
GRADY COUNTY

SEC. 18 T6N R7W

PROPOSED R/W
AUGUST 2017

0 100′ 200′

N5°28'E

2621.54'
N 89°48'55.22"W

225+00

230+00

235+00

240+00

245+00

BOP STA. 245+65.00 ℄ I-44 WB CD RD. 1
= POT STA. 245+65.00 A004, 31.50' RT.

℄ I-44 WB CD RD. 1

300.24'
N46°18'33.18"E

PI: 248+65.24

43.50

249+00

A004
N48°35'59.38"E

2667.23'
N 00°07'34.55"E

2637.32'
N 89°48'37.22"W

EW 1400

SEC. 18 T6N R7W

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A004	A007	A011	A015	A019
A002	A005	A008	A013	A017	
A003	A006	A009	A014	A018	

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R019

US 81 REALIGNMENT

GRADY COUNTY

PROPOSED R/W
AUGUST 2017

SEC. 18 T6N R7W

SEC. 17 T6N R7W

<u>CURVE DATA</u>
CURVE NO. EB CD-1
P.I. STA. 260+27.48
Δ= 003°00'56.04"
R = 5700.0000'
D = 001°00'18.68"
T = 150.0346'
L = 300.0000'
Ch = 299.9654'
E = 1.9743'
e = 0.06'/'
S = 0.034'/'
V = 70 mi/h

<u>CURVE DATA</u>
CURVE NO. EB CD-2
P.I. STA. 265+05.80
Δ= 003°00'56.04"
R = 5700.0000'
D = 001°00'18.68"
T = 150.0346'
L = 300.0000'
Ch = 299.9654'
E = 1.9743'
e = 0.06'/'
S = NC
V = 50 mi/h

<u>CURVE DATA</u>
CURVE NO. G-1
P.I. STA. 1194+92.65
Δ= 087°03'00.25"
R = 1670.0000'
D = 003°25'51.19"
T = 1586.1582'
L = 2537.2483'
Ch = 2300.1627'
E = 633.2147'
e = 0.06'/'
S = 0.048'/'
V = 50 mi/h

<u>CURVE DATA</u>
CURVE NO. G-2
P.I. STA. 1205+23.19
Δ= 000°31'38.04"
R = 17266.4007'
D = 000°19'54.60"
T = 79.4428'
L = 158.8845'
Ch = 158.8840'
E = 0.1828'
e = 0.06'/'
S = NC
V = 50 mi/h

<u>CURVE DATA</u>
CURVE NO. WB CD-1
P.I. STA. 257+97.48
Δ= 003°00'56.04"
R = 5700.0000'
D = 001°00'18.68"
T = 150.0346'
L = 300.0000'
Ch = 299.9654'
E = 1.9743'
e = 0.06'/'
S = 0.034'/'
V = 70 mi/h

<u>CURVE DATA</u>
CURVE NO. WB CD-2
P.I. STA. 262+75.80
Δ= 003°00'56.04"
R = 5700.0000'
D = 001°00'18.68"
T = 150.0346'
L = 300.0000'
Ch = 299.9654'
E = 1.9743'
e = 0.06'/'
S = NC
V = 50 mi/h

<u>CURVE DATA</u>
CURVE NO. J-1
P.I. STA. 2202+07.97
Δ= 093°28'40.68"
R = 1700.0000'
D = 003°22'13.22"
T = 1806.4572'
L = 2773.5471'
Ch = 2476.0133'
E = 780.5821'
e = 0.06'/'
S = 0.048'/'
V = 50 mi/h

EW 199.5
2628.07'
N 89°51'26.00" W

2634.26'
N 00°18'53.88" E

250+00 250+00
255+00 255+00
260+00 260+00
265+00 265+00
270+00
275+00
2180+00
2185+00
2190+00
2195+00

EOP PT STA: 264+65.23 ℄ I-44 WB CD RD. 2
= BOP STA: 2177+97.85 ℄ RAMP J
= POT STA: 197+74.48 A001, 68.67' RT.

PI: 254+85.24
PC: 256+47.44
PT: 259+47.44
PC: 261+25.76
PI: 2180+97.98
PC: 2184+01.52
PC: 270+99.50

℄ I-44 WB CD RD. 1
WB CD-1
WB CD-2
℄ RAMP J
J-1

782.21'
N48°35'59.38"E
178.32'
N45°35'03.33"E
303.53'
N48°35'59.38"E

43.50'
68.67'
77.67'

A004
N48°35'59.38"E

249+00
279+00

300.24'
N50°53'25.57"E
392.21'
N48°35'59.38"E
178.32'
N51°36'55.42"E
143.50'
S48°35'59.38"W

℄ I-44 EB CD RD. 1
EB CD-1
EB CD-2
G-2
℄ RAMP G
G-1

BOP STA. 251+85.00 ℄ I-44 EB CD RD. 1
= POT STA. 251+85.00 A004, 31.50' LT.

PC: 258+77.44
PT: 261+77.44
PC: 263+55.76
PI: 1207+46.13
PT: 1206+02.63
PRC: 1204+43.74

EOP PT STA: 266+55.76 ℄ I-44 EB CD RD. 1
= EOP STA: 1210+46.26 ℄ RAMP G
= POT STA: 266+55.00 A004, 68.67' LT.

1210+00
1205+00
1200+00

2665.51'
N 00°04'18.48" W
NS 282'

2675.16'
S 89°47'13.33" W

0 100' 200'

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A004	A007	A011	A015	A019
A002	A005	A008	A013	A017	
A003	A006	A009	A014	A018	

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R020

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED R/W
AUGUST 2017

SEC. 17 T6N R7W

SEC. 8 T6N R7W

CURVE DATA
CURVE NO. I-1
P.I. STA. 317+04.12
Δ= 001°09'28.41"
R = 17111.0673'
D = 000°20'05.45"
T = 172.9050'
L = 345.7982'
Ch = 345.7923'
E = 0.8736'
e = 0.06'/'
S = NC
V = 30 mi/h

CURVE DATA
CURVE NO. I-2
P.I. STA. 316+33.54
Δ= 271°30'50.17"
R = 250.0000'
D = 022°55'05.92"
T = 243.4800'
L = 1184.7030'
Ch = 348.8517'
E = 598.9735'
e = 0.06'/'
S = 0.06'/'
V = 30 mi/h

CURVE DATA
CURVE NO. J-1
P.I. STA. 2202+07.97
Δ= 093°28'40.68"
R = 1700.0000'
D = 003°22'13.22"
T = 1806.4572'
L = 2773.5471'
Ch = 2476.0133'
E = 780.5821'
e = 0.06'/'
S = 0.048'/'
V = 50 mi/h

CURVE DATA
CURVE NO. M-1
P.I. STA. 297+32.93
Δ= 266°08'37.79"
R = 250.0000'
D = 022°55'05.92"
T = 267.4184'
L = 1161.2715'
Ch = 365.2486'
E = 616.0774'
e = 0.06'/'
S = 0.06'/'
V = 30 mi/h

CURVE DATA
CURVE NO. M-2
P.I. STA. 313+54.38
Δ= 001°11'03.63"
R = 17111.0672'
D = 000°20'05.45"
T = 176.8547'
L = 353.6968'
Ch = 353.6905'
E = 0.9139'
e = 0.06'/'
S = NC
V = 30 mi/h

CURVE DATA
CURVE NO. N-1
P.I. STA. 4200+17.46
Δ= 093°51'48.47"
R = 1700.0000'
D = 003°22'13.22"
T = 1818.6774'
L = 2784.9849'
Ch = 2483.8379'
E = 789.4954'
e = 0.06'/'
S = 0.048'/'
V = 50 mi/h

0 100′ 200′

CURVE DATA
CURVE NO. G-1
P.I. STA. 1194+92.65
Δ= 087°03'00.25"
R = 1670.0000'
D = 003°25'51.19"
T = 1586.1582'
L = 2537.2483'
Ch = 2300.1627'
E = 633.2147'
e = 0.06'/'
S = 0.048'/'
V = 50 mi/h

CURVE DATA
CURVE NO. H-1
P.I. STA. 192+32.12
Δ= 268°32'33.78"
R = 250.0000'
D = 022°55'05.92"
T = 256.4409'
L = 1171.7386'
Ch = 358.0209'
E = 608.1367'
e = 0.06'/'
S = 0.06'/'
V = 30 mi/h

CURVE DATA
CURVE NO. H-2
P.I. STA. 208+39.69
Δ= 001°11'25.77"
R = 17266.4007'
D = 000°19'54.60"
T = 179.3871'
L = 358.7612'
Ch = 358.7548'
E = 0.9318'
e = 0.06'/'
S = NC
V = 30 mi/h

CURVE DATA
CURVE NO. K-1
P.I. STA. 3195+77.25
Δ= 086°08'37.79"
R = 1940.0000'
D = 002°57'12.21"
T = 1813.6370'
L = 2916.7773'
Ch = 2649.7132'
E = 715.7257'
e = 0.06'/'
S = 0.044'/'
V = 50 mi/h

CURVE DATA
CURVE NO. L-1
P.I. STA. 211+87.21
Δ= 001°06'57.30"
R = 17266.4007'
D = 000°19'54.60"
T = 168.1492'
L = 336.2878'
Ch = 336.2825'
E = 0.8187'
e = 0.06'/'
S = NC
V = 30 mi/h

CURVE DATA
CURVE NO. L-2
P.I. STA. 211+21.25
Δ= 273°45'49.30"
R = 250.0000'
D = 022°55'05.92"
T = 234.0945'
L = 1194.5195'
Ch = 341.7525'
E = 592.4912'
e = 0.06'/'
S = 0.06'/'
V = 30 mi/h

BOP STA: 191+60.99 ℄ RAMP H
= EOP STA: 333+89.70 ℄ RAMP I
= POT STA: 196+39.01 A001, 102.17' LT.

EOP STA: 228+63.32 ℄ RAMP L
= BOP STA: 296+57.01 ℄ RAMP M
= POT STA: 290+41.86 A004

EOP PC STA: 210+19.06 ℄ RAMP H
= BOP PC STA: 210+19.06 ℄ RAMP L
= POT STA: 195+74.21 A001

BOP PC STA: 315+31.22 ℄ RAMP I
= EOP PC STA: 315+31.22 ℄ RAMP M
= POT STA: 197+29.71 A001

PCC: 318+77.02
PT: 330+61.72
PC: 300+00.35
PRC: 206+60.30
PC: 194+88.56
PT: 225+49.87
PRC: 213+55.35
PT: 292+98.50
PC: 311+77.52
PT: 311+61.62
PC: 4181+98.78
PT: 3206+80.39

S44°52'38.41"E 327.98'
N44°52'38.41"W 343.34'
S44°52'38.41"E 327.57'
N44°52'38.41"W 313.46'
S41°15'59.38"W 15.90'
N41°15'59.38"E 198.91'
N41°15'59.38"E
N5 282.5
2653.18' N 00°27'53.18" W
2666.02' N 00°21'02.51" E
2643.88' S 89°37'48.57" W

102.17'
77.67'

I-1 I-2 J-1 M-1 M-2 N-1 H-1 H-2 G-1 K-1 L-1 L-2

℄ RAMP I ℄ RAMP J ℄ RAMP M ℄ RAMP N ℄ RAMP H ℄ RAMP G ℄ RAMP K ℄ RAMP L

A001 A004 EW 139

280+00 285+00 200+00 300+00 205+00 325+00 210+00 290+00 330+00 4200+00 305+00 4195+00 295+00 215+00 200+00 305+00 3205+00 279+00 309+00 4190+00 3200+00 310+00 3195+00 315+00 320+00 195+00 225+00 3190+00 4185+00 1195+00 1190+00 200+00 190+00 220+00

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A004	A007	A011	A015	A019
A002	A005	A008	A013	A017	
A003	A006	A009	A014	A018	

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R021

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 8 T6N R7W

CURVE DATA	CURVE DATA	CURVE DATA	CURVE DATA
CURVE NO. WB CD-3	CURVE NO. WB CD-4	CURVE NO. EB CD-3	CURVE NO. EB CD-4
P.I. STA. 315+72.95	P.I. STA. 320+51.27	P.I. STA. 315+71.39	P.I. STA. 320+49.71
Δ= 003°00'56.04"	Δ= 003°00'56.04"	Δ= 003°00'56.04"	Δ= 003°00'56.04"
R = 5700.0000'	R = 5700.0000'	R = 5700.0000'	R = 5700.0000'
D = 001°00'18.68"	D = 001°00'18.68"	D = 001°00'18.68"	D = 001°00'18.68"
T = 150.0346'	T = 150.0346'	T = 150.0346'	T = 150.0346'
L = 300.0000'	L = 300.0000'	L = 300.0000'	L = 300.0000'
Ch = 299.9654'	Ch = 299.9654'	Ch = 299.9654'	Ch = 299.9654'
E = 1.9743'	E = 1.9743'	E = 1.9743'	E = 1.9743'
e = 0.06'/'	e = 0.06'/'	e = 0.06'/'	e = 0.06'/'
S = RC	S = RC	S = RC	S = RC
V = 50 mi/h	V = 50 mi/h	V = 50 mi/h	V = 50 mi/h

0 100′ 200′

NS 292.5 2653.18' N 00°21'33.18" W

EW 198.5 2642.25' S 89°59'18.13" W

310+00 3210+00 315+00 315+00 320+00 320+00 325+00 325+00 330+00 330+00 335+00

309+00 4180+00

PI: 4178+94.17

BOP STA: 4175+94.04 ℄ RAMP N
= BOP PC STA: 314+22.92 ℄ I-44 WB CD RD. 3
= POT STA: 314+70.00 A004, 68.67' RT.

PT: 317+22.92

PC: 319+01.24

PT: 322+01.24

PI: 325+93.45

EOP STA. 328+93.69 ℄ I-44 WB CD RD. 3
= POT STA. 329+40.00 A004, 31.50' RT.

℄ RAMP N 304.61' S41°15'59.38"W

77.67'

S42°59'05.47"W 300.13'

68.67'

WB CD-3

178.32' N44°16'55.42"E

WB CD-4

43.50'

℄ I-44 WB CD RD. 3 392.21' N41°15'59.38"E

43.50'

300.24' N43°33'25.57"E

31.50'

A004
N41°15'59.38"E

℄ RAMP K 319.86' N41°15'59.38"E

77.67'

300.13' N39°32'53.29"E

68.67'

EB CD-3

178.32' N38°15'03.33"E

EB CD-4

43.50'

℄ I-44 EB CD RD. 3 782.21' N41°15'59.38"E

43.50'

300.24' N38°58'33.18"E

PI: 3210+00.24

EOP STA: 3213+00.38 ℄ RAMP K
= BOP PC STA: 314+21.36 ℄ I-44 EB CD RD. 3
= POT STA: 314+70.00 A004, 68.67' LT.

PT: 317+21.36

PC: 318+99.68

PT: 321+99.68

PI: 329+81.88

EOP STA. 332+82.12 ℄ I-44 EB CD RD. 3
= POT STA. 333+30.00 A004 32' LT.

NS 293 2652.94 N 00°23'16.22" W

EW 199 2643.68' S 89°57'48.57" W

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A004	A007	A011	A015	A019
A002	A005	A008	A013	A017	
A003	A006	A009	A014	A018	

SEC. 8 T6N R7W

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R022

US 81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 7 T6N R7W

0 100' 200'

1005+00
260+00
1000+00
255+00
165+00
170+00
175+00
180+00
100+00
105+00
110+00
115+00
250+00
245+00
240+00
183+00
120+00
162+18

PI: 1001+67.02
68'
300.24'
N 47°10'04.61" W
BOP STA. 998+66.78 @ RAMP O
= POT STA. 253+68.54 A001, 56' RT.
95'
PC: 182+81.10
PI: 168+44.01
PT: 173+92.76
PC: 179+36.62
PI: 182+67.67
A005
A006
NS 281.5
2650.02'
N 00°3'54.22" W
EW 138.5
2623.29'
S 89°53'6.08" W
2642.41'
S 89°53'6.08" W
℄ SURVEY NORGE RD.
543.86' N 30°44'13.22" E
536.53' N 30°44'13.22" E
℄ SURVEY RR BNSF
PC: 100+00.00
PI: 105+62.94
PT: 111+11.72
PC: 116+48.25
PI: 119+79.31
POT STA. 251+58.67 A001
= POT STA. 180+64.05 A005
POT STA. 250+64.41 A001
= POT STA. 117+41.85 A006
℄ SURVEY US 81
A001

SEC. 7 T6N R7W

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A013
A005	A014
A006	A015

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No R023

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 7 T6N R7W

0 100' 200'

℄ SURVEY COUNTRY CLUB RD.

185+00 | PT: 185+95.79 | 190+00 | 195+00 | 200+00 | 205+00 | EOP 205+14.96

183+00

NR-2

A005 | 1919.17' | N 17°33'13.22" E

℄ SURVEY NORGE RD.

120+00

RR-2

A006 | 1958.52' | N 17°33'13.22" E

℄ SURVEY RR BNSF

PT: 123+07.45 | 125+00 | 130+00 | 135+00 | 140+00 | EOP 142+65.97

S 89°42'47.71" W 2640.93'

EW 138

NORGE ROAD / RR

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A013
A005	A014
A006	A015

SEC. 7 T6N R7W

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No R024

US 81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

0 100' 200'

℄ SURVEY US 81
A001

℄ RAMP O
O-1

PT: 1020+55.54

595.72' N 78°39'29.56" W

PC: 1026+51.26

66.21'

PI: 1029+28.29

℄ RAMP P
P-1

O-2

1025+00

1030+00

1060+00

1055+00

280+00

1065

1095+00

275+00

CURVE DATA
CURVE NO. Q-1
P.I. STA 1099+00.14
Δ= 11°02'11.27" RT
R =5661.58'
D = 1°00'43.24"
T = 546.97'
L = 1090.55'
Ch = 1088.86'
E = 26.36'
e = 6.00'/'
S = 3.40'/'
V = 50 mi/h

BOP STA. 1090+52.93 ℄ RAMP Q
= POT STA. 272+17.98 A001, 56' LT.

300.24' N 42°35'12.21" W

56'

68'

PC: 275+17.98

PC: 1093+54.84

CURVE DATA
CURVE NO. P-1
Δ= 213°05'52.95" RT
R = 296.00'
D = 19°21'24.06"
T = N/A
L = 1100.90'
Ch = 567.48'
E = N/A
e = 6.00'/'
S = 5.80'/'
V = 30 mi/h

CURVE DATA
CURVE NO. O-1
P.I. STA. 1016+45.95
Δ= 33°46'51.15" LT
R = 1432.39'
D = 4°00'00.05"
T = 434.93'
L = 844.52'
Ch =832.34'
E = 64.58'
e = 6.00'/'
S = 5.20'/'
V = 50 mi/h

CURVE DATA
CURVE NO. O-2
P.I. STA. 1029+28.29
Δ= 78°20'42.63" RT
R= 340.00'
D= 16°51'06.12"
T= 277.03'
L= 464.91'
Ch= 429.53'
E= 98.57'
e = 6.00'/'
S = 5.60'/'
V= 30 mi/h

PC: 1053+80.98

37.86'

37'

PT: 1031+16.17

℄ RAMP O

390.98' N 0°18'46.93" W

404.87' N 0°18'46.93" W

℄ RAMP P

PT: 1064+81.88

91.70'

POT STA. 283+51.69 A001
= POT STA. 109+02.53 A013

POT STA. 1067+43.71 ℄ RAMP P
= POT STA. 108+11.16 A013

EOP STA. 1035+21.04 ℄ RAMP O
= POT STA. 103+73.22 A013

1050+00

1035+00

1100+00

1095+00

BOP STA. 1150+00.00 ℄ RAMP R
= POT STA. 114+25.58 A013

EOP STA. 1120+64.80 ℄ RAMP Q
= POT STA. 113+88.53 A013

1320.00' N 89°41'13.07" E

℄ SURVEY COUNTRY CLUB RD.

1320.00' N 89°41'13.07" E

1299.75' N 89°41'13.07" E

A013

1299.75 N 89°41'13.07" E

1150+00

1120+00

PI: 112+99.75

POT STA. 1101+27.00 ℄ RAMP Q
= POT STA. 109+87.10 A013

524.70' N 33°24'39.68" W

285+00

1070+00

1065+00

EOP 1070+06.58 ℄ RAMP P
= POT STA. 286+64.61
A001, 68' RT.

BOP STA. 1050+00.00 ℄ RAMP P
= POT STA. 104+10.17 A013

EOP 126+19.75

125+00

120+00

115+00

110+00

100+00

℄ RAMP R

℄ RAMP Q

434.81' S 0°18'46.93" E

434.81' S 0°18'46.93" E

68'

PCC: 1104+43.72

1105+00

PC: 1154+34.81

37'

PT: 1116+29.98

290+00

1155+00

1115+00

1110+00

R-1

Q-2

℄ RAMP Q

POC 1112+26.26

PI: 1156+96.14

37'

℄ SURVEY US 81

A001

288.55' N 72°58'56.44" W

℄ RAMP R

R-2

PT: 1158+85.46

PC: 1161+74.00

1160+00

CURVE DATA
CURVE NO. Q-2
Δ= 213°31'40.21" RT
R =318.31'
D = 17°59'59.98"
T = N/A
L = 1186.27'
Ch = 609.56'
E = N/A
e = 6.00'/'
S = 5.60'/'
V = 50 mi/h

CURVE DATA
CURVE NO. R-1
P.I. STA 1156+96.14
Δ= 72°40'09.51" LT
R =355.31'
D = 16°07'32.07"
T = 261.33'
L = 450.65'
Ch = 421.04'
E = 85.76'
e = 6.00'/'
S = 5.40'/'
V = 30 mi/h

CURVE DATA
CURVE NO. R-2
P.I. STA 1167+60.11
Δ= 54°10'36.25" RT
R =1145.92'
D = 4°59'59.99"
T = 586.10'
L = 1083.54'
Ch = 1043.62'
E = 141.19'
e = 6.00'/'
S = 4.40'/' FOR V= 40 mi/h
S = 5.60'/' FOR V= 50 mi/h

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A013
A005	A014
A006	A015

SEC. 7 T6N R7W

SEC. 6 T6N R7W

COUNTRY CLUB ROAD

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No R025

US 81 REALIGNMENT

GRADY COUNTY

SEC. 1 T6N R8W

SEC. 36 T7N R8W

PROPOSED
R/W
AUGUST 2017

0 100' 200'

BOP 100+00.00

100+00

105+00

110+00

111+00

115+00

120+00

125+00

130+00

EOP 130+53.40

1225+00

1255+00

1260+00

1315+00

1310+00

1220+00

1215+00

1350+00

1355+00

1360+00

345+00

340+00

335+00

330+00

℄ SURVEY GRAND AVE.

A014

2124.83' N 89°55'19.99" E

2642.53' S 89°55'19.99" W

928.57' S 89°52'51.14" E

EW 137

2637.62' N 00°00'34.84" W

2667.43' N 00°01'28.45" E

℄ SURVEY US 81

A001

6303.72' N 1°43'24.55" E

N 89°52'51.14" W 2617.40'

PC: 1251+44.77

PI: 1252+62.91

PT: 1253+77.39

PC: 1256+65.29

287.96' N 26°14'21.44" E

427.92' N 19°54'21.15" W

PT: 1223+99.65

PI: 1222+99.41

PC: 1221+96.75

PT: 1217+68.83

144.77' N 1°33'27.15" E ℄ RAMP T

139.96' N 1°37'20.81" E ℄ RAMP S

PC: 1357+71.69

PT: 1353+42.97

PI: 1352+42.73

PC: 1351+40.07

PI 1211+24.83 NS 281

153.21' N 1°33'27.15" E ℄ RAMP U

140.07' N 1°37'20.81" E ℄ RAMP V

PT: 1315+12.70

PI: 1313+98.22

PC: 1312+80.08

PT: 1309+91.41

EOP STA. 1225+39.61 ℄ RAMP S
= ~~BOP STA. 1250+00.00 ℄ RAMP T~~
= POT STA. 115+88.34 A014

STA. 399+4.90 A001
= POT STA. 119+53.38 A014

EOP STA. 1316+65.91 ℄ RAMP U
=BOP STA. 1350+00.00 ℄ RAMP V
= POT STA. 123+18.70 A014

CURVE DATA
CURVE NO. T-1
P.I. STA 1252+62.91
Δ= 24°40'54.29" RT
R = 540.00'
D = 10°36'37.19"
T = 118.14'
L = 232.62'
Ch = 230.83'
E = 12.77'
e = 6.00'/'
S = 4.60'/'
V = 30 mi/h

CURVE DATA
CURVE NO. T-2
P.I. STA 1259+76.50
Δ= 24°30'56.90" LT
R = 1432.39'
D = 4°00'00.00"
T = 311.21'
L = 612.89'
Ch = 608.23'
E = 33.42'
e = 6.00'/'
S = 5.00'/'
V = 50 mi/h

CURVE DATA
CURVE NO. V-1
P.I. STA 1352+42.73
Δ= 21°31'41.96" LT
R = 540.00'
D = 10°36'37.19"
T = 102.66'
L = 202.90'
Ch = 201.71'
E = 9.67'
e = 6.00'/'
S = 4.60'/'
V = 30 mi/h

CURVE DATA
CURVE NO. V-2
P.I. STA 1360+45.32
Δ= 21°37'45.70" RT
R = 1432.39'
D = 4°00'00.00"
T = 273.62'
L = 540.73'
Ch = 537.53'
E = 25.90'
e = 6.00'/'
S = 5.20'/'
V = 50 mi/h

CURVE DATA
CURVE NO. S-1
P.I. STA 1215+01.72
Δ= 21°37'45.70" LT
R = 1432.39'
D = 4°00'00.00"
T = 273.62'
L = 540.73'
Ch = 537.33'
E = 25.90'
e = 6.00'/'
S = 5.00'/'
V = 50 mi/h

CURVE DATA
CURVE NO. S-2
P.I. STA 1222+99.41
Δ= 21°31'41.96" RT
R = 540.00'
D = 10°36'37.19"
T = 102.66'
L = 202.90'
Ch = 201.71'
E = 9.67'
e = 6.00'/'
S = 4.60'/'
V = 30 mi/h

CURVE DATA
CURVE NO. U-1
P.I. STA 1308+89.73
Δ= 24°30'56.90" RT
R = 1432.39'
D = 4°00'00.00"
T = 311.21'
L = 612.89'
Ch = 608.23'
E = 33.42'
e = 6.00'/'
S = 5.20'/'
V = 50 mi/h

CURVE DATA
CURVE NO. U-2
P.I. STA 1313+98.22
Δ= 24°40'54.29" LT
R = 540.00'
D = 10°36'37.19"
T = 118.14'
L = 232.62'
Ch = 230.83'
E = 12.77'
e = 6.00'/'
S = 4.60'/'
V = 30 mi/h

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A013
A005	A014
A006	A015

SEC. 6 T6N R7W

SEC. 31 T7N R7W

GRAND AVENUE

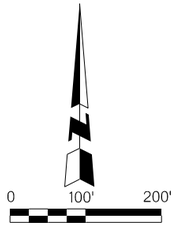
GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No R026

US 81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017



SEC. 36 T7N R8W

SEC. 30 T7N R7W

400+00

A001

395+00

2651.08'
N 00°04'25.51" W
NS 281

℄ SURVEY US 81

℄ BOP 100+00.00

100+00

105+00

℄ PI 109+00.00

110+00

℄ PI 111+00.01

℄ PI 114+00.00

115+00

EOP STA. 327+53.58 ℄ COUNTY RD.
= POT STA. 117+00 A015

℄ SURVEY IDAHO AVE.
CRL IDAHO AVE.

120+00

℄ EOP 122+00.01

1100.01' N 89°53'15.44" E
800.01' N 89°51'53.20" E

A015

N 89°53'15.44" W
2641.54'
EW 136

S 89°51'53.20" W
2612.66'
EW 136

500.00' N 89°57'49.76" E

1100.01' N 89°53'15.44" E
900.00' N 89°53'15.44" E

CRL BOP 1800+00.00

1800+00

1805+00

CRL PI 1809+00.00

1810+00

2637.62'
N 00°00'34.84" W
NS 281

CRL PI 1814+00.00

1815+00

325+00

PC: 326+80.46

PT: 326+58.96

N 01°08'06.80" W
94.62'

1820+00

CRL EOP 1822+00.01

390+00

POT STA. 391+88.89 A001
= POT STA. 111+53.47 A015

76.43'
N 68°02'43.70" E

PT: 324+04.03

℄ SURVEY US 81

PC: 320+56.73

385+00

PC: 384+81.79

A001

CURVE DATA
CURVE NO. CO-2
P.I. STA 332+52.78
Δ= 66°19'47.13" RT
R = 300.00'
D = 19°05'54.94"
T = 196.05'
L = 347.30'
Ch = 328.23'
E = 58.38'
e = 6.00'/'
S = 5.80'/' (RC)
V = 30 mi/h

CURVE DATA
CURVE NO. CO-3
P.I. STA 325+81.98
Δ= 68°10'50.49" LT
R = 150.00'
D = 38°11'49.87"
T = 101.52'
L = 178.50'
Ch = 168.15'
E = 31.13'
e = 6.00'/'
S = 2.00'/' (NC)
V = 30 mi/h

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A013
A005	A014
A006	A015

IDAHO AVENUE

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No R027

US 81 REALIGNMENT

GRADY COUNTY

8/21/2017

4:21:57 PM

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PROPOSED
R/W
AUGUST 2017

SEC. 25, T7N R7W

SEC. 30, T7N R7W

1/4 SEC. CORNER
X=1972150.1025
Y=625238.6185

BOP-STA.100+00.00

2651.08'
N 00°04'25.51" W PI-STA.100+47.28

105+00

EOP-STA.105+98.10

POB-STA. 30+70.44

A017

550.82'
N 89°57'33.60" E

342.05'
S 0°00'00.00" W

POT - STA. 31+86.20 IOWA AVE.
= 1/4 SEC. LINE EW-135.5
415.34' WEST TO
1/4 SEC. CORNER
X=1972565.4484
Y=625238.9133

1/4 SEC. LINE

EW-135.5

CRL CO. RD. EW 135.5

15+00

430+00

425+00

420+00

2647.22'
N 00°17'10.07" W

CENTER SECTION 30
X=1974753.0120
Y=6252400.4660

2602.91'
S 89°57'33.60" W

PI-STA.116+20.20

2636.48'
S 89°58'41.04" W

CURVE DATA

CURVE IOWA-1
PI STA. 35+62.55
Δ = 47°30'12.04"
R = 341.00'
D = 16°48'08.21"
T = 150.06'
L = 282.72'
Ch = 274.69'
E = 31.56'
e = 0.060
S = 0.060
V = 35 MPH

PC-STA. 34+12.49

35+00

IOWA-1

PT-STA. 36+95.21

415+00

115+00

X-2

X-1

40+00

415+00

POE-STA. 413+29.39 RAMP W
= POB-STA. 410+71.83 RAMP X
= STA. 39+29.36 IOWA AVE.

RAMP X

RAMP W

IOWA AVE.

CRL

S 47°30'12.04" E

1048.13'

STA. 412+00.00 A001
= STA. 43+00.34 IOWA AVE.

A001

420+00

Z-2

2646.79'
N 00°17'05.10" W

1/4 SEC. LINE

NS-281.5

SEC. 30, T7N R7W

410+00

45+00

415+00

410+00

W-2

Z-1

POE-STA. 411+79.40 RAMP Y
= POB-STA. 412+31.00 RAMP Z
= STA. 46+71.36 IOWA AVE.

RAMP Z

110+00

NS-281
MOCKINGBIRD RD.

405+00

405+00

405+00

W-1

Y-2

RAMP Y

50+00

PC-STA. 47+43.34

55+00

105+00

60+00

A018

1620.20'
N 0°17'05.10" W

Y-1

IOWA-2

PT-STA. 51+32.27

1156.24'
N 89°42'54.91" E

POE-STA. 62+88.51

CURVE DATA

CURVE IOWA-2
PI STA. 49+47.37
Δ = 42°46'53.06"
R = 520.87'
D = 11°00'00.05"
T = 204.03'
L = 388.92'
Ch = 379.95'
E = 38.53'
e = 0.060
S = 0.060
V = 40 MPH

POT - STA. 60+88.49
= 1/4 SEC. LINE NS281.5
1349.41' NORTH TO
CENTER SECTION
X=1974759.5692
Y=623921.0715

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING SEGMENTS:

A001	A004	A007	A010	A014	A018
A002	A005	A008	A011	A015	A019
A003	A006	A009	A013	A017	

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R028

US-81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

Alignment: ℄ I-44 EB CD RD. 1
Description: ℄ I-44 EB CD RD.

Tangent Data

Description	PT Station	Northing	Easting
Start:	251+85.00	603218.7952723	1976420.3915669
End:	254+85.24	603408.1882033	1976653.3600576
Parameter	Value	Parameter	Value
Length:	300.24	Course:	N 50° 53' 25.57" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	254+85.24	603408.1882033	1976653.3600576
End:	258+77.44	603667.5589337	1976947.5566093
Parameter	Value	Parameter	Value
Length:	392.21	Course:	N 48° 35' 59.38" E

Curve Point Data

Description	Station	Northing	Easting
PC:	258+77.44	603667.5589337	1976947.5566093
RP:		599391.9372317	1980717.0471665
PT:	261+77.44	603859.9410447	1977177.7051477

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	03° 00' 56.04"	Type:	RIGHT
Radius:	5700.00	Tangent:	150.03
Length:	300.00	External:	1.97
Mid-Ord:	1.97	Course:	N 50° 06' 27.40" E
Chord:	299.97		

Tangent Data

Description	PT Station	Northing	Easting
Start:	261+77.44	603859.941045	1977177.705148
End:	263+55.76	603970.665858	1977317.482226
Parameter	Value	Parameter	Value
Length:	178.32	Course:	N 51° 36' 55.42" E

Curve Point Data

Description	Station	Northing	Easting
PC:	263+55.76	603970.6658579	1977317.4822263
RP:		608438.6696712	1973778.1402072
PT:	266+55.76	604163.0479688	1977547.6307645

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	03° 00' 56.04"	Type:	LEFT
Radius:	5700.00	Tangent:	150.03
Length:	300.00	External:	1.97
Mid-Ord:	1.97	Course:	N 50° 06' 27.40" E
Chord:	299.97		

Alignment: ℄ I-44 EB CD RD. 2
Description: ℄ I-44 EB CD RD.

Tangent Data

Description	PT Station	Northing	Easting
Start:	266+94.02	604174.2996049	1977537.7110526
End:	271+37.53	604467.5978818	1977870.3906173
Parameter	Value	Parameter	Value
Length:	443.51	Course:	N 48° 35' 59.38" E

Curve Point Data

Description	Station	Northing	Easting
PC:	271+37.53	604467.5978818	1977870.3906173
RP:		617401.1540014	1966467.8575912
PT:	293+44.38	606028.8279294	1979427.9823214

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	07° 20' 00.00"	Type:	LEFT
Radius:	17242.23	Tangent:	1104.93
Length:	2206.85	External:	35.37
Mid-Ord:	35.29	Course:	N 44° 55' 59.38" E
Chord:	2205.34		

Tangent Data

Description	PT Station	Northing	Easting
Start:	293+44.38	606028.8279294	1979427.9823214
End:	315+15.89	607661.0456874	1980860.2303091
Parameter	Value	Parameter	Value
Length:	2171.51	Course:	N 41° 15' 59.38" E

Alignment: ℄ I-44 EB CD RD. 3
Description: ℄ I-44 EB CD RD.

Curve Point Data

Description	Station	Northing	Easting
PC:	314+21.36	607651.1522542	1980871.5050587
RP:		611410.6568880	1976587.1002095
PT:	317+21.36	607881.7490223	1981063.3496751

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	03° 00' 56.04"	Type:	LEFT
Radius:	5700.00	Tangent:	150.03
Length:	300.00	External:	1.97
Mid-Ord:	1.97	Course:	N 39° 45' 31.36" E
Chord:	299.97		

Tangent Data

Description	PT Station	Northing	Easting
Start:	317+21.36	607881.7490223	1981063.3496751
End:	318+99.68	608021.7840592	1981173.7480671
Parameter	Value	Parameter	Value
Length:	178.32	Course:	N 38° 15' 03.33" E

Curve Point Data

Description	Station	Northing	Easting
PC:	318+99.68	608021.7840592	1981173.7480671
RP:		604492.8761936	1985649.9975326
PT:	321+99.68	608252.3808268	1981365.5926832

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	03° 00' 56.04"	Type:	RIGHT
Radius:	5700.00	Tangent:	150.03
Length:	300.00	External:	1.97
Mid-Ord:	1.97	Course:	N 39° 45' 31.36" E
Chord:	299.97		

Tangent Data

Description	PT Station	Northing	Easting
Start:	321+99.68	608252.3808268	1981365.5926832
End:	329+81.88	608840.3252174	1981881.5055668
Parameter	Value	Parameter	Value
Length:	782.21	Course:	N 41° 15' 59.38" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	329+81.88	608840.3252174	1981881.5055668
End:	332+82.12	609073.7349561	1982070.3544320
Parameter	Value	Parameter	Value
Length:	300.24	Course:	N 38° 58' 33.18" E

Alignment: ℄ I-44 WB CD RD. 1
Description: ℄ I-44 WB CD RD.

Tangent Data

Description	PT Station	Northing	Easting
Start:	245+65.00	602856.0373814	1975913.6611528
End:	248+65.24	603063.4329301	1976130.7581044
Parameter	Value	Parameter	Value
Length:	300.24	Course:	N 46° 18' 33.18" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	248+65.24	603063.4329301	1976130.7581044
End:	256+47.44	603580.7161721	1976717.4971934
Parameter	Value	Parameter	Value
Length:	782.21	Course:	N 48° 35' 59.38" E

Curve Point Data

Description	Station	Northing	Easting
PC:	256+47.44	603580.7161721	1976717.4971934
RP:		607856.3378740	1972948.0066362
PT:	259+47.44	603784.9393767	1976937.2063397

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	03° 00' 56.04"	Type:	LEFT
Radius:	5700.00	Tangent:	150.03
Length:	300.00	External:	1.97
Mid-Ord:	1.97	Course:	N 47° 05' 31.36" E
Chord:	299.97		

Tangent Data

Description	PT Station	Northing	Easting
Start:	259+47.44	603784.9393767	1976937.2063397
End:	261+25.76	603909.7375427	1977064.5760136
Parameter	Value	Parameter	Value
Length:	178.32	Course:	N 45° 35' 03.33" E

Curve Point Data

Description	Station	Northing	Easting
PC:	261+25.76	603909.7375427	1977064.5760136
RP:		599838.3390457	1981053.7757169
PT:	264+25.76	604113.9607473	1977284.2851600

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	03° 00' 56.04"	Type:	RIGHT
Radius:	5700.00	Tangent:	150.03
Length:	300.00	External:	1.97
Mid-Ord:	1.97	Course:	N 47° 05' 31.36" E
Chord:	299.97		

Alignment: ℄ I-44 WB CD RD. 2
Description: ℄ I-44 WB CD RD.

Tangent Data

Description	PT Station	Northing	Easting
Start:	264+65.23	604102.7091112	1977294.2048720
End:	271+38.72	604548.0955096	1977799.3934967
Parameter	Value	Parameter	Value
Length:	673.49	Course:	N 48° 35' 59.38" E

Curve Point Data

Description	Station	Northing	Easting
PC:	271+38.72	604548.0955096	1977799.3934967
RP:		617401.3899586	1966467.6210828
PT:	293+31.87	606099.6370438	1979347.3192659

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	07° 20' 00.00"	Type:	LEFT
Radius:	17135.23	Tangent:	1098.08
Length:	2193.15	External:	35.15
Mid-Ord:	35.08	Course:	N 44° 55' 59.38" E
Chord:	2191.66		

Tangent Data

Description	PT Station	Northing	Easting
Start:	293+31.87	606099.6370438	1979347.3192659
End:	315+03.36	607731.8370721	1980779.5516960
Parameter	Value	Parameter	Value
Length:	2171.49	Course:	N 41° 15' 59.38" E

Alignment: ℄ I-44 EB CD RD. 3
Description: ℄ I-44 EB CD RD.

Curve Point Data

Description	Station	Northing	Easting
PC:	314+21.36	607651.1522542	1980871.5050587
RP:		611410.6568880	1976587.1002095
PT:	317+21.36	607881.7490223	1981063.3496751

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	03° 00' 56.04"	Type:	LEFT
Radius:	5700.00	Tangent:	150.03
Length:	300.00	External:	1.97
Mid-Ord:	1.97	Course:	N 39° 45' 31.36" E
Chord:	299.97		

Tangent Data

Description	PT Station	Northing	Easting
Start:	317+21.36	607881.7490223	1981063.3496751
End:	318+99.68	608021.7840592	1981173.7480671
Parameter	Value	Parameter	Value
Length:	178.32	Course:	N 38° 15' 03.33" E

Curve Point Data

Description	Station	Northing	Easting
PC:	318+99.68	608021.7840592	1981173.7480671
RP:		604492.8761936	1985649.9975326
PT:	321+99.68	608252.3808268	1981365.5926832

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	03° 00' 56.04"	Type:	RIGHT
Radius:	5700.00	Tangent:	150.03
Length:	300.00	External:	1.97
Mid-Ord:	1.97	Course:	N 39° 45' 31.36" E
Chord:	299.97		

Tangent Data

Description	PT Station	Northing	Easting
Start:	321+99.68	608252.3808268	1981365.5926832
End:	329+81.88	608840.3252174	1981881.5055668
Parameter	Value	Parameter	Value
Length:	782.21	Course:	N 41° 15' 59.38" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	329+81.88	608840.3252174	1981881.5055668
End:	332+82.12	609073.7349561	1982070.3544320
Parameter	Value	Parameter	Value
Length:	300.24	Course:	N 38° 58' 33.18" E

Alignment: ℄ RAMP A
Description: QUAIL RD. WB to US 81 SB

Tangent Data

Description	PT Station	Northing	Easting
Start:	127+53.04	600134.8210820	1982685.3545941
End:	130+50.00	600429.5274662	1982648.8212806
Parameter	Value	Parameter	Value
Length:	296.96	Course:	N 07° 03' 59.86" W

Curve Point Data

Description	Station	Northing	Easting
PC:	130+50.00	600429.5274662	1982648.8212806
RP:		599813.0202009	1977020.9079996
PCC:	144+35.21	601774.4385278	1982331.8709305

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	14° 01' 06.35"	Type:	LEFT
Radius:	5661.58	Tangent:	696.08
Length:	1385.21	External:	42.63
Mid-Ord:	42.31	Course:	N 13° 15' 38.63" W
Chord:	1381.75		

Curve Point Data

Description	Station	Northing	Easting
PCC:	144+35.21	601774.4385278	1982331.8709305
RP:		601687.8276216	1982097.3532319
PT:	155+25.53	601437.8285285	1982098.0265961

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	249° 53' 03.76"	Type:	LEFT
Radius:	250.00	Tangent:	357.8
Length:	1090.33	External:	686.49
Mid-Ord:	393.19	Course:	S 34° 47' 16.32" W
Chord:	409.87		

Tangent Data

Description	PT Station	Northing	Easting
Start:	155+25.53	601437.8285285	1982098.0265961
End:	161+00.00	601439.3758259	1982672.4898578
Parameter	Value	Parameter	Value
Length:	574.47	Course:	N 89° 50' 44.43" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	161+00.00	601439.3758259	1982672.4898578
End:	164+00.22	601428.4199736	1982972.5090471
Parameter	Value	Parameter	Value
Length:	300.22	Course:	S 87° 54' 31.14" E

Alignment: ℄ RAMP A EXT
Description: ALTERNATE ENTRANCE into RAMP A

Tangent Data

Description	PT Station	Northing	Easting
Start:	242+00.00	601413.1094626	1981831.0922076
End:	244+74.00	601687.1084687	1981830.3542005
Parameter	Value	Parameter	Value
Length:	274.00	Course:	N 00° 09' 15.57" W

Curve Point Data

Description	Station	Northing	Easting
PC:	244+74.00	601687.1084687	1981830.3542005
RP:		601687.8276216	1982097.3532320
PT:	246+26.55	601831.6055213	1981872.3711981

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	32° 44' 07.81"	Type:	RIGHT
Radius:	267.00	Tangent:	78.42
Length:	152.55	External:	11.28
Mid-Ord:	10.82	Course:	N 16° 12' 48.34" E
Chord:	150.48		

Tangent Data

Description	PT Station	Northing	Easting
Start:	246+26.55	601831.6055213	1981872.3711981
End:	246+26.56	601831.6139476	1981872.3765830
Parameter	Value	Parameter	Value
Length:	0.01	Course:	N 32° 34' 52.24" E

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A004	A009	A017
A002	A007	A010	A018
A003	A008	A011	A019

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R029

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

Alignment: ℄ RAMP B
Description: SB US 81 to QUAIL RD.

Tangent Data

Description	PT Station	Northing	Easting
Start:	242+00.00	601413.0578380	1981811.9256071
End:	244+21.53	601634.5897648	1981811.3289183
Parameter	Value	Parameter	Value
Length:	221.53	Course:	N 00° 09' 15.57" W

Curve Point Data

Description	Station	Northing	Easting
PC:	244+21.53	601634.5897648	1981811.3289183
RP:		601639.0609028	1983471.3228969
PT:	247+22.68	601934.1597849	1981837.7633939

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	10° 23' 39.28"	Type:	RIGHT
Radius:	1660.00	Tangent:	150.99
Length:	301.15	External:	6.85
Mid-Ord:	6.82	Course:	N 05° 02' 34.07" E
Chord:	300.73		

Tangent Data

Description	PT Station	Northing	Easting
Start:	247+22.68	601934.1597849	1981837.7633939
End:	249+78.78	602186.1799947	1981883.2902829
Parameter	Value	Parameter	Value
Length:	256.10	Course:	N 10° 14' 23.71" E

Curve Point Data

Description	Station	Northing	Easting
PC:	249+78.78	602186.1799947	1981883.2902829
RP:		602376.3943343	1980830.3332539
PCC:	258+03.78	602973.7508585	1981718.0636087

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	44° 10' 35.95"	Type:	LEFT
Radius:	1070.00	Tangent:	434.23
Length:	825.00	External:	84.75
Mid-Ord:	78.53	Course:	N 11° 50' 54.26" W
Chord:	804.72		

Curve Point Data

Description	Station	Northing	Easting
PCC:	258+03.78	602973.7508585	1981718.0636087
RP:		599813.0201932	1977020.9079894
PT:	263+72.32	603428.7256860	1981377.5308834

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	05° 45' 13.21"	Type:	LEFT
Radius:	5661.58	Tangent:	284.51
Length:	568.54	External:	7.14
Mid-Ord:	7.14	Course:	N 36° 48' 48.85" W
Chord:	568.3		

Alignment: ℄ RAMP C
Description: NB US 81 REALIGNMENT to EB US 81

Tangent Data

Description	PT Station	Northing	Easting
Start:	96+88.43	597538.2268959	1982797.9239044
End:	99+88.87	597838.2461364	1982813.8512350
Parameter	Value	Parameter	Value
Length:	300.44	Course:	N 03° 02' 19.85" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	99+88.87	597838.2461364	1982813.8512350
End:	104+78.92	598328.2541488	1982820.2658890
Parameter	Value	Parameter	Value
Length:	490.05	Course:	N 00° 45' 00.04" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	104+78.92	598328.2541488	1982820.2658890
End:	110+29.90	598879.2290818	1982819.6077084
Parameter	Value	Parameter	Value
Length:	550.98	Course:	N 00° 04' 06.40" W

Curve Point Data

Description	Station	Northing	Easting
PC:	110+29.90	598879.2290818	1982819.6077084
RP:		598882.0124383	1985149.6060460
PT:	129+46.61	600587.8509775	1983562.4655739

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	47° 07' 58.16"	Type:	RIGHT
Radius:	2330.00	Tangent:	1016.33
Length:	1916.71	External:	212.01
Mid-Ord:	194.33	Course:	N 23° 29' 52.68" E
Chord:	1863.12		

Tangent Data

Description	PT Station	Northing	Easting
Start:	129+46.61	600587.8509775	1983562.4655739
End:	149+17.61	601930.4521500	1985005.4763616
Parameter	Value	Parameter	Value
Length:	1971.00	Course:	N 47° 03' 51.76" E

Alignment: ℄ RAMP D
Description: US 81 WB to NB

Tangent Data

Description	PT Station	Northing	Easting
Start:	216+95.41	602142.5928868	1985032.9594460
End:	224+60.01	601717.5546608	1984397.3879713
Parameter	Value	Parameter	Value
Length:	764.60	Course:	S 56° 13' 38.59" W

Curve Point Data

Description	Station	Northing	Easting
PC:	224+60.01	601717.5546608	1984397.3879713
RP:		602922.8675538	1983591.3353490
PT:	248+39.42	602203.3205466	1982332.4659736

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	94° 01' 15.99"	Type:	RIGHT
Radius:	1450.00	Tangent:	1555.51
Length:	2379.42	External:	676.52
Mid-Ord:	461.30	Course:	N 76° 45' 43.41" W
Chord:	2121.29		

Tangent Data

Description	PT Station	Northing	Easting
Start:	248+39.42	602203.3205466	1982332.4659736
End:	254+00.00	602690.0073749	1982054.2845692
Parameter	Value	Parameter	Value
Length:	560.58	Course:	N 29° 45' 05.42" W

Curve Point Data

Description	Station	Northing	Easting
PC:	254+00.00	602690.0073749	1982054.2845692
RP:		599813.0202009	1977020.9079996
PT:	264+50.00	603549.5719132	1981453.7531573

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	10° 22' 36.62"	Type:	LEFT
Radius:	5797.58	Tangent:	526.44
Length:	1050.00	External:	23.85
Mid-Ord:	23.75	Course:	N 34° 56' 23.73" W
Chord:	1048.57		

Alignment: ℄ RAMP E
Description: ℄ RAMP E

Tangent Data

Description	PT Station	Northing	Easting
Start:	250+00.00	601406.0623109	1983424.6273052
End:	254+83.30	601407.8180728	1983907.9235668
Parameter	Value	Parameter	Value
Length:	483.30	Course:	N 89° 47' 30.67" E

Curve Point Data

Description	Station	Northing	Easting
PC:	254+83.30	601407.8180728	1983907.9235668
RP:		602737.8092963	1983903.0918557
PT:	264+75.13	601764.0903015	1984809.0561591

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	42° 43' 38.90"	Type:	LEFT
Radius:	1330.00	Tangent:	520.25
Length:	991.83	External:	98.13
Mid-Ord:	91.39	Course:	N 68° 25' 41.21" E
Chord:	969.00		

Tangent Data

Description	PT Station	Northing	Easting
Start:	264+75.13	601764.0903015	1984809.0561591
End:	267+32.25	601939.2375845	1984997.3022476
Parameter	Value	Parameter	Value
Length:	257.12	Course:	N 47° 03' 51.76" E

Alignment: ℄ RAMP F
Description: WB US 81 TO QUAIL RD.

Tangent Data

Description	PT Station	Northing	Easting
Start:	126+15.39	601429.6989320	1983324.5589406
End:	128+45.71	601430.5356459	1983554.8752974
Parameter	Value	Parameter	Value
Length:	230.32	Course:	N 89° 47' 30.67" E

Curve Point Data

Description	Station	Northing	Easting
PC:	128+45.71	601430.5356459	1983554.8752974
RP:		602880.5260775	1983549.6076424
PT:	136+95.13	601675.2131845	1984355.6602647

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	33° 33' 52.08"	Type:	LEFT
Radius:	1450.00	Tangent:	437.29
Length:	849.43	External:	64.50
Mid-Ord:	61.76	Course:	N 73° 00' 34.63" E
Chord:	837.33		

Tangent Data

Description	PT Station	Northing	Easting
Start:	136+95.13	601675.2131845	1984355.6602647
End:	143+17.95	602021.4382115	1984873.3801721
Parameter	Value	Parameter	Value
Length:	622.82	Course:	N 56° 13' 38.59" E

Alignment: ℄ RAMP G
Description: I-44 NB to US 81 SB

Tangent Data

Description	PT Station	Northing	Easting
Start:	1173+39.86	604095.9973092	1980710.3121939
End:	1176+35.63	604299.1353287	1980495.3413502
Parameter	Value	Parameter	Value
Length:	295.77	Course:	N 46° 37' 15.91" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	1176+35.63	604299.1353287	1980495.3413502
End:	1179+06.50	604491.0784913	1980304.2182919
Parameter	Value	Parameter	Value
Length:	270.87	Course:	N 44° 52' 38.41" W

Curve Point Data

Description	Station	Northing	Easting
PC:	1179+06.50	604491.0784913	1980304.2182919
RP:		603312.7409817	1979120.8245648
PCC:	1204+43.74	604555.2076542	1978004.9497655

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	87° 03' 00.25"	Type:	LEFT
Radius:	1670.00	Tangent:	1586.16
Length:	2537.25	External:	633.21
Mid-Ord:	459.13	Course:	N 88° 24' 08.54" W
Chord:	2300.16		

Curve Point Data

Description	Station	Northing	Easting
PCC:	1204+43.74	604555.2076542	1978004.9497655
RP:		617401.2719853	1966467.7393322
PT:	1206+02.63	604449.5881993	1977886.2541431

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	00° 31' 38.04"	Type:	RIGHT
Radius:	17266.40	Tangent:	79.44
Length:	158.88	External:	0.18
Mid-Ord:	0.18	Course:	S 48° 20' 10.36" W
Chord:	158.88		

Tangent Data

Description	PT Station	Northing	Easting
Start:	1206+02.63	604449.5881993	1977886.2541431
End:	1207+46.13	604354.6912268	1977778.6153127
Parameter	Value	Parameter	Value
Length:	143.50	Course:	S 48° 35' 59.38" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	1207+46.13	604354.6912268	1977778.6153127
End:	1210+46.26	604163.0479686	1977547.6307643
Parameter	Value	Parameter	Value
Length:	300.13	Course:	S 50° 19' 05.47" W

Alignment: ℄ RAMP H
Description: US 81 SB to I-44 NB

Tangent Data

Description	PT Station	Northing	Easting
Start:	191+60.99	605715.6741843	1979084.8548578
End:	194+88.56	605483.5508637	1979315.9863985
Parameter	Value	Parameter	Value
Length:	327.57	Course:	S 44° 52' 38.41" E

Curve Point Data

Description	Station	Northing	Easting
PC:	194+88.56	605483.5508637	1979315.9863985
RP:		605307.1530330	1979138.8316489
PCC:	206+60.30	605479.7643924	1978957.9855303

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	268° 32' 33.78"	Type:	RIGHT
Radius:	250.00	Tangent:	256.44
Length:	1171.74	External:	608.14
Mid-Ord:	424.51	Course:	S 89° 23' 38.48" W
Chord:	358.02		

Curve Point Data

Description	Station	Northing	Easting
PCC:	206+60.30	605479.7643924	1978957.9855303
RP:		617401.2719805	1966467.7393365
PT:	210+19.06	605741.8413487	1979202.9766919

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	01° 11' 25.77"	Type:	LEFT
Radius:	17266.40	Tangent:	179.39
Length:	358.76	External:	0.93
Mid-Ord:	0.93	Course:	N 43° 04' 12.48" E
Chord:	358.75		

Alignment: ℄ RAMP I
Description: WB I-44 to SB US 81

Curve Point Data

Description	Station	Northing	Easting
PC:	315+31.22	605852.0322557	1979093.2565912
RP:		617401.2719801	1966467.7393369
PCC:	318+77.02	605599.2583613	1978857.2953697

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	01° 09' 28.41"	Type:	RIGHT
Radius:	17111.07	Tangent:	172.9
Length:	345.80	External:	0.87
Mid-Ord:	0.87	Course:	S 43° 01' 47.21" W
Chord:	345.79		

Curve Point Data

Description	Station	Northing	Easting
PCC:	318+77.02	605599.2583613	1978857.2953697
RP:		605771.6908199	1978676.2786655
PT:	330+61.72	605948.0886507	1978853.4334151

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	271° 30' 50.17"	Type:	RIGHT
Radius:	250.00	Tangent:	243.48
Length:	1184.70	External:	598.97
Mid-Ord:	429.10	Course:	N 00° 38' 03.50" W
Chord:	348.85		

Tangent Data

Description	PT Station	Northing	Easting
Start:	330+61.72	605948.0886507	1978853.4334151
End:	333+89.70	605715.6741843	1979084.8548578
Parameter	Value	Parameter	Value
Length:	327.98	Course:	S 44° 52' 38.41" E

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A004	A009	A017
A002	A007	A010	A018
A003	A008	A011	A019

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R030

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

Alignment: ℄ RAMP J
Description: SB US 81 to WB I-44

Tangent Data

Description	PT Station	Northing	Easting
Start:	2177+97.85	604113.9607473	1977284.2851600
End:	2180+97.98	604319.1059688	1977503.3660540
Parameter	Value	Parameter	Value
Length:	300.13	Course:	N 46° 52' 53.29" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	2180+97.98	604319.105969	1977503.366054
End:	2184+01.52	604519.835993	1977731.048187
Parameter	Value	Parameter	Value
Length:	303.53	Course:	N 48° 35' 59.38" E

Curve Point Data

Description	Station	Northing	Easting
PC:	2184+01.52	604519.8359933	1977731.0481866
RP:		605795.0214132	1976606.8141607
PT:	2211+75.06	606994.5435890	1977811.4496034

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	93° 28' 40.68"	Type:	LEFT
Radius:	1700.00	Tangent:	1806.46
Length:	2773.55	External:	780.58
Mid-Ord:	534.95	Course:	N 01° 51' 39.03" E
Chord:	2476.01		

Tangent Data

Description	PT Station	Northing	Easting
Start:	2211+75.06	606994.5435890	1977811.4496034
End:	2214+31.08	607175.9559312	1977630.8072948
Parameter	Value	Parameter	Value
Length:	256.01	Course:	N 44° 52' 41.31" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	2214+31.08	607175.9559312	1977630.8072948
End:	2217+31.45	607395.0644831	1977425.3407524
Parameter	Value	Parameter	Value
Length:	300.37	Course:	N 43° 09' 34.79" W

Alignment: ℄ RAMP K
Description: NB US 81 to EB I-44

Tangent Data

Description	PT Station	Northing	Easting
Start:	3172+99.80	604196.0304214	1980873.6593583
End:	3175+00.00	604344.1045430	1980738.9186647
Parameter	Value	Parameter	Value
Length:	200.20	Course:	N 42° 18' 02.75" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	3175+00.00	604344.1045430	1980738.9186647
End:	3177+63.61	604530.9043013	1980552.9170348
Parameter	Value	Parameter	Value
Length:	263.61	Course:	N 44° 52' 38.41" W

Curve Point Data

Description	Station	Northing	Easting
PC:	3177+63.61	604530.9043013	1980552.9170348
RP:		605899.7514682	1981927.6378915
PT:	3206+80.39	607179.3021679	1980469.4369428

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	86° 08' 37.79"	Type:	RIGHT
Radius:	1940.00	Tangent:	1813.64
Length:	2916.78	External:	715.73
Mid-Ord:	522.84	Course:	N 01° 48' 19.52" W
Chord:	2649.71		

Tangent Data

Description	PT Station	Northing	Easting
Start:	3206+80.39	607179.3021679	1980469.4369428
End:	3210+00.24	607419.7212022	1980680.4012435
Parameter	Value	Parameter	Value
Length:	319.86	Course:	N 41° 15' 59.38" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	3210+00.24	607419.7212	1980680.401
End:	3213+00.38	607651.1523	1980871.505
Parameter	Value	Parameter	Value
Length:	300.13	Course:	N 39° 32' 53.29" E

Alignment: ℄ RAMP L
Description: EB I-44 to NB US 81

Curve Point Data

Description	Station	Northing	Easting
PC:	210+19.06	605741.8413487	1979202.9766919
RP:		617401.2719783	1966467.7393389
PCC:	213+55.35	605992.0739445	1979427.6310541

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	01° 06' 57.30"	Type:	LEFT
Radius:	17266.40	Tangent:	168.15
Length:	336.29	External:	0.82
Mid-Ord:	0.82	Course:	N 41° 55' 00.95" E
Chord:	336.28		

Curve Point Data

Description	Station	Northing	Easting
PCC:	213+55.35	605992.0739445	1979427.6310541
RP:		605826.8803087	1979615.2771643
PT:	225+49.87	605650.4824779	1979438.1224147

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	273° 45' 49.30"	Type:	RIGHT
Radius:	250.00	Tangent:	234.09
Length:	1194.52	External:	592.49
Mid-Ord:	432.49	Course:	S 01° 45' 33.06" E
Chord:	341.75		

Tangent Data

Description	PT Station	Northing	Easting
Start:	225+49.87	605650.4824779	1979438.1224147
End:	228+63.32	605872.6035836	1979216.9503529

Tangent Data

Parameter	Value	Parameter	Value
Length:	313.46	Course:	N 44° 52' 38.41" W

Alignment: ℄ RAMP M
Description: NB US 81 to WB I-44

Tangent Data

Description	PT Station	Northing	Easting
Start:	296+57.01	605872.6035836	1979216.9503529
End:	300+00.35	606115.9017090	1978974.6917533
Parameter	Value	Parameter	Value
Length:	343.34	Course:	N 44° 52' 38.41" W

Curve Point Data

Description	Station	Northing	Easting
PC:	300+00.35	606115.9017090	1978974.6917533
RP:		606292.2995398	1979151.8465029
PT:	311+61.62	606127.4089857	1979339.7589962

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	266° 08' 37.79"	Type:	RIGHT
Radius:	250.00	Tangent:	267.42
Length:	1161.27	External:	616.08
Mid-Ord:	420.73	Course:	N 88° 11' 40.48" E
Chord:	365.25		

Tangent Data

Description	PT Station	Northing	Easting
Start:	311+61.62	606127.4089857	1979339.7589962
End:	311+77.52	606115.4585074	1979329.2726206
Parameter	Value	Parameter	Value
Length:	15.90	Course:	S 41° 15' 59.38" W

Curve Point Data

Description	Station	Northing	Easting
PC:	311+77.52	606115.4585074	1979329.2726206
RP:		617401.2718958	1966467.7394310
PT:	315+31.22	605852.0322557	1979093.2565912

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	01° 11' 03.63"	Type:	RIGHT
Radius:	17111.07	Tangent:	176.85
Length:	353.70	External:	0.91
Mid-Ord:	0.91	Course:	S 41° 51' 31.19" W
Chord:	353.69		

Alignment: ℄ RAMP N
Description: WB I44 to NB US 81

Tangent Data

Description	PT Station	Northing	Easting
Start:	4175+94.04	607741.7305054	1980768.2769464
End:	4178+94.17	607522.1715733	1980563.6434317
Parameter	Value	Parameter	Value
Length:	300.13	Course:	S 42° 59' 05.47" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	4178+94.17	607522.1715733	1980563.6434317
End:	4181+98.78	607293.2140589	1980362.7364524
Parameter	Value	Parameter	Value
Length:	304.61	Course:	S 41° 15' 59.38" W

Curve Point Data

Description	Station	Northing	Easting
PC:	4181+98.78	607293.2140589	1980362.7364524
RP:		608414.4698031	1979084.9315243
PT:	4209+83.76	607215.1179073	1977880.1265988

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	93° 51' 48.47"	Type:	RIGHT
Radius:	1700.00	Tangent:	1818.68
Length:	2784.98	External:	789.5
Mid-Ord:	539.12	Course:	S 88° 11' 53.61" W
Chord:	2483.84		

Tangent Data

Description	PT Station	Northing	Easting
Start:	4209+83.76	607215.1179	1977880.127
End:	4212+37.17	607394.7093	1977701.348
Parameter	Value	Parameter	Value
Length:	253.41	Course:	N 44° 52' 12.16" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	4212+37.17	607394.7093	1977701.348
End:	4215+37.31	607600.9447	1977483.293
Parameter	Value	Parameter	Value
Length:	300.13	Course:	N 46° 35' 44.50" W

Alignment: ℄ US 81 NB CD RD. 1
Description: ℄ US 81 NB CD RD. 1

Curve Point Data

Description	Station	Northing	Easting
PC:	264+50.00	603549.5719	1981453.753
RP:		599813.0202	1977020.908
PT:	265+13.06	603597.5622	1981412.853

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	00° 37' 23.37"	Type:	LEFT
Radius:	5797.58	Tangent:	31.53
Length:	63.06	External:	0.09
Mid-Ord:	0.09	Course:	N 40° 26' 23.72" W
Chord:	63.06		

Tangent Data

Description	PT Station	Northing	Easting
Start:	265+13.06	603597.5622293	1981412.8525035
End:	268+48.35	603851.5671462	1981193.9762672
Parameter	Value	Parameter	Value
Length:	335.30	Course:	N 40° 45' 05.40" W

Curve Point Data

Description	Station	Northing	Easting
PC:	268+48.35	603851.5671462	1981193.9762672
RP:		599804.3336081	1976497.1794130
PT:	272+94.81	604178.9998116	1980890.6172024

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	04° 07' 33.00"	Type:	LEFT
Radius:	6200.00	Tangent:	223.33
Length:	446.46	External:	4.02
Mid-Ord:	4.02	Course:	N 42° 48' 51.91" W
Chord:	446.36		

Tangent Data

Description	PT Station	Northing	Easting
Start:	272+94.81	604178.9998116	1980890.6172024
End:	273+18.85	604196.0304214	1980873.6593583
Parameter	Value	Parameter	Value
Length:	24.03	Course:	N 44° 52' 38.41" W

Alignment: ℄ US 81 NB CD RD. 2
Description: ℄ US 81 NB CD RD. 2

Tangent Data

Description	PT Station	Northing	Easting
Start:	273+28.50	604168.4159417	1980879.9879175
End:	321+57.53	607590.3608383	1977472.6637657
Parameter	Value	Parameter	Value
Length:	4829.03	Course:	N 44° 52' 38.41" W

Alignment: ℄ US 81 NB CD RD. 3
Description: ℄ US 81 NB CD RD. 3

Curve Point Data

Description	Station	Northing	Easting
PC:	321+57.53	607600.9447082	1977483.2930507
RP:		603579.0741665	1973444.1647606
PT:	324+57.53	607807.8631025	1977266.1202983

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	03° 00' 56.04"	Type:	LEFT
Radius:	5700.00	Tangent:	150.03
Length:	300.00	External:	1.97
Mid-Ord:	1.97	Course:	N 46° 23' 06.43" W
Chord:	299.97		

Tangent Data

Description	PT Station	Northing	Easting
Start:	324+57.53	607807.8631025	1977266.1202983
End:	326+35.85	607927.4292003	1977133.8268202
Parameter	Value	Parameter	Value
Length:	178.32	Course:	N 47° 53' 34.45" W

Curve Point Data

Description	Station	Northing	Easting
PC:	326+35.85	607927.4292003	1977133.8268202
RP:		612156.2181368	1980955.7823585
PT:	329+35.85	608134.3475946	1976916.6540678

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	03° 00' 56.04"	Type:	RIGHT
Radius:	5700.00	Tangent:	150.03
Length:	300.00	External:	1.97
Mid-Ord:	1.97	Course:	N 46° 23' 06.43" W
Chord:	299.97		

Tangent Data

Description	PT Station	Northing	Easting
Start:	329+35.85	608134.3475946	1976916.6540678
End:	336+03.05	608607.1417555	1976445.8799870
Parameter	Value	Parameter	Value
Length:	667.21	Course:	N 44° 52' 38.41" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	336+03.05	608607.1417555	1976445.8799870
End:	339+03.29	608811.2603591	1976225.6991621
Parameter	Value	Parameter	Value
Length:	300.24	Course:	N 47° 10' 04.61" W

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A004	A009	A017
A002	A007	A010	A018
A003	A008	A011	A019

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R031

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

Alignment: CRL EW 140.5
Description: CRL EW 140.5

Tangent Data

Description	PT Station	Northing	Easting
Start:	28+00.00	598756.4866929	1982251.7159825
End:	37+00.00	598753.1185502	1983151.7096801
Parameter	Value	Parameter	Value
Length:	900.00	Course:	S 89° 47' 08.08" E

Alignment: CRL FRONTAGE RD WEST ALTERNATE
Description: WEST ALTERNATE

Tangent Data

Description	PT Station	Northing	Easting
Start:	5113+67.22	598755.3826893	1982546.7142445
End:	5121+49.94	599538.1070955	1982545.8204318
Parameter	Value	Parameter	Value
Length:	782.72	Course:	N 00° 03' 55.54" W

Curve Point Data

Description	Station	Northing	Easting
PC:	5121+49.94	599538.1070955	1982545.8204318
RP:		599536.8623978	1981455.8211424
PT:	5132+30.00	600449.3371160	1982052.0508705

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	56° 46' 23.33"	Type:	LEFT
Radius:	1090.00	Tangent:	589.03
Length:	1080.06	External:	148.97
Mid-Ord:	131.06	Course:	N 28° 27' 07.20" W
Chord:	1036.41		

Tangent Data

Description	PT Station	Northing	Easting
Start:	5132+30.00	600449.3371160	1982052.0508705
End:	5137+07.97	600710.7871700	1981651.9256283
Parameter	Value	Parameter	Value
Length:	477.97	Course:	N 56° 50' 18.87" W

Curve Point Data

Description	Station	Northing	Easting
PC:	5137+07.97	600710.7871700	1981651.9256283
RP:		601222.2752918	1981986.1424759
PT:	5143+12.45	601220.6295898	1981375.1446922

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	56° 41' 03.30"	Type:	RIGHT
Radius:	611.00	Tangent:	329.57
Length:	604.48	External:	83.22
Mid-Ord:	73.24	Course:	N 28° 29' 47.22" W
Chord:	580.13		

Tangent Data

Description	PT Station	Northing	Easting
Start:	5143+12.45	601220.6295898	1981375.1446922
End:	5145+03.70	601411.8799958	1981374.6295657
Parameter	Value	Parameter	Value
Length:	191.25	Course:	N 00° 09' 15.57" W

Alignment: CRL SURVEY NS 283 (16TH AVE)
Description: CONNECTION TO OLD QUAIL RD.

Tangent Data

Description	PT Station	Northing	Easting
Start:	19+90.00	601652.0249968	1983846.4114633
End:	20+85.00	601618.9599903	1983757.3513412
Parameter	Value	Parameter	Value
Length:	95.00	Course:	S 69° 37' 54.28" W

Curve Point Data

Description	Station	Northing	Easting
PC:	20+85.00	601618.9599903	1983757.3513412
RP:		602337.0658168	1983490.7429730
PT:	35+63.46	602339.9869685	1982724.7485430

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	110° 35' 12.32"	Type:	RIGHT
Radius:	766.00	Tangent:	1105.97
Length:	1478.46	External:	579.34
Mid-Ord:	329.86	Course:	N 55° 04' 29.56" W
Chord:	1259.42		

Tangent Data

Description	PT Station	Northing	Easting
Start:	35+63.46	602339.9869685	1982724.7485430
End:	38+00.00	602576.5263695	1982725.6505958
Parameter	Value	Parameter	Value
Length:	236.54	Course:	N 00° 13' 06.60" E

Alignment: CRL FRONTAGE RD.
Description: CRL FRONTAGE RD.

Tangent Data

Description	PT Station	Northing	Easting
Start:	5113+67.22	598755.3826893	1982546.7142445
End:	5126+73.04	600061.2012399	1982545.1980147
Parameter	Value	Parameter	Value
Length:	1305.82	Course:	N 00° 03' 59.50" W

Curve Point Data

Description	Station	Northing	Easting
PC:	5126+73.04	600061.2012399	1982545.1980147
RP:		600059.9936618	1981505.1987158
PT:	5133+90.82	600723.0595129	1982306.4125930

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	39° 32' 37.80"	Type:	LEFT
Radius:	1040.00	Tangent:	373.85
Length:	717.78	External:	65.15
Mid-Ord:	61.31	Course:	N 19° 50' 18.40" W
Chord:	703.62		

Tangent Data

Description	PT Station	Northing	Easting
Start:	5133+90.82	600723.0595129	1982306.4125930
End:	5138+67.86	601090.5693598	1982002.2700459
Parameter	Value	Parameter	Value
Length:	477.04	Course:	N 39° 36' 37.30" W

Curve Point Data

Description	Station	Northing	Easting
PC:	5138+67.86	601090.5693598	1982002.2700459
RP:		601643.9743202	1982670.9754742
PT:	5141+62.60	601344.9049861	1981856.1248539

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	19° 27' 21.73"	Type:	RIGHT
Radius:	868.00	Tangent:	148.81
Length:	294.75	External:	12.66
Mid-Ord:	12.48	Course:	N 29° 52' 56.43" W
Chord:	293.33		

Tangent Data

Description	PT Station	Northing	Easting
Start:	5141+62.60	601344.9049861	1981856.1248539
End:	5142+35.26	601413.1094626	1981831.0922076
Parameter	Value	Parameter	Value
Length:	72.65	Course:	N 20° 09' 15.57" W

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A004	A009	A017
A002	A007	A010	A018
A003	A008	A011	A019

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R032

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

Alignment: BL RAMP O
Description: Country Club to SB US 81

Tangent Data

Description	PT Station	Northing	Easting
Start:	998+66.78	609808.3001	1975074.8656
End:	1001+67.02	610012.4187	1974854.6847
Parameter	Value	Parameter	Value
Length:	300.24	Course:	N 47° 10' 04.81" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	1001+67.02	610012.4187	1974854.6847
End:	1012+11.02	610752.2169	1974118.0474
Parameter	Value	Parameter	Value
Length:	1044.00	Course:	N 44° 52' 38.41" W

Curve Point Data

Description	Station	Northing	Easting
PC:	1012+11.02	610752.2169	1974118.0474
PI:	1016+45.95	611060.4181	1973811.1630
RP:		609741.5349	1973103.0286
PT:	1020+55.54	611145.9525	1973384.7243

Circular Curve Data

Parameter	Value	Parmaeter	Value
Delta:	10° 46' 51.15"	Type:	LEFT
Radius:	1432.39	Tangent:	434.93
Length:	844.52	External:	64.58
Mid-Ord:	61.79	Course:	N 61° 46' 03.99" W
Chord:	832.34		

Tangent Data

Description	PT Station	Northing	Easting
Start:	1020+55.54	611145.9525	1973384.724
End:	1026+51.26	611263.1083	1972800.634
Parameter	Value	Parameter	Value
Length:	595.72	Course:	N 78° 39' 29.56" W

Curve Point Data

Description	Station	Northing	Easting
PC:	1026.51.26	611263.1083	1972800.6342
PI:	1029+28.29	611317.5887	1972529.0176
RP:		611596.4686	1972867.4990
PT:	1031+16.17	611594.611	1972527.5041

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	78° 20' 42.63"	Type:	RIGHT
Radius:	340.00	Tangent:	277.03
Length:	464.91	External:	98.57
Mid-Ord:	76.42	Course:	N 39° 29' 08.25" W
Chord:	429.53		

Tangent Data

Description	PT Station	Northing	Easting
Start:	1031+16.17	611594.6110	1972527.2921
End:	1035+21.04	611999.4748	1972525.2921
Parameter	Value	Parameter	Value
Length:	404.87	Course:	N 0° 18' 46.93" W

Alignment: BL RAMP P
Description: SB US 81 to Country Club

Tangent Data

Description	PT Station	Northing	Easting
Start:	1050+00.00	611999.6770	1972562.2911
End:	1053+80.98	611618.7021	1972564.3726
Parameter	Value	Parameter	Value
Length:	380.98	Course:	S 0° 18' 46.93"E

Curve Point Data

Description	Station	Northing	Easting
PC:	1053+80.98	611618.7021	1972564.3726
RP:		611620.3192	1972860.3682
PT:	1064+81.88	611783.3093	1973107.4516

Circular Curve Data

Parameter	Value	Parmaeter	Value
Delta:	213° 05' 52.95"	Type:	LEFT
Radius:	296.00	Tangent:	-1.00
Length:	1100.90	External:	-1.00
Mid-Ord:	-1.00	Course:	N 08' 16.60" E
Chord:	567.48		

Tangent Data

Description	PT Station	Northing	Easting
Start:	1064+81.88	611783.3093	1973107.452
End:	1070+06.58	612221.2995	1972818.529
Parameter	Value	Parameter	Value
Length:	524.7	Course:	N 33° 24' 39.88" W

Alignment: BL RAMP Q
Description: NB US 81 to Country Club

Tangent Data

Description	PT Station	Northing	Easting
Start:	1090+52.93	611197.8769	1973849.2798
End:	1093+53.17	611418.9297	1973646.1058
Parameter	Value	Parameter	Value
Length:	300.24	Course:	N 42° 35' 12.21" W

Curve Point Data

Description	Station	Northing	Easting
PC:	1093+53.17	611418.9297	1973646.1058
PI:	1099+00.14	611806.5205	1973260.1710
RP:		615413.6913	1977658.0089
PCC:	1104+43.72	612260.8240	1972955.5718

Circular Curve Data

Parameter	Value	Parmaeter	Value
Delta:	11° 02' 11.27"	Type:	RIGHT
Radius:	5661.58	Tangent:	546.97
Length:	1090.55	External:	26.36
Mid-Ord:	26.24	Course:	N 39° 21' 32.77" W
Chord:	1088.86		

Curve Point Data

Description	Station	Northing	Easting
PCC:	1104+43.72	612260.8240	1972955.5718
RP:		612438.0871	1973219.9561
PT:	1116+29.98	612439.8262	1973538.2613

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	213° 31' 40.21"	Type:	RIGHT
Radius:	318.31	Tangent:	-1.00
Length:	1186.27	External:	-1.00
Mid-Ord:	-1.00	Course:	N 72° 55' 22.97" E
Chord:	609.56		

Tangent Data

Description	PT Station	Northing	Easting
Start:	1116+29.98	612439.8262	1973538.2613
End:	1120+64.80	612005.0222	1973540.6369
Parameter	Value	Parameter	Value
Length:	434.81	Course:	S 0° 18' 46.93" E

Alignment: BL RAMP R
Description: Country Club to NB US 81

Tangent Data

Description	PT Station	Northing	Easting
Start:	1150+00.00	612005.2244	1973577.6364
End:	1154+34.81	612440.0283	1973575.2608
Parameter	Value	Parameter	Value
Length:	434.81	Course:	N 0° 18' 46.93" W

Curve Point Data

Description	Station	Northing	Easting
PC:	1154+34.81	612440.0283	1973575.2600
PI:	1156+96.14	612701.3566	1973573.8330
RP:		612438.8071	1973219.9561
PT:	1158+85.46	612777.8397	1973323.9434

Circular Curve Data

Parameter	Value	Parmaeter	Value
Delta:	72° 40' 09.51"	Type:	LEFT
Radius:	355.31	Tangent:	261.33
Length:	450.65	External:	85.76
Mid-Ord:	69.08	Course:	N 36° 38' 51.68" W
Chord:	421.04		

Tangent Data

Description	PT Station	Northing	Easting
Start:	1158+85.46	612777.8397	1973323.943
End:	1161+74.00	612862.2878	1973048.03
Parameter	Value	Parameter	Value
Length:	288.55	Course:	N 72° 58' 56.44" W

Curve Point Data

Description	Station	Northing	Easting
PC:	1161+74.00	612862.2878	1973048.0304
PI:	1167+60.11	613033.8199	1972487.5917
RP:		613958.0294	1973383.4015
PCC:	1172+57.54	613588.6338	1972298.6571

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	54° 10' 36.25"	Type:	RIGHT
Radius:	1145.92	Tangent:	586.10
Length:	1083.54	External:	141.19
Mid-Ord:	125.70	Course:	N 45° 53' 38.31" W
Chord:	1043.62		

Curve Point Data

Description	Station	Northing	Easting
PCC:	1172+57.54	613588.4047	1972298.7351
PI:	1172+57.54	613626.9132	1972285.6197
RP:		615413.6910	1977658.0081
PT:	1173+38.90	613665.6062	1972273.0590

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	0° 49' 24.14"	Type:	RIGHT
Radius:	5661.58	Tangent:	40.68
Length:	81.36	External:	0.15
Mid-Ord:	0.15	Course:	N 18° 23' 46.94" W
Chord:	81.36		

Alignment: BL RAMP S
Description: Grand Ave to SB US 81

Tangent Data

Description	PT Station	Northing	Easting
Start:	1207+76.56	615588.0591	1971876.6322
End:	1212+28.10	616039.3921	1971876.6322
Parameter	Value	Parameter	Value
Length:	451.54	Course:	N 1° 43' 24.55" E

Curve Point Data

Description	Station	Northing	Easting
PC:	1212+28.10	616039.3921	1971876.6322
PI:	1215+01.72	616312.8924	1971884.8617
RP:		616082.4727	1970444.8862
PT:	1217+68.83	616570.1684	1971791.6993

Circular Curve Data

Parameter	Value	Parmaeter	Value
Delta:	21° 37' 45.70"	Type:	LEFT
Radius:	1432.39	Tangent:	273.62
Length:	540.73	External:	25.90
Mid-Ord:	25.44	Course:	N 9° 05' 28.30" W
Chord:	537.53		

Tangent Data

Description	PT Station	Northing	Easting
Start:	1217+68.83	616570.1684	1971791.6993
End:	1221+96.75	616972.5191	1971646.0037
Parameter	Value	Parameter	Value
Length:	427.92	Course:	N 19° 54' 21.15" W

Curve Point Data

Description	Station	Northing	Easting
PC:	1221+96.75	616972.5191	1971646.0037
PI:	1222+99.41	617069.0460	1971611.0502
RP:		617156.3762	1972153.7404
PT:	1223+99.65	617171.6653	1971613.9569

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	21° 31' 41.96"	Type:	RIGHT
Radius:	540.00	Tangent:	102.66
Length:	202.90	External:	9.67
Mid-Ord:	9.50	Course:	N 9° 08' 30.17" W
Chord:	201.71		

Tangent Data

Description	PT Station	Northing	Easting
Start:	1223+99.65	617171.6653	1971613.9569
End:	1225+39.61	617311.5707	1971617.9197
Parameter	Value	Parameter	Value
Length:	139.96	Course:	N 1° 37' 20.81" E

Alignment: BL RAMP T
Description: SB US 81 to Grand Ave

Tangent Data

Description	PT Station	Northing	Easting
Start:	1250+00.00	617311.5707	1971617.9197
End:	1251+44.77	617456.2893	1971621.8547
Parameter	Value	Parameter	Value
Length:	144.77	Course:	N 1° 33' 27.15" E

Curve Point Data

Description	Station	Northing	Easting
PC:	1251+44.77	617456.2893	1971621.8547
PI:	1252+77.39	617574.3883	1971625.0659
RP:		617441.6117	1972161.6552
PT:	1253+77.39	617680.3570	1971677.2993

Circular Curve Data

Parameter	Value	Parmaeter	Value
Delta:	24° 40' 54.29"	Type:	RIGHT
Radius:	540.00	Tangent:	118.14
Length:	232.62	External:	12.77
Mid-Ord:	12.48	Course:	N 13° 53' 54.30" E
Chord:	230.83		

Tangent Data

Description	PT Station	Northing	Easting
Start:	1253+77.39	617680.3570	1971677.2993
End:	1256+65.29	617938.5884	1971804.5849
Parameter	Value	Parameter	Value
Length:	287.90	Course:	N 26° 14' 21.44" E

Curve Point Data

Description	Station	Northing	Easting
PC:	1256+65.29	617938.5884	1971804.5849
PI:	1259+76.50	618217.7300	1971942.1774
RP:		618571.8799	1970519.7914
PT:	1262+78.18	618528.7993	1971951.5374

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	24° 30' 56.90"	Type:	LEFT
Radius:	1432.39	Tangent:	311.21
Length:	612.89	External:	33.42
Mid-Ord:	32.66	Course:	N 13° 58' 53.00" E
Chord:	608.23		

Tangent Data

Description	PT Station	Northing	Easting
Start:	1262+78.18	618528.7993	1971951.5374
End:	1270+78.18	619328.4374	1971975.5982
Parameter	Value	Parameter	Value
Length:	800.00	Course:	N 1° 43' 24.55" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	1270+78.18	619328.4374	1971975.5982
End:	1273+78.42	619627.9408	1971996.6155
Parameter	Value	Parameter	Value
Length:	300.24	Course:	N 4° 00' 50.74" E

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001 A013
A005 A014
A006 A015

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No RXXX

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

Alignment: BL RAMP U
Description: NB US 81 to Grand Ave

Tangent Data

Description	PT Station	Northing	Easting
Start:	1298+76.22	615583.9688	1971998.9902
End:	1303+78.52	616085.5378	1972014.0822
Parameter	Value	Parameter	Value
Length:	501.80	Course:	N 1° 43' 24.55" E

Curve Point Data

Description	Station	Northing	Easting
PC:	1303+78.52	616085.5378	1972014.0822
PI:	1306+89.73	616396.6071	1972023.4422
RP:		616042.4572	1973445.8282
PT:	1309+91.41	616675.7487	1972161.0347

Circular Curve Data

Parameter	Value	Parmaeter	Value
Delta:	24° 30' 56.90"	Type:	RIGHT
Radius:	1432.39	Tangent:	311.21
Length:	612.89	External:	33.42
Mid-Ord:	32.66	Course:	N 13° 58' 53.00" E
Chord:	608.23		

Tangent Data

Description	PT Station	Northing	Easting
Start:	1309+91.41	616675.7487	1972161.0347
End:	1312+80.08	616934.6731	1972288.6619
Parameter	Value	Parameter	Value
Length:	288.67	Course:	N 26° 14' 21.44" E

Curve Point Data

Description	Station	Northing	Easting
PC:	1312+80.08	616934.6731	1972288.6619
PI:	1313+98.22	617040.6417	1972340.8953
RP:		617173.4184	1971804.3060
PT:	1315+12.70	617158.7407	1972344.1065

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	24° 40' 54.29"	Type:	LEFT
Radius:	540.00	Tangent:	118.14
Length:	232.62	External:	12.77
Mid-Ord:	12.48	Course:	N 13° 53' 54.30" E
Chord:	230.83		

Tangent Data

Description	PT Station	Northing	Easting
Start:	1315+12.70	617158.7407	1972344.1065
End:	1316+65.91	617311.8959	1972348.2709
Parameter	Value	Parameter	Value
Length:	153.21	Course:	N 1° 33' 27.15" E

Alignment: BL RAMP V
Description: Grand Ave to NB US 81

Tangent Data

Description	PT Station	Northing	Easting
Start:	1350+00.00	617311.8959	1972348.2708
End:	1351+40.07	617451.9127	1972352.2367
Parameter	Value	Parameter	Value
Length:	140.07	Course:	N 1° 37' 20.81" E

Curve Point Data

Description	Station	Northing	Easting
PC:	1351+40.07	617451.9127	1972352.2367
PI:	1352+42.73	617554.5320	1972355.1434
RP:		617467.2019	1971812.4532
PT:	1353+42.97	617651.0589	1972320.1899

Circular Curve Data

Parameter	Value	Parmaeter	Value
Delta:	21° 31' 41.96"	Type:	LEFT
Radius:	540.00	Tangent:	102.66
Length:	202.90	External:	9.67
Mid-Ord:	9.50	Course:	N 9° 08' 30.17" W
Chord:	201.71		

Tangent Data

Description	PT Station	Northing	Easting
Start:	1353+42.97	617651.0589	1972320.1899
End:	1357+71.69	618054.1642	1972174.221
Parameter	Value	Parameter	Value
Length:	428.72	Course:	N 19° 54' 21.15" W

Curve Point Data

Description	Station	Northing	Easting
PC:	1357+71.69	618054.1642	1972174.2211
PI:	1360+45.32	618311.4401	1972081.0587
RP:		618541.8599	1973521.0342
PT:	1363+12.43	618584.9405	1972089.2882

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	21° 37' 45.70"	Type:	RIGHT
Radius:	1432.39	Tangent:	273.62
Length:	540.73	External:	25.90
Mid-Ord:	25.44	Course:	N 9° 05' 28.30" W
Chord:	537.53		

Tangent Data

Description	PT Station	Northing	Easting
Start:	1363+12.43	618584.9405	1972089.2882
End:	1371+12.43	619384.5786	1972113.3490
Parameter	Value	Parameter	Value
Length:	800.00	Course:	N 1° 43' 24.55" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	1371+12.43	619384.5786	1972113.3490
End:	1374+12.67	619684.8038	1972110.3772
Parameter	Value	Parameter	Value
Length:	300.24	Course:	N 0° 34' 01.65" W

Alignment: County Road
Description: County Road

Tangent Data

Description	PT Station	Northing	Easting
Start:	300+00.00	620001.2987	1972365.8962
End:	300+90.47	620091.6300	1972360.8285
Parameter	Value	Parameter	Value
Length:	90.47	Course:	N 3° 12' 39.46" W

Curve Point Data

Description	Station	Northing	Easting
PC:	300+90.47	620091.6300	1972360.8285
PI:	303+05.57	620306.3916	1972348.7803
RP:		620371.6926	1977352.9789
PT:	305+20.41	620521.3944	1972355.2204

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	4° 55' 36.03"	Type:	RIGHT
Radius:	5000.00	Tangent:	215.10
Length:	429.93	External:	4.62
Mid-Ord:	4.62	Course:	N 0° 44' 51.45" W
Chord:	429.80		

Tangent Data

Description	PT Station	Northing	Easting
Start:	305+20.41	620521.3944	1972355.2204
End:	320+56.73	622057.0316	1972401.2186
Parameter	Value	Parameter	Value
Length:	1536.33	Course:	N 1° 42' 56.57" E

Curve Point Data

Description	Station	Northing	Easting
PC:	320+56.73	622057.0316	1972401.2186
PI:	322+52.78	622252.9957	1972407.0884
RP:		622048.0495	1972701.0841
PT:	324+04.03	622326.2937	1972588.9229

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	66° 19' 47.13"	Type:	RIGHT
Radius:	300.00	Tangent:	196.05
Length:	347.30	External:	58.38
Mid-Ord:	48.87	Course:	N 34° 52' 50.13" E
Chord:	328.23		

Tangent Data

Description	PT Station	Northing	Easting
Start:	324+04.03	622326.2937	1972588.9229
End:	324+80.46	622354.8680	1972659.8085
Parameter	Value	Parameter	Value
Length:	76.43	Course:	N 68° 02' 43.70" E

Curve Point Data

Description	Station	Northing	Easting
PC:	324+80.46	622354.8680	1972659.8085
PI:	325+81.98	622392.8236	1972753.9671
RP:		622493.9901	1972603.7279
PT:	326+58.96	622494.3441	1972753.7275

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	68° 10' 50.49"	Type:	LEFT
Radius:	150.00	Tangent:	101.52
Length:	178.50	External:	31.13
Mid-Ord:	25.78	Course:	N 33° 57' 18.45" E
Chord:	168.15		

Tangent Data

Description	PT Station	Northing	Easting
Start:	326+58.96	622494.3441	1972753.7275
End:	327+53.58	622588.9600	1972753.5042
Parameter	Value	Parameter	Value
Length:	94.62	Course:	N 0° 08' 06.80" W

Alignment: Idaho Ave
Description: County Road

Tangent Data

Description	PT Station	Northing	Easting
Start:	1800+00.00	622589.7015	1971053.5069
End:	1809+00.00	622587.9363	1971953.5051
Parameter	Value	Parameter	Value
Length:	900.00	Course:	S 89° 53' 15.44" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	1809+00.00	622587.9363	1971953.5051
End:	1814+00.00	622588.2520	1972453.5039
Parameter	Value	Parameter	Value
Length:	500.00	Course:	N 89° 57' 49.76" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	1814+00.00	622588.2520	1972453.5039
End:	1822+00.01	622590.1401	1973253.5119
Parameter	Value	Parameter	Value
Length:	800.01	Course:	N 89° 51' 53.20" E

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001	A013
A005	A014
A006	A015

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No RXXX

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

Alignment: ℄ Ramp W
Description: IOWA AVE TO US-81 SB ENTRANCE

Tangent Data

Description	PT Station	Northing	Easting
Start:	398+96.26	623287.3382262	1972358.3616818
End:	401+78.74	623547.4742907	1972468.4639685
Parameter	Value	Parameter	Value
Length:	282.48	Course:	N 22°56'25.64" E

Curve Point Data

Description	PT Station	Northing	Easting
PC:	401+78.74	623547.4742907	1972468.4639685
PI:		623724.6164819	1972543.4391948
PT:	405+60.63	623915.9307733	1972563.4262502

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	16°58'34.55"	Type:	Left
Radius:	1288.91	Tangent:	192.36
Length:	381.89	External:	14.27
Mid-Ord:	14.12	Course:	N 14°27'08.36" E
Chord:	380.50		

Tangent Data

Description	PT Station	Northing	Easting
Start:	405+60.63	623915.9307733	1972563.4262502
End:	407+76.63	624130.7615206	1972585.8701252
Parameter	Value	Parameter	Value
Length:	216.00	Course:	N 5°57'51.08" E

Curve Point Data

Description	PT Station	Northing	Easting
PC:	407+76.63	624130.7615206	1972585.8701252
PI:		624339.9865198	1972607.7283545
PT:	411+83.01	624495.0912018	1972749.8389455

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	36°31'56.87"	Type:	Right
Radius:	637.34	Tangent:	210.36
Length:	406.38	External:	33.82
Mid-Ord:	32.12	Course:	N 24°13'49.52" E
Chord:	399.53		

Tangent Data

Description	PT Station	Northing	Easting
Start:	411+83.01	624495.0912018	1972749.8389455
End:	413+29.39	624603.0223436	1972848.7280193
Parameter	Value	Parameter	Value
Length:	146.38	Course:	N 42°29'47.95" E

Alignment: ℄ Ramp X
Description: US-81 SB TO IOWA AVE EXIT

Tangent Data

Description	PT Station	Northing	Easting
Start:	410+71.83	624603.0223568	1972848.7280050
End:	412+22.06	624713.7915986	1972950.2174244
Pcrameter	Value	Parameter	Value
Length:	150.23	Course:	N 42°29'47.96" E

Curve Point Data

Description	PT Station	Northing	Easting
PC:	412+22.06	624713.7915986	1972950.2174244
PI:		624840.9555677	1973066.7280838
PT:	415+55.17	624873.4781391	1973236.1024949

Circular Curve Point Data

Pcrameter	Value	Parameter	Value
Delta:	36°38'02.19"	Type:	Right
Radius:	520.98	Tangent:	172.47
Length:	333.11	External:	27.81
Mid-Ord:	26.40	Course:	N 60°48'49.06" E
Chord:	327.46		

Tangent Data

Description	PT Station	Northing	Easting
Start:	415+55.17	624873.4781391	1973236.1024949
End:	417+82.22	624916.2938223	1973459.0824389
Pcrameter	Value	Parameter	Value
Length:	227.05	Course:	N 79°07'50.16" E

Curve Point Data

Description	PT Station	Northing	Easting
PC:	417+82.22	624916.2938223	1973459.0824389
PI:		624953.3412076	1973652.0216443
PT:	421+72.01	625047.3842728	1973824.5149706

Circular Curve Point Data

Pcrameter	Value	Parameter	Value
Delta:	17°43'47.07"	Type:	Left
Radius:	1259.64	Tangent:	196.46
Length:	389.79	External:	15.23
Mid-Ord:	15.05	Course:	N 70°15'56.62" E
Chord:	388.23		

Tangent Data

Description	PT Station	Northing	Easting
Start:	421+72.01	625047.3842728	1973824.5149706
End:	424+59.49	625184.9968665	1974076.9233111
Pcrameter	Value	Parameter	Value
Length:	287.48	Course:	N 61°24'03.09" E

Alignment: ℄ Ramp Y
Description: US-81 NB TO IOWA AVE EXIT

Curve Point Data

Description	PT Station	Northing	Easting
PC:	399+37.32	623271.3868960	1972499.5257155
PI:		623536.8650864	1972615.2698791
PT:	404+97.22	623683.0454641	1972865.2832352

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	36°07'45.02"	Type:	Right
Radius:	887.93	Tangent:	289.61
Length:	559.90	External:	46.04
Mid-Ord:	43.77	Course:	N 41°37'15.61" E
Chord:	550.67		

Tangent Data

Description	PT Station	Northing	Easting
Start:	404+97.22	623683.0454641	1972865.2832352
End:	407+08.72	623789.7990990	1973047.8647483
Parameter	Value	Parameter	Value
Length:	211.50	Course:	N 59°41'08.12" E

Curve Point Data

Description	PT Station	Northing	Easting
PC:	407+08.72	623789.7990990	1973047.8647483
PI:		623868.0345557	1973181.6714151
PT:	410+16.40	623982.3186785	1973286.3812525

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	17°11'20.16"	Type:	Left
Radius:	1025.56	Tangent:	155.00
Length:	307.67	External:	11.65
Mid-Ord:	11.52	Course:	N 51°05'28.04" E
Chord:	306.52		

Tangent Data

Description	PT Station	Northing	Easting
Start:	410+16.40	623982.3186785	1973286.3812525
End:	411+78.40	624101.7638475	1973395.8197633
Parameter	Value	Parameter	Value
Length:	162.00	Course:	N 42°29'47.96" E

Alignment: ℄ CR 1355
Description: County Road 1355

Tangent Data

Description	PT Station	Northing	Easting
Start:	10+00.00	625247.5277679	1973431.1507788
End:	13+01.45	625247.7417294	1973732.5972995
Parameter	Value	Parameter	Value
Length:	301.45	Course:	N 89°57'33.60" E

Curve Point Data

Description	PT Station	Northing	Easting
PC:	13+01.45	625247.7417294	1973732.5972995
PI:		625247.7954769	1973808.3212045
PT:	14+49.54	625285.0876317	1973874.2257405

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	29°27'45.84"	Type:	Left
Radius:	288.00	Tangent:	75.72
Length:	148.10	External:	9.79
Mid-Ord:	9.47	Course:	N 75°13'40.68" E
Chord:	146.47		

Tangent Data

Description	PT Station	Northing	Easting
Start:	14+49.54	625285.0876317	1973874.2257405
End:	16+73.63	625395.4460663	1974069.2566110
Parameter	Value	Parameter	Value
Length:	224.09	Course:	N 60°29'47.76" E

Curve Point Data

Description	PT Station	Northing	Easting
PC:	16+73.63	625395.4460663	1974069.2566110
PI:		625424.2405051	1974120.1435639
PT:	17+90.07	625440.8455894	1974176.2048951

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	13°00'15.75"	Type:	Right
Radius:	513.00	Tangent:	58.47
Length:	116.44	External:	3.32
Mid-Ord:	3.30	Course:	N 66°59'55.64" E
Chord:	116.19		

Tangent Data

Description	PT Station	Northing	Easting
Start:	17+90.07	625440.8455894	1974176.2048951
End:	22+66.07	625576.0310268	1974632.6118267
Parameter	Value	Parameter	Value
Length:	476.01	Course:	N 73°30'03.51" E

Curve Point Data

Description	PT Station	Northing	Easting
PC:	22+66.07	625576.0310268	1974632.6118267
PI:		625609.0743192	1974744.1710893
PT:	24+65.69	625725.4228930	1974743.5900466

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	73°47'13.59"	Type:	Left
Radius:	155.00	Tangent:	116.35
Length:	199.61	External:	38.81
Mid-Ord:	31.04	Course:	N 36°36'26.72" E
Chord:	186.10		

Tangent Data

Description	PT Station	Northing	Easting
Start:	24+65.69	625725.4228930	1974743.5900466
End:	26+27.78	625887.5145159	1974742.7805639
Parameter	Value	Parameter	Value
Length:	162.09	Course:	N 0°17'10.07" W

Alignment: ℄ Ramp Z
Description: IOWA AVE TO US-81 NB ENTRANCE

Tangent Data

Description	PT Station	Northing	Easting
Start:	412+31.00	624101.7638203	1973395.8197929
End:	413+96.95	624224.1269467	1973507.9318059
Parameter	Value	Parameter	Value
Length:	165.96	Course:	N 42°29'47.96" E

Curve Point Data

Description	PT Station	Northing	Easting
PC:	413+96.95	624224.1269467	1973507.9318059
PI:		624335.4933520	1973609.9683610
PT:	416+97.24	624469.8296775	1973679.0167965

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	15°17'37.10"	Type:	Left
Radius:	1125.00	Tangent:	151.04
Length:	300.29	External:	10.09
Mid-Ord:	10.00	Course:	N 34°50'59.41" E
Chord:	299.40		

Tangent Data

Description	PT Station	Northing	Easting
Start:	416+97.24	624469.8296775	1973679.0167965
End:	419+00.50	624650.6000880	1973771.9322012
Parameter	Value	Parameter	Value
Length:	203.25	Course:	N 27°12'10.86" E

Curve Point Data

Description	PT Station	Northing	Easting
PC:	419+00.50	624650.6000880	1973771.9322012
PI:		624960.7049259	1973931.3250820
PT:	425+74.85	625118.3508683	1974242.3216378

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	35°54'58.57"	Type:	Right
Radius:	1075.77	Tangent:	348.67
Length:	674.35	External:	55.09
Mid-Ord:	52.41	Course:	N 45°09'40.15" E
Chord:	663.37		

Alignment: ℄ Driveway CR1355
Description: DRIVEWAY OFF COUNTY RD 135.5

Tangent Data

Description	PT Station	Northing	Easting
Start:	10+00.00	625836.7345097	1974743.0341583
End:	15+60.03	625839.5312350	1975303.0532262
Parameter	Value	Parameter	Value
Length:	560.03	Course:	N 89°42'49.93" E

Alignment: ℄ 2815 Rd
Description: County Road 2815

Tangent Data

Description	PT Station	Northing	Easting
Start:	100+00.00	623620.2836730	1974761.0640752
End:	116+20.20	625240.4660000	1974753.0120000
Parameter	Value	Parameter	Value
Length:	1620.20	Course:	N 0°17'05.10" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	116+20.20	625240.4660000	1974753.0120000
End:	127+55.13	626375.3838115	1974747.3442406
Parameter	Value	Parameter	Value
Length:	1134.93	Course:	N 0°17'10.07" W

Alignment: ℄ DRIVEWAY IOWA
Description: DRIVEWAY OFF IOWA AVE

Tangent Data

Description	PT Station	Northing	Easting
Start:	10+00.00	623917.7741039	1974096.0851748
End:	11+36.82	624054.5903784	1974095.4052206
Parameter	Value	Parameter	Value
Length:	136.82	Course:	N 0°17'05.09" W

Curve Point Data

Description	PT Station	Northing	Easting
PC:	11+36.82	624054.5903784	1974095.4052206
RP:		624053.0994465	1973795.4089254
PT:	11+90.04	624107.5115839	1974090.4331944

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	10°09'54.15"	Type:	Left
Radius:	300.00	Tangent:	26.68
Length:	53.22	External:	1.18
Mid-Ord:	1.18	Course:	N 5°22'02.17" W
Chord:	53.15		

Tangent Data

Description	PT Station	Northing	Easting
Start:	11+90.04	624107.5115839	1974090.4331944
End:	15+24.37	624436.2974849	1974029.7943064
Parameter	Value	Parameter	Value
Length:	334.33	Course:	N 10°26'59.24" W

Alignment: ℄ IOWA AVE
Description: ℄ IOWA AVE

Tangent Data

Description	PT Station	Northing	Easting
Start:	30+70.44	625354.6716322	1972565.4484033
End:	34+12.49	625012.6253460	1972565.4484033
Parameter	Value	Parameter	Value
Length:	342.05	Course:	S 0°00'00.00" W

Curve Point Data

Description	PT Station	Northing	Easting
PC:	34+12.49	625012.6253460	1972565.4484033
PI:		624862.5698800	1972565.4484033
PT:	36+95.21	624761.2003321	1972676.0868127

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	47°30'12.04"	Type:	Left
Radius:	341.00	Tangent:	150.06
Length:	282.72	External:	31.56
Mid-Ord:	28.88	Course:	S 23°45'06.02" E
Chord:	274.69		

Tangent Data

Description	PT Station	Northing	Easting
Start:	36+95.21	624761.2003321	1972676.0868127
End:	47+43.34	624053.1366677	1973448.8932349
Parameter	Value	Parameter	Value
Length:	1048.13	Course:	S 47°30'12.04" E

Curve Point Data

Description	PT Station	Northing	Easting
PC:	47+43.34	624053.1366677	1973448.8932349
PI:		623915.3053000	1973599.3274000
PT:	51+32.27	623916.3192789	1973803.3541036

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	42°46'53.06"	Type:	Left
Radius:	520.87	Tangent:	204.03
Length:	388.92	External:	38.53
Mid-Ord:	35.88	Course:	S 68°53'38.56" E
Chord:	379.95		

Tangent Data

Description	PT Station	Northing	Easting
Start:	51+32.27	623916.3192789	1973803.3541036
End:	62+88.51	623922.0655352	1974959.5809989
Parameter	Value	Parameter	Value
Length:	1156.24	Course:	N 89°42'54.91" E

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001 A004 A009 A017
A002 A007 A010 A018
A003 A008 A011 A019

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R035

US-81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

Alignment: ℄ Ramp AA
Description: US-62 TO US-81 SB ENTRANCE

Curve Point Data

Description	PT Station	Northing	Easting
PC:	468+70.82	626825.7344287	1978084.3320748
PI:		627292.3856122	1978536.2055196
PT:	481+23.60	627937.5137502	1978612.1174603

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	37°22'01.79"	Type:	Left
Radius:	1920.91	Tangent:	649.58
Length:	1252.78	External:	106.86
Mid-Ord:	101.23	Course:	N 25°23'40.89" E
Chord:	1230.70		

Tangent Data

Description	PT Station	Northing	Easting
Start:	481+23.60	627937.5137502	1978612.1174603
End:	483+04.13	628116.8086867	1978633.2150156
Parameter	Value	Parameter	Value
Length:	180.53	Course:	N 6°42'39.99" E

Curve Point Data

Description	PT Station	Northing	Easting
PC:	483+04.13	628116.8086867	1978633.2150156
PI:		628329.1222700	1978658.1978604
PT:	487+25.07	628511.6700022	1978769.4521890

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	24°38'57.30"	Type:	Right
Radius:	978.46	Tangent:	213.78
Length:	420.94	External:	23.08
Mid-Ord:	22.55	Course:	N 19°02'08.64" E
Chord:	417.70		

Tangent Data

Description	PT Station	Northing	Easting
Start:	487+25.07	628511.6700022	1978769.4521890
End:	488+51.02	628619.2197929	1978834.9987702
Parameter	Value	Parameter	Value
Length:	125.95	Course:	N 31°21'37.29" E

Alignment: ℄ Ramp BB
Description: US-81 SB TO US-62 EXIT

Tangent Data

Description	PT Station	Northing	Easting
Start:	488+68.82	628619.2197929	1978834.9987702
End:	491+46.81	628856.5956478	1978979.6682823
Parameter	Value	Parameter	Value
Length:	277.99	Course:	N 31°21'37.29" E

Curve Point Data

Description	PT Station	Northing	Easting
PC:	491+46.81	628856.5956478	1978979.6682823
PI:		628994.9019143	1979063.9595010
PT:	494+70.72	629130.7402031	1979152.1728346

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	1°38'21.55"	Type:	Right
Radius:	11321.10	Tangent:	161.97
Length:	323.91	External:	1.16
Mid-Ord:	1.16	Course:	N 32°10'48.07" E
Chord:	323.90		

Tangent Data

Description	PT Station	Northing	Easting
Start:	494+70.72	629130.7402031	1979152.1728346
End:	496+28.22	629262.8305726	1979237.9522708
Parameter	Value	Parameter	Value
Length:	157.50	Course:	N 32°59'58.84" E

Curve Point Data

Description	PT Station	Northing	Easting
PC:	496+28.22	629262.8305726	1979237.9522708
PI:		629436.1176490	1979350.4848329
PT:	500+38.45	629634.6624548	1979407.6857811

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	16°55'40.57"	Type:	Left
Radius:	1388.50	Tangent:	206.62
Length:	410.23	External:	15.29
Mid-Ord:	15.12	Course:	N 24°32'08.56" E
Chord:	408.74		

Alignment: ℄ Ramp CC
Description: US-81 NB TO US-62 EXIT

Tangent Data

Description	PT Station	Northing	Easting
Start:	461+68.17	626281.0613940	1977627.4012870
End:	463+69.92	626389.0443773	1977797.8192878
Parameter	Value	Parameter	Value
Length:	201.75	Course:	N 57°38'24.65" E

Curve Point Data

Description	PT Station	Northing	Easting
PC:	463+69.92	626389.0443773	1977797.8192878
PI:		626544.9955502	1978001.5537676
PT:	466+82.13	626729.1929751	1978180.1589614

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	8°27'01.34"	Type:	Left
Radius:	3472.93	Tangent:	256.57
Length:	512.21	External:	9.46
Mid-Ord:	9.44	Course:	N 48°20'31.56" E
Chord:	511.75		

Curve Point Data

Description	PT Station	Northing	Easting
PC:	466+82.13	626729.1929751	1978180.1589614
PI:		627110.2490367	1978549.6461666
PT:	479+42.46	627532.0937475	1978871.7820956

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	6°45'00.89"	Type:	Left
Radius:	9000.00	Tangent:	530.78
Length:	1060.33	External:	15.64
Mid-Ord:	15.61	Course:	N 40°44'30.45" E
Chord:	1059.71		

Tangent Data

Description	PT Station	Northing	Easting
Start:	479+42.46	627532.0937475	1978871.7820956
End:	484+36.31	627924.5946519	1979171.5100293
Parameter	Value	Parameter	Value
Length:	493.86	Course:	N 37°22'00.00" E

Curve Point Data

Description	PT Station	Northing	Easting
PC:	484+36.31	627924.5946519	1979171.5100293
PI:		628030.7495047	1979252.5737269
PT:	487+01.71	628155.1416385	1979301.2232170

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	16°00'22.71"	Type:	Left
Radius:	950.00	Tangent:	133.57
Length:	265.39	External:	9.34
Mid-Ord:	9.25	Course:	N 29°21'48.65" E
Chord:	264.53		

Tangent Data

Description	PT Station	Northing	Easting
Start:	487+01.71	628155.1416385	1979301.2232170
End:	488+57.73	628300.4440561	1979358.0506730
Parameter	Value	Parameter	Value
Length:	156.02	Course:	N 21°21'37.29" E

Alignment: ℄ Ramp DD
Description: US-62 TO US-81 NB ENTRANCE

Tangent Data

Description	PT Station	Northing	Easting
Start:	487+01.63	628298.3951719	1979361.4125123
End:	488+98.99	628475.2290089	1979449.0411489
Parameter	Value	Parameter	Value
Length:	197.35	Course:	N 26°21'37.29" E

Curve Point Data

Description	PT Station	Northing	Easting
PC:	488+98.99	628475.2290089	1979449.0411489
PI:		628609.6020431	1979515.6286641
PT:	491+90.61	628758.5754325	1979498.3967525

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	32°57'30.60"	Type:	Left
Radius:	506.95	Tangent:	149.97
Length:	291.62	External:	21.72
Mid-Ord:	20.82	Course:	N 9°52'51.99" E
Chord:	287.61		

Tangent Data

Description	PT Station	Northing	Easting
Start:	491+90.61	628758.5754325	1979498.3967525
End:	494+08.86	628975.3798548	1979473.3187527
Parameter	Value	Parameter	Value
Length:	218.25	Course:	N 6°35'53.31" W

Curve Point Data

Description	PT Station	Northing	Easting
PC:	494+08.86	628975.3798548	1979473.3187527
PI:		629261.3504990	1979440.2402219
PT:	499+76.91	629537.6314074	1979521.1244493

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	22°54'57.98"	Type:	Right
Radius:	1420.28	Tangent:	287.88
Length:	568.06	External:	28.88
Mid-Ord:	28.31	Course:	N 4°51'35.68" E
Chord:	564.28		

Alignment: ℄ Drive 394+76
Description: ℄ US-62 Drive at Sta. 394+76.85

Tangent Data

Description	PT Station	Northing	Easting
Start:	10+00.00	629020.3487327	1978176.8205293
End:	10+95.00	628939.2271859	1978127.3807301
Parameter	Value	Parameter	Value
Length:	95.00	Course:	S 31°21'37.29" W

Curve Point Data

Description	PT Station	Northing	Easting
PC:	10+95.00	628939.2271859	1978127.3807301
PI:		628875.1838562	1978088.3493077
PT:	12+12.81	628836.1524339	1978152.3926375

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	90°00'00.00"	Type:	Left
Radius:	75.00	Tangent:	75.00
Length:	117.81	External:	31.07
Mid-Ord:	21.97	Course:	S 13°38'22.71" E
Chord:	106.07		

Tangent Data

Description	PT Station	Northing	Easting
Start:	12+12.81	628836.1524339	1978152.3926375
End:	16+06.56	628631.2389687	1978488.6176546
Parameter	Value	Parameter	Value
Length:	393.75	Course:	S 58°38'22.71" E

Curve Point Data

Description	PT Station	Northing	Easting
PC:	16+06.56	628631.2389687	1978488.6176546
PI:		628599.6819481	1978540.3968766
PT:	17+15.58	628539.1792068	1978536.3531557

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	62°27'48.01"	Type:	Right
Radius:	100.00	Tangent:	60.64
Length:	109.02	External:	16.95
Mid-Ord:	14.49	Course:	S 27°24'28.70" E
Chord:	103.70		

Tangent Data

Description	PT Station	Northing	Easting
Start:	17+15.58	628539.1792068	1978536.3531557
End:	18+01.82	628453.1235722	1978530.6015987
Parameter	Value	Parameter	Value
Length:	86.25	Course:	S 3°49'25.31" W

Alignment: ℄ US-81_CrossOver
Description: US-81 NB to SB Cross-Over

Curve Point Data

Description	PT Station	Northing	Easting
PC:	511+49.73	630683.2574712	1979793.8070843
PI:		631627.9791396	1979988.1728776
PT:	530+72.05	632592.4872685	1979987.0951548

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	11°41'23.13"	Type:	Left
Radius:	9422.00	Tangent:	964.51
Length:	1922.32	External:	49.24
Mid-Ord:	48.98	Course:	N 5°46'51.09" E
Chord:	1918.99		

Tangent Data

Description	PT Station	Northing	Easting
Start:	530+72.05	632592.4872685	1979987.0951548
End:	531+85.20	632705.6313868	1979986.9687297
Parameter	Value	Parameter	Value
Length:	113.14	Course:	N 0°03'50.48" W

Curve Point Data

Description	PT Station	Northing	Easting
PC:	531+85.20	632705.6313868	1979986.9687297
PI:		632914.2841290	1979986.7355852
PT:	536+02.46	633122.8299755	1979993.4177317

Circular Curve Point Data

Parameter	Value	Parameter	Value
Delta:	1°53'57.27"	Type:	Right
Radius:	12588.00	Tangent:	208.65
Length:	417.27	External:	1.73
Mid-Ord:	1.73	Course:	N 0°53'08.16" E
Chord:	417.25		

Alignment: ℄ US-62 CRL
Description: US 62 DRL from Survey

Tangent Data

Description	PT Station	Northing	Easting
Start:	385+47.37	629504.0692000	1977383.1249000
End:	405+43.89	628465.0413000	1979087.9771000
Parameter	Value	Parameter	Value
Length:	1996.52	Course:	S 58°38'22.71" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	405+43.89	628465.0413000	1979087.9771000
End:	447+48.56	626276.8528000	1982678.3889000
Parameter	Value	Parameter	Value
Length:	4204.67	Course:	S 58°38'22.71" E

SEE SURVEY DATA SHEETS FOR ALIGNMENT AND COGO INFORMATION FOR THE FOLLOWING ALIGNMENTS:

A001 A004 A009 A017
A002 A007 A010 A018
A003 A008 A011 A019

GEOMETRIC LAYOUT

State Job No. 24428(04) Sheet No. R036

US-81 REALIGNMENT
GRADY COUNTY

F:\2016\1001-1500\016-1182\40-Design\Microstation\US-81\DGN\C24428_GEO_DATA_08.dgn
4:22:09 PM

PROPOSED
R/W
AUGUST 2017

SEC. 20 T6N R7W

0 50' 100'

BM#209- NGS MONUMENT "H-214"
ENCASED STEEL ROD W/ METAL LID
℄ SURVEY U.S. 81
STA. 102+78.31, 98.50' RT.
ELEV. =1193.770

STA. 100+35.60 ℄ 22"X13"X118.59' RDY.
CMP ARCH PIPE S.D. "X"ING ℄ 55.35' RT. & 63.23' LT
℄ ELEV. N=1194.92 RT. & ℄ ELEV. S=1194.65 LT.
(LEAVE)

LIMITS OF NO ACCESS

CAUTION
OH POWER

STA. 100+49 TO 113+00
CONST. 1256 L.F.
TYPE WWF FENCE

STA. 100+75 TO 113+38.27
CONST. 1,360 L.F.
TYPE WWF FENCE

STA. 100+94 - BEGIN CONSTRUCTION

90+00 95+00 100+00 104+00

℄ SURVEY US 81
N00°04'06.40"W

20' U/E
30' U/E
PRES. R/W
RWD 7
ASPHALT
CONCRETE
GRAVEL
CONC.
BLDG
DIRT
DG
CLF
AEP(3-WP)
AEP(1-WP)
AEP(2-WP)
AEP(4-WP)
AT&T
WWF W/3-BW
WWF W/5-BW
(6-BW)
(5-BW)
TOC/TOS
BM#209
+00 140'
+75 140'
+50 100'
+75 100'
+00 136'
R/W

UTILITY OWNERS

MEDICINE PARK TELEPHONE CO.	(580) 529-2700
CHICKASAW TELEPHONE CO.	(580) 618-5455
SOUTHWESTERN BELL	(800) 522-6543
DOBSON TECHNOLOGIES	(800) 778-9140
AT&T	(800) 778-9140
INTELLEQ COMMUNICATIONS	(800) 335-4343
PUBLIC SERVICE CO. OF OKLAHOMA	(888) 216-3523
OEC	(405) 321-2024
SUNOCO LOGISTICS	(800) 753-5531
UNIT PETROLEUM	(918) 493-7700
CONTINUUM ENERGY	(877) 587-0026
DCP MIDSTREAM	(800) 435-1679
ENABLE	(800) 522-8048
KEPCO OPERATING INC.	(855) 421-2088
TECHNICAL ENERGY SERVICES	(405) 329-8196
CITY OF CHICKASHA PUBLIC WORKS	(405) 222-6080
RURAL WATER DISTRICT #6	(405) 459-6626
RURAL WATER DISTRICT #7	(405) 779-6224
CENTERPOINT ENERGY	(866) 275-5265

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81 UNLESS OTHERWISE NOTED.

SEC. 21 T6N R7W

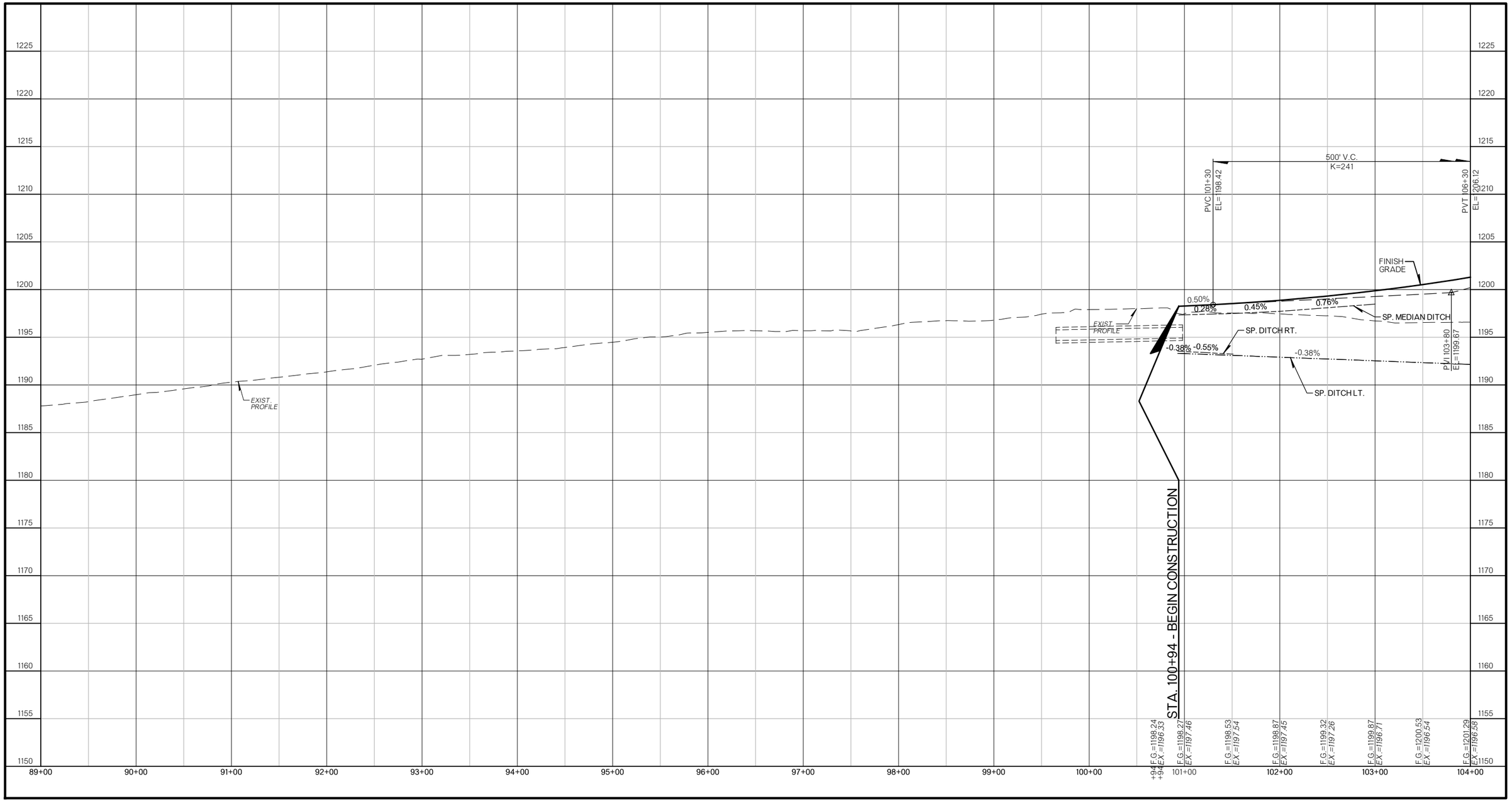
+47.39-SIGN 11.1'LT.
+07.06-PP 98.7'RT.
+46.60-PP 100.2'LT.
+57.71-BB 67.1'RT.
+59.01-SIGN 6.8'RT.
+58.62-PP 98.8'RT.
+29.69-PP 100.5'LT.
+50.69-GM 99.4'LT.
+51.00-GM 99.7'RT.
+91.92-SIGN 116.9'LT.
+08.83-WM 111.3'LT.
+17.73-UP 99.4'LT.
+19.10-PP 98.9'RT.
+15.48-SIGN 6.2'LT.
+16.15-SIGN 63.1'LT.
+17.28-GM 100.1'LT.
+17.18-PP 100.8'LT.
+98.79-SIGN 7.6'RT.
+12.53-SIGN 99.8'LT.
+16.06-LP 1556'LT.
+17.34-TP 99.3'LT.
+17.38-PP 99.4'LT.
+17.43-GUY ANC 137.4'LT.
+72.71-PP 98.7'RT.
+03.33-POWRS 100.0'LT.
+03.32-PP 100.4'LT.
+06.69-SIGN 62.8'RT.
+55.16-SIGN 1.7'LT.
+88.11-SIGN 8.7'LT.
+93.69-SIGN 61.2'RT.
+00.95-SIGN 66.9'LT.
+38.60-BB 109.1'RT.
+40.32-PP 99.5'RT.
+41.49-GUY ANC 101.4'RT.
+41.56-WM 110.4'RT.
+42.64-LP 119.2'RT.
+44.46-WM 113.2'LT.
+46.69-SIGN 110.4'LT.
+47.10-PP 99.9'LT.
+47.37-POWRS 100.6'LT.
+48.09-TP 97.4'LT.
+85.14-TP 97.8'RT.
+87.37-SIGN 67.1'RT.
+93.07-SIGN 102.9'RT.
+96.09-TP 98.7'LT.
+08.93-SIGN 0.2'LT.
+93.18-PP 100.2'LT.
+22.94-PP 124.5'LT.
+38.89-PP 124.3'LT.
+67.79-TP 98.3'RT.
+72.51-PP 98.4'RT.
+81.17-GUY ANC 121.8'RT.
+89.41-PP 143.8'RT.
+97.49-GUY ANC 98.7'RT.
+17.10-SIGN 99.9'LT.
+60.28-SIGN 11.9'LT.

PLAN
US 81 REALIGNMENT
89+00 TO 104+00

State Job No. 24428(04) Sheet No. R037

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017



PROFILE
US 81 REALIGNMENT
89+00 TO 104+00

State Job No. J2-4428(004) Sheet No. R038

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

BM#210- "X" ON CENTER W. HDWL.
RCB CROSS DRAIN
℄ SURVEY U.S. 81
STA. 108+67.70, 66.14' LT.
ELEV. =1196.144

BM#211- "[ ]" ON N.E.
WINGWALL W. SIDE DRAIN
℄ SURVEY U.S. 81
STA. 114+06.93, 68.77' LT.
ELEV. =1200.651

SEC. 20 T6N R7W

SEC. 20 T6N R7W 28+00

STA. 108+67.80 ℄ 4'x4'x135' RDY RCB S.D. "X"ING ℄ 68.45' RT. & 65.55' LT.
℄ ELEV. E=1189.55 RT. & ℄ ELEV. W=1190.46 LT.

STA. 108+90.95 0.97' ℄ 18'x44.35" RCB S.D.
℄ ELEV. N=1194.10
℄ ELEV. S=1191.64

STA. 113+67.22 1.94' LT. ℄ 22"x13"X69.67' CMP ARCH PIPE S.D.
℄ ELEV. N=1200.77
℄ ELEV. S=1200.03

STA. 113+74.64 70.36' LT. ℄ 30"X19"X64.23' CMP ELLIPTICAL PIPE S.D.
℄ ELEV. N=1198.69
℄ ELEV. S=1198.18

0 50' 100'

LIMITS OF ACCESS TO FRONTAGE ROAD ONLY

LIMIT OF NO ACCESS

CAUTION - WATERLINE

STA. 100+49 TO 113+00
CONST. 1256 L.F.
TYPE WWF FENCE

CAUTION - WATERLINE
TUG

STA. 100+75 TO 113+38.27
CONST. 1,360 L.F.
TYPE WWF FENCE

LIMIT OF NO ACCESS

STA. 113+85 TO 114+15
CONST. 64 L.F.
TYPE WWF FENCE

TEMP. R/W (DRIVE)
STA. 114+15 TO 119+10
CONST. 501 L.F.
TYPE WWF FENCE

STA. 114+04 TO 132+19
CONST. 1800 L.F.
TYPE WWF FENCE

EXISTING LIMITS OF NO ACCESS

CRL FRONTAGE RD.
N00°03'59.50"W

℄ SURVEY US 81
N00°04'06.40"W

BRIDGE "A"

BRIDGE "B"

CRL EW 140.5

S89°47'08.08"E

N89°55'12.12"E
EW 140.52

NINNEKAH CITY LIMITS

104+00

105+00

110+00

115+00

119+00

30+00

35+00

37+00

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81 UNLESS OTHERWISE NOTED.

+20.29'-SIGN 103.5' LT.
+83.13'-PP 100.5' LT.
+83.89'-POWRIS 100.6' LT.
+83.06'-GM 163.4' LT.
+20.26'-PP 118.4' LT.
+19.44'-GUY ANC 101.0' LT.
+70.73'-PP 100.2' LT.
+66.67'-WATVAL 108.8' RT.
+73.66'-WATVAL 116.9' RT.
+74.67'-WATVAL 114.6' RT.
+85.10'-WATVAL 105.4' RT.
+91.81'-WATVAL 109.3' LT.
+52.72'-PP 100.9' LT.
+59.41'-SIGN 14.4' RT.
+41.51'-SIGN 0.2' LT.
+12.40'-PP 100.2' LT.
+23.70'-WM 102.4' LT.
+26.95'-WH 100.0' LT.
+33.10'-TP 98.4' LT.
+55.69'-GUY ANC 109.8' LT.
+39.28'-SIGN 66.0' LT.
+40.24'-SIGN 1.1' RT.
+43.52'-SIGN 64.1' RT.
+46.84'-SIGN 75.3' LT.
+47.02'-SIGN 98.2' LT.
+53.12'-TP 155.3' LT.
+54.74'-SIGN 137.2' LT.
+55.44'-WM 154.4' LT.
+55.44'-TP 97.2' RT.
+76.44'-MB 72.8' RT.
+78.56'-MB 73.1' RT.
+91.33'-FH 100.1' RT.
+81.75'-SIGN 73.1' RT.
+97.65'-TP 156.6' LT.
+01.84'-SIGN 6.6' LT.
+09.65'-SIGN 65.4' LT.
+17.86'-SIGN 18.0' RT.
+19.12'-SIGN 129.3' LT.
+55.51'-SIGN 9.4' LT.
+58.42'-TP 105.1' RT.
+23.46'-SIGN 29.0' RT.
+57.90'-PP 96.0' LT.
+72.66'-SIGN 99.5' LT.
+15.32'-SIGN 10.1' LT.
+32.54'-SIGN 413' RT.
+30.42'-SIGN 55.7' RT.
+18.94'-PP 96.1' LT.

SEC. 21 T6N R7W

SEC. 21 T6N R7W

PLAN
US 81 REALIGNMENT
104+00 TO 119+00

State Job No. 24428(04) Sheet No. R039

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

BRIDGE "A" LENGTH = 180' - 6"
BRIDGE "B" LENGTH = 180' - 6"

+76.19 BEGIN BRIDGE "A"
+76.19 BEGIN BRIDGE "B"

+56.69 END BRIDGE "A"
+56.69 END BRIDGE "B"

PVI 118+50
EL=1237.60

FINISH GRADE

-1.77%

SP. DITCH RT.

3 STA. 115+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 188 LF 18" RCP INTO DITCH RT. W/ CET
TG=1223.64, FL=1208.70, DS FL=1193.96

PVC 101+30
EL=1198.42

500' V.C.
K=241

PVT 106+30
EL=1206.12

2.58%

1 STA. 105+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 120 LF 18" RCP INTO DITCH RT. W/ CET
TG=1200.42, FL=1193.39, DS FL=1189.79

FINISH GRADE

2 STA. 108+50 ℄ SURVEY US 81, ON ℄
CONST. 4'X4'X258' LG. RCB
122' LG. LT. & 136' LG. RT. W/ STD. 0°
END SECTS. & 4' CURTAIN WALLS
FL LT.=1190.50, FL RT.=1188.80

EXIST. PROFILE

2.11%

-0.38%

SP. DITCH LT.

0.00%

PVC 112+75
EL=1222.76

1150' V.C.
K=251

PVT 124+25
EL=1226.10

1.24%

EXIST. PROFILE

104+00	105+00	106+00	107+00	108+00	109+00	110+00	111+00	112+00	113+00	114+00	115+00	116+00	117+00	118+00	119+00
F.G.=1201.29	F.G.=1202.15	F.G.=1203.12	F.G.=1204.19	F.G.=1205.37	F.G.=1206.64	F.G.=1207.93	F.G.=1209.22	F.G.=1210.51	F.G.=1211.80	F.G.=1213.09	F.G.=1214.38	F.G.=1215.67	F.G.=1216.96	F.G.=1218.25	F.G.=1219.54	F.G.=1220.83	F.G.=1222.12	F.G.=1223.40	F.G.=1224.59	F.G.=1225.68	F.G.=1226.67	F.G.=1227.56	F.G.=1228.35	F.G.=1229.05	F.G.=1229.64	F.G.=1230.13	F.G.=1230.53	F.G.=1230.82	F.G.=1231.02	F.G.=1231.11
EX.=1196.58	EX.=1196.55	EX.=1196.48	EX.=1196.76	EX.=1196.96	EX.=1196.99	EX.=1197.12	EX.=1197.24	EX.=1197.35	EX.=1197.35	EX.=1197.37	EX.=1197.52	EX.=1198.05	EX.=1198.52	EX.=1199.31	EX.=1200.24	EX.=1200.46	EX.=1201.47	EX.=1201.77	EX.=1202.77	EX.=1203.16	EX.=1202.27	EX.=1202.61	EX.=1202.92	EX.=1203.41	EX.=1203.74	EX.=1204.03	EX.=1204.62	EX.=1205.01	EX.=1205.25	EX.=1205.35

US 81 REALIGNMENT

GRADY COUNTY

PROFILE
US 81 REALIGNMENT
104+00 TO 119+00

State Job No. 24428(04) Sheet No. R040

PROPOSED
R/W
AUGUST 2017

SEC. 20 T6N R7W

BM#212- 80D SPIKE IN POWER POLE
ON EAST EDGE OF 16TH STREET
℄ SURVEY U.S. 81
STA. 123+39.68, 114.46' LT.
ELEV. =1203.978

BM#213 - N.W. COR. W. CONC. HDWL.
CGMP CROSS DRAIN
℄ SURVEY U.S. 81
STA. 127+52.29, 176.47' LT.
ELEV. =1197.379

STA. 128+81.59 167.61' LT. ℄
8"X80.88' CMP S.D.
℄ ELEV. N=1199.28
℄ ELEV. S=1199.33

STA. 127+54.58 159.74' LT. ℄
34"X25"X33.88' CMP
ELLIPTICAL PIPE S.D.
℄ ELEV. W=1194.81
℄ ELEV. E=1192.97

STA. 1127+99.40 ℄ 3'X3'X71.92' RDY.
RCB "X"ING ℄ 33.03' RT. & 38.88' LT.
℄ ELEV. SE=1182.61 RT. ;
& ℄ ELEV. NW=1182.11 LT.

STA. 128+52 TO 137+96.50
CONST. 970 L.F.
TYPE WWF FENCE

STA. 132+50 TO 140+86
CONST. 1004 L.F.
TYPE WWF FENCE

STA. 114+04 TO 132+19
CONST. 1800 L.F.
TYPE WWF FENCE

LIMITS OF ACCESS TO
FRONTAGE ROAD ONLY

EXISTING
LIMITS OF NO ACCESS

CRL FRONTAGE RD.
N00°03'59.50"W

℄ RAMP A

℄ RAMP C

℄ SURVEY US 81
N00°04'06.40"W

NINNEKAH CITY LIMITS

NS 283

2652.10'
N00°03'10.78"W

PC: 124+31.69

PC: 130+50.00

CAUTION
GAS LINE

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W
AND R/W DIMENSIONS SHOWN ARE FROM
THE ℄ SURVEY U.S. 81 UNLESS
OTHERWISE NOTED.

+12.99 - WW 167.2' LT.
+90.92 - MB 94.2' LT.
+56.57 - SIGN 133.7' RT.
+82.67 - PP 95.9' LT.
+04.78 - SIGN 56.0' LT.
+10.66 - SIGN 56.5' LT.
+42.11 - PP 114.0' LT.
+42.62 - SIGN 162.7' LT.
+60.37 - POWRIS 192.6' LT.
+63.31 - POWRIS 179.1' LT.
+64.17 - GUY ANC W/5.7' LT.
+64.47 - POWRIS 185.7' LT.
+19.83 - MB 180.9' LT.
+20.29 - SIGN 179.1' LT.
+31.21 - SIGN 45.5' LT.
+44.65 - SIGN 31.8' LT.
+41.44 - TP 198.8' LT.
+51.01 - SIGN 3.9' LT.
+54.29 - SIGN 179.7' LT.
+63.76 - GM 3.4' LT.
+73.69 - GM 195.4' LT.
+78.36 - GM 199.1' LT.
+39.08 - SIGN 33.9' RT.
+82.40 - TP 197.7' LT.
+53.27 - SIGN 75.6' RT.
+45.68 - SIGN 130.2' RT.
+31.13 - SIGN 189.1' RT.

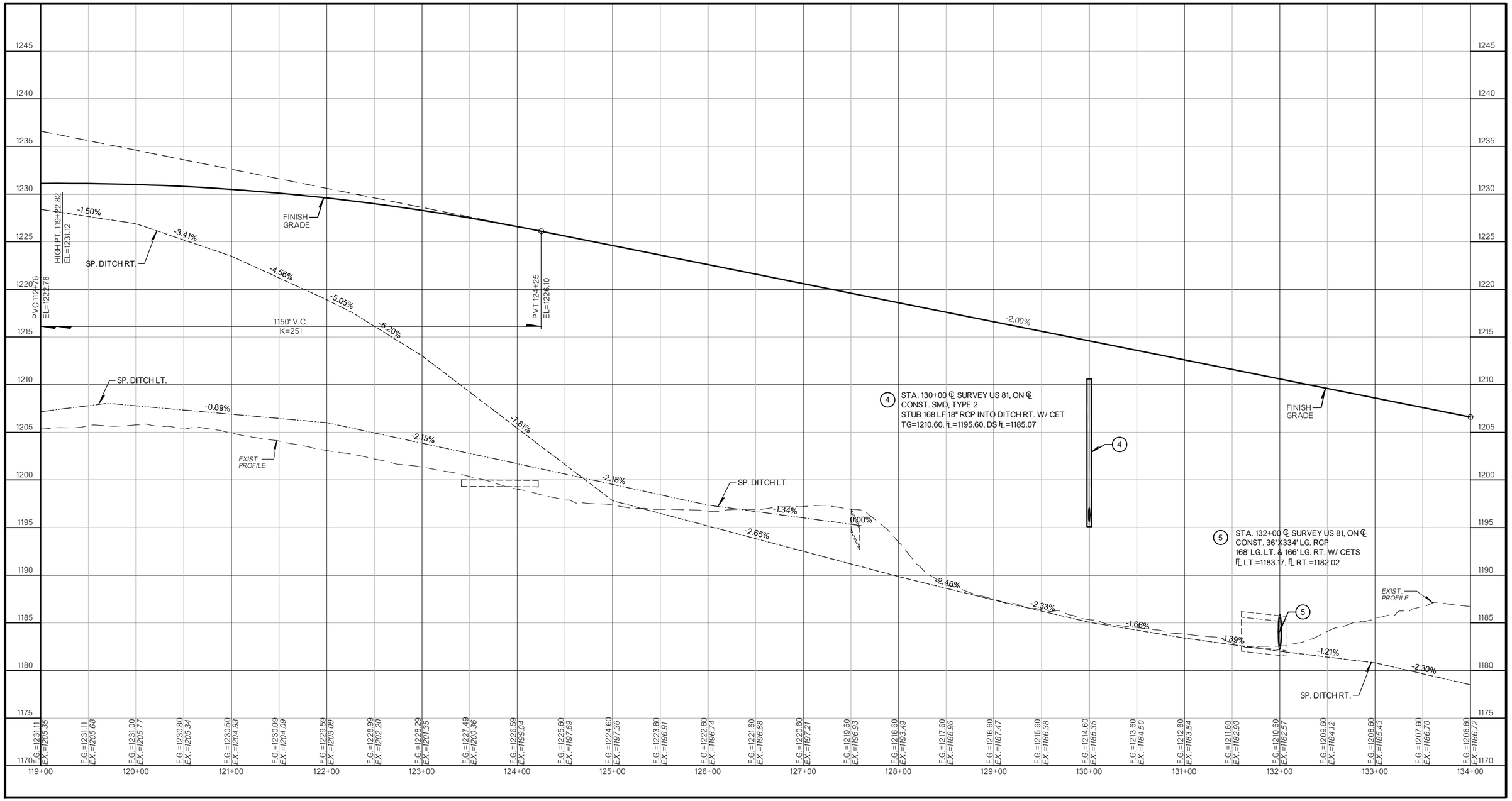
SEC. 21 T6N R7W

PLAN
US 81 REALIGNMENT
119+00 TO 134+00

State Job No. 24428(04) Sheet No. R041

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017



PROFILE
US 81 REALIGNMENT
119+00 TO 134+00

State Job No. 24428(04) Sheet No. R042

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 20 T6N R7W

SEC. 17 T6N R7W

CRL FRONTAGE RD.
N39°36'37.30"W

59

BM#11 - 100D NAIL SET
S.W. FACE 8" ELM
℄ SURVEY U.S. 81
STA. 134+50.38, 58.92' RT.
ELEV. =1183.356

STA. 132+50 TO 140+86
CONST. 1004 L.F.
TYPE WWF FENCE

PRES. R/W
TOC/TOS
WWF W/3-BW
6-BW1

℄ SURVEY EW 140 (QUAIL RD.)
N89°50'44.43"E

℄ RAMP A

BM#12 - 100D NAIL SET
W. FACE 18" ELM
℄ SURVEY U.S. 81
STA. 141+72.09, 306.34' LT.
ELEV. =1191.811

PT: 165+25.53

Mid: 149+90.37

℄ RAMP B

℄ RAMP A

0 50' 100'

135+00

140+00

145+00

134+00

149+00

40+00

45+00

CAUTION
TUG

6

BRIDGE "C"

BRIDGE "D"

7

8

℄ SURVEY US 81

BM#11

24'
4'
64'
10'

PCC: 144+35.21

NINNEKAH CITY LIMITS

NS 283 S
N00°03'10.78"W

AT&T
TUG
RWD 7
20' U/E
30' U/E

PI: 161+00.00

PI: 142+96.60

℄ RAMP D

297'

STA. 146+77 TO 156+10
CONST. 1051 L.F.
TYPE WWF FENCE

WWF W/3-BW

+00
272'

R/W

10' U/E

STA. 142+93 TO 147+33
CONST. 494 L.F.
TYPE WWF FENCE

+32.86
293'

LIMITS OF NO ACCESS

PHILLIP LANE

+85.38
416'

WWF W/1-BW

N89°47'30.67"E
℄ N/E 140 S

+84.58 - SIGN 49.2' RT.
+84.77 - SIGN 47.6' RT.

+82.75 - TP 34.4' RT.
+104.46 - TP 183.7' RT.
+19.96 - TP 135.6' LT.

+04.80 - TP 85.6' RT.

62

64

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81 UNLESS OTHERWISE NOTED.

SEC. 21 T6N R7W

SEC. 16 T6N R7W

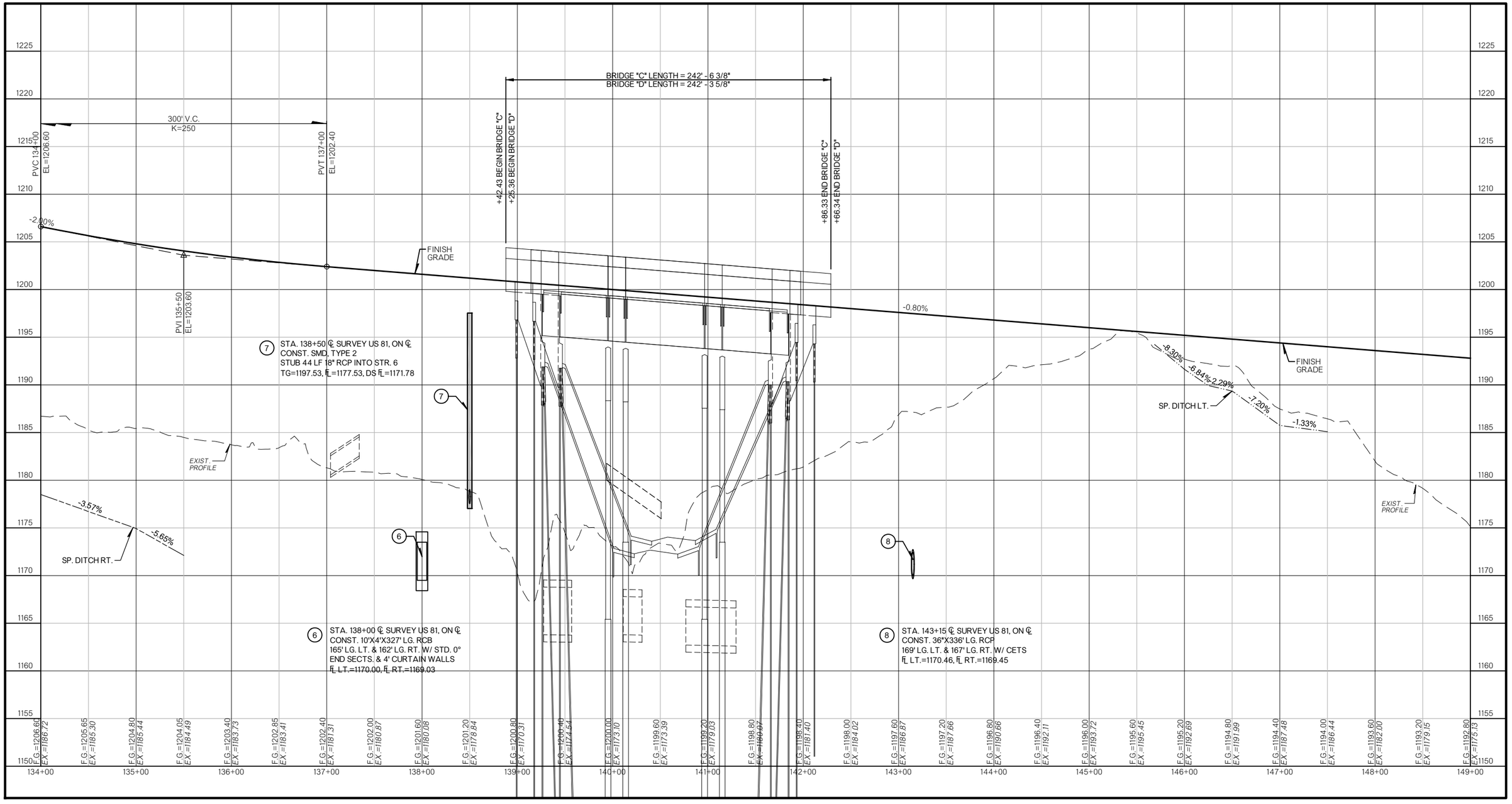
CRL SURVEY NS 283 (16TH AVE.)

PLAN
US 81 REALIGNMENT
134+00 TO 149+00

State Job No. 24428(04) Sheet No. R043

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017



PROFILE
US 81 REALIGNMENT
134+00 TO 149+00

State Job No. 24428(04) Sheet No. R044

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 17 T6N R7W

BM#13 - 100D NAIL SET N. FACE 24" COTTONWOOD
NEAR S.E. CORNER OF POND DAM
℄ SURVEY U.S. 81
STA. 151+40.21, 517.03' LT.
ELEV. =1173.321

BM#215 - 80D SPIKE IN FENCE POST
℄ SURVEY U.S. 81
STA. 155+15.31, 300.60' LT.
ELEV. =1186.551

0 50' 100'

STA. 144+53 TO 151+51
CONST. 715 L.F.
TYPE SWF (5WB) FENCE

STA. 151+62 TO 155+00
CONST. 246 L.F.
TYPE WWF FENCE

STA. 156+71 TO 191+50
CONST. 3,637 L.F.
TYPE SWF (6WB) FENCE

STA. 156+10 TO 195+07
CONST. 4,486 L.F.
TYPE SWF (5WB) FENCE

STA. 146+77 TO 156+10
CONST. 1051 L.F.
TYPE WWF FENCE

CAUTION :
WATERLINE

CHICKASHA CITY LIMITS

LIMITS OF NO ACCESS

℄ RAMP B

℄ RAMP D
N29°45'05.42"W

℄ SURVEY US 81

CREEK HAVEN ESTATES

GLENDA WAY

1-Story Brick

Metal Bldg.

BLDG

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81 UNLESS OTHERWISE NOTED.

+09.21-LP 150.3' RT.
+10.63-POWRS 150.4' RT.
+19.24-GUY ANC 131.1' RT.

PLAN
US 81 REALIGNMENT
149+00 TO 164+00

State Job No. 24428(04) Sheet No. R045

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

700' V.C.
K=191

PVC 157+50
EL=1186.00

LOW PT 159+03.14
EL=1185.39

PVI 161+00
EL=1183.20

PVT 164+50
EL=1193.20

FINISH GRADE

-0.80%

FINISH GRADE

SP. DITCH LT.

EXIST. PROFILE

EXIST. PROFILE

(9) STA. 149+50 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 72 LF 24" RCP INTO STR. 11
TG=1188.40, FL=1168.00, DS FL=1161.22

(10) STA. 149+70 ℄ SURVEY US 81, 244.75' LT.
CONST. SMD, TYPE 2
STUB 122 LF 24" RCP INTO STR. 11
TG=1170.25, FL=1167.69, DS FL=1162.64

(11) STA. 150+34 ℄ SURVEY US 81, ON ℄
CONST. 16'X6'X574' LG. RCB
SKEW 16° LT. FWD.
~~363' LG. LT. & 211' LG. RT. W/ STD. 0°~~
END SECTS. & 4' CURTAIN WALLS
FL LT.=1159.75, FL RT.=1155.98

(12) STA. 155+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 162 LF 18" RCP INTO DITCH RT. W/ CET
TG=1184.00, FL=1176.00, DS FL=1165.07

(13) STA. 159+03 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 138 LF 24" RCP INTO DITCH RT. W/ CET
TG=1181.39, FL=1178.82, DS FL=1170.09

(14) STA. 163+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 136 LF 24" RCP INTO DITCH RT. W/ CET
TG=1185.50, FL=1180.50, DS FL=1175.04

149+00	150+00	151+00	152+00	153+00	154+00	155+00	156+00	157+00	158+00	159+00	160+00	161+00	162+00	163+00	164+00
F.G.=1192.80	F.G.=1192.40	F.G.=1192.00	F.G.=1191.60	F.G.=1191.20	F.G.=1190.80	F.G.=1190.40	F.G.=1190.00	F.G.=1189.60	F.G.=1189.20	F.G.=1188.80	F.G.=1188.40	F.G.=1188.00	F.G.=1187.60	F.G.=1187.20	F.G.=1186.80
EX.=1175.13	*EX.=1166.69*	*EX.=1159.28*	*EX.=1160.29*	*EX.=1162.27*	*EX.=1166.75*	*EX.=1167.95*	*EX.=1164.01*	*EX.=1164.64*	*EX.=1165.37*	*EX.=1168.96*	*EX.=1168.10*	*EX.=1169.10*	*EX.=1168.37*	*EX.=1169.28*	*EX.=1172.85*
F.G.=1186.40	F.G.=1186.00	F.G.=1185.67	F.G.=1185.46	F.G.=1185.39	F.G.=1185.44	F.G.=1185.63	F.G.=1185.95	F.G.=1186.40	F.G.=1186.98	F.G.=1187.69	F.G.=1188.53	F.G.=1189.50	F.G.=1190.60	F.G.=1191.84	
EX.=1170.65	*EX.=1166.96*	*EX.=1164.82*	*EX.=1169.20*	*EX.=1173.10*	*EX.=1173.47*	*EX.=1165.89*	*EX.=1168.23*	*EX.=1172.92*	*EX.=1177.02*	*EX.=1179.01*	*EX.=1175.74*	*EX.=1172.63*	*EX.=1182.21*	*EX.=1190.95*	

US 81 REALIGNMENT

GRADY COUNTY

PROFILE
US 81 REALIGNMENT
149+00 TO 164+00

State Job No. 24428(04) Sheet No. R046

SEC. 17 T6N R7W

STA. 168+23.08 54.54' RT. ℄
24"X86.82' CGMP
℄ ELEV. NW=1195.04
℄ ELEV. SE=1182.31
(REMOVE)

BM#217 - 80D SPIKE IN R.R.
TIE FENCE POST
℄ SURVEY U.S. 81
STA. 174+72.74, 845.39' LT.
ELEV. =1237.332

0 50' 100'

STA. 177+55.85 93.94' RT. ℄
24"X91.67' CGMP
℄ ELEV. NW=1261.04
℄ ELEV. SE=1199.27
(REMOVE)

PROPOSED
R/W
AUGUST 2017

2648.98'
N89°53'28.73"E

LIMITS OF NO ACCESS

STA. 156+71 TO 191+50
CONST. 3,637 L.F.
TYPE SWF (6WB) FENCE

+00 219'
+50 225'
R/W
TOC/TOS

+50 305'
+00 302'
R/W
TOC/TOS

FW 139.5

164+00
165+00
170+00
175+00
179+00

PI: 1169+62.38

BOP: 1173+39.86

PI: 1176+35.63

℄ SURVEY US 81
N44°52'38.41"W

℄ RAMP G

℄ RAMP K

15
16
17
18
19

10'
36'
4'
64'
4'
36'
10'

4'
10'
10'
34'
4'
64'
4'
10'
10'
34'

+00 226'
R/W
TOC/TOS

+00 240'

+00 250'

STA. 156+10 TO 195+07
CONST. 4,486 L.F.
TYPE SWF (5WB) FENCE

R/W
+00 253'

2648.98'
N89°53'28.73"E

LIMITS OF NO ACCESS

FW 139.5

ENABLE

SEC. 17 T6N R7W

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81 UNLESS OTHERWISE NOTED.

PLAN
US 81 REALIGNMENT
164+00 TO 179+00

State Job No. 24428(04) Sheet No. R047

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

15 STA. 172+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 64 LF 18" RCP INTO STR. 16
TG=1213.44, FL=1206.44, DS FL=1202.70

16 STA. 172+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 64 LF 18" RCP INTO STR. 17
TG=1210.70, FL=1202.70, DS FL=1198.42

17 STA. 172+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 108 LF 18" RCP INTO DITCH RT. W/ CET
TG=1213.44, FL=1198.42, DS FL=1192.33

18 STA. 176+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 132 LF 18" RCP INTO DITCH LT. W/ CET
TG=1224.87, FL=1214.87, DS FL=1199.10

19 STA. 176+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 116 LF 18" RCP INTO DITCH RT. W/ CET
TG=1224.87, FL=1214.85, DS FL=1203.94

700' V.C.
K=191
PVC 157+50
EL=1186.00
PVT 164+50
EL=1193.20
2.86%
FINISH GRADE
SP. DITCH LT.
3.42%
EXIST. PROFILE
1.44%
0.70%
SP. DITCH RT.

F.G.=1191.84 EX.=1190.95
F.G.=1193.20 EX.=1193.22
F.G.=1194.63 EX.=1194.37
F.G.=1196.06 EX.=1195.70
F.G.=1197.48 EX.=1184.95
F.G.=1198.91 EX.=1183.58
F.G.=1200.34 EX.=1185.12
F.G.=1201.77 EX.=1185.67
F.G.=1203.20 EX.=1189.26
F.G.=1204.63 EX.=1201.11
F.G.=1206.05 EX.=1194.54
F.G.=1207.48 EX.=1195.97
F.G.=1208.91 EX.=1197.79
F.G.=1210.34 EX.=1202.70
F.G.=1211.77 EX.=1194.93
F.G.=1213.20 EX.=1193.10
F.G.=1214.62 EX.=1189.69
F.G.=1216.05 EX.=1186.22
F.G.=1217.48 EX.=1188.78
F.G.=1218.91 EX.=1189.63
F.G.=1220.34 EX.=1190.78
F.G.=1221.77 EX.=1197.02
F.G.=1223.19 EX.=1202.01
F.G.=1224.62 EX.=1209.62
F.G.=1226.05 EX.=1204.93
F.G.=1227.48 EX.=1204.48
F.G.=1228.91 EX.=1205.37
F.G.=1230.34 EX.=1215.33
F.G.=1231.76 EX.=1215.01
F.G.=1233.19 EX.=1208.96
F.G.=1234.62 EX.=1210.12

PROFILE
US 81 REALIGNMENT
164+00 TO 179+00

State Job No. 24428(04) Sheet No. R048

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 17 T6N R7W

LIMITS OF NO ACCESS

STA. 156+71 TO 191+50
CONST. 3,637 L.F.
TYPE SWF (6WB) FENCE

STA. 185+50.60, 65.37' RT. @ 14"X4.87" CGMP
N: ELEV.=1232.91
E: ELEV.=1219.46
(REMOVE)

BM#218 - 80D SPIKE IN GROUND AT BASE OF METAL CORNER POST
℄ SURVEY U.S. 81
STA. 186+78.95, 1501.34' LT.
ELEV. =1249.758

0 50' 100'

℄ RAMP G
℄ RAMP H
℄ RAMP K
℄ RAMP L

TOC/TOS
R/W
+00 302'
+50 300'
+25 475'
+00 253'
+50 255'
+00 420'

N00°21'02"E 2656.02'
NS 2825

30' U/E
CONTINUUM (5-6WB)

PC: 1179+06.50
PC: 194+88.56

179+00
185+00
190+00
194+00

CAUTION
GAS LINE

℄ SURVEY US 81
N44°52'38.41"W

20 21 22 23 24 25 26 27 28 65 66 68 72 73

STA. 156+10 TO 195+07
CONST. 4,486 L.F.
TYPE SWF (5WB) FENCE

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81 UNLESS OTHERWISE NOTED.

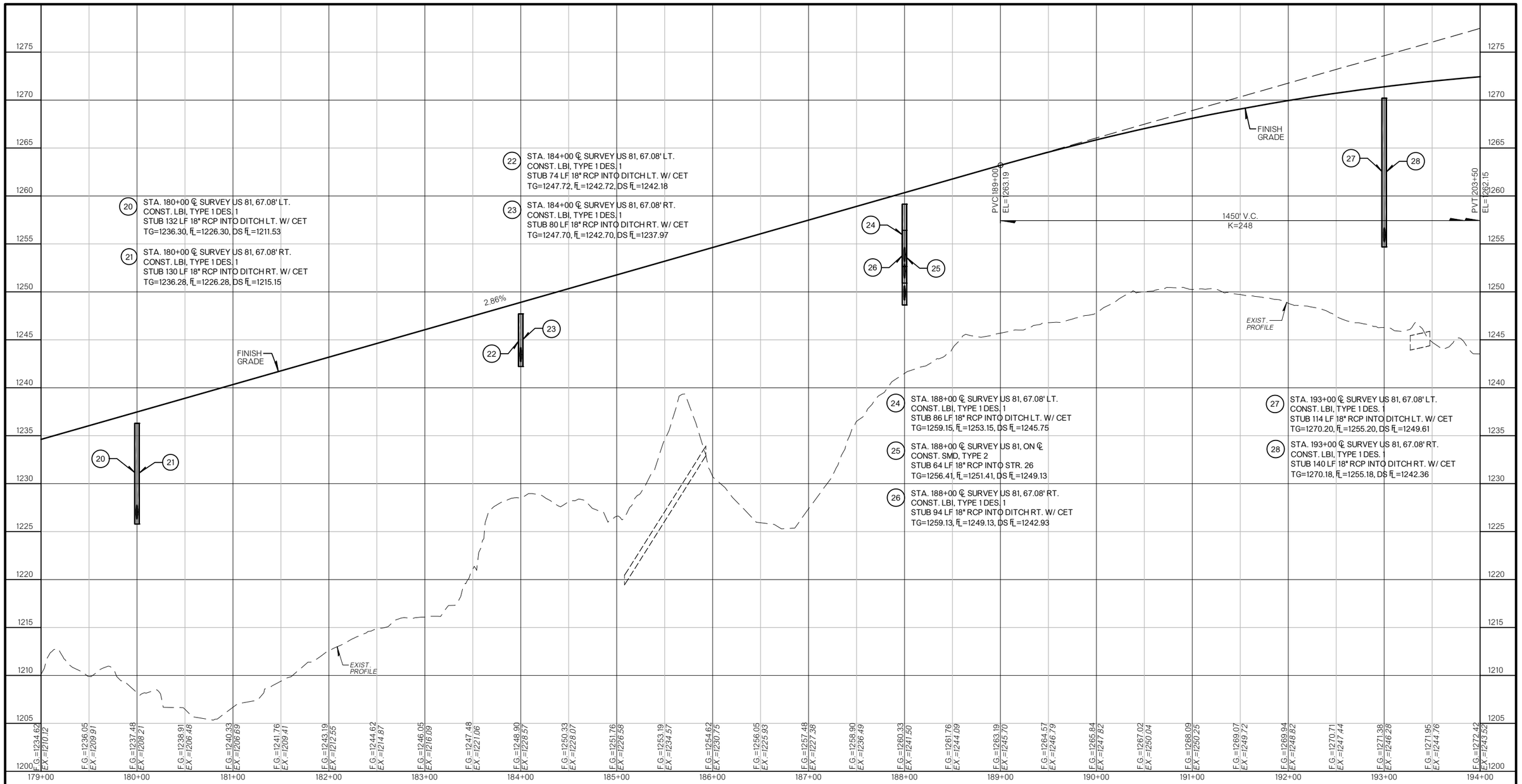
SEC. 17 T6N R7W

PLAN
US 81 REALIGNMENT
179+00 TO 194+00

State Job No. 24428(04) Sheet No. R049

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017



20 STA. 180+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 132 LF 18" RCP INTO DITCH LT. W/ CET
TG=1236.30, FL=1226.30, DS FL=1211.53

21 STA. 180+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 130 LF 18" RCP INTO DITCH RT. W/ CET
TG=1236.28, FL=1226.28, DS FL=1215.15

22 STA. 184+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 74 LF 18" RCP INTO DITCH LT. W/ CET
TG=1247.72, FL=1242.72, DS FL=1242.18

23 STA. 184+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 80 LF 18" RCP INTO DITCH RT. W/ CET
TG=1247.70, FL=1242.70, DS FL=1237.97

24 STA. 188+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 86 LF 18" RCP INTO DITCH LT. W/ CET
TG=1259.15, FL=1253.15, DS FL=1245.75

25 STA. 188+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 64 LF 18" RCP INTO STR. 26
TG=1256.41, FL=1251.41, DS FL=1249.13

26 STA. 188+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 94 LF 18" RCP INTO DITCH RT. W/ CET
TG=1259.13, FL=1249.13, DS FL=1242.93

27 STA. 193+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 114 LF 18" RCP INTO DITCH LT. W/ CET
TG=1270.20, FL=1255.20, DS FL=1249.61

28 STA. 193+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 140 LF 18" RCP INTO DITCH RT. W/ CET
TG=1270.18, FL=1255.18, DS FL=1242.36

PROFILE
US 81 REALIGNMENT
179+00 TO 194+00

State Job No. 24428(04) Sheet No. R050

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 17 T6N R7W

BM#1 - 100D NAIL SET IN E. FACE
8" WOOD POST, N. SIDE OF I-44
℄ SURVEY U.S. 81
STA. 197+99.60, 286.18' LT.
ELEV. =1249.874

BM#2 - 100D NAIL SET IN
E. FACE 12" ELM
℄ SURVEY U.S. 81
STA. 206+56.29, 312.42' LT.
ELEV. =1230.502

STA. 201+50 TO 204+96
CONST. 492 L.F.
TYPE WWF FENCE

STA. 204+96 TO 238+09
CONST. 3,355 L.F.
TYPE SWF (6WB) FENCE

LIMITS OF NO ACCESS

CAUTION -
WATERLINE
OH POWER
FIBER

℄ SURVEY US 81
N44°52'38.41"W

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W
AND R/W DIMENSIONS SHOWN ARE FROM
THE ℄ SURVEY U.S. 81 UNLESS
OTHERWISE NOTED.

LIMITS OF NO ACCESS

PLAN
US 81 REALIGNMENT
194+00 TO 209+00

State Job No. 24428(04) Sheet No. R051

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

PVC 189+00
EL=1263.19

+96.61 BEGIN BRIDGE "F"
+99.59 BEGIN BRIDGE "G"

HIGH PT. 196+07.27
EL=1273.29

PVI 196+25
EL=1283.90

+04.61 END BRIDGE "F"
+07.59 END BRIDGE "G"

1450' V.C.
K=248

FINISH GRADE

PVT 203+50
EL=1262.15

-3.00%

FINISH GRADE

EXIST. PROFILE

BRIDGE "F" LENGTH = 308' -0"
BRIDGE "G" LENGTH = 308' -0"

29 STA. 195+18 ℄ SURVEY US 81, 177.62' LT.
CONST. SMD, TYPE 2
STUB 410 LF 24" RCP INTO DITCH RT. W/ CET
TG=1241.28, FL=1238.18, DS FL=1233.82

30 STA. 200+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 130 LF 18" RCP INTO STR. 31
TG=1269.00, FL=1263.97, DS FL=1253.97

31 STA. 200+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 194 LF 18" RCP INTO DITCH RT. W/ CET
TG=1268.97, FL=1253.97, DS FL=1221.89

32 STA. 204+75 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 128 LF 18" RCP INTO DITCH LT. W/ CET
TG=1257.22, FL=1242.22, DS FL=1229.99

33 STA. 204+75 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 64 LF 18" RCP INTO STR. 34
TG=1254.48, FL=1246.48, DS FL=1242.20

34 STA. 204+75 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 198 LF 18" RCP INTO DITCH RT. W/ CET
TG=1257.20, FL=1242.20, DS FL=1206.55

35 STA. 208+75 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 74 LF 18" RCP INTO DITCH LT. W/ CET
TG=1245.22, FL=1236.58, DS FL=1235.84

36 STA. 208+75 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 64 LF 18" RCP INTO STR. 37
TG=1242.48, FL=1237.48, DS FL=1236.44

37 STA. 208+75 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 92 LF 18" RCP INTO DITCH RT. W/ CET
TG=1245.20, FL=1236.44, DS FL=1226.78

EXIST. PROFILE

F.G.=1272.42 EX.=1243.52
F.G.=1272.79 EX.=1242.06
F.G.=1273.06 EX.=1240.60
F.G.=1273.22 EX.=1237.47
F.G.=1273.29 EX.=1244.96
F.G.=1273.25 EX.=1248.20
F.G.=1273.12 EX.=1246.65
F.G.=1272.88 EX.=1234.79
F.G.=1272.54 EX.=1235.82
F.G.=1272.10 EX.=1233.21
F.G.=1271.56 EX.=1232.16
F.G.=1270.92 EX.=1231.52
F.G.=1270.18 EX.=1230.73
F.G.=1269.33 EX.=1229.09
F.G.=1268.39 EX.=1225.62
F.G.=1267.34 EX.=1218.89
F.G.=1266.20 EX.=1222.18
F.G.=1264.95 EX.=1215.77
F.G.=1263.60 EX.=1214.58
F.G.=1262.15 EX.=1218.25
F.G.=1260.65 EX.=1218.02
F.G.=1259.15 EX.=1218.15
F.G.=1257.65 EX.=1217.77
F.G.=1256.15 EX.=1217.34
F.G.=1254.65 EX.=1216.37
F.G.=1253.15 EX.=1215.02
F.G.=1251.65 EX.=1213.83
F.G.=1250.15 EX.=1212.05
F.G.=1248.65 EX.=1210.53
F.G.=1247.15 EX.=1209.40
F.G.=1245.65 EX.=1209.95

194+00 195+00 196+00 197+00 198+00 199+00 200+00 201+00 202+00 203+00 204+00 205+00 206+00 207+00 208+00 209+00

1280 1275 1270 1265 1260 1255 1250 1245 1240 1235 1230 1225 1220 1215 1210 1205

US 81 REALIGNMENT
GRADY COUNTY

PROFILE
US 81 REALIGNMENT
194+00 TO 209+00

State Job No. 24428(04) Sheet No. R052

PROPOSED
R/W
AUGUST 2017

SEC. 17 T6N R7W

SEC. 8 T6N R7W

SEC. 7 T6N R7W

BM#3 - 100D NAIL SET IN
E. FACE 8" ELM
℄ SURVEY U.S. 81
STA. 213+74.34, 247.53' LT.
ELEV. =1192.676

BM#4 - SET 3/4" I.P.(30" LONG)
℄ SURVEY U.S. 81
STA. 221+88.54, 247.39' LT.
ELEV. =1216.539

0 50' 100'

LIMITS OF NO ACCESS

PRES. R/W

2676.86'
S89°57'48.57"W

EW 139

STA. 204+96 TO 238+09
CONST. 3,355 L.F.
TYPE SWF (6WB) FENCE

TEMP. R/W
(CHANNEL)

GOVT LOT 16

NS 282

25' U/E

CONTINUUM

LIMITS OF NO ACCESS

+00 325' R/W
+50 275'
+09.58 282'
+58.13 284'
+55 335'
+55 292'
+20 335'
+20 299'
+97.98 276'
+54.71 267'
+50 220'
+00 237' R/W

TOC/TOS

BM#3

BM#4

210+00

215+00

220+00

209+00

224+00

℄ RAMP J

℄ SURVEY U.S. 81
N44°52'38.41"W

38 39 40 41 42 43 44 45 46 47 48

8' 25' 34' 64' 4' 22' 73' 56' 38' 33' 110' 63.79' +50 63.95' +50

℄ RAMP N

79

+75 270'
+75 305'
+75 300'
+00 215' R/W
+93.83 215'
+40.68 215'

2652.58'
N00°06'51.05"W

STA. 199+54 TO 223+17
CONST.3,780 L.F.
TYPE SWF (5WB) FENCE

+00 350' R/W
+00 386'

LIMITS OF NO ACCESS

SEC. 8 T6N R7W

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81 UNLESS OTHERWISE NOTED.

PLAN
US 81 REALIGNMENT
209+00 TO 224+00

State Job No. 24428(04) Sheet No. R053

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

FINISH GRADE

79 STA. 4206+35.22 ℄ RAMP N, 26.92' LT.
CONST. SMD, TYPE 2
STUB 168 LF 18" RCP INTO DITCH RT. W/ CET
TG=1233.99, FL=1223.99, DS FL=1193.27

-3.00%

PVC 218+25
EL=1217.90

1050' V.C.
K=195

PVT 228+75
EL=1214.73

38 STA. 213+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 174 LF 18" RCP INTO DITCH LT. W/ CET
TG=1232.47, FL=1217.47, DS FL=1194.53

39 STA. 213+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 130 LF 18" RCP INTO STR. 38
TG=1232.45, FL=1223.93, DS FL=1217.47

41 STA. 217+35 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 64 LF 18" RCP INTO STR. 42
TG=1219.42, FL=1214.40, DS FL=1208.68

42 STA. 217+35 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 64 LF 18" RCP INTO STR. 43
TG=1216.68, FL=1208.68, DS FL=1199.40

43 STA. 217+35 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 188 LF 18" RCP INTO STR. 40
TG=1219.42, FL=1199.40, DS FL=1176.18

44 STA. 220+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 66 LF 18" RCP INTO DITCH LT. W/ CET
TG=1212.23, FL=1207.70, DS FL=1206.42

45 STA. 220+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 120 LF 18" RCP INTO DITCH RT. W/ CET
TG=1212.23, FL=1202.23, DS FL=1189.18

FINISH GRADE

SP. DITCH LT.

PVI 223+50
EL=1202.15

EXIST. PROFILE

-2.76%

SP. DITCH RT.

-4.50%

EXIST. PROFILE

40 STA. 216+72.15 ℄ SURVEY US 81, ON ℄
CONST. 14'X8'X532' LG. RCB
SKEW 25° RT. FWD.
273' LG. LT. & 259' LG. RT. W/ STD. 30°
END SECTS. & 4' CURTAIN WALLS
FL LT=1173.63, FL RT.=1171.00

46 STA. 221+75 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 72 LF 18" RCP INTO DITCH LT. W/ CET
TG=1209.35, FL=1202.97, DS FL=1201.58

47 STA. 221+75 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 64 LF 18" RCP INTO STR. 46
TG=1206.63, FL=1204.07, DS FL=1202.97

48 STA. 222+75 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 60 LF 18" RCP INTO DITCH RT. W/ CET
TG=1208.40, FL=1204.34, DS FL=1203.13

F.G.=1245.65 EX.=1209.95	F.G.=1244.15 EX.=1210.12	F.G.=1242.65 EX.=1210.39	F.G.=1241.15 EX.=1209.47	F.G.=1239.65 EX.=1204.82	F.G.=1238.15 EX.=1203.07	F.G.=1236.65 EX.=1200.58	F.G.=1235.15 EX.=1193.94	F.G.=1233.65 EX.=1193.32	F.G.=1232.15 EX.=1185.25	F.G.=1230.65 EX.=1176.79	F.G.=1229.15 EX.=1183.58	F.G.=1227.65 EX.=1175.80	F.G.=1226.15 EX.=1174.23	F.G.=1224.65 EX.=1177.76	F.G.=1223.15 EX.=1188.87	F.G.=1221.65 EX.=1190.93	F.G.=1220.15 EX.=1193.18	F.G.=1218.65 EX.=1196.15	F.G.=1217.17 EX.=1198.36	F.G.=1215.79 EX.=1199.84	F.G.=1214.55 EX.=1199.17	F.G.=1213.44 EX.=1198.90	F.G.=1212.45 EX.=1200.56	F.G.=1211.59 EX.=1202.77	F.G.=1210.86 EX.=1204.30	F.G.=1210.26 EX.=1205.87	F.G.=1209.79 EX.=1208.37	F.G.=1209.45 EX.=1210.05	F.G.=1209.23 EX.=1210.75	F.G.=1209.15 EX.=1209.51
209+00	210+00	211+00	212+00	213+00	214+00	215+00	216+00	217+00	218+00	219+00	220+00	221+00	222+00	223+00	224+00						

US 81 REALIGNMENT

GRADY COUNTY

PROFILE
US 81 REALIGNMENT
209+00 TO 224+00

State Job No. 24428(04) Sheet No. R054

BM#5 - SET 3/4" I.P.(30" LONG)
℄ SURVEY U.S. 81
STA. 229+44.85, 230.97' LT.
ELEV. =1227.592

SEC. 7 T6N R7W

BM#6 - SET 3/4" I.P.(30" LONG)
℄ SURVEY U.S. 81
STA. 237+30.46, 270.08' LT.
ELEV. =1220.146

PROPOSED
R/W
AUGUST 2017

0 50' 100'

LIMITS OF NO ACCESS

+00 237'
+00 250'
TOC/TOS
R/W
BM#5
STA. 204+96 TO 238+09
CONST. 3,355 L.F.
TYPE SWF (6WB) FENCE
+00 185'
CAUTION - GAS LINE
225+00
230+00
235+00
BM#6
STA. 238+09 TO 293+00
CONST. 90 L.F.
TYPE WWF FENCE
+00 160'
CONTINUUM
25' U/E
TOC/TOS
R/W

224+00
239+00
59.24' @ +25
59.60' @ +25
64'
4'
36'
10'
24'
26'
50
49
52
℄ SURVEY US 81
N44°52'38.41"W

TOC/TOS
+00 150'
R/W
+25 150'
+00 168'
STA. 223+17 TO 239+00
CONST.1,565 L.F.
TYPE SWF (6WB) FENCE
+00 215'
+00 215'
TOC/TOS
R/W
CONTINUUM
25' U/E
CONTINUUM
28' U/E

LIMITS OF NO ACCESS

NS-282
PRES. R/W
2652.59'
N0°05'51.03"W
PRES. R/W

SEC. 8 T6N R7W

SEC. 7 T6N R7W

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81 UNLESS OTHERWISE NOTED.

PLAN
US 81 REALIGNMENT
224+00 TO 239+00

State Job No. 24428(04) Sheet No. R055

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

49 STA. 224+08.72 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 148 LF 24" RCP INTO STR. 51
TG=1205.22, FL=1202.79, DS FL=1189.24

51 STA. 225+60 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2B
STUB 168 LF 36" RCP INTO DITCH RT. W/ CET
TG=1205.81, FL=1188.24, DS FL=1184.98

52 STA. 233+50 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 110 LF 18" RCP INTO DITCH RT. W/ CET
TG=1222.19, FL=1219.63, DS FL=1219.06

1050' V.C.
K=195

PVC 218+25
EL=1217.90

LOW PT. 224+08.72
EL=1209.14

PVT 228+75
EL=1214.73

2.40%
4.53%
1.45%
3.92%
4.75%

FINISH GRADE
EXIST. PROFILE
SP. DITCH LT.
SP. DITCH RT.

F.G.=1209.15 EX.=1209.51	F.G.=1209.19 EX.=1207.62	F.G.=1209.36 EX.=1205.70	F.G.=1209.66 EX.=1189.89	F.G.=1210.08 EX.=1198.81	F.G.=1210.64 EX.=1208.28	F.G.=1211.32 EX.=1209.57	F.G.=1212.14 EX.=1211.04	F.G.=1213.08 EX.=1212.75	F.G.=1214.15 EX.=1213.30	F.G.=1215.33 EX.=1214.24	F.G.=1216.53 EX.=1214.69	F.G.=1217.73 EX.=1215.98	F.G.=1218.92 EX.=1218.36	F.G.=1220.12 EX.=1220.27	F.G.=1221.32 EX.=1222.73	F.G.=1222.52 EX.=1223.20	F.G.=1223.72 EX.=1225.10	F.G.=1224.92 EX.=1226.62	F.G.=1226.11 EX.=1228.11	F.G.=1227.31 EX.=1228.36	F.G.=1228.51 EX.=1227.24	F.G.=1229.71 EX.=1226.10	F.G.=1230.91 EX.=1224.69	F.G.=1232.11 EX.=1223.83	F.G.=1233.30 EX.=1222.77	F.G.=1234.50 EX.=1222.12	F.G.=1235.70 EX.=1219.83	F.G.=1236.90 EX.=1217.68	F.G.=1238.10 EX.=1215.28	F.G.=1239.29 EX.=1214.03

224+00 225+00 226+00 227+00 228+00 229+00 230+00 231+00 232+00 233+00 234+00 235+00 236+00 237+00 238+00 239+00

PROFILE
US 81 REALIGNMENT
224+00 TO 239+00

State Job No. 24428(04) Sheet No. R056

US 81 REALIGNMENT
GRADY COUNTY

SEC. 7 T6N R7W

PROPOSED
R/W
AUGUST 2017

25' U/E

U/E NO WIDTH SPECIFIED

STA. 244+48.56
℄ 5-WIRE-O.H. CROSSING
L.W.E.=1247.00
(AEP PSCO)

LIMITS OF NO ACCESS

STA. 239+00 TO 249+59.92
CONST. 1,059.92 L.F. TYPE
WWF FENCE

240+00

245+00

+00
240'

BM # 7

R/W

TOC/TOS

BRUSH

4" TO 36"
DECIDUOUS

CAUTION :
OH POWER

125

BARB WIRE FN (5-W)

℄ SURVEY US 81
N44°52'38.41"W

248+00

124

4" TO 36" DECIDUOUS

4" -8" CEDAR

CHICKASHA CITY LIMITS

STA. 238+25.00 TO
250+78.13 CONST. 1,253.13
L.F. TYPE WWF FENCE

+00
265'

2642.4'
S 89°53'06.08" W

OHLEC (5-W)

LIMITS OF NO ACCESS

+ 27.22 ~ PP 42.0' LT.
+ 36.17 ~ PP 46.0' LT.

0 50 100'

NOTE:
ALL BENCHMARKS, UTILITY, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

BM # 7 - SET 3/4" I.P. (30" LONG)
℄ SURVEY US 81
STA. 245+09.56, 219.21' LT.
ELEV. = 1215.3944

PLAN
US 81 REALIGNMENT
239+00 TO 248+00

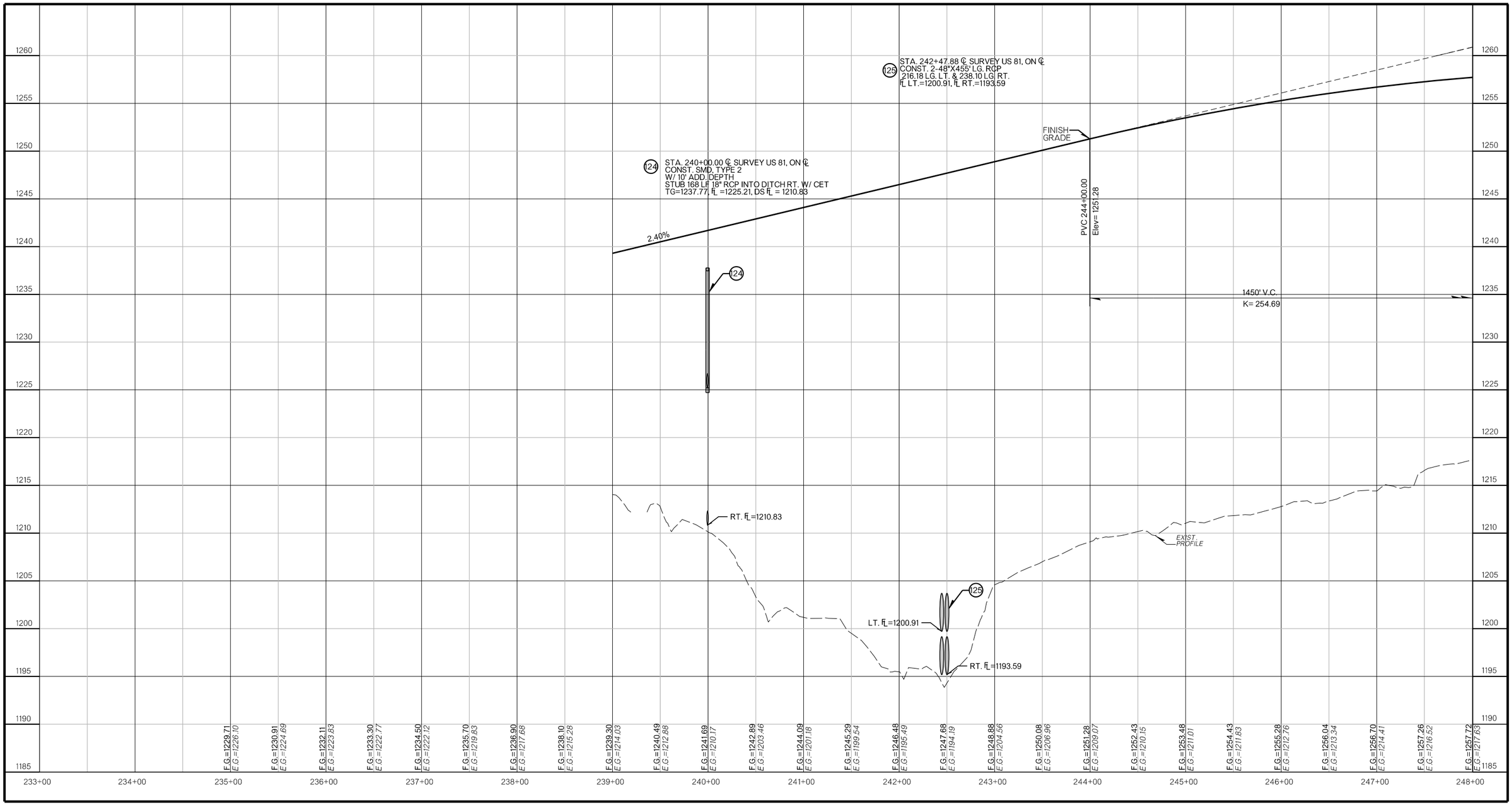
State Job No 24428(04) Sheet No R057

US 81 REALIGNMENT
GRADY COUNTY

SEC. 7 T6N R7W

PROPOSED
R/W

AUGUST 2017



PROFILE
US 81 REALIGNMENT
239+00 TO 248+00

State Job No 24428(04) Sheet No R058

US 81 REALIGNMENT

GRADY COUNTY

SEC. 7 T6N R7W

PROPOSED
R/W
AUGUST 2017

STA. 116+09.79 OFFSET 27.59' LT. ℄
12"X18.33' CGMP S.D.
FL ELEV. NE=1227.631
FL ELEV. SW=1227.66

STA. 249+48.66
℄ 4-WIRE-O.H. CROSSING
L.W.E.=1249.25
(AEP PSCO)

STA. 251+18.19 ℄ TELEPHONE CROSSING (ATT/D)
STA. 251+23.63 ℄ FIBER OPTICS CROSSING (ATT/D)
STA. 252+04.15 ℄ TELEPHONE CROSSING (ATT/D)
STA. 252+19.40 ℄ 4" WATER LINE CROSSING (RWD 7)
STA. 252+30.47 ℄ 6" WATER LINE CROSSING (RWD 7)

LIMITS OF NO ACCESS

STA. 239+00 TO 249+59.92
CONST. 1,059.92 L.F. TYPE
WWF FENCE

+59.92
200'

CHICKASHA CITY LIMITS

+52.16
175'

12" CGMP
FL NE=1227.63
FL SW=1227.56

CAUTION :
WATERLINE
TUG
FIBER OPTIC

STA. 251+52.16 TO
288+03.83 CONST.
3,651.67 L.F. TYPE
WWF FENCE

+00
80'

+00
110'

BRIDGE 'H'

BRIDGE 'I'

℄ RAMP O

℄ SURVEY US 81

℄ SURVEY US 81
N44°52'38.41"W

CAUTION :
OH POWER

+66.76
190'

+78.13
200'

STA. 238+25 TO 250+78.13
CONST. 1,253.13 L.F. TYPE
WWF FENCE

STA. 252+66.76 TO
279+00 CONST.
2,633.24 L.F. TYPE
WWF FENCE

BM # 9

LIMITS OF NO ACCESS

LIMITS OF NO ACCESS

8" DECIDUOUS

0 50 100'

NOTE:
ALL BENCHMARKS, UTILITY, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

BM # 9 - SET 3/4" I.P. (30" LONG)
℄ SURVEY US 81
STA. 260+20.24, 215.00' RT.
ELEV. = 1238.8087

PLAN
US 81 REALIGNMENT
248+00 TO 263+00

State Job No 24428(04) Sheet No R059

US 81 REALIGNMENT
GRADY COUNTY

SEC. 7 T6N R7W

PROPOSED
R/W

AUGUST 2017

BEG BRIDGE STA. = 249+22.47
F.G. ELEV.=1258.44

BRIDGE 'I' LENGTH = 363'-0¾"

END BRIDGE STA. = 252+85.53
F.G. ELEV.= 1257.10

BEG BRIDGE STA. = 249+03.72
F.G. ELEV.= 1258.37

BRIDGE 'H' LENGTH = 363'-0¾"

END BRIDGE STA. = 252+66.78
F.G. ELEV.= 1257.30

PROPOSED BRIDGE 'I' : FOUR SPAN (86'-100'-100'-66') P.C. BEAM BRIDGE WITH 16°15'27" SKEW RIGHT FORWARD, 38'-0" CLEAR ROADWAY AND 42" F-SHAPED PARAPETS AT ℄ SURVEY STA. 251+04.00

PROPOSED BRIDGE 'H' : FOUR SPAN (86'-100'-100'-66') P.C. BEAM BRIDGE WITH 16°15'27" SKEW RIGHT FORWARD, 38'-0" CLEAR ROADWAY AND 42" F-SHAPED PARAPETS AT ℄ SURVEY STA. 250+85.25

PVI 251+25.00
Elev= 1268.65

FINISH GRADE

HIGH PT. 250+10.31
EL=1258.59

EXIST. PROFILE

PVT 258+50.00
Elev= 1244.75

1450' V.C.
K= 254.69

| | | |

SEC. 7 T6N R7W

SEC. 7 T6N R7W

PROPOSED
R/W
AUGUST 2017

1020+00

1015+00

1010+00

LIMITS OF NO ACCESS

+78.85
343.09'

RT 1024+55.54

R/W

TOC/TOS

TOC/TOS

4' HIGH BRUSH

STA. 251+52.16 TO
288+03.83 CONST.
3,651.67 L.F. TYPE
WWF FENCE

265+00

+00
185'

+96.12
156.60'

PC 1072+11.02

R/W

TOC/TOS

270+00

1090+53

4' HIGH BRUSH

1095+00

TOC/TOS

275+00

℄ RAMP O

PI 1074+45.95

POB 1090+52.93

127

℄ SURVEY US 81

263+00

℄ SURVEY US 81
N44°52'38.41"W

278+00

℄ RAMP Q

126

4' HIGH BRUSH

4' HIGH BRUSH

PC 1093+53.17

TOC/TOS

R/W

BM # 10

TOC/TOS

BM # 14

STA. 252+66.76 TO
279+00 CONST.
2,633.24 L.F. TYPE
WWF FENCE

4' HIGH BRUSH

+65.38
233'

R/W

+00
285'

LIMITS OF NO ACCESS

SEC. 7 T6N R7W

0 50 100'

BM # 10 - SET 3/4" I.P. (30" LONG)
℄ SURVEY US 81
STA. 268+76.80, 217.22' RT.
ELEV. = 1235.9903

NOTE:
ALL BENCHMARKS, UTILITY, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

BM # 14 - SET 3/4" I.P. (30" LONG)
℄ SURVEY US 81
STA. 277+08.81, 222.72' RT.
ELEV. = 1220.2484

SEC. 7 T6N R7W

PLAN
US 81 REALIGNMENT
263+00 TO 278+00

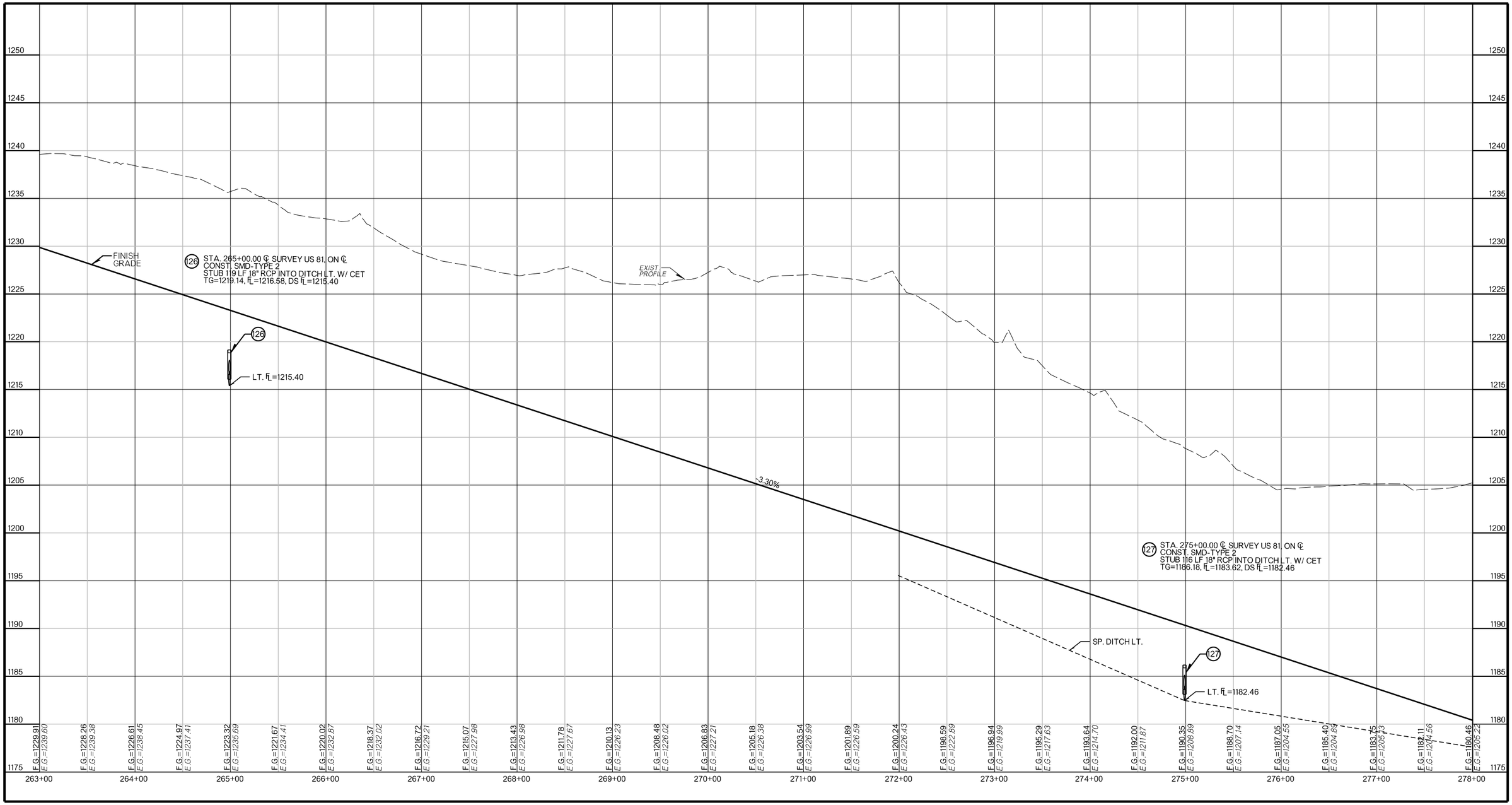
State Job No 24428(04) Sheet No R061

US 81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W

AUGUST 2017



PROFILE
US 81 REALIGNMENT
263+00 TO 278+00

State Job No 24428(04) Sheet No R062

US 81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 6 T6N R7W

STA. 288+53.99 TO
328+39.79 CONST.
4,985.80 L.F. TYPE
WWF FENCE

LIMITS OF NO ACCESS

+00
360'

+00
249.62'

+00
240'

R/W

BARBWIRE FN (6-W)

STA. 292+23.55 ℄ 5-WIRE-O.H. CROSSING
L.W.E.=1200.42
(AEP PSCO)

STA. 283+15.26 ℄ 3" WATER LINE CROSSING
(RWD 7)
STA. 283+71.02 ℄ TELEPHONE CROSSING
(ATT/D)
STA. 283+76.45 ℄ 3-WIRE-O.H. CROSSING
L.W.E.=1211.38
(OEC)
STA. 283+82.73 ℄ 4-WIRE-O.H. CROSSING
L.W.E.=1220.34
(AEP PSCO)

CAUTION :
WATERLINE
TUG
OH POWER

CAUTION :
OH POWER

℄ SURVEY US 81

℄ SURVEY COUNTRY CLUB ROAD

OH ELEC (4-W) AEP PSCO

3" WL (RWD 7)

UGND TEL (ATT/D)

BARBWIRE FN (4-W)

OH ELEC (4-W)

BARBWIRE FN (5-W)

℄ RAMP P

℄ RAMP Q

BRIDGE 'J'

CHICKASHA CITY LIMITS

WWF/BARBWIRE FN (3-W)

BARBWIRE FN (5-W)

OH ELEC (5-W)

UGND TEL (ATT/D)

STA. 252+66.76 TO
279+00.00 CONST.
2,633.24 L.F. TYPE
WWF FENCE

+43.79
355.85'

LIMITS OF NO ACCESS

BM # 16

BM # 17

TOC/TOS

PCC 1104+43.72

278+00
285+00
290+00
293+00
100+00
105+00
110+00
115+00
120+00

+84.47 ~ PP 134.2' RT.
+53.11 ~ PP 41.6' LT.
+01.24 ~ PP 42.3' RT.
+30.11 ~ PP 67.9' LT.
+64.24 ~ LP 151.4' RT.

SEC. 6 T6N R7W

BM # 16 - SET 3/4" I.P. (30" LONG)
℄ SURVEY COUNTRY CLUB RD.
STA. 105+78.86, 134.75' LT.
ELEV. = 1176.3595

NOTE:
ALL BENCHMARKS, UTILITY, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

BM # 17 - SET 3/4" I.P. (30" LONG)
℄ SURVEY US 81
STA. 291+94.55, 161.56' RT.
ELEV. = 1175.5353

+96.19 ~ PP 32.1' RT.
+06.79 ~ PP 40.2' RT.

0 50 100'

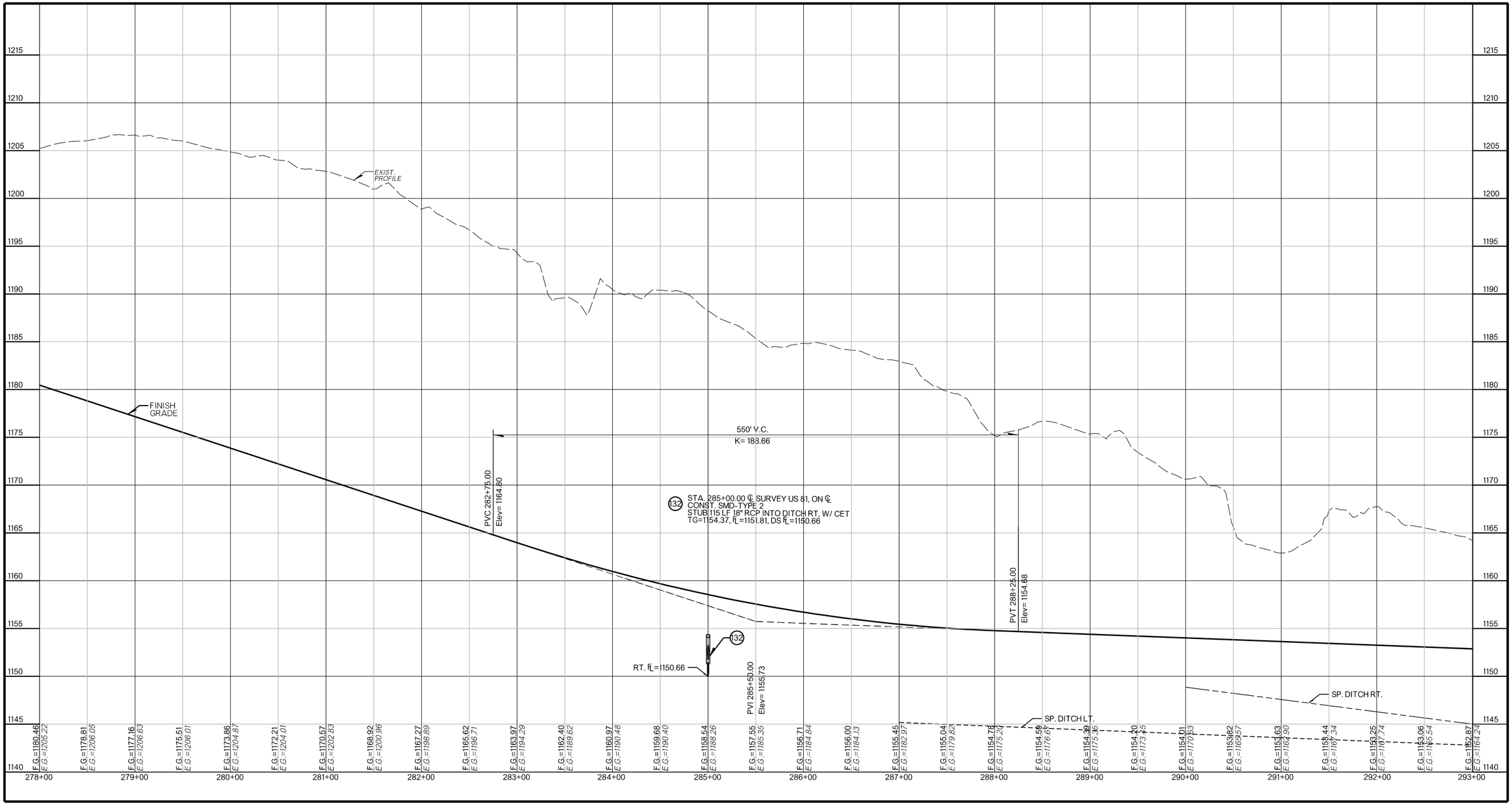
PLAN
US 81 REALIGNMENT
278+00 TO 293+00

State Job No 24428(04) Sheet No R063

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W

AUGUST 2017



PROFILE
US 81 REALIGNMENT
278+00 TO 293+00

State Job No 24428(04) Sheet No R064

US 81 REALIGNMENT

GRADY COUNTY

SEC. 6 T6N R7W

PROPOSED
R/W
AUGUST 2017

+00

33'

R/W

PRES R/W

PRES R/W

+00
185'

295+00

TOC/TOS

2657.43'
N 00°01'28.45"E

1170+00

LIMITS OF NO ACCESS

STA. 288+53.99 TO
338+39.79 CONST.
4,985.80 L.F. TYPE
WWF FENCE

300+00

1173+39

R/W

+00
185'

R/W

+00
265'

TOC/TOS

305+00

BARBWIRE FN (5-W)

293+00

℄ SURVEY US 81

PI 299+83.56

BRIDGE 'K'

℄ SURVEY US 81

308+00

134

℄ RAMP R

135

BARBWIRE FN (5-W)

BARBWIRE FN (5-W)

PI 1167+60.11

BM # 18

PCC 1172+57.54

PI 1172+98.22

PCC 1172+59.50

PT 1173+38.90

+00
200'

R/W

TOC/TOS

TOC/TOS

R/W

+57.46
275'

1170+00

LIMITS OF NO ACCESS

STA. 281+00 TO
339+01.45 CONST.
5,801.45 L.F. TYPE
WWF FENCE

1175+00

BM # 19

0 50 100'

BM # 18 - SET 3/4" I.P. (30" LONG)
℄ SURVEY US 81
STA. 299+82.47, 186.53' RT.
ELEV. = 1149.7671

NOTE:
ALL BENCHMARKS, UTILITY, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

BM # 19 - SET 3/4" I.P. (30" LONG)
℄ SURVEY US 81
STA. 307+77.96, 207.93' RT.
ELEV. = 1138.6389

PLAN
US 81 REALIGNMENT
293+00 TO 308+00

State Job No 24428(04) Sheet No R065

US 81 REALIGNMENT

GRADY COUNTY

SEC. 6 T6N R7W

PROPOSED
R/W

AUGUST 2017

HYDRAULIC DATA

DRAINAGE AREA	= 7.08 SQ. MI.
CONTROLLED AREA	= 0.00 SQ. MI.
EFFECTIVE AREA	= 7.08 SQ. MI.
Q2	= 590 CFS
V2	= 1.69 FPS
CHW2	= 1,134.31 FT.
Q5	= 1,280 CFS
V5	= 2.52 FPS
CHW5	= 1,137.25 FT.
Q10	= 1,970 CFS
V10	= 3.35 FPS
CHW10	= 1,138.90 FT.
Q25	= 3,130 CFS
V25	= 4.96 FPS
CHW25	= 1,140.44 FT.
Q50	= 4,020 CFS
V50	= 6.18 FPS
CHW50	= 1,140.57 FT.
Q100	= 5,070 CFS
V100	= 7.60 FPS
CHW100	= 1,141.16 FT.
Q500	= 8,070 CFS
V500	= 11.45 FPS
CHW500	= 1,143.76 FT.
Q0T$LQ500	$ 8,070 CFS
VOT	= 11.45 FPS
CHWOT	= 1,143.90 FT.

PROPOSED BRIDGE 'K' : 3-18' X 15' X 220' LONG RCB
WITH 15° SKEW RIGHT FORWARD, WINGS, APRONS,
AND 8' DEEP CURTAIN WALLS AT ℄ SURVEY STA. 308+12.70

(135) STA. 304+50.00 ℄ SURVEY US 81, ON ℄
CONST. SMD-TYPE 2
STUB 117 LF 18" RCP INTO DITCH LT, W/ CET
TG=1144.59, FL=1142.03, DS FL=1140.87

EXIST. PROFILE
FINISH GRADE
SP. DITCH RT.
SP. DITCH LT.
SP. DITCH RT.

-0.38%
+0.38%
-0.38%
+0.38%
+0.38%

300' V.C.
K= 393.92

300' V.C.
K= 318.90

PVC 303+00.00
Elev= 1149.05

PVI 304+50.00
Elev= 1148.48

LOW PT. 304+50.31
EL=1148.77

PVT 306+00.00
Elev= 1149.05

PVC 306+50.00
Elev= 1149.24

HIGH PT. 307+71.18
EL=1149.47

PVI 308+00.00 Elev= 1149.81

BRIDGE 'K' LENGTH = 220'
BEG BRIDGE STA. = 307+82.44

RT. FL=1140.87

STA	E.G.	F.G.
293+00	1164.24	1152.87
294+00	1160.86	1152.68
295+00	1161.90	1152.49
296+00	1157.12	1152.30
297+00	1159.40	1152.11
298+00	1155.14	1151.91
299+00	1153.41	1151.72
300+00	1151.81	1151.53
301+00	1150.15	1151.34
302+00	1148.35	1151.15
303+00	1146.23	1150.96
304+00	1145.49	1150.77
305+00	1145.01	1150.58
306+00	1144.42	1150.39
307+00	1143.85	1150.20
308+00	1143.36	1150.01
	1142.69	1149.82
	1142.22	1149.62
	1141.64	1149.43
	1141.07	1149.24
	1140.98	1149.05
	1140.84	1148.89
	1140.61	1148.80
	1140.28	1148.77
	1140.03	1148.80
	1139.80	1148.89
	1139.26	1149.05
	1139.22	1149.24
	1140.27	1149.39
	1139.82	1149.46
	1133.19	1149.46

PROFILE
US 81 REALIGNMENT
293+00 TO 308+00

State Job No 24428(04) Sheet No R066

US 81 REALIGNMENT
GRADY COUNTY

SEC. 6 T6N R7W

PROPOSED
R/W
AUGUST 2017

+00
225'

TOC/TOS

R/W

+68.43
180'

STA. 288+53.99 TO
338+39.79 CONST.
4,985.80 L.F. TYPE
WWF FENCE

LIMITS OF NO ACCESS

310+00

315+00

320+00

1207+77

+15.02
220'

BRIDGE 'K'

308+00

℄ SURVEY US 81

TOC/TOS

ELEC FN (1-W)

+37
220'

1298+77

POB 1207+76.56

ELEC FN (2-W)

℄ RAMP S

℄ SURVEY US 81
N01°43'24.55"E

POB 1298+76.74

323+00

℄ RAMP U

BARBWIRE FN (2-W)

CL 1169.69

+23.19
156.44

PRES R/W

+00
125'

R/W

+18.55
189.13

BM # 20

STA. 281+00.00 TO
339+01.45 CONST.
5,801.45 L.F. TYPE
WWF FENCE

+8.66
155'

R/W

TOC/TOS

+00
230'

BARBWIRE FN (5-W)

TEMP. DRAINAGE EASMENT

STA. 308+00.00 TO 312
+18.55 CONST. TEMP. R/W
FENCE

+2.97
297.37'

LIMITS OF NO ACCESS

1328.68'

N 0°1'28" E

33'

+48.31
160'

BARBWIRE FN (5-W)

6" WIDE RETAINING WALL

+00

0 50 100'

BM # 20 - SET 3/4" I.P. (30" LONG) - - 1' UNDERGROUND
℄ SURVEY US 81
STA. 315+73.98, 173.94' RT.
ELEV. = 1135.8839

NOTE:
ALL BENCHMARKS, UTILITY, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

SEC. 6 T6N R7W

PLAN
US 81 REALIGNMENT
308+00 TO 323+00

State Job No 24428(04) Sheet No R067

US 81 REALIGNMENT

GRADY COUNTY

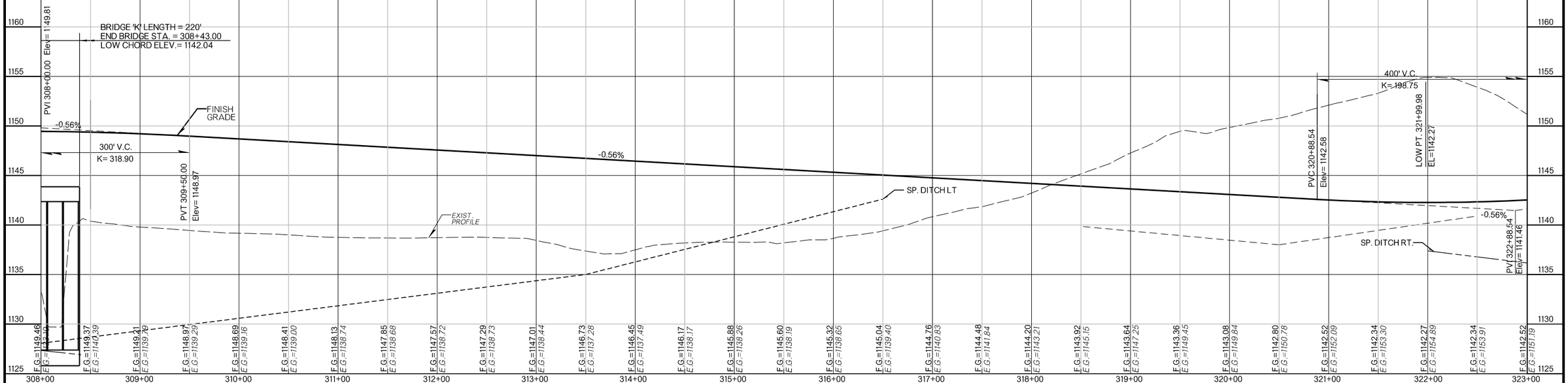
PROPOSED
R/W

AUGUST 2017

PROPOSED BRIDGE 'K' - 3-18' X 15' X 220' LONG RCB
WITH 15° SKEW RIGHT FORWARD, WINGS, APRONS,
AND 8' DEEP CURTAIN WALLS AT ℄ SURVEY STA. 308+12.70

HYDRAULIC DATA

DRAINAGE AREA	= 7.08 SQ. MI.
CONTROLLED AREA	= 0.00 SQ. MI.
EFFECTIVE AREA	= 7.08 SQ. MI.
Q2	= 590 CFS
V2	= 1.69 FPS
CHW2	= 1,134.31 FT.
Q5	= 1,280 CFS
V5	= 2.52 FPS
CHW5	= 1,137.25 FT.
Q10	= 1,970 CFS
V10	= 3.35 FPS
CHW10	= 1,138.90 FT.
Q25	= 3,130 CFS
V25	= 4.96 FPS
CHW25	= 1,140.44 FT.
Q50	= 4,020 CFS
V50	= 6.18 FPS
CHW50	= 1,140.57 FT.
Q100	= 5,070 CFS
V100	= 7.60 FPS
CHW100	= 1,141.16 FT.
Q500	= 8,070 CFS
V500	= 11.45 FPS
CHW500	= 1,143.76 FT.
Q0T$ Q500	$ 8,070 CFS
VOT	= 11.45 FPS
CHWOT	= 1,143.90 FT.



	E.G.=	E.G.=
308+00	1149.46	1142.10
309+00	1149.37	1140.39
310+00	1149.21	1139.76
311+00	1148.97	1139.29
312+00	1148.89	1139.16
313+00	1148.41	1139.00
314+00	1148.13	1138.74
315+00	1147.85	1138.68
316+00	1147.57	1138.72
317+00	1147.29	1138.73
318+00	1147.01	1138.44
319+00	1146.73	1137.28
320+00	1146.45	1137.49
321+00	1146.17	1138.17
322+00	1145.88	1138.26
323+00	1145.60	1138.19
	1145.32	1138.65
	1145.04	1139.40
	1144.76	1140.83
	1144.48	1141.84
	1144.20	1143.21
	1143.92	1145.15
	1143.64	1147.25
	1143.36	1149.45
	1143.08	1149.84
	1142.80	1150.78
	1142.52	1152.09
	1142.34	1153.30
	1142.27	1154.89
	1142.34	1153.91
	1142.52	1151.19

PROFILE
US 81 REALIGNMENT
308+00 TO 323+00

State Job No 24428(04) Sheet No R068

US 81 REALIGNMENT

GRADY COUNTY

SEC. 1 T6N R8W

PROPOSED
R/W
AUGUST 2017

50' U/E

50' U/E

50' U/E

STA. 324+50 TO 366+50 CONST.
TEMP. R/W FENCE

LIMITS OF NO ACCESS

1210+00

1215+00

1220+00

+00
250'

+50
205.54

+00
250'

197.41'

+50
191.97'

BARBWIRE FN (5-W)

STA. 288+53.99 TO
338+39.79 CONST.
4,985.80L.F. TYPE
WWF FENCE

1305+00

+00
175'

R/W

BARBWIRE FN (3-W)

PC 1212+28.10

PT 1217+68.83

+42.36
479.41'

TOC/TOS

℄ RAMP S

PC 1217+96.75

PI 1222+99.41

PT 1223+99.65

WM/BARBWIRE FN (3-W)

TOC/TOS

TOC/TOS

137

138

139

136

℄ RAMP S

1325+00

1330+00

1310+00

323+00

℄ SURVEY US 81
N01°43'24.55"E

PI 1215+01.72

℄ SURVEY US 81
N01°43'24.55"E

338+00

1315+00

TOC/TOS

BARBWIRE FN (5-W)

R/W

BM # 21

+00
150'

150'

PC 1303+78.52

+00
150'

+00
150'

PRES R/W

PI 1306+89.73

1278.69'

1278.69'

TOC/TOS

PRES R/W

332.17'

PRES R/W

TEMP R/W

2657.43'

N 00°01'28.45" E

+00
90.76'

+00
196.69'

PRES R/W

PRES R/W

33'

PRES R/W

1312.18'

PC 1312+80.08

STA. 325+00.00 TO
327+00.00 CONST. TEMP.
R/W FENCE

BARBWIRE FN (5-W)

1305+00

R/W

BM # 23

140

+63.20
231.97'

PT 1309+91.41

TOC/TOS

PT 1315+12.70

LIMITS OF NO ACCESS

STA. 281+00 TO
339+01.45 CONST.
5,801.45 L.F. TYPE
WWF FENCE

℄ RAMP U

℄ RAMP U

0 50 100'

BM # 21 - SET 3/4" I.P. (30" LONG) -
- 1' UNDERGROUND
℄ SURVEY US 81
STA. 323+71.24, 162.63' RT.
ELEV. = 1143.2519

NOTE:
ALL BENCHMARKS, UTILITY, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

BM # 23 - SET 3/4" I.P. (30" LONG)
℄ SURVEY US 81
STA. 331+35.67, 232.88' RT.
ELEV. = 1132+09.86

SEC. 6 T6N R7W

PLAN
US 81 REALIGNMENT
323+00 TO 338+00

State Job No 24428(04) Sheet No R069

US 81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W

AUGUST 2017

PROPOSED BRIDGE 'N' : THREE SPAN (50'-94'-50') P.C. BEAM BRIDGE WITH 0° SKEW, 38'-0" CLEAR ROADWAY AND 42" F-SHAPED PARAPETS AT ℄ SURVEY STA. 339+06.40

PROPOSED BRIDGE 'M' : THREE SPAN (50'-94'-50') P.C. BEAM BRIDGE WITH 0° SKEW, 38'-0" CLEAR ROADWAY AND 42" F-SHAPED PARAPETS AT ℄ SURVEY STA. 339+03.40

BEGIN BRIDGE STA. = 338+08.98
BRIDGE 'N' LENGTH = 194' - 10"
END BRIDGE STA. = 340+03.82

BEGIN BRIDGE STA. = 338+05.98
BRIDGE 'M' LENGTH = 194' - 10"
END BRIDGE STA. = 340+00.82

(136) STA. 325+00.00 ℄ SURVEY US 81, ON ℄
CONST. SMD-TYPE 2
STUB 68 LF 18" RCP INTO STR. 137
TG=1138.10, FL=1135.54, DS FL=1134.36

(137) STA. 325+91.40 ℄ SURVEY US 81, ON ℄
CONST. 2-8'x6'x253' LG. RCB
127' LG. LT. & 126' LG. RT. W/ 30° SKEW RT FWD
END SECTS. & 4' CURTAIN WALLS
FL LT.=1134.00 & FL RT.=1132.00

(139) STA. 335+00.00 ℄ SURVEY US 81, ON ℄
CONST. 48"x309' LG. RCP
152' LG. LT. & 157' LG. RT.
FL LT.=1131.50 & FL RT.=1129.75

400' V.C.

PVT 324+88.54
Elev= 1144.37

1.45%

+1.45%

PVC 330+95.00
Elev= 1153.17

PVI 332+00.00
Elev= 1154.70

210' V.C.
K= 278.03

PVT 333+06.00
Elev= 1155.43

0.70%

FINISH GRADE

PVC 336+50.00
Elev= 1157.83

350' V.C.
K= 287.96

STR. 7
STA. 325+91.40
CONST. 2-8' X 6' X ?' RCB
?.??' LG. LT. & ?.??' LG. RT.

EXIST. PROFILE

SP. DITCH RT.

LT. FL =1134.00

RT. FL=1132.00

LT. FL=1131.50

RT. FL=1129.75

1195 1190 1185 1180 1175 1170 1165 1160 1155 1150 1145 1140 1135 1130 1125 1120

323+00	324+00	325+00	326+00	327+00	328+00	329+00	330+00	331+00	332+00	333+00	334+00	335+00	336+00	337+00	338+00
F.G.=1142.52	F.G.=1142.84	F.G.=1143.28	F.G.=1143.84	F.G.=1144.53	F.G.=1145.26	F.G.=1145.99	F.G.=1146.71	F.G.=1147.44	F.G.=1148.16	F.G.=1148.89	F.G.=1149.61	F.G.=1150.34	F.G.=1151.07	F.G.=1151.79	F.G.=1152.52
E.G.=1151.19	*E.G.=1149.67*	*E.G.=1146.22*	*E.G.=1144.08*	*E.G.=1141.93*	*E.G.=1137.03*	*E.G.=1134.10*	*E.G.=1135.43*	*E.G.=1138.87*	*E.G.=1138.38*	*E.G.=1138.39*	*E.G.=1137.66*	*E.G.=1137.14*	*E.G.=1136.83*	*E.G.=1136.67*	*E.G.=1136.50*

F.G.=1153.24	F.G.=1153.92	F.G.=1154.50	F.G.=1154.99	F.G.=1155.39	F.G.=1155.74	F.G.=1156.09	F.G.=1156.44	F.G.=1156.79	F.G.=1157.13	F.G.=1157.48	F.G.=1157.83	F.G.=1158.14	F.G.=1158.35	F.G.=1158.49
E.G.=1136.47	*E.G.=1136.28*	*E.G.=1135.83*	*E.G.=1135.39*	*E.G.=1135.08*	*E.G.=1134.63*	*E.G.=1134.31*	*E.G.=1134.05*	*E.G.=1133.59*	*E.G.=1133.26*	*E.G.=1133.10*	*E.G.=1133.17*	*E.G.=1133.22*	*E.G.=1133.22*	*E.G.=1133.13*

PROFILE
US 81 REALIGNMENT
323+00 TO 338+00

State Job No 24428(04) Sheet No R070

US 81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 1 T6N R8W

SEC. 36 T7N R8W

SEC. 6 T6N R7W

SEC. 31 T7N R7W

+00
+39.79
479.76'

+6.32
479.76'

POB 1220+00
POE 1220+00

+93.88
480.39'

R/W

115+00

TOC/TOS

STA. 338+71.22
℄ 3 WIRE O.H. CROSSING
L.W.E.=1137.97
(APPSCO)

141

BARBWIRE FN (5-W)

STA. 339+26.70
℄ TELEPHONE CROSSING
(ATT/D)
STA. 339+44.87
℄ 6" WATER LINE CROSSING
(RWD 6)
STA. 339+70.58
℄ TELEPHONE CROSSING
(ATT/D)

1255+00

LIMITS OF NO ACCESS

1260+00

℄ RAMP S

TOC/TOS

TOC/TOS

℄ RAMP T

+00
300'

STA. 339+06.32 TO 390+74.35
CONST. 5,168.03 L.F. TYPE
WWF FENCE

16.5'

PC 1251+44.77

PI 1252+62.91

PT 1253+77.39

PC 1256+65.29

+00
165'

R/W

177.64'

1360+00

PT 1262+78.18

TOC/TOS

50' U/E

142

340+00

345+00

TOC/TOS

PRES R/W

℄ SURVEY GRAND AVE

PRES R/W

BARBWIRE FN (6-W)

UGND TEL (ATT/D)

UGND TEL (ATT/D)

BRIDGE 'M'

℄ RAMP T

338+00

℄ SURVEY (US81)

℄ SURVEY US 81
N01°43'24.55"E

353+00

PI 1229+76.50

120+00

1356+00

BRIDGE 'N'

CAUTION :
WATERLINE
TUG
OH POWER

1316+66 1350+00

POB 1316+66.01
POB 1350+00.00

BARBWIRE FN (3-W)

PRES R/W

1302.32'

2637.62'
N 00°00'34.84" W

TOC/TOS

PRES R/W

1302.31'

PI 1360+45.32

TOC/TOS

R/W

PT 1363+12.43

+29.02
150'

BM # 24

UGND TEL (ATT/D)

143

PI 1353+42.19

℄ RAMP V

PC 1351+40.07

POB 1316+66.01

POB 1350+00.00

UGND TEL (ATT/D)

UGND TEL (ATT/D)

PC 1359+11.69

BM # 25

+00
250'

STA. 339+33.90 TO 391+12.03
CONST. 5,178.13 L.F. TYPE
WWF FENCE

LIMITS OF NO ACCESS

TOC/TOS

TOC/TOS

TOC/TOS

R/W

℄ RAMP U

℄ RAMP V

30+00

0 50 100'

+ 63.82 – PP 187.9' LT.
+ 75.52 – PP 110.6' RT.

BM # 24 - SET 3/4" I.P. (30" LONG)
℄ SURVEY GRAND AVE.
STA. 121+84.30, 37.10' LT.
ELEV. = 1132.6589

NOTE:
ALL BENCHMARKS, UTILITY, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

BM # 25 - SET 3/4" I.P. (30" LONG)
℄ SURVEY US 81
STA. 347+12.25, 244.09' RT.
ELEV. = 1130.7895

PLAN
US 81 REALIGNMENT
238+00 TO 353+00

State Job No 24428(04) Sheet No R071

US 81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W

AUGUST 2017

PROPOSED BRIDGE 'N' : THREE SPAN (50'-94'-50') P.C. BEAM BRIDGE WITH 0° SKEW, 38'-0" CLEAR ROADWAY AND 42" F-SHAPED PARAPETS AT ℄ SURVEY STA. 339+06.40

PROPOSED BRIDGE 'M' : THREE SPAN (50'-94'-50') P.C. BEAM BRIDGE WITH 0° SKEW, 38'-0" CLEAR ROADWAY AND 42" F-SHAPED PARAPETS AT ℄ SURVEY STA. 339+03.40

BRIDGE 'N' LENGTH = 194' - 10"

BEGIN BRIDGE STA. = 338+08.98
F.G. ELEV.= 1158.50

END BRIDGE STA. = 340+03.82
F.G. ELEV.= 1158.12

BEGIN BRIDGE STA. = 338+05.98
F.G. ELEV.= 1158.50

END BRIDGE STA. = 340+00.82
F.G. ELEV.= 1158.14

BRIDGE 'M' LENGTH = 194' - 10"

(142) STA. 341+00.00 ℄ SURVEY US 81, ON ℄
CONST. 2-48"x314' LG. RCP
154' LG. LT & 160' LG. RT
fl LT.=1131.50 & fl RT.=1129.75

PVI 338+25.00
Elev= 1159.05

HIGH PT. 338+50.58
EL=1158.53

350' V.C.
K= 287.96

PVI 340+00.00
Elev= 1158.14

FINISH GRADE

-0.52%

EXIST. PROFILE

LT. fl =131.59

RT. fl =1129.75

SP. DITCH RT.

F.G.=1158.49	F.G.=1158.53	F.G.=1158.49	F.G.=1158.36	F.G.=1158.14	F.G.=1157.88	F.G.=1157.62	F.G.=1157.36	F.G.=1157.10	F.G.=1156.84	F.G.=1156.59	F.G.=1156.33	F.G.=1156.07	F.G.=1155.81	F.G.=1155.55	F.G.=1155.29	F.G.=1155.03	F.G.=1154.77	F.G.=1154.51	F.G.=1154.25	F.G.=1153.99	F.G.=1153.73	F.G.=1153.47	F.G.=1153.21	F.G.=1152.95	F.G.=1152.69	F.G.=1152.43	F.G.=1152.17	F.G.=1151.92	F.G.=1151.66	F.G.=1151.40
E.G.=1133.13	*E.G.=1133.32*	*E.G.=1134.96*	*E.G.=1134.34*	*E.G.=1133.27*	*E.G.=1132.55*	*E.G.=1132.09*	*E.G.=1131.72*	*E.G.=1131.13*	*E.G.=1130.94*	*E.G.=1130.87*	*E.G.=1130.91*	*E.G.=1131.02*	*E.G.=1130.98*	*E.G.=1131.25*	*E.G.=1131.58*	*E.G.=1131.86*	*E.G.=1132.17*	*E.G.=1132.53*	*E.G.=1133.06*	*E.G.=1133.31*	*E.G.=1133.88*	*E.G.=1134.43*	*E.G.=1134.93*	*E.G.=1136.03*	*E.G.=1135.93*	*E.G.=1136.29*	*E.G.=1136.89*	*E.G.=1137.28*	*E.G.=1138.10*	*E.G.=1138.56*

338+00 339+00 340+00 341+00 342+00 343+00 344+00 345+00 346+00 347+00 348+00 349+00 350+00 351+00 352+00 353+00

1190 1185 1180 1175 1170 1165 1160 1155 1150 1145 1140 1135 1130 1125 1120 1115

US 81 REALIGNMENT

GRADY COUNTY

PROFILE
US 81 REALIGNMENT
335+00 TO 350+00

State Job No 24428(04) Sheet No R072

SEC. 36 T7N R8W

PROPOSED
R/W
AUGUST 2017

STA. 354+88.38
℄ 3" HP GAS LINE CROSSING
(SUNOCO)

STA. 357+02.61
OFFSET 192.70' RT. ℄
15"X30.20' CMP S.D.
℄ ELEV. N=1136.83
℄ ELEV. S=1139.75

STA. 365+24.25
℄ GAS LINE CROSSING
(DCP MIDSTREAM)

STA. 365+28.97
℄ 2" HP GAS LINE CROSSING
(SUNOCO)

+00

LIMITS OF NO ACCESS

1270+00

1273+78

STA. 339+06.32 TO 390+74.35
CONST. 5,168.03 L.F. TYPE
WWF FENCE

+36.53
250'

R/W

+67.97
225'

234.58'

1265+00

1365+00

3" G LN (SUNOCO)

BARBWIRE FN (5-W)

CAUTION :
GAS

1370+00

1374+13

TOC/TOS

POE 1273+78.42

50' U/E

UGND G LN
(DCP MIDSTREAM)

2" G LN (SUNOCO)

10' U/E

OHTELEC (2-W)

BARBWIRE FN (5-W)

CAUTION :
GAS

355+00

360+00

PI 1371+12.43

145

146

℄ RAMP T

+53.43
59.46'

+93.85
45.18'

POE 1374+13.61

+2.02
90.36'

+65.10
0.00'

353+00

℄ SURVEY US 81
N01°43'24.55"E

℄ SURVEY US 81
N01°43'24.55"E

368+00

℄ RAMP V

℄ RAMP V

660.00'

PRES R/W

2637.62'

N 00°00'34.84" W

2" G LN (SUNOCO)

BARBWIRE FN (5-W)

658.82'

2" G LN (SUNOCO)

33'

659.41'

PRES R/W

659.41'

20' U/E

15" CMP
℄ N=1136.83
℄ S=1139.75

33' U/E

144

145

R/W

PI 1270+78.18

TOC/TOS

STA. 339+33.90 TO 391+12.03
CONST. 5,178.13 L.F. TYPE
WWF FENCE

192.86'

R/W

TOC/TOS

+00
215'

UGND G LN
(DCP MIDSTREAM)

UGND G LN
(DCP MIDSTREAM)

+51.92
275'

BARBWIRE FN (5-W)

TOC/TOS

+00

LIMITS OF NO ACCESS

BM # 26

1365+00

BARBWIRE FN (5-W)

1370+00

BARBWIRE FN (5-W)

STA. 365+51.92 TO
393+14.66 CONST. TEMP.
R/W FENCE

+54.77
375'

R/W

LIMITS OF ACCESS
TO COUNTY ROAD ONLY

BM # 27

BM # 28

+ 07.55' – ANT 133.2' LT.
+ 17.15 – SDISH 131.6' LT.
+ 19.68 – GUY ANC 192.0' LT.
+ 19.79 – GMK 91.5' RT.
+ 23.16 – PP 119.1' LT.
+ 23.76 – SIGN 50.3' RT.

0 50 100'

BM # 26 - SET 3/4" I.P. (30" LONG)
℄ SURVEY US 81
STA. 354+96.15, 244.55' RT.
ELEV. = 1140.1674

BM # 27 - CHIS. "X" SET ON N.E. CORNER
OF HIGHEST CONC. SLAB, SOUTH OF
LINE CREEK
℄ SURVEY US 81
STA. 357+02.39, 391.80' RT.
ELEV. = 1136.5030

NOTE:
ALL BENCHMARKS, UTILITY, AND R/W
DIMENSIONS SHOWN ARE FROM THE
℄ SURVEY U.S. 81.

BM # 28 - SET 3/4" I.P. (30" LONG)
℄ SURVEY US 81
STA. 362+57.30, 371.62' RT.
ELEV. = 1147.9903

SEC. 31 T7N R7W

PLAN
US 81 REALIGNMENT
353+00 TO 368+00

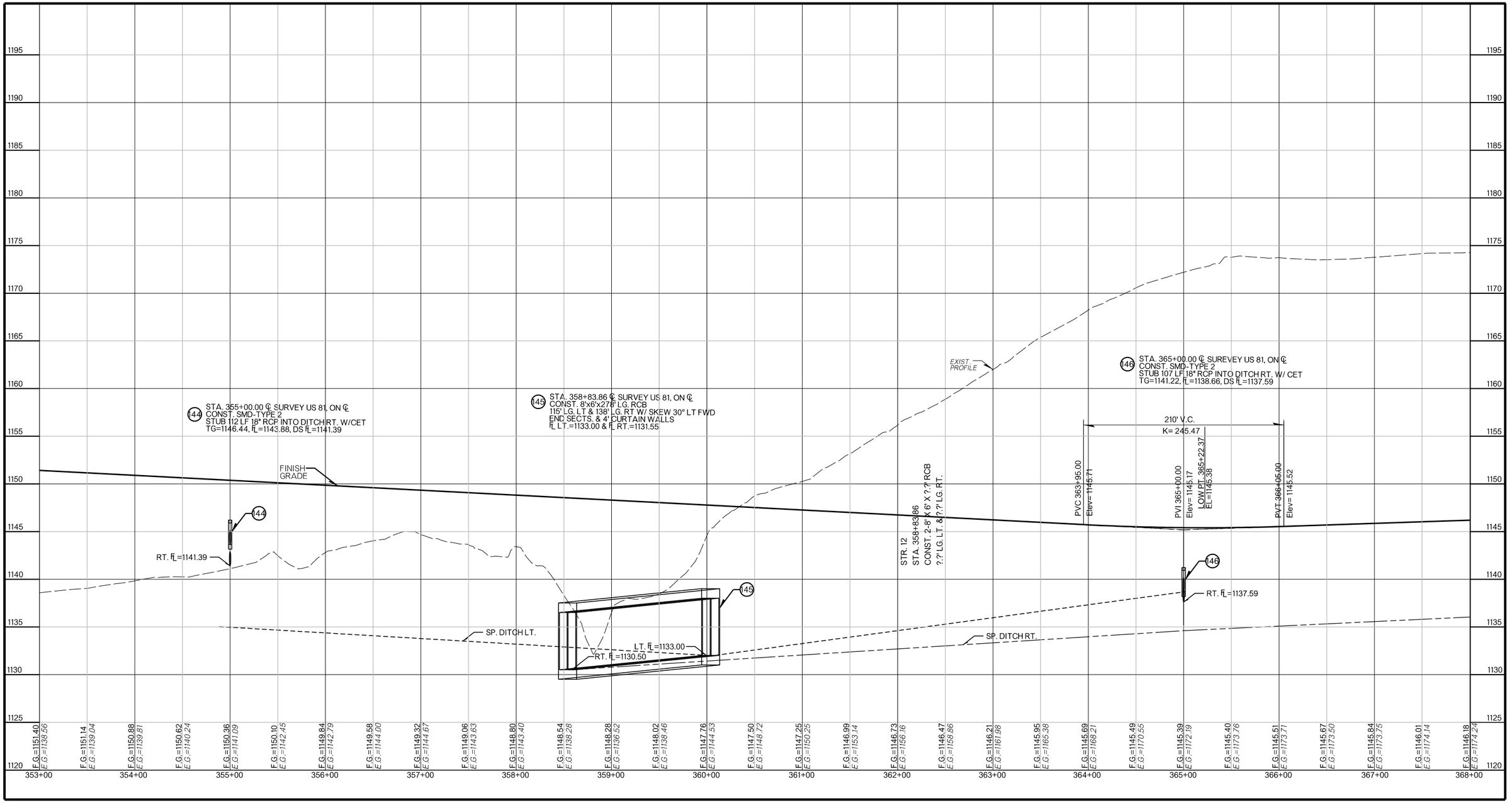
State Job No 24428(04) Sheet No R073

US 81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W

AUGUST 2017



PROFILE
US 81 REALIGNMENT
353+00 TO 368+00

State Job No 24428(04) Sheet No R074

US 81 REALIGNMENT

GRADY COUNTY

SEC. 36 T7N R8W

PROPOSED
R/W
AUGUST 2017

10' U/E

+00

LIMITS OF NO ACCESS

STA. 379+88.43
℄ 4-WIRE-O.H. CROSSING
L.W.E.=1206.26
(PSCO)

STA. 339+06.32 TO 390+74.35
CONST. 5,168.03 L.F. TYPE
WWF FENCE

+00
280'

R/W

TOC/TOS

+00
280'

R/W

TOC/TOS

370+00

375+00

CAUTION :
OH POWER

OH ELEC (4-W) AEP PSCO)

368+00

℄ SURVEY US 81

℄ SURVEY US 81
N01°43'24.55"E

383+00

PRES R/W

PRES R/W

33'

2637.62'
N 00°00'34.84" W

2637.62'
N 00°00'34.84" W

PRES R/W

PRES R/W

OH ELEC (3-W)

OH ELEC (2-W)

STA. 339+33.90 TO 391+12.03
CONST. 5,178.13 L.F. TYPE
WWF FENCE

+69.03
186.88'

R/W

+00
225'

R/W

BM # 29

TOC/TOS

TOC/TOS

TOC/TOS

STA. 365+51.92 TO
393+14.06 CONST. TEMP.
R/W FENCE

BM # 30

+74.76
375'

33' U/E

TEMP. R/W

R/W

LIMITS OF ACCESS
TO COUNTY ROAD ONLY

+ 66.58 ~ BUY ANC 47.8' RT.
+ 89.39 ~ PP 47.1' RT.
+ 90.60 ~ PP 83.4' RT.
+ 92.32 ~ BUY ANC 101.4' RT.

+ 74.95 ~ PP 38.5' RT.

0 50 100'

BM # 29 - SET 3/4" I.P. (30" LONG)
℄ SURVEY US 81
STA. 370+58.95, 310.52' RT.
ELEV. = 1165.0940

NOTE:
ALL BENCHMARKS, UTILITY, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

BM # 30 - SET 3/4" I.P. (30" LONG)
℄ SURVEY US 81
STA. 378+29.20, 336.61 RT.
ELEV. = 1174.6291

SEC. 31 T7N R7W

PLAN
US 81 REALIGNMENT
368+00 TO 383+00

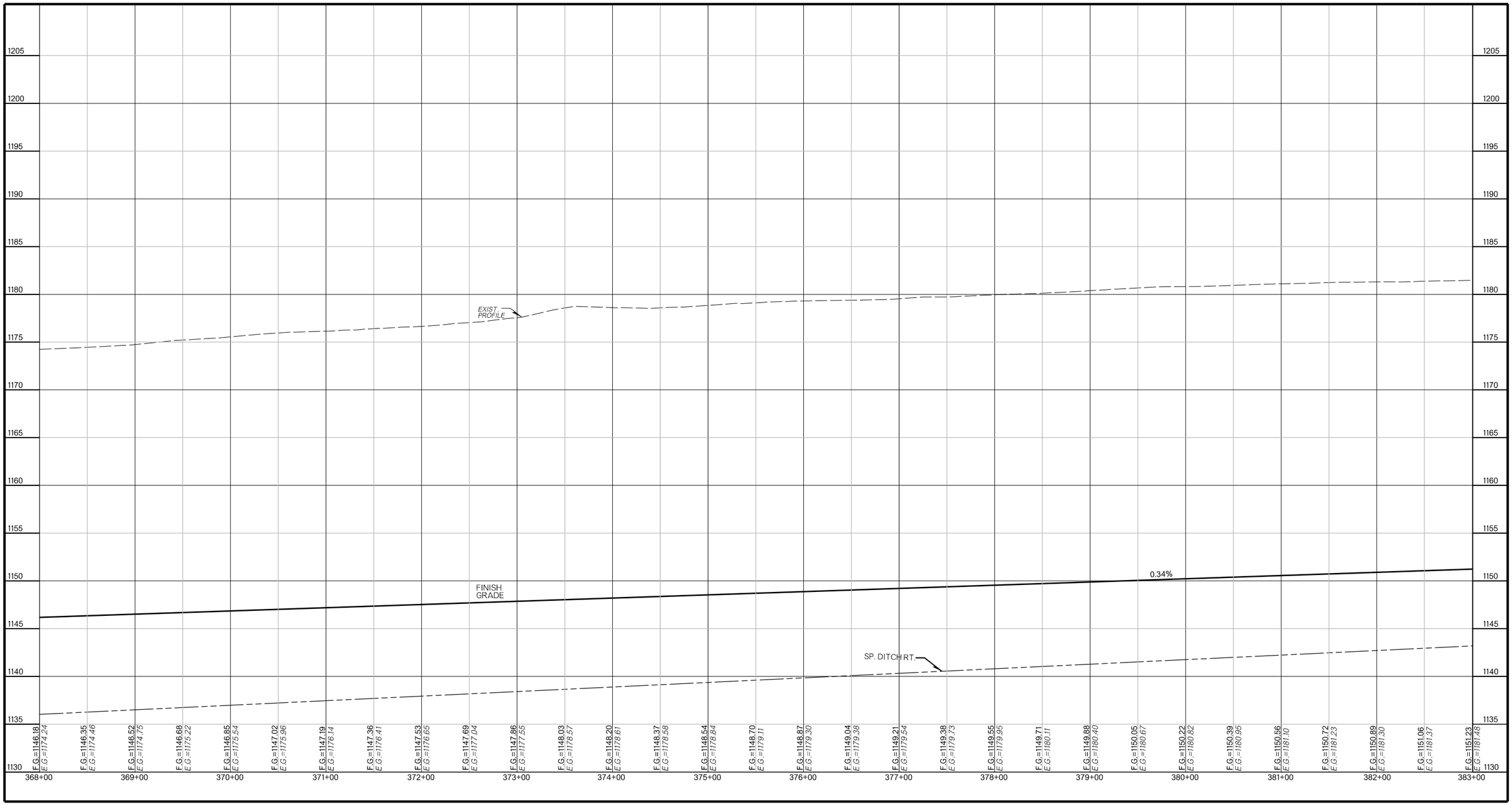
State Job No 24428(04) Sheet No R075

US 81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W

AUGUST 2017



PROFILE
US 81 REALIGNMENT
368+00 TO 383+00

State Job No 24428(04) Sheet No R076

US 81 REALIGNMENT

GRADY COUNTY

SEC. 36 T7N R8W

SEC. 30 T7N R7W

PROPOSED
R/W
AUGUST 2017

+00

LIMITS OF NO ACCESS

+44.09
432.16'

+61.02
457.35'

STA. 390+64.04 TO 390+74.35
CONST. 343.23 L.F. TYPE SWF
(5BW) FENCE

STA. 390+92.13 TO 391+96.59
CONST. 344.58 L.F. TYPE SWF
(5BW) FENCE

STA. 339+06.32 TO 390+74.35
CONST. 5,168.03 L.F. TYPE
WWF FENCE

+00
265'

R/W

TOC/TOS

+74.35
250'

+96.60
275'

LIMITS OF NO ACCESS

STA. 391+96.59 TO
396+00.00 CONST. 403.41
L.F. TYPE WWF FENCE

385+00

CAUTION :
OH POWER

STA. 388+87.64
℄ 5-WIRE-O.H. CROSSING
L.W.E.=1203.38
(AEP PSCO)

390+00

1810+00

+00
250'

OHELEC (3-W)

PRES R/W

℄ SURVEY IDAHO AVE.

6"WL (RWD 6)

JNT

BRIDGE 'O'

383+00

℄ SURVEY US 81
N01°43'24.55"E

OH ELEC (4-W)

BARBWIRE FN (5-W)

147

PRES R/W

396+00

℄ SURVEY US 81

+81.79
160'

+30.58
170.70'

STA. 339+33.90 TO 391+12.03
CONST. 5,178.13 L.F. TYPE
WWF FENCE

CAUTION :
WATERLINE
TUG
OH POWER

R/W

TOC/TOS

UGND TEL (AT&T/D)

+83.13
253.65'

STA. 391+60.96
℄ 4-WIRE-O.H. CROSSING
L.W.E.=1205.03
(AEP PSCO)

STA. 391+70.46
℄ 2 1/2" WATER LINE CROSSING
(RWD 6)

STA. 391+73.53
℄ 4" WATER LINE CROSSING
(RWD 6)

STA. 391+78.30
℄ TELEPHONE CROSSING
(ATT/D)

STA. 392+02.28
℄ 6" WATER LINE CROSSING
(RWD 6)

BM # 31

BM # 33

+32.26
274.77'

STA. 393+32.26 TO
396+00.00 CONST. 267.74
L.F. TYPE WWF FENCE

STA. 365+51.92 TO
393+14.06 CONST. TEMP.
R/W FENCE

+94.02
363.46'

TEMP. R/W

+00
240'

+00

LIMITS OF ACCESS
TO COUNTY ROAD ONLY

+40.58
374.59'

1815+00

0 50 100'

US 81 REALIGNMENT

GRADY COUNTY

SEC. 30 T7N R7W

BM # 31 - SET 3/4" I.P. (30" LONG)
℄ SURVEY US 81
STA. 386+19.74, 310.53' RT.
ELEV. = 1172.3735

BM # 33 - SET 3/4" I.P. (30" LONG)
℄ SURVEY IDAHO AVE.
STA. 114+28.25, 120.83' LT.
ELEV. = 1177.0519

NOTE:
ALL BENCHMARKS, UTILITY, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

+ 51.27 – PP 30.8' RT.
+ 33.40 – PP 6.9' RT.
+ 82.07 – SIGN 31.3' RT.
+ 83.49 – GATE 11.8' LT.
+ 95.50 – SIGN 1.6' RT.
+ 07.12 – PP 36.3' LT.
+ 28.31 – GUY ANC 38.8' LT.
+ 46.64 – PP 69.46' LT.
+ 47.23 – TP 45.7' LT.
+ 97.47 – MB 28.7' LT.
+ 76.91 – WM 58.4' RT.

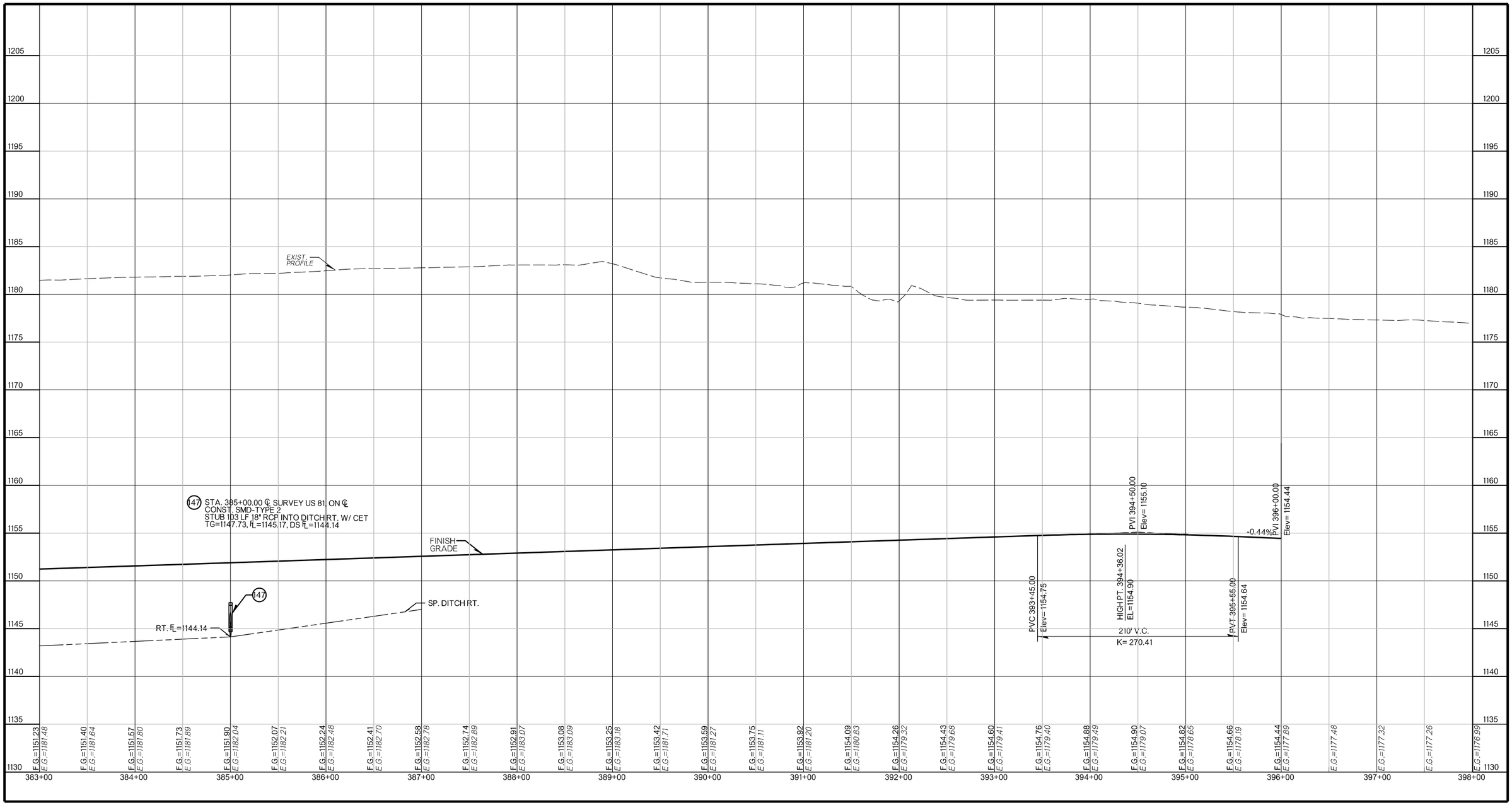
SEC. 31 T7N R7W

PLAN
US 81 REALIGNMENT
383+00 TO 396+00

State Job No 24428(04) Sheet No R077

PROPOSED
R/W

AUGUST 2017



	F.G.=1151.23 E.G.=1181.48	F.G.=1151.40 E.G.=1181.64	F.G.=1151.57 E.G.=1181.80	F.G.=1151.73 E.G.=1181.89	F.G.=1151.90 E.G.=1182.04	F.G.=1152.07 E.G.=1182.21	F.G.=1152.24 E.G.=1182.48	F.G.=1152.41 E.G.=1182.70	F.G.=1152.58 E.G.=1182.78	F.G.=1152.74 E.G.=1182.89	F.G.=1152.91 E.G.=1183.07	F.G.=1153.08 E.G.=1183.09	F.G.=1153.25 E.G.=1183.18	F.G.=1153.42 E.G.=1181.71	F.G.=1153.59 E.G.=1181.27	F.G.=1153.75 E.G.=1181.11	F.G.=1153.92 E.G.=1181.20	F.G.=1154.09 E.G.=1180.83	F.G.=1154.26 E.G.=1179.32	F.G.=1154.43 E.G.=1179.68	F.G.=1154.60 E.G.=1179.41	F.G.=1154.76 E.G.=1179.40	F.G.=1154.88 E.G.=1179.49	F.G.=1154.90 E.G.=1179.07	F.G.=1154.82 E.G.=1178.65	F.G.=1154.66 E.G.=1178.19	F.G.=1154.44 E.G.=1177.89	E.G.=1177.48	E.G.=1177.32	E.G.=1177.26	E.G.=1176.99
STA.	383+00		384+00		385+00		386+00		387+00		388+00		389+00		390+00		391+00		392+00		393+00		394+00		395+00		396+00		397+00		398+00

PROFILE
US 81 REALIGNMENT
383+00 TO 398+00

State Job No 24428(04) Sheet No R078

US 81 REALIGNMENT

GRADY COUNTY

8/21/2017

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PROPOSED
R/W
AUGUST 2017

SEC. 25, T7N R8W

0 50' 100'

STATUTORY R/W

STATUTORY R/W

LIMITS OF NO ACCESS

STA. 396+00.00 TO STA. 411+25.00
CONST. FENCE STYLE WWF

+50
250'

R/W

TOC/TOS

405+00

410+00

+50
465'

R/W

BARBWIRE FN (4-W)

+34.25
240'

2634.54'

2651.08'

N 00°04'25.51"W

2634.54'

+96.33
230'

TOC/TOS

R/W

+00
250'

STATUTORY R/W

SEC. LINE NS-281

STATUTORY R/W

400+00

400+00

400+00

℄ RAMP W

405+00

410+00

148

℄ SURVEY US-81

US81-3

10'

36'

4'

64'

4'

36'

10'

24'

4'

24'

10'

6-4'

396+00

411+00

150

149

405+00

℄

BARBWIRE FN (4-W)

℄ RAMP Y

CHICKASHA CITY LIMITS

BARBWIRE FN (5-W)

410+00

TOC/TOS

R/W

+00
240'

STA. 396+00.00 TO STA. 411+00.00
CONST. FENCE STYLE WWF

+00
250'

1325.02'

℄

CHICKASHA CITY LIMITS

+00
285'

R/W

N00°10'39"W

LIMITS OF NO ACCESS

R/W

TOC/TOS

+00
430'

R/W

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US-81.

SEC. 30, T7N R7W

BM #32 1873.77' RT. OF US-81 CRL A001
CHIS. "X" SET, NW COR. PAD OF WATER VAULT
STA. 399+38.08 ELEV: 1176.66

BM #34 255.39' RT. OF US-81 CRL A001
SET 3/4" I.P. (30" LONG)
STA. 401+84.95 ELEV: 1174.28

BM #232 2379.36' RT. OF US-81 CRL A001
80D SPIKE IN POWER POLE
STA. 406+08.72 ELEV: 1160.59

BM #35 337.74' RT. OF US-81 CRL A001
SET 3/4" I.P. (30" LONG)
STA. 409+18.77 ELEV: 1169.99

PLAN
US-81 REALIGNMENT
396+00 TO 411+00

State Job No. 24428(04) Sheet No. R079

US-81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

EXISTING PROFILE

EXISTING PROFILE

401+84.62
℄ RT. = 1149.26

403+50.00
℄ RT. = 1146.00

403+98.81
℄ RT. = 1145.51

404+23.18
℄ RT. = 1142.55

404+95.45
℄ LT. = 1146.73

410+95.61
℄ RT. = 1139.64

-0.439%

FINISH GRADE

-1.97% RT.

-1.00% RT.

-2.44% RT.

-0.44% LT.

SP. DITCH LT.

-0.43% RT.

SP. DITCH RT.

150 STA 403+50.00
CONST. 5'X5'X3.21' TALL JB 94' RT
W/184 LF 36"X22" RCPA & PCES TO OUTFALL
TR = 1146.00 FL = 1142.79 DS FL = 1142.05

396+00	397+00	398+00	399+00	400+00	401+00	402+00	403+00	404+00	405+00	406+00	407+00	408+00	409+00	410+00	411+00
EX.=1177.48	EX.=1177.32	EX.=1177.26	EX.=1176.99	EX.=1176.79	EX.=1176.52	EX.=1176.46	EX.=1176.49	EX.=1175.71	EX.=1175.63	EX.=1175.42	EX.=1175.16	EX.=1174.93	EX.=1174.63	EX.=1174.23	EX.=1174.16
F.G.=1154.44	F.G.=1154.22	F.G.=1154.00	F.G.=1153.78	F.G.=1153.56	F.G.=1153.34	F.G.=1153.12	F.G.=1152.90	F.G.=1152.68	F.G.=1152.46	F.G.=1152.24	F.G.=1152.02	F.G.=1151.80	F.G.=1151.58	F.G.=1151.36	F.G.=1151.14
EX.=1174.07	EX.=1173.86	EX.=1173.63	EX.=1173.41	EX.=1173.34	EX.=1172.69	EX.=1172.28	EX.=1172.00	EX.=1171.60	EX.=1171.23	EX.=1170.85	EX.=1170.29	EX.=1169.82	EX.=1169.60		
F.G.=1150.71	F.G.=1150.49	F.G.=1150.27	F.G.=1150.05	F.G.=1149.83	F.G.=1149.61	F.G.=1149.39	F.G.=1149.17	F.G.=1148.95	F.G.=1148.73	F.G.=1148.51	F.G.=1148.29	F.G.=1148.07			

PROFILE
US-81 REALIGNMENT
396+00 TO 411+00

State Job No. 24428(04) Sheet No. R080

GRADY COUNTY US-81 REALIGNMENT

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PROPOSED
R/W
AUGUST 2017

0' 50' 100'

STA. 412+80.00 TO STA. 459+95.14
CONST. FENCE STYLE WWF

℄ RAMP X

℄ SURVEY US-81
US81-3

℄ RAMP Z

LIMITS OF NO ACCESS CHICKASHA CITY LIMITS

LIMITS OF ACCESS
TO CO. RD. EW - 135.5 ONLY

CRL CO. RD. EW-135.5

R/W FOR COUNTY RD.

CAUTION:
GAS LINE

IOWA AVE CRL

CHICKASHA CITY LIMITS

LIMITS OF NO ACCESS

SEC. 30, T7N R7W

STA. 412+75.00 TO STA. 457+86.43
CONST. FENCE STYLE WWF

STA. 413+00.00 TO STA. 457+86.43
CONST. FENCE STYLE WWF

Reliance Pipeline Co.
50' Pipeline Easement
Rec'd. Bk. 1442, Pg. 49
Filed October 2, 1984

Reliance Pipeline Co.
20' Pipeline Easement
Rec'd. Bk. 1442, Pg. 62
Filed October 2, 1984

Reliance Pipeline Co.
50' Pipeline Easement
Rec'd. Bk. 2490, Pg. 25-39
Filed November 12, 1992

Arkansas Louisiana Gas Co.
40' Pipeline Easement
Rec'd. Bk. 87, Pg. 441
Filed February 16, 1970

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US-81.

BM #36 271.62 RT. OF US-81 CRL A001
SET 3/4" I.P. (30" LONG)
STA. 417+60.46 ELEV: 1162.43

BM #37 267.77 RT. OF US-81 CRL A001
SET 3/4" I.P. (30" LONG)
STA. 425+88.69 ELEV: 1158.54

PLAN
US-81 REALIGNMENT
411+00 TO 426+00

State Job No. 24428(04) Sheet No. R081

GRADY COUNTY US-81 REALIGNMENT

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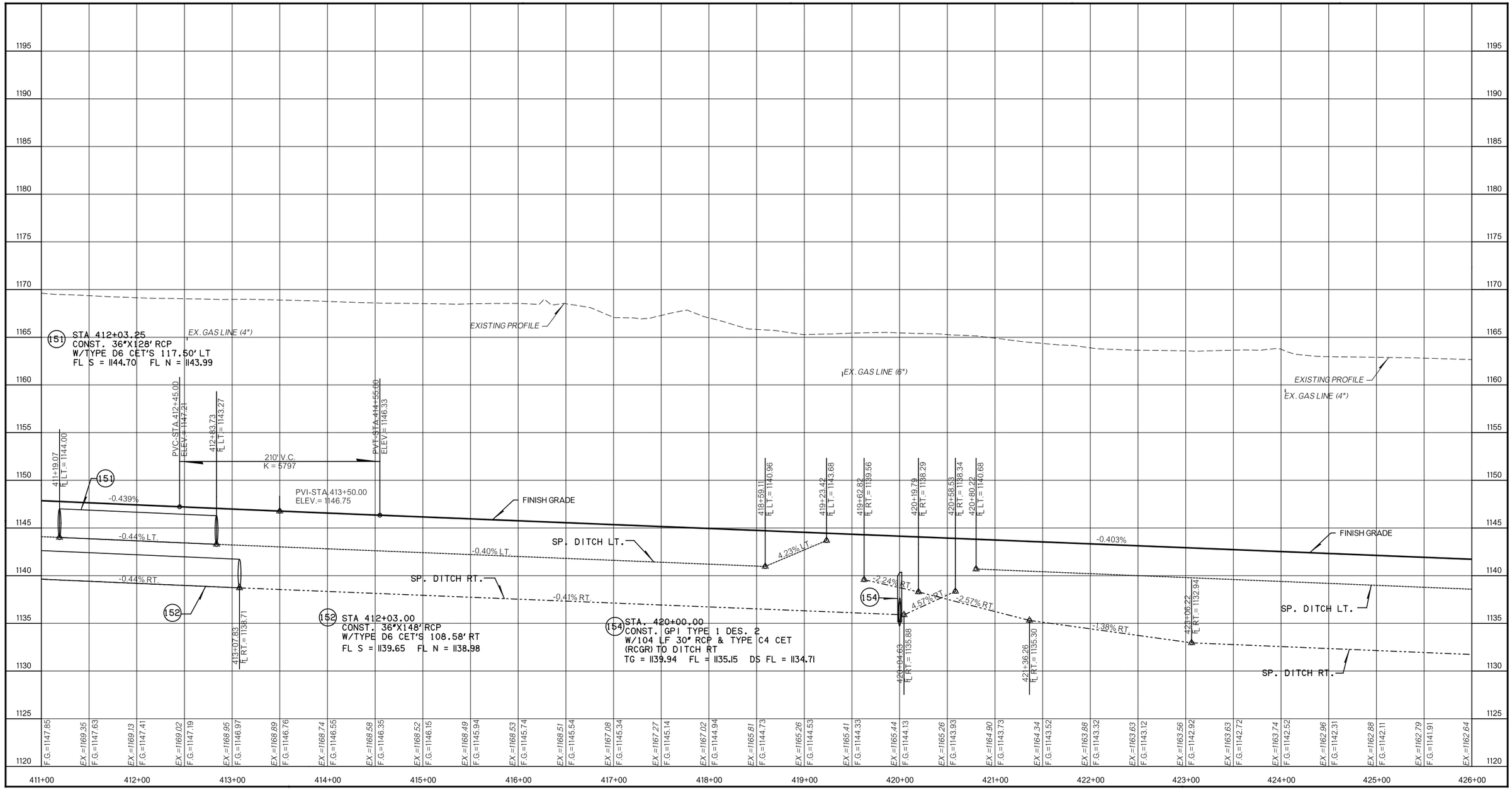
PROPOSED
R/W
AUGUST 2017



PROFILE
US-81 REALIGNMENT
411+00 TO 426+00

State Job No. 24428(04) Sheet No. R082

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US-81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 30, T7N R7W

0 50' 100'

LIMITS OF ACCESS
TO CO. RD. EW - 135.5 ONLY

LIMITS OF NO ACCESS

STA. 426+40.5 ℄
4" HP GAS LINE CROSSING
(CONTINUUM ENERGY)

STA. 427+46.81 ℄
TELEPHONE CROSSING
(ATT/D

STA. 121+24.60 OFFSET 118.65'LT. ℄
8"x23.20"MTL PIPE
ft ELEV. N=1144.00
ft ELEV. S=1144.12

Chickasha Municipal Authority
40' Easement
Rec'd. Bk. 3537, Pg. 151
Filed November 18, 2003

20+00

25+00

℄ SURVEY CR 281.5

STA. 431+39.52 ℄
WATER LINE CROSSING
(CHICKASHA)

STA. 431+71.22 ℄
6" WATER LINE CROSSING
(R'WD 6)

STA. 438+66.79 ℄
4" HP GAS LINE CROSSING
(CONTINUUM ENERGY)

STORAGE TANK
GUY ANCHOR
GUY ANCHOR
SEPTARATOR
BARBWIRE FN (G-W)
BLDG
GAS WELL
DIRT

Reliance Pipeline Co.
50' Pipeline Easement
(Obscure Description)
Rec'd. Bk. 1442, Pg. 58
Filed October 2, 1984

GUY ANCHOR
GUY ANCHOR

NATUR

R/W FOR COUNTY RD.
R/W FOR COUNTY RD.
R/W FOR COUNTY RD.

120+00

CATTLE GUARD

BARBWIRE FN (G-W)

CHICKASHA CITY LIMITS

N 0°17'07" W
647.22'

(165)

40'

RAWSON, DAVID DALE & JO EDYTHA
(BK. & PG. NOT RECORD)

CRL CO. RD. EW-135.5

R/W
R/W
R/W
R/W
R/W
R/W

+00
220'
TOC/TOS

+50
165'

+50
220'

STA. 412+80.00 TO STA. 459+95.14
CONST. FENCE STYLE WWF

CULTIVATION

PASTURE

TOC/TOS

CAUTION:
GAS LINE
TUG

CAUTION:
WATER LINE

CAUTION:
GAS LINE

430+00

435+00

440+00

PT. STA. 434+53.73

+00
130'

4" HP G LN
(CONTINUUM ENERGY)

426+00

441+00

BARBWIRE FN (G-W)

TUG

OVHD TEL (ATT/D)

EW-135.5

2602.91'
S 89°57'33.80" W

2636.48'
S 89°58'41.04" W

1501.73'
N 76°18'09.32" E

36'
64'
24'
10'
4'

℄ SURVEY US-81

MT. RAIL RD.

CATTLE GUARD

4" HP G LN
(CONTINUUM ENERGY)

FH

DIRT

TOC/TOS

+00
230'

+00
235'

+00
250'

+00
210'

CULTIVATION

Chickasha Municipal Authority
40' Easement
Rec'd. Bk. 3534, Pg. 270
Filed September 10, 2003

STA. 412+75.00 TO STA. 457+86.43
CONST. FENCE STYLE WWF

Reliance Pipeline Co.
50' Pipeline Easement
(Obscure Description)
Rec'd. Bk. 1442, Pg. 60
Filed October 2, 1984

NS-281.5
¼ SEC. LINE

2646.79'
N 0°17'05.10" W

EW-135.5
¼ SEC. LINE

LIMITS OF NO ACCESS

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W,
AND R/W DIMENSIONS SHOWN ARE FROM
THE ℄ SURVEY US-81.

PLAN
US-81 REALIGNMENT
426+00 TO 441+00

State Job No. 24428(04) Sheet No. R083

US-81 REALIGNMENT
GRADY COUNTY

8/21/2017
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8/27/2017

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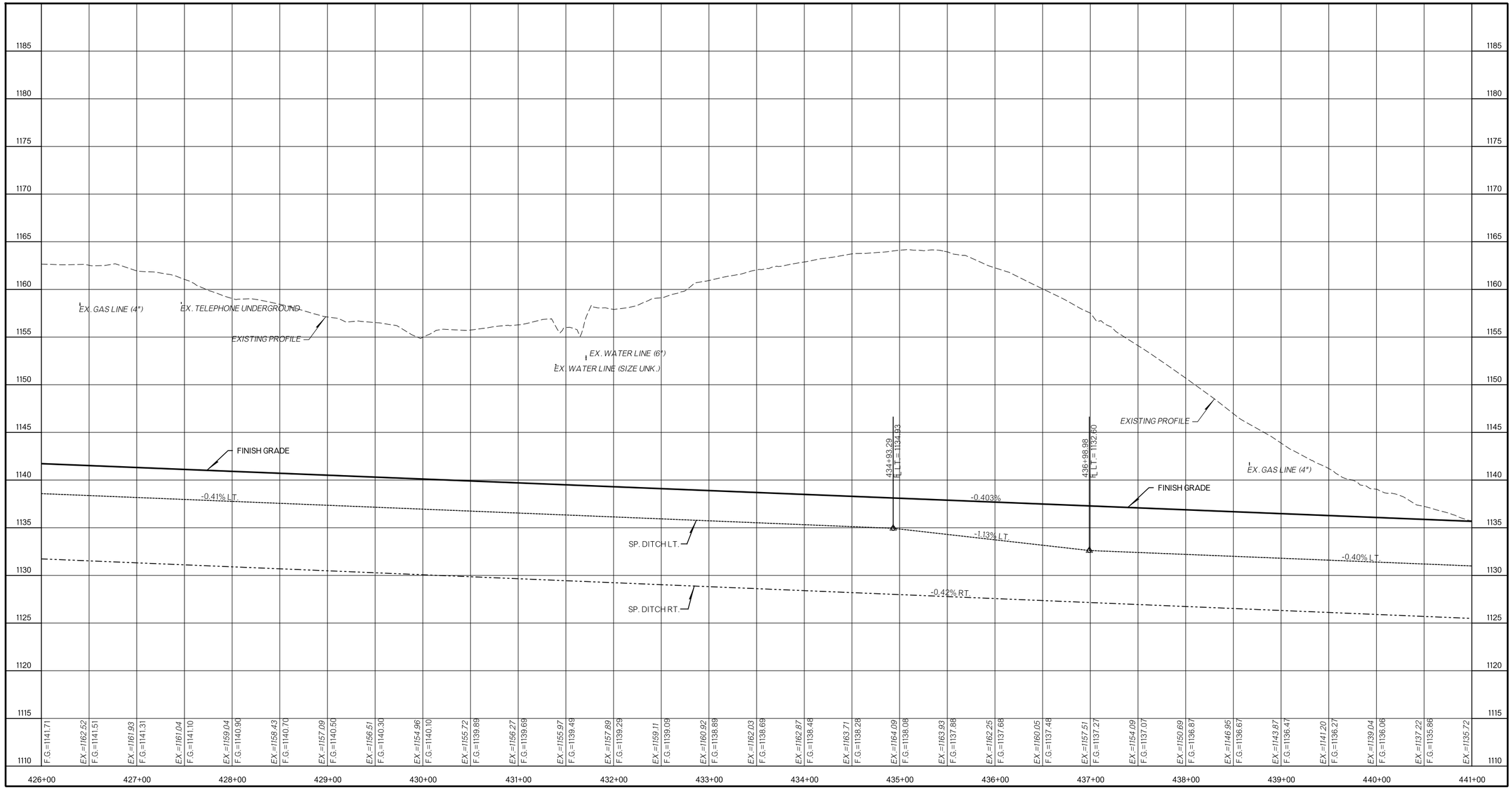
PROPOSED
R/W
AUGUST 2017



PROFILE
US-81 REALIGNMENT
426+00 TO 441+00

State Job No. 24428(04) Sheet No. R084

GRADY COUNTY US-81 REALIGNMENT

PROPOSED
R/W
AUGUST 2017

SEC. 30, T7N R7W

0 50' 100'

LIMITS OF NO ACCESS

Reliance Pipeline Co.
50' Pipeline Easement
(Obscure Description)
Rec'd. Bk. 1442, Pg. 58
Filed October 2, 1984

Grady County
10' Gas Line Easement
Rec'd. Bk. 324, Pg. 555
Filed February 5, 1931

STA. 444+77.76 ℄
4" HP GAS LINE CROSSING
(CENTERPOINT)

4" HP G LN (CENTERPOINT)

UGND G LN
(CONTINUUM ENERGY)

BARBWIRE FN (S-W)

RAL GAS VALVE

CAUTION:
GAS LINE

STA. 412+80.00 TO STA. 459+95.14
CONST. FENCE STYLE WWF

Reliance Pipeline Co.
25' Pipeline Easement
Rec'd. Bk. 1506, Pg. 15-29
Filed February 11, 1985

W.E.
1097.4

PC-STA. 449+55.47

441+00
445+00
450+00
455+00
456+00

+00 210' R/W
+00 140'

TOC/TOS
R/W
24'
10'
4'
64'

N 76°18'09.32" E
501.73'

℄ SURVEY US-81

159

3 STL BOLLARD
ROCKS
FOUNDATION
US81-4
TREES
PASTURE
PORTABLE FEEDER
CONC SLAB
+88.45
143.57' RT
8" TO 36" DECIDUOUS
BARBWIRE FN (S-W)

+00 205'
+00 155'
+00 125'
+30 155'
+00 175'

Grady County
10' Gas Line Easement
Rec'd. Bk. 324, Pg. 555
Filed February 5, 1931

STA. 412+75.00 TO STA. 457+86.43
CONST. FENCE STYLE WWF

LIMITS OF NO ACCESS

BM #40 214.40 RT. OF US-81 CRL A001
SET 3/4" I.P. (30" LONG)
STA. 442+62.04 ELEV: 1139.76

BM #234 480.86 RT. OF US-81 CRL A001
80D SPIKE IN S. BRACE OF FENCE COR. POST
STA. 444+05.54 ELEV: 1142.45

BM #41 358.03 LT. OF US-81 CRL A001
SET 3/4" I.P. (30" LONG)
STA. 448+29.10 ELEV: 1108.41

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US-81.

BM #235 732.35 RT. OF US-81 CRL A001
80D SPIKE IN POWER POLE
STA. 455+62.40 ELEV: 1105.83

PLAN
US-81 REALIGNMENT
441+00 TO 456+00

State Job No. 24428(04) Sheet No. R085

8/21/2017

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PROPOSED
R/W
AUGUST 2017

442+68.29
FL LT.= 1130.30

FINISH GRADE

SP. DITCH LT.

EXISTING PROFILE

SP. DITCH RT.

EX. GAS LINE (4")

448+00.00
FL RT.= 1122.56

(159) STA. 448+50.00
CONST. GPI TYPE 2 DES. 11A
W/48"X110' RCP & PCES RT
& 48"X108' RCP & PCES LT
TG = 1128.72 FL = 1117.16 FL RT = 1117.50 FL LT = 1116.81

-0.403%

FINISH GRADE

EXISTING PROFILE

441+00	442+00	443+00	444+00	445+00	446+00	447+00	448+00	449+00	450+00	451+00	452+00	453+00	454+00	455+00	456+00
EX.=1135.66	EX.=1134.49	EX.=1133.64	EX.=1132.58	EX.=1131.39	EX.=1129.86	EX.=1128.32	EX.=1127.10	EX.=1125.67	EX.=1125.97	EX.=1125.88	EX.=1125.62	EX.=1125.58	EX.=1123.92	EX.=1121.63	EX.=1119.02
F.G.=1135.46	F.G.=1135.26	F.G.=1135.06	F.G.=1134.85	F.G.=1134.65	F.G.=1134.45	F.G.=1134.25	F.G.=1133.85	F.G.=1133.64	F.G.=1133.44	F.G.=1133.24	F.G.=1133.04	F.G.=1132.84	F.G.=1132.64	F.G.=1132.43	F.G.=1132.23
EX.=1116.96	EX.=1116.57	EX.=1115.19	EX.=1114.50	EX.=1113.92	EX.=1113.14	EX.=1112.42	EX.=1109.53	EX.=1107.49	EX.=1104.39	EX.=1102.21	EX.=1096.64	EX.=1097.56	EX.=1094.07	EX.=1099.37	
F.G.=1132.03	F.G.=1131.83	F.G.=1131.63	F.G.=1131.43	F.G.=1131.22	F.G.=1131.02	F.G.=1130.82	F.G.=1130.62	F.G.=1130.42	F.G.=1130.22	F.G.=1130.02	F.G.=1129.81				

PROFILE
US-81 REALIGNMENT
441+00 TO 456+00

State Job No. 24428(04) Sheet No. R086

GRADY COUNTY US-81 REALIGNMENT

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8/21/2017

PROPOSED
R/W
AUGUST 2017

SEC. 30, T7N R7W

SEC. 29, T7N R7W

0 50' 100'

STA. 458+93.54 ℄ 5-WIRE O.H. CROSSING L.W.E.=1118.89 (PSCO)

STA. 458+93.54 ℄ TELEPHONE CROSSING (AT/D)

STA. 459+57.94 ℄ FIBOR OPTICS CROSSING (DOBSON)

℄ SURVEY 29TH ST

N 29TH ST
NS-262

N 00°14'26.31" W
2644.22'

OHELEC (6-W)

UGND TEL (AT/D)

UGND FO (DOBSON)

PRES. R/W

LIMITS OF NO ACCESS

STA. 412+80.00 TO STA. 459+95.14
CONST. FENCE STYLE WWF

STA. 460+69.75 TO STA. 480+42.43
CONST. FENCE STYLE WWF

STA. 412+75.00 TO STA. 457+86.43
CONST. FENCE STYLE WWF

STA. 458+50.01 TO STA. 483+22.78
CONST. FENCE STYLE WWF

CAUTION:
GAS LINE
POWER O.H.
FIBER OPTIC
TUG

4" HP G LN (CONTINUUM ENERGY)

L.W.E.=1116.96 (TEMP.=36° F)

L.W.E.=1116.69 (TEMP.=36° F)

L.W.E.=1119.18

+95.14 175'

+46.39 175'

+03.71 62.04' LT.

+86.43 200'

+30.75 200'

+00 150'

+00 170'

+70 170'

BRIDGE 'Q'

BRIDGE 'R'

℄ SURVEY US-81

US81-4

℄ RAMP AA

℄ RAMP CC

456+00

460+00

465+00

470+00

471+00

105+00

110+00

TOC/TOS

R/W

GOV'T. LOT 6

BARBWIRE FN (6-W)

ASPHALT

STATUTORY R/W

STA. 459+48.72 ℄ 4" HP GAS LINE CROSSING (CONTINUUM ENERGY)

STA. 494+92.88 ℄ 4" HP GAS LINE CROSSING (CONTINUUM ENERGY)

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US-81.

BM #43 284.38 RT. OF US-81 CRL A001
SET 3/4" I.P. (30" LONG)
STA. 465+43.47 ELEV: 1098.98

PLAN
US-81 REALIGNMENT
456+00 TO 471+00

State Job No. 24428(04) Sheet No. R087

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US-81 REALIGNMENT GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

BRIDGE 'Q' - ℄ US-81 SURVEY STA. 459+38.32
CONST. 62.93' (TYPE III), 100.73 (TYPE IV), 63.01' (TYPE III)P.C. BEAM SPANS
x 50' CLEAR ROADWAY WITH 42" F-SHAPED PARAPETS SKEWED LEFT

BRIDGE 'R' - ℄ US-81 SURVEY STA. 459+02.12
CONST. 61.93' (TYPE III), 99.21' (TYPE IV), 62.06 (TYPE III) P.C. BEAM SPANS
x 38' CLEAR ROADWAY WITH 42" F-SHAPED PARAPETS SKEWED LEFT

BEG BRIDGE STA. 457+90.52
F.G. ELEV.= 1128.77

BRIDGE 'R' LENGTH = 223'-3⅜"

END BRIDGE STA. 460+13.72
F.G. ELEV.= 1126.45

BEG BRIDGE STA. 458+24.98
F.G. ELEV.= 1128.52

BRIDGE 'Q' LENGTH = 226'-8⅛"

END BRIDGE STA. 460+51.65
F.G. ELEV.= 1125.88

(160) STA. 456+50.00
CONST. GPI TYPE 1 DES. 1
W/152 LF 18" RCP & PCES TO OUTFALL RT
TG = 1125.61
FL = 1115.38
DS FL = 1101.55

-0.403%

FINISH GRADE

PVI-STA 460+50.00
ELEV.= 1127.80

PVC-STA 457+25.00
ELEV.= 1129.11

PVT-STA 463+75.00
ELEV.= 1118.92

600' V.C.
K = 189

550' V.C.
K = 279

-2.733%

STA. 469+43.00 (161)
CONST. GPI TYPE 2 DES. 8
W/118 LF 24" RCP & PCES TO OUTFALL RT
TG = 1106.68 FL = 1103.95 DS FL = 1099.62

LOW STA 469+42.08
ELEV.= 1110.48

FINISH GRADE

0.438%

PVC-STA 464+25.00
ELEV.= 1117.55

PVI-STA 467+25.00
ELEV.= 1109.35

(161)

PVT-STA 470+25.00
ELEV.= 1110.66

EXISTING PROFILE

EX. TELEPHONE UNDERGROUND

EX. FIBEROPTIC CABLE

EX. GAS LINE (4")

EX. GAS LINE (4")

EXISTING PROFILE

	456+00	457+00	458+00	459+00	460+00	461+00	462+00	463+00	464+00	465+00	466+00	467+00	468+00	469+00	470+00	471+00
EX.	1129.61	1100.84	1129.41	1100.59	1129.21	1100.59	1129.00	1100.62	1128.70	1100.62	1128.32	1100.30	1127.85	1098.95	1127.29	1099.75
F.G.																1126.64
EX.	1099.50	1099.14	1099.16	1099.16	1099.16	1098.99	1098.98	1099.25	1099.30	1099.38	1098.91	1098.73	1098.98	1099.16	1099.27	1099.25
F.G.	1125.90	1125.08	1124.16	1123.15	1122.05	1120.86	1119.59	1118.23	1116.88	1115.65	1114.55	1113.58	1112.74	1112.03	1111.46	1111.02
EX.	1099.54	1099.47	1099.51	1099.50	1099.70											
F.G.	1110.53	1110.48	1110.57	1110.77												

PROFILE
US-81 REALIGNMENT
456+00 TO 471+00

State Job No. 24428(04) Sheet No. R088

US-81 REALIGNMENT
GRADY COUNTY

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PROPOSED
R/W
AUGUST 2017

SEC. 29, T7N R7W

SEC. 20, T7N R7W

0 50' 100'

TALL GRASS

METER BLDG

DIRT

SEPARATOR

POLE

POLE

GRAVEL

GAS VALVE

STORAGE TANK

LIMITS OF NO ACCESS

34"X 22" ELLIPTICAL CMP
fl.W=1092.54
fl.E=1092.68

OH ELEC (4-W)

SEC. LINE E-W 135

FRISCO AVE

TUG

CONCRETE

BLDG

+33.75
497.19' LT

34"X 22" ELLIPTICAL CMP
fl.W=1092.92
fl.E=1093.14

DIRT

34"X 22" ELLIPTICAL CMP
fl.W=1093.25
fl.E=1093.01

STATION R/W

CHAIN LINK SECT

STA. 481+14.06 TO STA. 484+48.85
CONST. FENCE STYLE CLF

+00
379.45'

PRES. R/W

R/W

OH ELECTRIC

+00
330'

315'

+00
325'

R/W

R/W

R/W

TOC/TOS

480+00

R/W

300'

L.W.E.=1146.85
TEMP.=41° F

STA. 460+69.75 TO STA. 480+40.91
CONST. FENCE STYLE WWF

475+00

+00
150'

R/W

R/W

TOC/TOS

CULTIVATION

+00
200'

R/W

PRES. R/W

CULTIVATION

CAUTION:
WATER LINE
TUG
POWER O.H.

2" TO 8" DECIDUOUS
(TYP. THIS AREA)

PRES. R/W

℄ RAMP AA

BRIDGE 'S'

Public Service Co. of Colo.
20' Right-of-Way Easement
Rec'd. Bk. 852, Pg. 306
Filed December 9, 1968

480+65.80

480+00

471+00

475+00

℄ SURVEY US-81

US81-4

US81-5

64'

10'

24'

4'

480+00

485+00

L.W.E.=1147.95
TEMP.=41° F

BRIDGE 'T'

CONST. IMPACT
ATTENUATOR

F- SHAPED PARAPET

℄ RAMP CC

CULTIVATION

2" TO 18" DECIDUOUS

BB=S17°08'23" W
2659.01'

SEC. LINE E-W 135

FRISCO AVE

TUG

TELEPHONE

2" TO 8" DECIDUOUS
(TYP. THIS AREA)

TOC/TOS

TOC/TOS

485+00

R/W

TOC/TOS

STA. 458+50.01 TO STA. 483+22.78
CONST. FENCE STYLE WWF

PRES. R/W

PRES. R/W

R/W

+00
230'

R/W

PRES. R/W

LIMITS OF NO ACCESS

+00
310'

R/W

L.W.E.=1151.21
TEMP.=41° F

+26.43

STA. 479+95.39 OFFSET 510.61' ℄
34"x22"x30.05' ELLIPTICAL CMP
fl. ELEV. W=1092.14
fl. ELEV. E=1092.68

STA. 480+38.19 OFFSET 428.62' ℄
34"x22"x29.78' ELLIPTICAL CMP
fl. ELEV. W=1092.92
fl. ELEV. E=1093.14

STA. 480+62.58 OFFSET 380.38' LT ℄
34"x22"x48.13' ELLIPTICAL CMP
fl. ELEV. W=1093.25
fl. ELEV. E=1093.31

STA. 481+66.41 ℄
4-WIRE-O.H. CROSSING
L.W.E.=1093.00
(PSCO)

STA. 483+18.51 ℄
TELEPHONE CROSSING
(ATT/D)

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US-81.

BM #44 307.35 RT. OF US-81 CRL A001
SET 3/4" I.P. (30" LONG)
STA. 473+41.96 ELEV: 1098.80

BM #45 283.55 RT. OF US-81 CRL A001
SET 3/4" I.P. (30" LONG) - 1' UNDERGROUND
STA. 480+83.78 ELEV: 1093.72

PLAN
US-81 REALIGNMENT
471+00 TO 485+00

State Job No. 24428(04) Sheet No. R089

US-81 REALIGNMENT

GRADY COUNTY

8/21/2017

PROPOSED
R/W
AUGUST 2017

HYDRAULIC DATA

DRAINAGE AREA (sq. mi.)			
TOTAL			37.54
CONTROLLED			00.00
EFFECTIVE			37.54
FREQ.	Q(cfs)	V(fps)	CHW(ft)
2	1510	4.62	1095.36
5	3210	4.76	1096.86
10	4890	5.05	1097.80
25	7700	5.76	1098.89
50	10100	6.34	1099.64
100	12500	6.87	1100.30
	QOT (cfs)	VOT (fps)	CHWOT (ft)
483	19690	8.78	1101.66
	CONTRACTION SCOUR(ft)	PIER SCOUR (ft)	TOTAL SCOUR (ft)
100	3.11	8.12	11.23

BRIDGE 'S' - ℄ US-81 SURVEY STA. 478+70.75
CONST. 101.79'-100.95', 100.95'-100.95', 100.95'-101.79' CONTINUOUS
PLATE GIRDER SPANS x 38' CLEAR ROADWAY WITH
42" F-SHAPED PARAPETS

BRIDGE 'T' - ℄ US-81 SURVEY STA. 478+70.75
CONST. 99.93'-99.06', 99.06-99.06', 99.06-99.93' CONTINUOUS
PLATE GIRDER SPANS x 38' CLEAR ROADWAY WITH
42" F-SHAPED PARAPETS

BEG BRIDGE STA. 475+38.33
F.G. ELEV.= 1112.91

BEG BRIDGE STA. 475+72.70
F.G. ELEV.= 1113.07

BRIDGE 'S' LENGTH = 607'-4½"

BRIDGE 'T' LENGTH = 596'-1¼"

END BRIDGE STA. 481+45.70
F.G. ELEV.= 1115.81

END BRIDGE STA. 481+68.80
F.G. ELEV.= 1116.05

410' V.C.
K = 209

PVC-STA.480+45.00
ELEV.= 1115.18

PVC-STA.484+75.00
ELEV.= 1121.44

PVT-STA.484+55.00
ELEV.= 1120.96

PVI-STA.482+50.00
ELEV.= 1116.03

0.438%

2.405%

FINISH GRADE

EXISTING PROFILE

EXISTING PROFILE

EX. TELEPHONE UNDERGROUND

EX. WATER LINE (SIZE UNK.)

471+00	472+00	473+00	474+00	475+00	476+00	477+00	478+00	479+00	480+00	481+00	482+00	483+00	484+00	485+00
F.G.=1110.99	EX.=1099.44 F.G.=1111.21	EX.=1099.50 F.G.=1111.43	EX.=1099.57 F.G.=1111.65	EX.=1099.63 F.G.=1111.87	EX.=1099.86 F.G.=1112.09	EX.=1099.76 F.G.=1112.31	EX.=1099.72 F.G.=1112.53	EX.=1098.79 F.G.=1112.75	EX.=1096.89 F.G.=1112.97	EX.=1094.61 F.G.=1113.18	EX.=1093.22 F.G.=1113.40	EX.=1092.97 F.G.=1113.62	EX.=1093.11 F.G.=1113.84	EX.=1087.30 F.G.=1114.06	EX.=1092.60 F.G.=1114.28	EX.=1093.72 F.G.=1114.50	EX.=1094.30 F.G.=1114.72	EX.=1094.97 F.G.=1114.94	EX.=1095.22 F.G.=1115.16	EX.=1095.21 F.G.=1115.45	EX.=1095.65 F.G.=1115.86	EX.=1095.17 F.G.=1116.39	EX.=1095.63 F.G.=1117.04	EX.=1095.59 F.G.=1117.81	EX.=1096.03 F.G.=1118.70	EX.=1096.49 F.G.=1119.71	EX.=1097.30 F.G.=1120.84	EX.=1098.70

PROFILE
US-81 REALIGNMENT
471+00 TO 485+00

State Job No. 24428(04) Sheet No. R090

GRADY COUNTY US-81 REALIGNMENT

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PROPOSED
R/W
AUGUST 2017

0 50' 100'

SEC. 20, T7N R7W

LIMITS OF NO ACCESS

485+00 490+00 495+00 500+00

US-62

℄ SURVEY US-62

℄ SURVEY US-81

US81-5

℄ RAMP BB

℄ RAMP DD

BRIDGE 'W'

BRIDGE 'X'

PI STA 405+48.80

STA. 401+25.20 OFFSET 0.46 LT ℄ GPI 3.8'x8.3' RDY.
TOP=1100.38 (GROWING TREE FND IN INLET)
24"X75.55' RCP RT
fl. ELEV. N=1096.70 & fl. ELEV. S=1096.29
36"X75.34' RCP LT
fl. ELEV. N=1097.32 & fl. ELEV. S=1096.70

SS MH
TOP=1101.82
2" PVC
fl S=1098.56
6" PVC (LOOKS ABANDONED)
fl NE=1092.45
6" RCP
fl W=1091.93
12" RCP
fl NW=1091.92
fl S=1091.90

SS CO
TOP=1100.37

POST INDICATOR VALVE

CAUTION:
PUG

CAUTION:
SANITARY SEWER LINE
FIBER OPTIC
WATER LINE

CAUTION:
GAS LINE

STA. 404+31.81 ℄ L.W.E.=1124.21 (AEP PSCO) WIRE-O.H. CROSSING

STA. 487+22.55 ℄ POWER UGND CROSSING

STA. 490+02.45 ℄ WATER LINE CROSSING (WL ℄ CHICKASHA)

STA. 490+02.50 ℄ FIBER OPTICS CROSSING (DOBSON)

STA. 490+19.41 ℄ FIBER OPTICS CROSSING (ATT/DOBSON)

STA. 490+25.16 ℄ 12"X432.80' RDY. RCP SAN. SEWER ℄ 287.60' RT. & 145.43' LT. STA. 490+39.42 RT. & fl. ELEV. E=1090.60 L.T. fl. ELEV. W=1090.41

STA. 494+24.00 ℄ GAS LINE CROSSING (℄ INTERPOINT)

STA. 409+70.68
TOP=1100.63
36"X75.01' RCP RT
fl. ELEV. N=1096.

BM #237 12.28 LT. OF US-81 CRL A001
ODOT STANDARD BRASS MANUMENT "G-26-399"
STA. 488+32.41 ELEV: 1103.30

BM #48 236.05 RT. OF US-81 CRL A001
SET 3/4" I.P. (30" LONG)
STA. 496+14.08 ELEV: 1099.58

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US-81.

PLAN
US-81 REALIGNMENT
485+00 TO 500+00

State Job No. 24428(04) Sheet No. R091

PROPOSED
R/W
AUGUST 2017

BEG. BRIDGE
STA. 486+68.37
F.G. ELEV.= 1125.38

BEG. BRIDGE
STA. 486+57.31
F.G. ELEV.= 1125.19

BRIDGE 'W' LENGTH = 324'-5¼"

BRIDGE 'X' LENGTH = 323'-0"

END BRIDGE
STA. 489+92.81
F.G. ELEV.= 1126.79

END BRIDGE
STA. 489+80.31
F.G. ELEV.= 1126.73

PVI-STA.489+25.00
ELEV.= 1132.26

PVT-STA.493+75.00
ELEV.= 1127.67

PVC-STA.498+00.00
ELEV.= 1123.33

LOW STA.499+92.02
ELEV.= 1122.35

HI STA.491+06.84
ELEV.= 1129.04

2.498%

-1.021%

500' V.C.
K = 188

900' V.C.
K = 263

FINISH GRADE

STA. 500+00.00 (164)
CONST. GP1 TYPE 2 DES. 8
W/144 LF 18" RCP & PCES TO
OUTFALL RT
TG = 1118.44 FL = 1110.71
DS FL = 1097.82

(164)

BRIDGE "W" - ℄ US-81 SURVEY STA. 488+30.59
CONST. 61.90' (TYPE III), 2-100.22' (TYPE IV), 62.10' (TYPE III)
P.C. BEAM SPANS X 38 CLR. RDY
W/ F-SHAPED PARAPET SKEWED LEFT FORWARD

BRIDGE "X" - ℄ US-81 STA. 488+18.81
CONST. 61.63' (TYPE III), 2-99.78' (TYPE IV), 61.82' (TYPE III)
P.C. BEAM SPANS X 38 CLR. RDY
W/ F-SHAPED PARAPET SKEWED LEFT FORWARD

EXISTING PROFILE

EX. POWER UNDERGROUND

EX. FIBEROPTIC CABLE

EX. WATER LINE (SIZE UNK.)

EX. FIBEROPTIC CABLE

EX. SAN. SEWER (12")

EX. GAS LINE (SIZE UNK.)

EXISTING PROFILE

| F.G.=1122.03 | EX.=1099.86 | F.G.=1123.14 | EX.=1100.21 | F.G.=1124.15 | EX.=1100.37 | F.G.=1125.07 | EX.=1100.02 | F.G.=1125.89 | EX.=1099.38 | F.G.=1126.62 | EX.=1102.85 | F.G.=1127.25 | EX.=1102.93 | F.G.=1127.78 | EX.=1102.12 | F.G.=1128.23 | EX.=1099.68 | F.G.=1128.57 | EX.=1099.53 | F.G.=1128.82 | EX.=1099.72 | F.G.=1128.98 | EX.=1099.43 | F.G.=1129.04 | EX.=1099.34 | F.G.=1129.00 | EX.=1099.27 | F.G.=1128.88 | EX.=1098.81 | F.G.=1128.65 | EX.=1098.89 | F.G.=1128.33 | EX.=1098.76 | F.G.=1127.92 | EX.=1098.57 | F.G.=1127.42 | EX.=1098.52 | F.G.=1126.91 | EX.=1098.24 | F.G.=1126.40 | EX.=1098.23 | F.G.=1125.89 | EX.=1097.95 | F.G.=1125.38 | EX.=1098.07 | F.G.=1124.87 | EX.=1097.63 | F.G.=1124.35 | EX.=1097.55 | F.G.=1123.84 | EX.=1097.43 | F.G.=1123.33 | EX.=1097.00 | F.G.=1122.89 | EX.=1096.98 | F.G.=1122.58 | EX.=1096.46 | F.G.=1122.40 | EX.=1096.69 |
|---|---|---

PROPOSED
R/W
AUGUST 2017

SEC. 20, T7N R7W

0 50' 100'

STA. 501+97.70 ℄ GAS LINE CROSSING (KEPCO)

STA. 507+84.12 OFFSET 40.66 LT.
℄ 49"X32"X81.00" CMP ELLIPTICAL PIPE S.D.
℄ ELEV. W=1091.07
℄ ELEV. E=1091.101

STA. 507+94.55 ℄ TELEPHONE CROSSING (ATT/D)

STA. 508+04.16 ℄ FIBER OPTICS CROSSING (ATT/D)

State of Oklahoma
13' Right-of-Way Easement
Rec'd. Bk. 334, Pg. 248
Filed December 5, 1936

STA. 508+45.16 ℄ WATER LINE CROSSING (CHICKASHA)

STA. 509+45.24 OFFSET 38.23 LT.
℄ 37"X23"X72.70' CMP. ARCH PIPE
℄ ELEV. W=1092.09
℄ ELEV. E=1092.11

STA. 511+37.66 ℄ 5-WIRE-O.H. CROSSING
L.W.E.=1155.31
(AEP PSCO)

STA. 512+66.31 OFFSET 42.71 LT.
℄ 37"X22"X72.96' CMP. ARCH PIPE S.D.
℄ ELEV. W=1092.96
℄ ELEV. E=1093.08

City of Chickasha
10' Waterline Easement
Rec'd. Bk. 751, Pg. 581
Filed May 8, 1963

STA. 107+39.42 ℄ 5-WIRE-O.H. CROSSING
L.W.E.=1153.27
(AEP PSCO)

State of Oklahoma
120' Right-of-Way Easement
Rec'd. Bk. 187, Pg. 601
Filed September 5, 1929

LIMITS OF NO ACCESS

BLDG
FH
+44.91
294.32' LT
PIV
IG
TUG
7' CHAINLINK SECURITY FN
UGND TEL (ATT/D)
PRES. R/W
GVMK
UGND G LN (KEPCO)
TOC/TOS
GRASS
TMK
FO
℄ SURVEY OLD US-62
OLD US-62
℄ SURVEY UPRR
1/4 SEC LINE
UNION PACIFIC RR
UPRR PRES. R/W
PRES. R/W
UPRR PRES. R/W
2648.44'
N 89°56'13.40" W
EW-134.5
OHELEC (2 W)
100'
33'
50'
50'
505+00
510+00
515+00
110+00
110+00
115+00
115+00
515+00.00
CAUTION:
TUG
FIBER OPTIC
WATERLINE
CAUTION:
POWER O.H.
MTL END SECT
℄ =1091.10
MTL END SECT
℄ =1092.09
MTL END SECT
℄ =1092.96
R/R
REFLECTOR POST
CMP ARCH PIPE
(37"X23")
CMP ARCH PIPE
(37"X23")
(PIPE ENDS CRUSHED AND SILTED IN)
MTL END SECT
℄ =1092.11
MTL END SECT
℄ =1093.08
L.W.E.=1155.15
TEMP.=57° F
L.W.E.=1164.22
TEMP.=37° F
L.W.E.=1164.18
TEMP.=57° F
L.W.E.=1144.43
(AEP PSCO)
ASPHALT
36'
10'
4'
64'
24'
164
172
173
R/R SIGN
℄ SURVEY US-81
US81-5
BRIDGE 'Y'
BRIDGE 'Z'
CRL US-81 CROSSOVER
2400.00'
S 77°49'39.53" E
324'
PC-STA. 511+49.73
US-81 CROSSOVER
=STA. 511+49.73 US-81
56 RT
TOC/TOS
GRAVEL
DIRT
CONC
RUINS
BILLBOARD
RETAINING WALL
FLAG POLE
SIGN
SERVICE LINE
SIGN
TANK
PROPANE TANK
BOLLARDS
+65.12
239.08' RT
+94.03
334.94' RT
2644.25'
N 00°03'41.97" W
2643.94'
N 00°03'41.97" W
NS-282.5
1/4 SEC LINE
PRES. R/W
City of Chickasha
30' Easement
Rec'd. Bk. 745, Pg. 37
Filed January 4, 1963
Public Service Co. of Okla.
100' Right-of-Way Easement
Rec'd. Bk. 814, Pg. 173
Filed April 22, 1966
No ownership info found for this area
STA. 116+21.52 ℄ 3-WIRE-O.H. CROSSING
L.W.E.=1122.58
(AEP PSCO)
STA. 116+52.18 ℄ 4-WIRE-O.H. CROSSING

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US-81.

BM #49 227.46 RT. OF US-81 CRL A001
SET 3/4" I.P. (30" LONG)
STA. 503+82.60 ELEV: 1095.87

BM #50 231.34 RT. OF US-81 CRL A001
SET 3/4" I.P. (30" LONG)
STA. 512+02.76 ELEV: 1092.88

PLAN
US-81 REALIGNMENT
500+00 TO 515+00

State Job No. 24428(04) Sheet No. R093

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GRADY COUNTY US-81 REALIGNMENT

PROPOSED
R/W
AUGUST 2017

BEG. BRIDGE STA. 507+00.68
F.G. ELEV.= 1130.40

BRIDGE 'Y' LENGTH = 347'-5⅝"

END BRIDGE STA. 510+48.15
F.G. ELEV.= 1130.50

BEG. BRIDGE STA. 507+02.07
F.G. ELEV.= 1130.42

BRIDGE 'Z' LENGTH = 345'-11 1/16"

END BRIDGE STA. 510+47.99
F.G. ELEV.= 1130.50

PVI-STA.509+50.00
ELEV.= 1135.52

PVC-STA.504+75.00
ELEV.= 1127.74

500' V.C.
K = 188

(164) STA. 500+00.00
CONST. GPI TYPE 2 DES. 8
W/144 LF 18" RCP & PCES TO
OUTFALL RT
TG = 1118.44 FL = 1110.7
DS FL = 1097.82

1.637%

1.637%

FINISH GRADE

PVI-STA.500+50.00
ELEV.= 1120.78

PVT-STA.503+00.00
ELEV.= 1124.88

HI STA.508+81.00
ELEV.= 1131.06

950' V.C.
K = 248

PVT-STA.514+25.00
ELEV.= 1125.10

FINISH GRADE

CROSSOVER
FINISH GRADE

-2.193%

BRIDGE "Y" ℄ SURVEY US-81 STA. 508+74.42
CONST. 81.03'-185.42'-81.02' ℄ GIRDER SPANS X 50 CLR. RDY
W/ F-SHAPED PARAPET

BRIDGE "Z" - ℄ SURVEY US-81 STA. 508+75.03
CONST. 80.67'-184.69'-80.65' ℄ GIRDER SPANS X 50 CLR. RDY
W/ F-SHAPED PARAPET

EXISTING PROFILE

EX. GAS LINE (SIZE UNK.)

EX. FIBEROPTIC CABLE

EX. WATER LINE (SIZE UNK.)

EX. TELEPHONE UNDERGROUND

EX. 49"X32" ELLIP. PIPE

EX. 37"X23" ARCH PIPE

EXISTING PROFILE

EX. 37"X23" ARCH PIPE

(172) STA. 507+72.70
CONST. 51"x31"x198' RCPA
W/PCES'S 109' LT & 89' RT
FL LT = 1092.50 FL RT = 1092.00

(173) STA. 509+45.08
CONST. 36"x22"x198' RCPA
W/PCES'S 109' LT & 89' RT
FL LT = 1093.25 FL RT = 1092.75

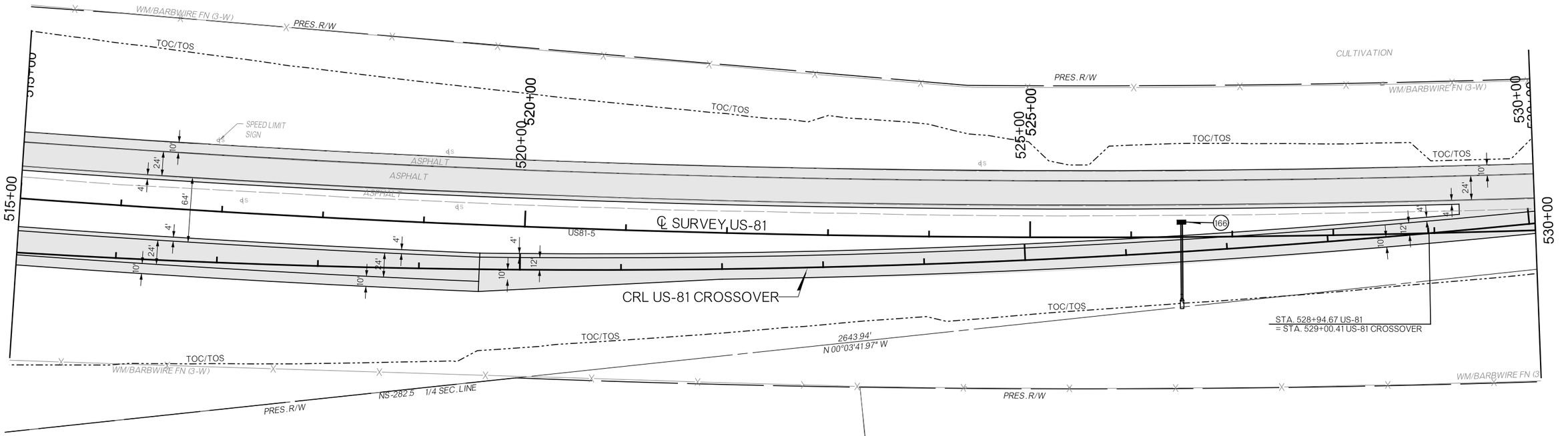
| | | |

8/21/2017

PROPOSED
R/W
AUGUST 2017

0 50' 100'

SEC. 20, T7N R7W



BM #51 230.00 RT. OF US-81 CRL A001
SET 3/4" I.P. (30" LONG)
STA. 519+62.64 ELEV: 1093.46

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US-81.

BM #52 209.80 RT. OF US-81 CRL A001
SET 3/4" I.P. (30" LONG)
STA. 527+58.98 ELEV: 1093.26

PLAN
US-81 REALIGNMENT
515+00 TO 530+00

State Job No. 24428(04) Sheet No. R095

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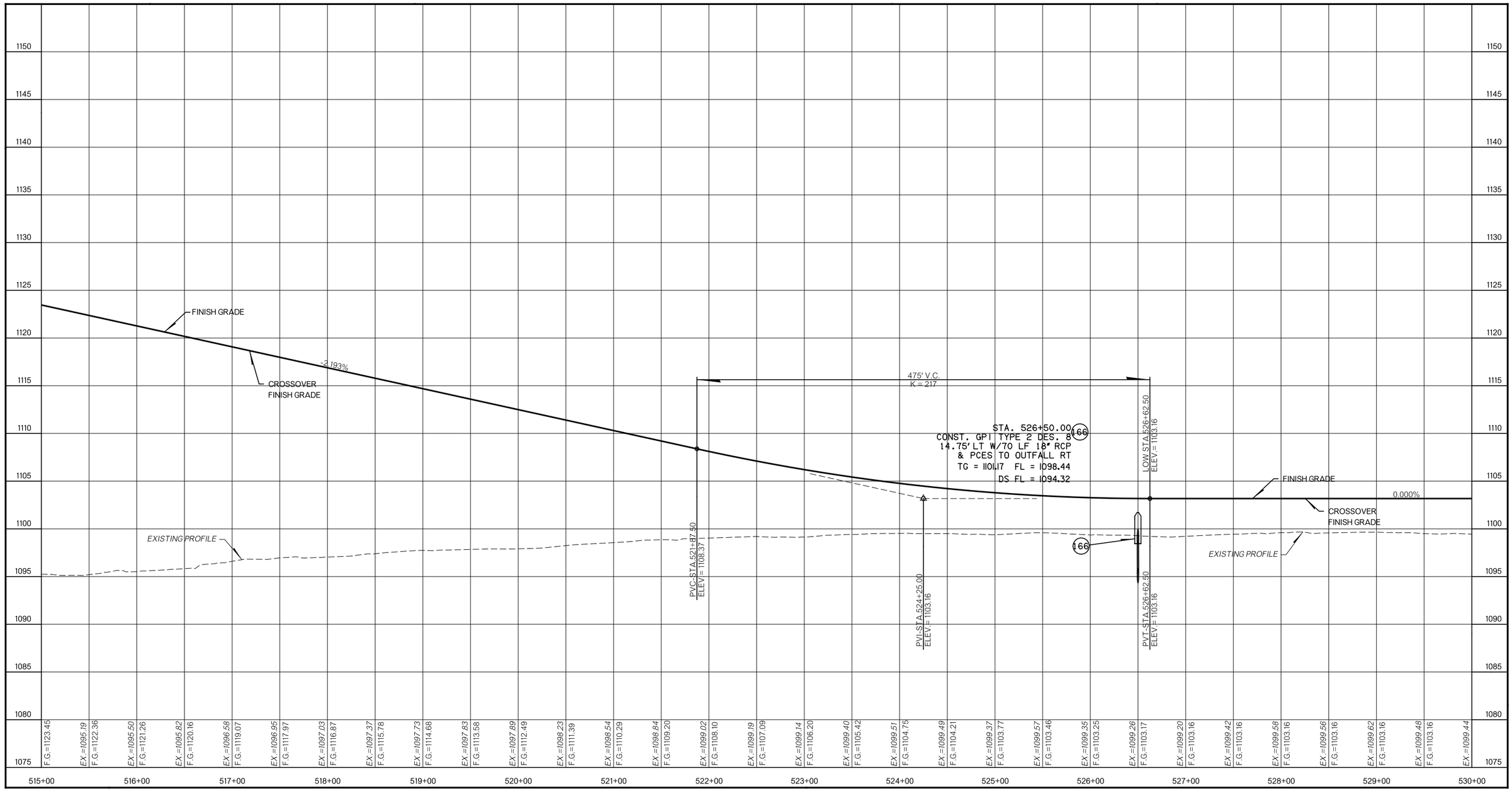
US-81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017



PROFILE
US-81 REALIGNMENT
515+00 TO 530+00

State Job No. 24428(04) Sheet No. R096

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US-81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

0 50' 100'

SEC. 20, T7N R7W

SEC. 17, T7N R7W

STA. 536+02.40 ℄ GAS LINE CROSSING (TECHNICAL ENRGY SERVICES)

STA. 536+27.42 ℄ 2-4'x3'x103.20' RDY. RCB S.D. "X"ING ℄ 11.73' RT. & 91.29' LT. ℄ ELEV. E=1093.06 RT. & W=1092.90 LT. ℄ ELEV. E=1092.88 RT. & W=1093.10 LT

STATUTORY R/W

REDING RD.

STATUTORY R/W

STA. 536+60.56 ℄ 3-WIRE-O.H. CROSSING
L.W.E.=1130.97
(AEP PSCO)

STA. 536+62.06 ℄ 6" WATER LINE CROSSING
(RWD 6)

STA. 536+54.05 OFFSET 119.03' LT.
℄ 37"X22"X45.80' RDY.
CMP ARCH PIPE S.D.
℄ ELEV. N=1093.51
℄ ELEV. S=1093.35

STA. 537+30.12 ℄ GAS LINE CROSSING (NOT MARKED)

Cityies Service Gas Co.
50' Easement
Rec'd. Bk. 1181, Pg. 279
Filed February 26, 1980

S 89°58'29.80" W
2648.75'

6" WL (RWD 6)

L.W.E.=1134.37
TEMP.=57° F

CMP ARCH PIPE
(37"X22")
MTL END SECT
℄ N=11093.51

8" DECIDUOUS

CULTIVATION

8" TO 14" DECIDUOUS

8" DECIDUOUS

WM/BARBWIRE FN (3-W)

PRES. R/W

530+00

535+00

540+00

PT-STA. 530+72.05

PC-STA. 531+85.20

PT-STA. 540+17.63

POE-STA. 543+04.00

TOC/TOS

MTL END SECT
℄ N=1093.51

REFLECTOR POST

STA. 536+02.46 CRL US-81
STA. 535+96.81 US-81

10'

24'

ASPHALT

CRL CROSSOVER US-81

113.14'
N 0°03'50.48" W

℄ SURVEY US-81

US81-5

NS 282.5

1/4 SEC. LINE

2643.94'
N 00°03'41.97" W

4'X3' RCB
(6" CHAMFERS AT TOP)
℄ E=1092.90
℄ W=1093.06

HDWL
CONC APRON

REFLECTOR POSTS

4'X3' RCB
(6" CHAMFERS AT TOP)
℄ E=1092.88
℄ W=1093.10

L.W.E.=1130.73
TEMP.=57° F

2642.87'
N 00°09'05.73" E

282.37'
N 0°09'05.73" E

CHICKASHA CITY LIMITS

UGND G.L.N.
(TECHNICAL ENERGY SERVICES)

SEC. LINE

EW-134

OHELEC (3-W) (AEP PSCO)

UGND G.L.S.
(NOT MARKED)

L.W.E.=1133.46
TEMP.=57° F

CAUTION:
GAS LINE
WATER LINE
POWER O.H.

CULTIVATION

STA. 535+96.81 ℄ SURVEY US-81
=STA. 536+02.46 CRL US-81
CROSSOVER
END CONST. US-81

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US-81.

BM #53 210.93 RT. OF US-81 CRL A001
SET 3/4" I.P. (30" LONG)
STA. 535+55.51 ELEV: 1093.11

BM #54 221.48 RT. OF US-81 CRL A001
SET 3/4" I.P. (30" LONG)
STA. 542+99.05 ELEV: 1095.19

PLAN
US-81 REALIGNMENT
530+00 TO 543+00

State Job No. 24428(04) Sheet No. R097

8/21/2017

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US-81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

1155
1150
1145
1140
1135
1130
1125
1120
1115
1110
1105
1100
1095
1090
1085
1080
1075

PVI STA 535+96.81
ELEV.= 1103.16

FINISH GRADE
0.000%
CROSSOVER
FINISH GRADE
EXISTING PROFILE
EX. WATER LINE (6")
EX. GAS LINE (SIZE UNK.)
EX. GAS LINE (SIZE UNK.)
EX. 4'X3' RCB
EX. 4'X3' RCB

530+00	531+00	532+00	533+00	534+00	535+00	536+00	537+00	538+00	539+00	540+00	541+00	542+00	543+00	544+00	545+00
F.G.=1103.16	EX.=1099.34 F.G.=1103.16	EX.=1099.30 F.G.=1103.16	EX.=1099.28 F.G.=1103.16	EX.=1099.25 F.G.=1103.16	EX.=1099.30 F.G.=1103.16	EX.=1099.39 F.G.=1103.16	EX.=1099.24 F.G.=1103.16	EX.=1099.18 F.G.=1103.16	EX.=1099.27 F.G.=1103.16	EX.=1099.28 F.G.=1103.16	EX.=1099.27 F.G.=1103.16	EX.=1099.07 F.G.=1103.16	EX.=1102.08 F.G.=1103.16	EX.=1100.98 F.G.=1103.16	EX.=1099.35 F.G.=1103.16	EX.=1099.52 F.G.=1103.16	EX.=1099.46 F.G.=1103.16	EX.=1099.43 F.G.=1103.16	EX.=1099.70 F.G.=1103.16	EX.=1099.64 F.G.=1103.16	EX.=1099.78 F.G.=1103.16	EX.=1100.21 F.G.=1103.16	EX.=1100.23 F.G.=1103.16	EX.=1100.24 F.G.=1103.16	EX.=1100.23 F.G.=1103.16	EX.=1100.05 F.G.=1103.16

PROFILE
US-81 REALIGNMENT
530+00 TO 543+00

State Job No. 24428(04) Sheet No. R098

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GRADY COUNTY US-81 REALIGNMENT

SEC. 20 T6N R7W

SEC. 21 T6N R7W

PROPOSED R/W
AUGUST 2017

0 50' 100'

LIMITS OF ACCESS TO FRONTAGE RD. ONLY

NO LIMITS OF ACCESS

STA. 27+77 CONST. 12' ASPH. DRIVE LT.

TEMP. R/W (DRIVE)

METAL BLDG.

30+00

35+00

CRL FRONTAGE RD.

PRES R/W

R/W

BRIDGE "A"

BRIDGE "B"

STA. 114+04 TO 132+19
CONST. 1,800 LF.
TYPE WWF FENCE

STA. 114+15 TO 119+10
CONST. 501 L.F.
TYPE WWF FENCE

STA. 113+84 TO 114+15
CONST. 64 L.F.
TYPE WWF FENCE

STA. 100+75 TO 113+38.27
CONST. 1,360 L.F.
TYPE WWF FENCE

STA. 100+50 TO 113+00
CONST. 1255 L.F. RWD 7
TYPE WWF FENCE

CAUTION
OH POWER
WATERLINE
TUG

CAUTION
WATERLINE
FIBER
TUG

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US 81.

NINNEKAH CITY LIMITS

CRL EW 140.5

℄ SURVEY EW 140.5 (CR 1405)

EW 140.5

2644.57'
N89°55'12.12"E

20' U/E

10' U/E

TOC/TOS

RWD 7

AT&T

BM#211- "[]" ON N.E. WINGWALL
W. SIDE DRAIN
℄ SURVEY U.S. 81
STA. 114+06.93, 68.77' LT.
ELEV. =1200.651

53 STA. 30+60 CRL EW 140.5, ON ℄
CONST. 43"X26"X76' LG. RCPA
37' LG. LT. & 39' LG. RT. W/ CETS
FL LT.=1203.60, FL RT.=1202.83

54 STA. 31+50 CRL EW 140.5, ON ℄
CONST. 28"X18"X70' LG. RCPA
34' LG. LT. & 36' LG. RT. W/ CETS
FL LT.=1200.93, FL RT.=1200.40

55 STA. 34+95 CRL EW 140.5, ON ℄
CONST. 28"X18"X64' LG. RCPA
31' LG. LT. & 33' LG. RT. W/ CETS
FL LT.=1191.47, FL RT.=1190.81

200' V.C.
K=217

PVC 32+00.02
EL=1203.52

PVI 33+00.02
EL=1200.00

PVT 34+00.02
EL=1197.40

EXIST. PROFILE

FINISH GRADE

SP. DITCH LT.

SP. DITCH RT.

-4.97%
-10.44%
-3.52%
-2.88%
0.29%
0.97%
-2.60%
-5.72%
-6.05%
-2.59%
-3.49%
4.32%
2.00%
-1.47%
1.75%

STA. 29+00.00 - BEGIN INCIDENTAL CONSTRUCTION

STA. 30+15.00 - END INCIDENTAL, BEGIN CONSTRUCTION

STA. 36+05.00 - END CONSTRUCTION

F.G.=1208.80
F.G.=1207.04
F.G.=1205.28
F.G.=1203.52
F.G.=1201.82
F.G.=1200.23
F.G.=1198.76
F.G.=1197.40
F.G.=1196.11
F.G.=1194.81

1225 1220 1215 1210 1205 1200 1195 1190 1185 1180

26+00 27+00 28+00 29+00 30+00 31+00 32+00 33+00 34+00 35+00 36+00 37+00 38+00 39+00 40+00

EW 140.5 (CR 1405)

UTILITY OWNERS

MEDICINE PARK TELEPHONE CO.	(580) 529-2700
CHICKASAW TELEPHONE CO.	(580) 618-5455
SOUTHWESTERN BELL	(800) 522-6543
DOBSON TECHNOLOGIES	(800) 778-9140
AT&T	(800) 778-9140
INTELLEQ COMMUNICATIONS	(800) 335-4343
PUBLIC SERVICE CO. OF OKLAHOMA	(888) 216-3523
OEC	(405) 321-2024
SUNOCO LOGISTICS	(800) 753-5531
UNIT PETROLEUM	(918) 493-7700
CONTINUUM ENERGY	(877) 587-0026
DCP MIDSTREAM	(800) 435-1679
ENABLE	(800) 522-8048
KEPCO OPERATING INC.	(855) 421-2088
TECHNICAL ENERGY SERVICES	(405) 329-8196
CITY OF CHICKASHA PUBLIC WORKS	(405) 222-6080
RURAL WATER DISTRICT #6	(405) 459-6626
RURAL WATER DISTRICT #7	(405) 779-6224
CENTERPOINT ENERGY	(866) 275-5265

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. R099

PROPOSED
R/W
AUGUST 2017

2655.60'
N00°18'54.24"E

NS 282.5

NOTE:
ALL PRESENT AND PROPOSED R/W DIMENSIONS SHOWN ARE FROM ℄ SURVEY EW 140 (QUAIL RD.)

25+00

28+00

CAUTION -
OH POWER

GRAVEL

℄

STA. 24+50 TO 29+71
CONST. 554 L.F.
TYPE SWF (6WB) FENCE

24+50
16.5'

R/W

TOC/TOS

PRES. R/W

20' U/E

℄ SURVEY EW 140 (QUAIL RD.)
N89°58'44.43"E

25'

PRES. R/W

23+25
16.5'

GRADE TO DRAIN

R/W

60'

TOC/TOS

STA. 23+25 TO 29+81
CONST. 669 L.F.
TYPE SWF (5WB) FENCE

+25
85'

+25
108'

TEMP R/W
(DRIVE)

STA. 26+68
CONST. 12' ASPH. DR.
RT. W/22"X13" RCPA SD

+25
205'

+25
205'

0 50 100'

UTILITY OWNERS

MEDICINE PARK TELEPHONE CO.	(580) 529-2700
CHICKASAW TELEPHONE CO.	(580) 618-5455
SOUTHWESTERN BELL	(800) 522-6543
DOBSON TECHNOLOGIES	(800) 778-9140
AT&T	(800) 778-9140
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PUBLIC SERVICE CO. OF OKLAHOMA	(888) 216-3523
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CONTINUUM ENERGY	(877) 587-0026
DCP MIDSTREAM	(800) 435-1679
ENABLE	(800) 522-8048
KEPCO OPERATING INC.	(855) 421-2088
TECHNICAL ENERGY SERVICES	(405) 329-8196
CITY OF CHICKASHA PUBLIC WORKS	(405) 222-6080
RURAL WATER DISTRICT #6	(405) 459-6626
RURAL WATER DISTRICT #7	(405) 779-6224
CENTERPOINT ENERGY	(866) 275-5265

FINISH GRADE

1.68%

1.30%

0.30%

SP. DITCH RT.

PVC 27+25
EL=1199.94

600' V.C.
K=128

PVT 33+25
EL=1196.00

STA. 23+60 - BEGIN INCIDENTAL CONSTRUCTION

STA. 26+75.00 - BEGIN CONSTRUCTION
END INCIDENTAL CONSTRUCTION

EX.=1197.94

EX.=1198.70

F.G.=1199.52
EX.=1199.61

F.G.=1200.34
EX.=1200.43

F.G.=1200.99
EX.=1200.95

1205 1200 1195 1190 1185 1180 1175 1170 1165 1160

13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00

QUAIL ROAD

State Job No. 24428(04) Sheet No. R100

US 81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

STA. 29+55
CONST. 12' ASPH. DR.
LT. AS DIKE
+65.06
146'
+45.08
146'
20' U/E
STA. 24+50 TO 29+92
CONST. 554 L.F.
TYPE SWF (6WB) FENCE
TEMP. R/W
(DRIVE)
R/W
+45.01
120'
+65
124'
+70.78
125'
LIMITS OF NO ACCESS
+59
+62.65
125'
PRES. R/W
CAUTION -
WATERLINE
OH POWER
TOC/TOS
(6-BW)
(4-BW)
125'
℄ RAMP B
℄ RAMP A
80
81
8
354+00
40+00
℄ SURVEY US 81
CAUTION -
TUG
N00°12'06"E
P #27=96.00
28+00
43+00
℄ SURVEY EW 140 (QUAIL RD.)
2653.47'
S 89°50'44.43" W
N89°50'44.43"E
BM#12
ASPHALT
AT&T
AEP(2-WP)
20' U/E
24'
4'
61
TOC/TOS
STA. 28+00 TO 29+81
CONST. 669 L.F.
TYPE SWF (6WB) FENCE
+00
125'
R/W
+68.95
125'
PRES. R/W
WWF W/3-BW
STA. 31+40
CONST. 16' ASPH. DR.
RT. W/ 22"X13" RCPA SD
+52.07
125'
+75
LIMITS OF NO ACCESS
TORL FRONTAGE RD.
STA. 35+40.00 TO 38+23.52'
CONST. 284 L.F.
TYPE WWF FENCE
140+00
BRIDGE "C"
BRIDGE "D"
7
6
NS 283 ℄
N00°03'10.78"W
NOTE:
ALL PRESENT AND PROPOSED R/W DIMENSIONS
SHOWN ARE FROM ℄ SURVEY EW 140 (QUAIL RD.)

+71.75 - WATVAL 41.4' LT.
+26.68 - PP 178.1' LT.
+93.15 - PP 22.3' RT.
+10.41 - POWANC 22.7' RT.
+11.15 - PP 145.7' RT.
+18.76 - PP 95.2' RT.
+47.48 - TP 28.8' LT.
+20.79 - TP 42.7' LT.
+56.16 - TP 109.4' LT.

BM#12 - 100D NAIL SET
W. FACE 18" ELM
℄ SURVEY U.S. 81
STA. 141+72.09, 306.34' LT.
ELEV. =1191.811

PVI 30+25
EL=1205.00
EXIST. PROFILE
FINISH GRADE
-2.06%
-1.26%
SP. DITCH RT.
HIGH PT. 29+40.81
EL=1201.76
PVC 28+25
EL=1199.94
600' V.C.
K=128
PVT 33+25
EL=1196.00
-3.00%
-3.41%
0.00%
3.46%
PVC 40+00
EL=1175.75
600' V.C.
K=100
PVT 46+00
EL=1175.74
PVI 44+00
EL=1166.75

| | | |

PROPOSED
R/W
AUGUST 2017

℄ RAMP D
PRES. R/W
WWF W/3-BW
AT&T
CRL SURVEY NO 283 (16TH AVE)
TOC/TOS
ASPHALT
CONST. RETAINING WALL
℄ RAMP F
℄ RAMP E
℄ RAMP A
20' U/E
℄ SURVEY EW 140 (QUAIL RD.)
N89°47'30.67"E
2639.79'
S 89°47'30.67" W
45+00
50+00
55+00
43+00
64
62
24'
4'
NOTE:
ALL PRESENT AND PROPOSED R/W DIMENSIONS SHOWN ARE FROM ℄ SURVEY EW 140 (QUAIL RD.)
STA. 114+92.33 ℄ 6'X5'X30.15° RDY.
SMB S.D. "X"ING ℄ 15.08' RT. & 15.07' LT.
ft ELEV. S=1163.80 RT. &
ft ELEV. N=1163.76 LT.
+02.24~GM 128.2' LT.
+87.87~SIGN 180.7' LT.
+92.32~SIGN 196.3' RT.
+44.17~SIGN 196.1' LT.
+84.90~SIGN 148.3' RT.
+55.71~SIGN 101.2' RT.
+46.25~SIGN 40.6' RT.
0 50 100'

PROFILE AT CROWN OF
RAMP E AND RAMP F

62 STA. 45+07.66 ℄ SURVEY EW 140 (QUAIL RD.), ON ℄
CONST. 10'X4'X73' LG. RCB
40.50' LG. LT. & 32.50' LG. RT. W/ STD. 0°
END SECTS. & 4' CURTAIN WALLS
ft LT.=1162.84, ft RT.=1163.06

PVC 40+00 EL=1175.75
600' V.C.
K=100
PVT 46+00 EL=1175.74
FINISH GRADE
3.00%
3.25%
PVI 50+55 EL=1189.37
HIGH PT. 51+74.52 EL=1188.91
PVC 49+06 EL=1184.87
PVT 52+95 EL=1188.86
300' V.C.
K=90
EXIST. PROFILE
LOW PT. 43+00.23 EL=1171.25
PVC 43+00 EL=1176.75
-1.91%
5.96%
1.14%
0.00%
SP. DITCH LT.
SP. DITCH RT.
STA. 50+00 - END CONSTRUCTION

1195 1190 1185 1180 1175 1170 1165 1160 1155 1150

F.G.=1171.25 EX.=1171.13
F.G.=1171.37 EX.=1171.26
F.G.=1171.74 EX.=1170.02
F.G.=1172.37 EX.=1169.13
F.G.=1173.24 EX.=1169.63
F.G.=1174.36 EX.=1170.51
F.G.=1175.74 EX.=1173.01
F.G.=1177.23 EX.=1175.65
F.G.=1178.73 EX.=1178.02
F.G.=1180.23 EX.=1179.90
F.G.=1181.73 EX.=1180.28
F.G.=1183.22 EX.=1182.35
F.G.=1184.72 EX.=1183.68
F.G.=1186.11 EX.=1185.85
F.G.=1187.22 EX.=1186.07
F.G.=1188.05 EX.=1185.36
F.G.=1188.60 EX.=1185.43
F.G.=1188.88 EX.=1185.41
F.G.=1188.87 EX.=1184.57
F.G.=1188.70 EX.=1184.35
F.G.=1188.54 EX.=1183.96
F.G.=1188.37 EX.=1183.43
EX.=1183.17
EX.=1184.75
EX.=1191.66
EX.=1192.90
EX.=1189.07

43+00 44+00 45+00 46+00 47+00 48+00 49+00 50+00 51+00 52+00 53+00 54+00 55+00 56+00 57+00 58+00

QUAIL ROAD
State Job No. 24428(04) Sheet No. R102
US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 21 T6N R7W

SEC. 16 T6N R7W

SEC. 16 T6N R7W

CAUTION -
WATERLINE
TUG

STA. 114+04 TO 132+19 US 81
CONST. 729 L.F.
TYPE WWF FENCE

STA. 140+01 TO 144+25 US 81
CONST. 633 L.F.
TYPE WWF FENCE

STA. 139+00 TO 140+57 US 81
CONST. 1,414 L.F.
TYPE WWF FENCE

LIMITS OF ACCESS
TO 16TH AVE ONLY

140+01.08
945'

141+60
705'

142+44.38
653.34'

142+50
665'

TEMP. R/W
(CHANNEL)

RAMP E
RAMP F
RAMP D
CRE SURVEY NS 283 (16TH AVE)
PRES. R/W
R/W
ASPHALT
CONCRETE
TOC/TOS
ENABLE
AT&T
WWF W/3-BW
MEPSCO
RWD 1
BC W/F
PC 20+85.00
25+00
29+00
41
24'

NOTE:
ALL PRESENT AND PROPOSED R/W DIMENSIONS, AND FENCE SHOWN ARE FROM ℄ SURVEY US 81

0 50' 100'

+72.82 - SIGN 22.6' RT.
+32.88 - SIGN 18.5' RT.
+87.64 - GM 105.7' LT.

UTILITY OWNERS

MEDICINE PARK TELEPHONE CO.	(580) 529-2700
CHICKASAW TELEPHONE CO.	(580) 618-5455
SOUTHWESTERN BELL	(800) 522-6543
DOBSON TECHNOLOGIES	(800) 778-9140
AT&T	(800) 778-9140
INTELLEQ COMMUNICATIONS	(800) 335-4343
PUBLIC SERVICE CO. OF OKLAHOMA	(888) 216-3523
OEC	(405) 321-2024
SUNOCO LOGISTICS	(800) 753-5531
UNIT PETROLEUM	(918) 493-7700
CONTINUUM ENERGY	(877) 587-0026
DCP MIDSTREAM	(800) 435-1679
ENABLE	(800) 522-8048
KEPCO OPERATING INC.	(855) 421-2088
TECHNICAL ENERGY SERVICES	(405) 329-8196
CITY OF CHICKASHA PUBLIC WORKS	(405) 222-6080
RURAL WATER DISTRICT #6	(405) 459-6626
RURAL WATER DISTRICT #7	(405) 779-6224
CENTERPOINT ENERGY	(866) 275-5265

STA. 19+90.00 - BEGIN CONSTRUCTION

HIGH PT. 22+09.49
EL=1185.21

PVI 23+20
EL=1185.63

PVC 21+70
EL=1185.15

PVT 24+70
EL=1182.46

300' V.C.
K=123

0.32%
-0.26%
-2.11%
-2.58%
-5.15%
-3.59%
-3.72%
-3.90%

SP. DITCH RT.
SP. DITCH LT.
SP. DITCH RT.
FINISH GRADE
EXIST. PROFILE

| | | |

PROPOSED
R/W
AUGUST 2017

SEC. 16 T6N R7W

SEC. 17 T6N R7W

STA. 142+93 TO 147+33 US 81
CONST. 494 L.F.
TYPE WWF FENCE

STA. 114+04 TO 132+19 US 81
CONST. 729 L.F.
TYPE WWF FENCE

STA. 146+99 TO 149+25
CONST. 301 L.F.
TYPE WWF FENCE

STA. 140+01 TO 144+25
CONST. 633 L.F.
TYPE WWF FENCE

STA. 144+25 TO 148+92
CONST. 518 L.F.
TYPE SWF (4WB) FENCE

CAUTION :
WATERLINE
TUG
OHE

LIMITS OF ACCESS
TO 16TH AVE ONLY

NOTE:
ALL PRESENT AND PROPOSED R/W DIMENSIONS, AND FENCE SHOWN ARE FROM ℄ SURVEY US 81

CHICKASHA CITY LIMITS

NINNEKAH CITY LIMITS

CREEK HAVEN ESTATES

PHILLIP LANE

GENOA WAY

CRL SURVEY NS 283 (16TH AVE)

TEMP. R/W (CHANNEL)

R RAMP D

0 50' 100'

63 STA. 29+50 CRL SURVEY NS 283 (16TH AVE.), 58.00' LT.
CONST. SP. DROP INLET
STUB 85 LF 10'x4' RCB W/ STD. 0° END SECT. & 4' CURTAIN WALL INTO DITCH RT.
TG=1166.54, FL=1161.04, DS FL=1160.00

171 STA. 36+08.37 CRL SURVEY NS 283 (16TH AVE.), ON ℄
CONST. 16'X6'X40' LG. RCB
22' LG. LT. & 22' LG. RT.
W/ SP. INLINE WING
FL LT.=1152.81, FL RT.=1152.51

STA. 36+17.79 - END CONSTRUCTION
BEGIN INCIDENTAL CONSTRUCTION

STA. 37+58.84 - END
INCIDENTAL CONSTRUCTION

16TH AVE.

F.G.=1173.39 EX.=1158.29	F.G.=1172.33 EX.=1158.45	F.G.=1171.28 EX.=1164.59	F.G.=1170.22 EX.=1164.74	F.G.=1169.17 EX.=1165.13	F.G.=1168.11 EX.=1167.18	F.G.=1167.06 EX.=1168.77	F.G.=1166.00 EX.=1169.91	F.G.=1164.94 EX.=1169.28	F.G.=1163.89 EX.=1166.34	F.G.=1162.85 EX.=1163.54	F.G.=1162.00 EX.=1162.05	F.G.=1161.37 EX.=1161.12	F.G.=1160.97 EX.=1161.06	F.G.=1160.78 EX.=1160.78	EX.=1160.92	EX.=1161.62	EX.=1162.53
29+00	30+00	31+00	32+00	33+00	34+00	35+00	36+00	37+00	38+00	39+00	40+00	41+00	42+00	43+00	44+00		

State Job No. 24428(04) Sheet No. R104

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 18 T6N R7W

EXISTING LIMITS OF NO ACCESS

240+00 245+00 250+00 252+00

PRES. R/W

WWF (2-BW)

CTC

248+65.24

TOC/TOS

℄ I-44 WB CD RD. 1
N48°35'59.38"E

N46°18'33.18"E

℄ SURVEY I-44 (HE BAILEY TPK)
N48°35'59.38"E

ASPHALT
CONCRETE
ASPHALT
ASPHALT
CONCRETE
ASPHALT

150'
10'
12'

0 50' 100'

BM#84

PRES. R/W WWF W/2-BW PRES. R/W

EXISTING LIMITS OF NO ACCESS

SEC. 18 T6N R7W

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY I-44 UNLESS OTHERWISE NOTED.

BM#85
+83.92 - PP 195.6' RT.
+99.93 - BB 157.0' RT.
+56.79 - TP 148.9' LT.
+98.95 - BB 168.2' RT.
+07.71 - SIGN 62.5' LT.

BM#85 - SET 3/4" I.P.(30" LONG)
℄ SURVEY I-44
STA. 241+58.38, 197.59' RT.
ELEV. =1277.055

BM#84 - SET 3/4" I.P.(30" LONG)
℄ SURVEY I-44
STA. 249+19.21, 136.16' RT.
ELEV. =1255.501

EXIST. PROFILE

VARIABLE GRADE
MATCH EXISTING

EXIST. PROFILE

STA. 245+65 - BEGIN CONSTRUCTION

EX.=1271.73 EX.=1270.59 EX.=1269.23 EX.=1267.98 EX.=1266.83 EX.=1265.62 EX.=1264.17 EX.=1262.99 EX.=1261.81 EX.=1260.64 EX.=1259.39 EX.=1257.97 EX.=1256.82 EX.=1255.56

1285 1280 1275 1270 1265 1260 1255 1250 1245 1240

237+00 238+00 239+00 240+00 241+00 242+00 243+00 244+00 245+00 246+00 247+00 248+00 249+00 250+00 251+00 252+00

UTILITY OWNERS

MEDICINE PARK TELEPHONE CO.	(580) 529-2700
CHICKASAW TELEPHONE CO.	(580) 618-5455
SOUTHWESTERN BELL	(800) 522-6543
DOBSON TECHNOLOGIES	(800) 778-9140
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KEPCO OPERATING INC.	(855) 421-2088
TECHNICAL ENERGY SERVICES	(405) 329-8196
CITY OF CHICKASHA PUBLIC WORKS	(405) 222-6080
RURAL WATER DISTRICT #6	(405) 459-6626
RURAL WATER DISTRICT #7	(405) 779-6224
CENTERPOINT ENERGY	(866) 275-5265

US 81 REALIGNMENT
GRADY COUNTY

I-44 H.E. BAILEY TURNPIKE

State Job No. 24428(04) Sheet No. R105

PROPOSED R/W
AUGUST 2017

SEC. 18 T6N R7W

EXISTING LIMITS OF NO ACCESS

STA. 256+12 TO 265+81
CONST. 1,017 L.F.
TYPE WWF FENCE

STA. 256+32 TO 263+53
CONST. 736 L.F.
TYPE WWF FENCE

EXISTING LIMITS OF NO ACCESS

SEC. 18 T6N R7W

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY I-44 UNLESS OTHERWISE NOTED.

CAUTION
GAS LINE

℄ SURVEY I-44 (HE BAILEY TPK)

℄ I-44 WB CD RD. 1

℄ I-44 EB CD RD. 1

℄ I-44 WB CD RD. 2

℄ RAMP J

℄ RAMP G

PRES. R/W

WWF W/2-BW

TOC/TOS

GUARDRAIL

ASPHALT
CONCRETE
ASPHALT
ASPHALT
CONCRETE
ASPHALT

CTC

CONTINUUM

25' U/E

BM#83

BM#82

PC: 256+47.44
PI: 254+83.24
PT: 259+47.44
PC: 258+77.44
PT: 261+77.44
PC: 263+55.76
PI: 264+25.68

+32.02
175'

+52.50
175'

STA. 256+12 TO 265+81
CONST. 1,017 L.F.
TYPE WWF FENCE

STA. 256+32 TO 263+53
CONST. 736 L.F.
TYPE WWF FENCE

STA. 256+33.30 OFFSET
150.10' RT. ℄
18"X48.49' CMP S.D.
℄ ELEV. NW=1228.63
℄ ELEV. SE=1214.77

STA. 258+55.49 OFFSET
106.88' LT. ℄
42"X83.60' CMP S.D.
℄ ELEV. NE=1219.17
℄ ELEV. SW=1232.13

STA. 261+24.81
6'X7' RCP
℄ ELEV. NE=1203.00
℄ ELEV. SW=1209.00

N89°51'26.00"E 2628.07'

N0°18'5.68"E 264.25'

N0°04'18.48"W 2682.51'

S88°34'13.03"E 2675.16'

N0°18'5.68"E 282'

GOVT LOT 13
GOVT LOT 9

+95.31 - SIGN 52.3' RT.
+93.69 - TP 24.0' LT.
+15.92 - SIGN 46.0' RT.
+29.71 - SIGN 10.2' LT.
+39.87 - SIGN 45.7' RT.
+05.96 - SIGN 49.9' RT.
+24.96 - SIGN 48.2' RT.
+22.54 - SIGN 153.9' LT.
+72.55 - SIGN 55.2' LT.

0 50' 100'

VARIABLE GRADE MATCH EXISTING

BM#83 - SET 3/4" I.P.(30" LONG)
℄ SURVEY I-44
STA. 257+17.31, 121.51' RT.
ELEV. =1234.237

BM#82 - SET 3/4" I.P.(30" LONG)
℄ SURVEY I-44
STA. 264+99.64, 192.11' RT.
ELEV. =1244.102

IDENTICAL POINTS

EXIST. PROFILE

(82) STA. 262+45 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 76 LF 18" RCP INTO STR. 122
TG=1235.04, FL=1230.36, DS FL=1211.06

(83) STA. 265+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 82 LF 18" RCP INTO DITCH LT. W/ CET
TG=1236.13, FL=1231.45, DS FL=1226.83

(84) STA. 265+20 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 66 LF 18" RCP INTO DITCH RT. W/ CET
TG=1236.47, FL=1231.79, DS FL=1229.96

(122) STA. 261+25 ℄ SURVEY I-44 (HE BAILEY TPK), ON ℄
EXT. EXIST. 6'X7'X206' RDY. RCB
SKEW 45° LT. FWD.
68' LG. LT. & 35' LG. RT.
FL LT. =1209.28, FL RT.=1205.50

-4.42% -1.94% -6.73% -0.00% -0.48% -4.60% -2.13% 0.00% -2.18%

SP. DITCH RT.
SP. DITCH LT.

EX.=1255.56 EX.=1254.36 EX.=1253.11 EX.=1251.87 EX.=1250.67 EX.=1249.50 EX.=1248.14 EX.=1246.89 EX.=1245.55 EX.=1244.38 EX.=1243.08 EX.=1241.86 EX.=1240.87 EX.=1239.97 EX.=1239.07 EX.=1238.32 EX.=1237.73 EX.=1237.07 EX.=1236.55 EX.=1236.20 EX.=1235.94 EX.=1235.89 EX.=1236.01 EX.=1236.13 EX.=1236.43 EX.=1236.76 EX.=1237.15 EX.=1237.64 EX.=1238.15 EX.=1238.63 EX.=1239.10

252+00 253+00 254+00 255+00 256+00 257+00 258+00 259+00 260+00 261+00 262+00 263+00 264+00 265+00 266+00 267+00

I-44 H.E. BAILEY TURNPIKE

State Job No. 24428(04) Sheet No. R106

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED R/W
AUGUST 2017

SEC. 17 T6N R7W

EXISTING LIMITS OF NO ACCESS

R/W

PRES. R/W

US 81 +51 1565'

270+00

275+00

280+00

267+00

282+00

℄ RAMP J

℄ I-44 WB CD RD. 2

℄ SURVEY I-44 (HE BAILEY TPK)

℄ I-44 EB CD RD. 2

℄ RAMP G

TOC/TOS

CTC

ASPHALT

CONCRETE

RWD 7

AEP (2-WP)

WWF W/2-BW

CONTINUUM

30' U/E

PRES. R/W

EXISTING LIMITS OF NO ACCESS

SEC. 17 T6N R7W

CHICKASHA CITY LIMITS

0 50' 100'

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY I-44 UNLESS OTHERWISE NOTED.

BM#219 - 80D SPIKE IN POWER POLE.
E. R/W FENCE I-44
℄ SURVEY I-44
STA. 273+25.31, 199.18' RT.
ELEV. =1252.530

VARIABLE GRADE
MATCH EXISTING

85 STA. 268+26 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 96 LF 36" RCP INTO EXIST. INLET LT.
TG=1239.41, FL=1229.63, DS FL=1224.67

86 STA. 268+26 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB ONTO EXIST. 36" RCP
TG=1239.47, FL =1231.25

87 STA. 268+26 ℄ SURVEY I-44 (HE BAILEY TPK), 114.19' RT.
CONST. D6 CET AS INLET
STUB 72 LF 36" RCP INTO STR. 86
FL=1232.89, DS FL=1231.25

88 STA. 270+50 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 80 LF 18" RCP INTO DITCH LT. W/ CET
TG=1241.52, FL=1236.84, DS FL=1233.79

89 STA. 270+50 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 76 LF 18" RCP INTO DITCH RT. W/ CET
TG=1241.72, FL=1237.04, DS FL=1235.16

90 STA. 273+25 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 96 LF 18" RCP INTO DITCH LT. W/ CET
TG=1244.32, FL=1238.27, DS FL=1237.27

91 STA. 273+25 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 76 LF 18" RCP INTO DITCH RT. W/ CET
TG=1244.47, FL=1239.35, DS FL=1237.92

92 STA. 276+25 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 74 LF 18" RCP INTO DITCH LT. W/ CET
TG=1247.57, FL=1242.88, DS FL=1239.30

93 STA. 276+25 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 70 LF 18" RCP INTO DITCH RT. W/ CET
TG=1247.54, FL=1242.86, DS FL=1242.44

67 STA. 1199+02 ℄ RAMP G, ON ℄
CONST. 30"X98' LG. RCP
42' LG. LT. & 55' LG. RT. W/ CETS
FL LT.=1242.12, FL RT.=1242.80

70 STA. 2191+00 ℄ RAMP J, 68.16' RT.
CONST. SMD, TYPE 2A
STUB 170 LF 30" RCP INTO DITCH LT. W/ CET
TG=1236.37, FL=1224.37, DS FL=1216.79

94 STA. 280+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 62 LF 18" RCP INTO DITCH LT. W/ CET
TG=1251.39, FL=1246.37, DS FL=1246.18

95 STA. 280+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 62 LF 18" RCP INTO DITCH RT. W/ CET
TG=1251.25, FL=1246.23, DS FL=1246.05

EXIST. PROFILE

3.23%

1.74%

SP. DITCH LT.

EX.=1239.10 | EX.=1239.58 | EX.=1240.13 | EX.=1240.58 | EX.=1241.13 | EX.=1241.73 | EX.=1242.21 | EX.=1242.65 | EX.=1243.22 | EX.=1243.76 | EX.=1244.14 | EX.=1244.67 | EX.=1245.10 | EX.=1245.59 | EX.=1246.22 | EX.=1246.77 | EX.=1247.16 | EX.=1247.68 | EX.=1248.18 | EX.=1248.68 | EX.=1249.16 | EX.=1249.48 | EX.=1250.03 | EX.=1250.44 | EX.=1251.00 | EX.=1251.47 | EX.=1252.01 | EX.=1252.56 | EX.=1252.98 | EX.=1253.38 | EX.=1254.06

1265 1260 1255 1250 1245 1240 1235 1230 1225 1220

267+00 268+00 269+00 270+00 271+00 272+00 273+00 274+00 275+00 276+00 277+00 278+00 279+00 280+00 281+00 282+00

I-44 H.E. BAILEY TURNPIKE

State Job No. 24428(04) Sheet No. R107

US 81 REALIGNMENT

GRADY COUNTY

NOTE:
TOLL PLAZA TO BE REMOVED BY OTHERS.

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY I-44 UNLESS OTHERWISE NOTED.

PROPOSED R/W
AUGUST 2017

SEC. 17 T6N R7W

SEC. 17 T6N R7W

CHICKASHA CITY LIMITS

BRIDGE "F"

BRIDGE "G"

℄ SURVEY I-44 (HE BAILEY TPK)

℄ SURVEY U.S. 81

℄ I-44 WB CD RD. 2

℄ I-44 EB CD RD. 2

℄ RAMP H

℄ RAMP I

℄ RAMP L

℄ RAMP M

TOC/TOS

PRES. R/W

CLF

CONCRETE

ASPHALT

GRAVEL

TOLL BOOTH

BLDG.

CONTINUUM

30' U/E

AEP (2-WP)

AEP (3-WP)

RWD 7

BM#220 - N.E. COR. TOP CONC. STEP ON N. SIDE OF TOLL GATE BLDG. ℄ SURVEY I-44 STA. 283+25.13, 73.71' RT. ELEV. =1254.773

BM#1 - 100D NAIL SET IN E. FACE 8" WOOD POST, N. SIDE OF I-44 ℄ SURVEY U.S. 81 STA. 197+99.60, 286.18' LT. ELEV. =1249.874

99 STA. 288+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES.
STUB 94 LF 18" RCP INTO STR. 29
TG=1248.74, FL=1244.06, DS FL=1238.68

102 STA. 291+72.84 ℄ SURVEY I-44 (HE BAILEY TPK), 127.16' RT.
CONST. C6 CET AS INLET
STUB 86 LF 30" RCP INTO STR. 101
FL=1233.94, DS FL=1230.87

VARIABLE GRADE
MATCH EXISTING

96 STA. 286+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 100 LF 18" RCP INTO DITCH LT. W/ CET
TG=1251.06, FL=1246.38, DS FL=1237.69

97 STA. 286+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB746 LF 18" RCP INTO DITCH LT. W/ CET
TG=1251.03, FL=1246.35, DS FL=1244.01

29 STA. 195+18 ℄ SURVEY US 81, 177.62' LT.
CONST. SMD, TYPE 2
STUB 410 LF 24" RCP INTO DITCH RT. W/ CET
TG=1241.28, FL=1238.18, DS FL=1233.82

98 STA. 288+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 146 LF 18" RCP INTO DITCH LT. W/ CET
TG=1248.79, FL=1244.11, DS FL=1234.37

100 STA. 291+97 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 116 LF 30" RCP INTO DITCH LT. W/ CET
TG=1244.47, FL=1227.92, DS FL=1223.82

101 STA. 291+85 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 82 LF 30" RCP INTO STR. 100
TG=1244.51, FL=1230.87, DS FL=1227.92

103 STA. 294+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 120 LF 18" RCP INTO DITCH LT. W/ CET
TG=1242.41, FL=1237.73, DS FL=1223.29

104 STA. 294+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 120 LF 18" RCP INTO DITCH RT. W/ CET
TG=1242.23, FL=1236.74, DS FL=1236.38

105 STA. 297+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 62 LF 18" RCP INTO DITCH LT. W/ CET
TG=1238.99, FL=1233.98, DS FL=1233.79

106 STA. 297+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 62 LF 18" RCP INTO DITCH RT. W/ CET
TG=1239.06, FL=1234.05, DS FL=1233.86

EXIST. PROFILE

SP. DITCH RT. -1.74%-1.70% SP. DITCH LT.

EX.=1254.06 EX.=1254.49 EX.=1254.43 EX.=1254.36 EX.=1253.82 EX.=1253.46 EX.=1252.87 EX.=1252.27 EX.=1251.67 EX.=1251.18 EX.=1250.62 EX.=1250.22 EX.=1249.63 EX.=1249.12 EX.=1248.64 EX.=1248.09 EX.=1247.49 EX.=1246.87 EX.=1246.32 EX.=1245.72 EX.=1245.20 EX.=1244.82 EX.=1244.37 EX.=1243.83 EX.=1243.22 EX.=1242.69 EX.=1242.11 EX.=1241.58 EX.=1240.82 EX.=1240.37 EX.=1239.98

1265 1260 1255 1250 1245 1240 1235 1230 1225 1220

282+00 283+00 284+00 285+00 286+00 287+00 288+00 289+00 290+00 291+00 292+00 293+00 294+00 295+00 296+00 297+00

I-44 H.E. BAILEY TURNPIKE

US 81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. R108

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY I-44 UNLESS OTHERWISE NOTED.

PROPOSED R/W
AUGUST 2017

SEC. 17 T6N R7W

SEC. 8 T6N R7W

STA. 199+08 TO 206+00
CONST. 1,344 L.F.
TYPE WWF FENCE

EXISTING LIMITS OF NO ACCESS

US 81 +40 1625'

STA. 310+56.87 ℄ L.T. ℄
2,750.24' S.W.C.
2,750.24' S.W.C.
ELEV.=1216.66
ELEV.=1217.78

300+00 | 305+00 | 310+00

297+00 | 312+00

℄ SURVEY I-44 (HE BAILEY TPK)

℄ I-44 WB CD RD. 2

℄ I-44 EB CD RD. 2

℄ RAMP N

℄ RAMP K

CHICKASHA CITY LIMITS

SEC. 17 T6N R7W

SEC. 8 T6N R7W

BM#76 - SET 3/4" I.P.(30" LONG)
℄ SURVEY I-44
STA. 298+85.08, 158.03' RT.
ELEV. =1245.168

BM#77 - SET 3/4" I.P.(30" LONG)
℄ SURVEY I-44
STA. 307+00.59, 200.57' RT.
ELEV. =1227.465

0 50' 100'

VARIABLE GRADE
MATCH EXISTING

(105) STA. 297+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 62 LF 18" RCP INTO DITCH LT. W/ CET
TG=1238.99, FL=1233.98, DS FL=1233.79

(106) STA. 297+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 62 LF 18" RCP INTO DITCH RT. W/ CET
TG=1239.06, FL=1234.05, DS FL=1233.86

(107) STA. 300+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 62 LF 18" RCP INTO DITCH LT. W/ CET
TG=1235.99, FL=1230.98, DS FL=1230.79

(108) STA. 300+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 74 LF 18" RCP INTO STR. 109
TG=1235.95, FL=1230.93, DS FL=1228.36

(109) STA. 300+36.55 ℄ SURVEY I-44 (HE BAILEY TPK), 106' RT.
CONST. SMD, TYPE 2A
STUB 88 LF 30" RCP INTO STR. 74
TG=1231.01, FL=1227.36, DS FL=1227.09

(110) STA. 303+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 76 LF 18" RCP INTO STR. 77
TG=1232.74, FL=1228.06, DS FL=1224.98

(111) STA. 303+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 74 LF 18" RCP INTO STR. 75
TG=1232.76, FL=1228.08, DS FL=1225.58

(74) STA. 3199+00 ℄ RAMP K, 49.00' LT.
CONST. SMD, TYPE 2A
STUB 104 LF 30" RCP INTO DITCH RT. W/ CET
TG=1233.93, FL=1227.09, DS FL=1226.50

(75) STA. 3201+75 ℄ RAMP K, 41.00' LT.
CONST. SMD, TYPE 2
STUB 78 LF 18" RCP INTO DITCH RT. W/ CET
TG=1228.14, FL=1225.58, DS FL=1224.92

(77) STA. 4187+23 ℄ RAMP N, 49.00' LT.
CONST. SMD, TYPE 2A
STUB 86 LF 30" RCP INTO DITCH RT. W/ CET
TG=1227.86, FL=1223.98, DS FL=1223.55

(112) STA. 306+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 94 LF 18" RCP INTO DITCH LT. W/ CET
TG=1229.46, FL=1224.77, DS FL=1222.07

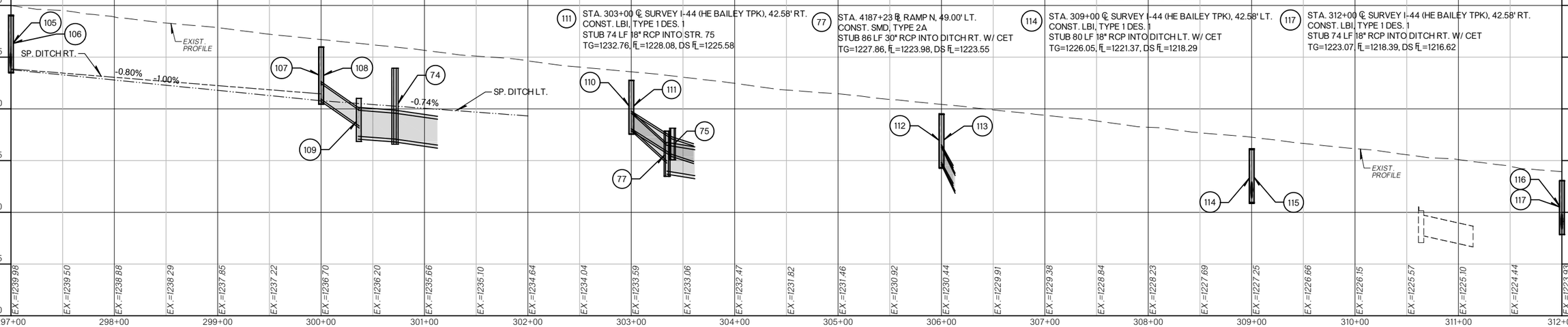
(113) STA. 306+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 88 LF 18" RCP INTO DITCH RT. W/ CET
TG=1229.51, FL=1224.83, DS FL=1222.82

(114) STA. 309+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 80 LF 18" RCP INTO DITCH LT. W/ CET
TG=1226.05, FL=1221.37, DS FL=1218.29

(115) STA. 309+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 72 LF 18" RCP INTO DITCH RT. W/ CET
TG=1226.15, FL=1221.47, DS FL=1220.17

(116) STA. 312+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 84 LF 18" RCP INTO DITCH LT. W/ CET
TG=1223.03, FL=1218.35, DS FL=1214.52

(117) STA. 312+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 74 LF 18" RCP INTO DITCH RT. W/ CET
TG=1223.07, FL=1218.39, DS FL=1216.62



I-44 H.E. BAILEY TURNPIKE

State Job No. 24428(04) Sheet No. R109

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED R/W
AUGUST 2017

SEC. 8 T6N R7W

EXISTING LIMITS OF NO ACCESS

CAUTION
GAS LINE

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY I-44 UNLESS OTHERWISE NOTED.

0 50' 100'

US 81 +54.59 2315' R/W

PRES. R/W

TOC/TOS

CTC

(2-BW)

WWF W/2-BW

CONTINUUM

AEP (3-WP)

ENABLE 25' U/E

ENABLE 20' U/E

PT: 317+22.92

PC: 319+01.24

PT: 322+01.24

PC: 318+99.68

PT: 321+99.68

PT: 317+21.36 25' U/E

STA. 320+56.59 185.91' RT. ℄ -42"X36 6-4' CGMP S.D. ℄ ELEV. NW=1201.78 ℄ ELEV. SE=1201.22

℄ SURVEY I-44 (HE BAILEY TPK)

℄ I-44 WB CD RD. 2

℄ I-44 WB CD RD. 3

℄ I-44 EB CD RD. 2

℄ I-44 EB CD RD. 3

℄ RAMP N

℄ RAMP K

ASPHALT CONCRETE

ASPHALT

CHICKASHA CITY LIMITS

BM#78

BM#99

BM#79

312+00 313+00 314+00 315+00 316+00 317+00 318+00 319+00 320+00 321+00 322+00 323+00 324+00 325+00 326+00 327+00

+63.50 -SIGN 2.6' RT.
+42.78 -PP 153.4' RT.
+35.63 -GM 2.8' LT.
+75.46 -PP 125.3' RT.
+75.87 -SIGN 44.6' RT.
+85.40 -GM 149.8' LT.
+27.41 -TP 149.9' LT.
+02.36 -GM 149.2' RT.
+04.76 -SIGN 63.3' RT.
+07.70 -PP 120.0' RT.
+64.14 -SIGN 2.2' RT.
+64.25 -SIGN 28.0' RT.
+74.74 -GM 62.8' RT.
+82.52 -SIGN 63.1' LT.
+61.61 -TP 147.1' RT.
+98.67 -SIGN 45.1' RT.
+40.23 -PP 118.7' RT.
+24.43 -SIGN 63.3' LT.
+16.05 -TP 147.2' LT.
+73.93 -PP 115.1' RT.

BM#78 - SET 3/4" I.P.(30" LONG)
℄ SURVEY I-44
STA. 314+30.67, 184.43' RT.
ELEV. =1214.739

BM#99 - CHIX. "X" SET, TOP CENTER HEADWALL
℄ SURVEY I-44
STA. 320+53.51, 168.85' RT.
ELEV. =1206.349

BM#79 - SET 3/4" I.P. (30" LONG)
℄ SURVEY I-44
STA. 322+38.88, 141.94' RT.
ELEV. =1206.275

VARIABLE GRADE
MATCH EXISTING

116 STA. 312+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 84 LF 18" RCP INTO DITCH LT. W/ CET
TG=1223.03, FL=1218.35, DS FL=1214.52

117 STA. 312+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 74 LF 18" RCP INTO DITCH RT. W/ CET
TG=1223.07, FL=1218.39, DS FL=1216.62

118 STA. 315+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 66 LF 18" RCP INTO DITCH LT. W/ CET
TG=1219.82, FL=1215.14, DS FL=1213.68

119 STA. 315+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 64 LF 18" RCP INTO DITCH RT. W/ CET
TG=1219.76, FL=1215.08, DS FL=1213.98

120 STA. 316+23 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 64 LF 18" RCP INTO DITCH LT. W/ CET
TG=1218.43, FL=1213.75, DS FL=1212.27

121 STA. 316+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 62 LF 18" RCP INTO DITCH RT. W/ CET
TG=1218.51, FL=1213.33, DS FL=1212.78

EXIST. PROFILE

SP. DITCH LT. -1.58%

1235 1230 1225 1220 1215 1210 1205 1200 1195 1190

EX.=1223.93 EX.=1223.54 EX.=1223.01 EX.=1222.34 EX.=1221.75 EX.=1221.27 EX.=1220.75 EX.=1220.14 EX.=1219.60 EX.=1219.04 EX.=1218.62 EX.=1217.92 EX.=1217.43 EX.=1216.93 EX.=1216.50 EX.=1215.98 EX.=1215.51 EX.=1215.04 EX.=1214.63 EX.=1214.06 EX.=1213.53 EX.=1212.99 EX.=1212.58 EX.=1212.28 EX.=1211.78 EX.=1211.38 EX.=1210.96 EX.=1210.58 EX.=1210.04 EX.=1209.65 EX.=1209.24

US 81 RE ALIGNMENT

GRADY COUNTY

I-44 H.E. BAILEY TURNPIKE

State Job No. 24428(04) Sheet No. R110

PROPOSED
R/W
AUGUST 2017

SEC. 8 T6N R7W

EXISTING LIMITS
OF NO ACCESS

STA. 327+99.02 ℄
4'X2.5'X143.89' RDY.
RCB S.D. "X"ING ℄
74.56' RT. & 69.33' LT.
℄ ELEV. E=1198.20 RT.
& ℄ ELEV. W=1199.92 LT.

330+00

335+00

337+02

2642.35'
N89°55'08.13"E

PRES. R/W
WWF W/2-BW
CTC
FO

℄ I-44 WB CD RD. 3
℄ I-44 EB CD RD. 3
℄ SURVEY I-44 (HE BAILEY TPK)
PI: 329+81.88

ASPHALT
CONCRETE

TOC/TOS

150'
12'
10'

123

AEP (3-WP)
I-WP
BM#80
CONTINUUM

0 50' 100'

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY I-44 UNLESS OTHERWISE NOTED.

EW 138.5
NS 283
2652.94'
S00°23'16.22"E

+69.35–SIGN 44.5' RT.
+67.85–GM 189.3' RT.
+05.83–BB 188.7' RT.
+05.95–POWER 187.1' RT.
+06.63–PP 147.3' RT.
+81.01–SIGN 64.0' RT.
+92.71–SIGN 44.1' RT.
+39.55–PP 108.2' RT.
+03.05–SIGN 153.8' LT.
+07.88–TP 147.2' LT.
+01.61–SIGN 51.4' LT.
+74.39–PP 104.7' RT.

BM#80 - SET 3/4" I.P. (30" LONG)
℄ SURVEY I-44
STA. 330+30.42, 142.27' RT.
ELEV. =1197.701

VARIABLE GRADE
MATCH EXISTING

123 STA. 327+99 ℄ SURVEY I-44 (HE BAILEY TPK), ON ℄
EXT. EXIST. 4'X2.5'X146' RDY. RCB
SKEW 38° RT. FWD.
27' LG. LT. & 31' LG. RT. W/
DISCONTINUED STD. END SECTS.
FL LT.=1200.17, FL RT.=1198.10

EXIST. PROFILE
SP. DITCH LT.
SP. DITCH RT.
1.18%
3.04%
1.35%

STA. 333+30 - END CONSTRUCTION

EX.=1209.24
EX.=1208.74
EX.=1208.09
EX.=1207.81
EX.=1207.40
EX.=1207.00
EX.=1206.60
EX.=1206.12
EX.=1205.63
EX.=1205.22
EX.=1204.75
EX.=1204.37
EX.=1203.91

1225
1220
1215
1210
1205
1200
1195
1190
1185
1180

327+00 328+00 329+00 330+00 331+00 332+00 333+00 334+00 335+00 336+00 337+00 338+00 339+00 340+00 341+00 342+00

I-44 H.E. BAILEY TURNPIKE

State Job No. 24428(04) Sheet No. R111

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

0 50′ 100′

SEC. 20 T6N R7W

LIMITS OF NO ACCESS

LIMITS OF ACCESS TO FRONTAGE RD. ONLY

TEMP. R/W (DRIVE)

BOP: 30+00.00

30+00

5115+00

5120+00

5110+00

5105+00

STA. 5118+50
CONST. 24' ASPH. DRIVE LT.
W/22"X13"X58' LG. RCPA

METAL BLDG.

CRL FRONTAGE RD.
N00°03'59.50"W

STA. 114+04 TO 132+19
CONST. 1,800 L.F.
TYPE WWF FENCE

℄ SURVEY US 81

SEC. 20 T6N R7W

BM#210- "X" ON CENTER W. HDWL.
RCB CROSS DRAIN
℄ SURVEY U.S. 81
STA. 108+67.70, 66.14' LT.
ELEV. =1196.144

BM#211- "[]" ON N.E. WINGWALL
W. SIDE DRAIN
℄ SURVEY U.S. 81
STA. 114+06.93, 68.77' LT.
ELEV. =1200.651

UTILITY OWNERS

MEDICINE PARK TELEPHONE CO.	(580) 529-2700
CHICKASAW TELEPHONE CO.	(580) 618-5455
SOUTHWESTERN BELL	(800) 522-6543
DOBSON TECHNOLOGIES	(800) 778-9140
AT&T	(800) 778-9140
INTELLEQ COMMUNICATIONS	(800) 335-4343
PUBLIC SERVICE CO. OF OKLAHOMA	(888) 216-3523
OEC	(405) 321-2024
SUNOCO LOGISTICS	(800) 753-5531
UNIT PETROLEUM	(918) 493-7700
CONTINUUM ENERGY	(877) 587-0026
DCP MIDSTREAM	(800) 435-1679
ENABLE	(800) 522-8048
KEPCO OPERATING INC.	(855) 421-2088
TECHNICAL ENERGY SERVICES	(405) 329-8196
CITY OF CHICKASHA PUBLIC WORKS	(405) 222-6080
RURAL WATER DISTRICT #6	(405) 459-6626
RURAL WATER DISTRICT #7	(405) 779-6224
CENTERPOINT ENERGY	(866) 275-5265

STA. 5113+79.22 - BEGIN CONSTRUCTION

FINISH GRADE
EXIST. PROFILE
-2.00%
1.74%
1.15%
1.24%
2.16%
1.78%
0.86%
-0.66%
SP. DITCH LT.
SP. DITCH RT.
PVC 5118+00 EL=1213.53
HIGH PT. 5119+64.75 EL=1214.96
400' V.C. K=95
PVT 5122+00 EL=1212.04

FRONTAGE RD.

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. R112

PROPOSED
R/W
AUGUST 2017

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

SEC. 20 T6N R7W

0 50′ 100′

STA. 5123+73
CONST. 12' ASPH. DRIVE L.T.
W/28'X18'X50' LG. RCPA

STA. 5128+30
CONST. 12' ASPH. DRIVE L.T.
W/28'X18'X52' LG. RCPA

CAUTION -
PUG
OH POWER

CAUTION -
GAS LINE

LIMITS OF ACCESS TO FRONTAGE RD. ONLY

STA. 128+52 TO 137+96.50
CONST. 970 L.F.
TYPE WWF FENCE

STA. 114+04 TO 132+19
CONST. 1,800 L.F.
TYPE WWF FENCE

STA. 132+50 TO 140+86
CONST. 1,004 L.F.
TYPE WWF FENCE

5120+00 · 5125+00 · 5130+00 · 5135+00

120+00 255′ · 122+00 270′ · 129+75 290′ · 133+00 410′

5127+03.05
86.26′

PC: 5126+72.04

CRL FRONTAGE RD
N00°03'59.50"W

CRL FRONTAGE RD
N39°36'37.30"W

N39°36'37.30"W
2652.10'
N00°03'10.78"W

℄ SURVEY US 81

NINNEKAH CITY LIMITS

R/W · TOC/TOS · PRES. R/W · FBRGLS FN · ASPHALT · AEP(2-WP) · WWF W/2-BW · WWF W/3-BW · AT&T · ENABLE · 10' U/E · 20' U/E · 30' U/E · 50' U/E

BM#212

BM#212- 80D SPIKE IN POWER POLE
ON EAST EDGE OF 16TH STREET
℄ SURVEY U.S. 81
STA. 123+39.68, 114.46' LT.
ELEV. =1203.978

PVI 5120+00
EL=1217.00

PVC 5118+00
EL=1213.53

PVT 5122+00
EL=1212.04

PVC 5126+00
EL=1202.13

PVI 5127+00
EL=1199.65

PVT 5128+00
EL=1198.77

-1.38% · -2.64% · -2.48% · -0.88% · -2.87% · -2.42%

SP. DITCH LT. · SP. DITCH RT.

FINISH GRADE · EXIST. PROFILE

400' V.C.
K=95

200' V.C.
K=125

5120+00	5121+00	5122+00	5123+00	5124+00	5125+00	5126+00	5127+00	5128+00	5129+00	5130+00	5131+00	5132+00	5133+00	5134+00	5135+00
F.G.=1214.89 EX.=1215.60	F.G.=1214.58 EX.=1215.49	F.G.=1213.99 EX.=1212.82	F.G.=1213.15 EX.=1210.46	F.G.=1212.04 EX.=1208.66	F.G.=1210.80 EX.=1207.02	F.G.=1209.56 EX.=1205.98	F.G.=1208.33 EX.=1205.15	F.G.=1207.09 EX.=1204.36	F.G.=1205.85 EX.=1203.71	F.G.=1204.61 EX.=1203.04	F.G.=1203.37 EX.=1202.92	F.G.=1202.13 EX.=1202.25	F.G.=1200.99 EX.=1201.19	F.G.=1200.05 EX.=1200.11	F.G.=1199.31 EX.=1198.35	F.G.=1198.77 EX.=1198.59	F.G.=1198.32 EX.=1198.41	F.G.=1197.88 EX.=1198.01	F.G.=1197.44 EX.=1197.30	F.G.=1197.00 EX.=1197.71	F.G.=1196.56 EX.=1197.95	F.G.=1196.12 EX.=1198.68	F.G.=1195.67 EX.=1199.16	F.G.=1195.23 EX.=1199.92	F.G.=1194.79 EX.=1199.84	F.G.=1194.35 EX.=1199.99	F.G.=1193.91 EX.=1199.09	F.G.=1193.47 EX.=1199.90	F.G.=1193.02 EX.=1197.97	F.G.=1192.58 EX.=1196.46

1225 · 1220 · 1215 · 1210 · 1205 · 1200 · 1195 · 1190 · 1185 · 1180

FRONTAGE RD.

State Job No. 24428(04) Sheet No. R113

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 20 T6N R7W

SEC. 17 T6N R7W

LIMITS OF ACCESS TO
FRONTAGE RD. ONLY

STA. 137+97 TO 141+48 US 81
CONST. 318 L.F.
TYPE SWF (5WB) FENCE

5140+00

5135+00

136+75
635'

+96.50
668'

141+47.79
750'

+53.42
755'

30+00

245+00

242+00

R/W

PRES. R/W

TOC/TOS

CONST. RETAINING WALL

CRL FRONTAGE RD.

N39°36'37.30"W

N20°09'15.57"W

2653.47'

S69°50'44.43"W

PC: 5138+67.86

PT: 5141+62.60

℄ SURVEY EW 140 "QUAIL" RD.

125'

125.00'

20' UE

10' UE

EW 140

RAMP B

59

61

80

81

4'

2'

0 50' 100'

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W
AND R/W DIMENSIONS SHOWN ARE FROM
THE ℄ SURVEY U.S. 81.

(5-BW) (4-BW) (6-BW) WWF W3-BW

ASPHALT

METAL BUILDING

2-STORY ROCKHOUSE

CONC.

SHED

GRAVEL

RWD7

59 STA. 5136+90 CRL FRONTAGE RD., ON ℄
CONST. 8'X4'X58' LG. RCB
28' LG. LT. & 30' LG. RT. W/ STD. 0°
END SECTS. & 4" CURTAIN WALLS
℄ LT.=1182.66, ℄ RT.=1182.03

200' V.C.
K=169

PVC 5135+50
EL=1192.14

PVI 5136+50
EL=1191.26

LOW PT. 5136+99.31
EL=1191.48

PVT 5137+50
EL=1191.56

EXIST. PROFILE

-0.88%

-2.42%

-2.87%

3.20%

2.97%

0.30%

0.50%

2.00%

FINISH GRADE

SP. DITCH LT.

SP. DITCH RT.

STA. 5142+35.25 - END CONSTRUCTION

	5135+00	5136+00	5137+00	5138+00	5139+00	5140+00	5141+00	5142+00	5143+00	5144+00	5145+00	5146+00	5147+00	5148+00	5149+00	5150+00
F.G.	1192.58	1192.14	1191.77	1191.55	1191.48	1191.56	1191.71	1191.86	1192.01	1192.16	1192.31	1192.46	1192.61	1192.76	1192.91	
EX.	1196.46	1194.44	1193.12	1183.08	1182.58	1191.28	1192.36	1194.61	1193.90	1195.84	1205.50	1205.02	1198.55	1201.12	1201.68	

1215 1210 1205 1200 1195 1190 1185 1180 1175 1170

FRONTAGE RD.

State Job No. 24428(04) Sheet No. R114

US 81 REALIGNMENT
GRADY COUNTY

SEC. 6 T6N R7W

SEC. 7 T6N R7W

PROPOSED R/W
R/W UTILITY MEETING
AUGUST 2017
JUNE 2017

LIMITS OF NO ACCESS

STA. 100+16.79 TO 103+85.59 CONST. 368.80 L.F. TYPE WWF FENCE

+45.85
182.23'

+16.79
50'

PRES R/W

R/W

TOC/TOS

W/M BARBWIRE FN (3-W)

BARBWIRE FN (4-W)

OH ELEC (4-W) (AEP PSCO)

UGND TEL (ATT/D)

℄ SURVEY COUNTRY CLUB RD.

POB 1050+00.00

POE 1035+21.04

PRES R/W

3" WL (RWD 7)

+16.41
16.50'

CAUTION :
TUG

STA. 100+16.41 TO 102+98.76 CONST. 282.35 L.F. TYPE WWF FENCE

+98.76
238.28'

PI 100+00.00

OH ELEC (2-W) (OEC)

BARBWIRE FN (5-W)

CAUTION :
OH POWER

BRIDGE 'J'

24" CMP
℄ W=1188.41
℄ E=1189.41
(PIPE CRUSHED AND SILTED IN)

S 89°41'13.07" W

POE 1120+64

STA. 113+95.69 TO 124+95.44 CONST. 1,099.75 L.F. TYPE SWF (5WB) FENCE

+95.69
170.72'

MATCHLINE STA. 115+00

STA. 107+78.88
℄ 3-WIRE-O.H. CROSSING
L.W.E.=1210.97
(OEC)

STA. 109+37.48
OPT-SET 19.00' LT. ℄
24"X19.76' CMP S.D.
℄ ELEV. W=1188.41
℄ ELEV. E=1189.41
(PIPE CRUSHED & SILTED IN)

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY COUNTRY CLUB

HOR 0 50' 100'
VER 0 5' 10'

BEGIN BRIDGE STA.= 107+28.93
F.G. ELEV. = 1183.04

BRIDGE 'J' LENGTH = 433'-8⅜"

END BRIDGE STA.= 111+62.63
F.G. ELEV.= 1208.21

PROPOSED BRIDGE 'J':
FOUR SPAN (40'-134'-134'-126')
STEEL I-GIRDER BRIDGE WITH
36° 13'38" SKEW RIGHT FORWARD,
32'-0" CLEAR ROADWAY AND CONCRETE
RAIL (TR4) AT CL SURVEY STA. 109+45.78

STA. 101+00.00 BEGIN CONSTRUCTION

PVI 101+00.00 Elev= 1154.24

PVC 101+50.00 Elev= 1155.43

350' V.C.
K= 102.29

PVT 105+00.00 Elev= 1169.76

PVI 103+25.00 Elev= 1159.60

2.38%

5.80%

FINISH GRADE

IDENTICAL POINTS

SP. DITCH RT.

SP. DITCH LT.

130 STA. 102+50.00 ℄ SURVEY US 81, ON ℄
CONST. 30" X 107' LG. RCP
55' LG. LT. & 52' LG. RT.
℄ LT.= 1148.75, ℄ RT.= 1149.40

129 STA. 105+00.00 ℄ SURVEY US 81, ON ℄
CONST. 30" X 200.56' LG. RCP
113.18'LG. LT. & 87.27'LG. RT.
℄ LT.= 1145.50, ℄ RT.= 1152.00

RT. ℄=1152.00

RT. ℄=1149.40

LT. ℄=1148.75

LT. ℄=1145.50

PVC 111+50.00 Elev= 1207.48

131 STA. 113+25.00 ℄ SURVEY US 81, ON ℄
CONST. 30" X 120' LG. RCP
59' LG. LT. & 61' LG. RT.
℄ LT.=1205.25, ℄ RT.=1205.75

EXIST. PROFILE

LT. ℄=1205.25

RT. ℄=1205.75

1000' V.C.
K= 119.23

| | | |

PROPOSED
R/W
AUGUST 2017

SEC. 6 T6N R7W

LIMITS OF NO ACCESS

+65.53
209.41'

STA. 115+65.53 TO
123+25.66 CONST. 760.13
L.F. TYPE WWF FENCE

+21.55
110'

+25.66
70'

STA. 123+25.66 TO
126+19.75 CONST.
294.09 L.F. TYPE SWF
(5WB) FENCE

CAUTION :
WATERLINE
OH POWER

33'

+00
105'

+78.03
50'

+86.75
50'

24.94'

STA. 113+95.69 TO
124+95.44 CONST.
1,099.75 L.F. TYPE
SWF (5WB) FENCE

MATCHLINE STA. 115+00

115+00

120+00

125+00

+50

TOC/TOS

BARBWIRE FN (4-W)

BARBWIRE FN (5-W)

UGND TEL (ATT/D)

℄ SURVEY COUNTRY CLUB RD.

3" WL (RWD 7)

OH ELEC (4-W) (AEP PSCO)

OH ELEC (4-W)

OH ELEC (1-W)

WM/BARBWIRE FN (2-W)

100' U/E

PRES.R/W

CHAIN LINK FN

OH ELEC (3-W)

WL (RWD 7)

OH TV (1-W)

30' U/E

OH ELEC (5-W)

6

5

2

+63.01
60.05'

+85.37
59.97'

+28.76
117.67'

+1.08
171.89'

+15.04
172.04'

+74.64
68.00'

+8.97
73.92'

+49.93
44.87'

+75.83
47.15'

SEC. 7 T6N R7W

NOTE:
ALL BENCHMARKS, UTILITY, PRES.
R/W AND R/W DIMENSIONS SHOWN
ARE FROM THE ℄ COUNTRY CLUB RD.

HOR 0 50' 100'
VER 0 5' 10'

PVI 116+50.00
Elev= 1236.50

EXIST.
PROFILE

5.80%

FINISH
GRADE

HIGH PT. 118+42.01
EL=1227.56

-2.58%

PVI 123+00.00
Elev= 1219.71

PVT 121+50.00
Elev= 1223.58

1000' V.C.
K= 119.23

STA. 123+00.00
END CONSTRUCTION

E.G.=	1230.42	1233.98	1232.93	1235.11	1234.84	1236.02	1236.12	1236.73	1236.34	1237.21	1235.87	1237.49	1235.16	1237.56	1234.02	1237.42	1232.56	1237.07	1230.73	1236.52	1229.17	1235.78	1227.38	1224.77	1225.78	1223.58	1221.22	1222.28	1222.88	1221.00	1221.11	1219.71	1218.38	1217.22	1216.22	1215.33	1214.65	1213.86

115+00 116+00 117+00 118+00 119+00 120+00 121+00 122+00 123+00 124+00 125+00 126+00 127+00

1245 1240 1235 1230 1225 1220 1215 1210 1205 1200

COUNTRY CLUB ROAD

State Job No. 24428(04) Sheet No. R116

PROPOSED
R/W
AUGUST 2017

LIMITS OF NO ACCESS

115+00

120+00

PI 1252+62.91

PI 1352+42.73

SEC. 30 T7N R7W

PC 1351+40.07

PC 1251+44.77

340+00

+73.78
16.50'

1304.76'

℄ SURVEY

℄ SURVEY GRAND AVE.

STATUTORY R/W

1250+00

POB 1250+00.00

1316+66 1350+00

POB 1316+65.91

POB 1350+00.00

PRES. R/W

+79.15
16.50'

+78.30
16.50'

1304.75'

+71.81
50'

0 50' 100'
HOR
0 5' 10'
VER

LIMITS OF NO ACCESS

LIMITS OF NO ACCESS

1315+00

SEC. 36 T7N R8W

SEC. 31 T7N R7W

PT 1315+12.70

1315+00

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY GRAND AVE.

300' V.C.
K= 101.74

EXIST. PROFILE

PVI 115+00.00
Elev= 1142.34

PVC 115+17.95
Elev= 1141.70

PVI 116+67.95
Elev= 1136.42

PVI 118+17.95
Elev= 1135.56

FINISH GRADE

-0.58%

PVI 124+00.00
Elev= 1132.21

STA. 115+50.00
BEGIN OVERLAY

STA. 123+55.00
END OVERLAY

1160
1155
1150
1145
1140
1135
1130
1125
1120
1115

115+00 116+00 117+00 118+00 119+00 120+00 121+00 122+00 123+00 124+00

GRAND AVENUE

State Job No. 24428(04) Sheet No. R117

PROPOSED
R/W
AUGUST 2017

SEC. 25 T7N R8W

SEC. 30 T7N R7W

SEC. 36 T7N R8W

SEC. 31 T7N R7W

1805+00

1810+00

105+00

110+00

1815+00

115+00

LIMITS OF NO ACCESS

LIMITS OF NO ACCESS

LIMITS OF NO ACCESS

LIMITS OF ACCESS TO COUNTY ROAD ONLY

CHICKASHA CITY LIMITS

PRES. R/W

℄ SURVEY US-81

℄ SURVEY IDAHO AVE.

℄ IDAHO AVE.

STATUTORY R/W

TOC/TOS

TUC

BRIDGE 'O'

STA. 105+50 TO 108+86.47 CONST. 336.47 L.F. TYPE SWF (5BW) FENCE

+50 16.50'

+00 66.50'

+86.47 66.50'

STA. 105+50 TO 108+85.11 CONST. 308.11 L.F. TYPE SWF (5BW) FENCE

+50 16.50'

+00 66.50'

+85.11 66.50'

STA. 114+52.92 TO 117+33.87 CONST. 280.95 L.F. TYPE SWF (5BW) FENCE

+52.92 70'

70.05'

STA. 114+00 TO 118+82.46 CONST. 482.46L.F. TYPE SWF (5BW) FENCE

+00 60'

+00 60'

48.97'

16.51'

136.15'

+00 198.18'

1304.27'

829.84'

38'

33'

390+00

0 50' 100'
HOR
0 5' 10'
VER

BEG BRIDGE STA. = 1810+07.39
F.G. ELEV.= 1180.32

BRIDGE 'O' LENGTH = 299' - 6½"

END BRIDGE STA. = 1813+06.93
F.G. ELEV.= 1178.52

PROPOSED BRIDGE 'O':
FOUR SPAN (41'-105'-105'-48')
P.C. BEAM BRIDGE WITH
12°22'22" SKEW LEFT FORWARD,
32'-0" CLEAR ROADWAY AND CONCRETE
RAIL (TR4) AT CRL SURVEY STA. 1811+57.16

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY NEAREST ALIGNMENT

100' V.C.
K= 147.06

PVI 1807+00.00
Elev= 1183.81

PVI 1809+00.00
Elev= 1181.56

PVC 1809+50.00
Elev= 1180.93

PVT 1810+50.00
Elev= 1180.01

PVI 1810+00.00
Elev= 1180.39

PVI 1814+00.00
Elev= 1177.98

PVI 1816+00.00
Elev= 1176.71

-1.13%

-1.26%

-0.58%

-0.63%

FINISH GRADE

EXIST. PROFILE

STA. 107+00.00
BEGIN CONSTRUCTION

STA. 1816+00.00
END CONSTRUCTION

1195
1190
1185
1180
1175
1170
1165
1160
1155
1150

1808+00
1809+00
1810+00
1811+00
1812+00
1813+00
1814+00
1815+00

IDAHO AVENUE

State Job No. 24428(04)

Sheet No. R118

PROPOSED
R/W
AUGUST 2017

SEC. 31 T7N R7W

℄ SURVEY US 81

BARBWIRE FN (5-W)

DIRT

BARBWIRE FN (5-W)

2637.62'
N.00°00'34.84"W

TEMP. 39° F

DIRT

OH ELEC (2-W)

OH ELEC (3-W)

CAUTION :
GAS

+00
225'

305+00

STA. 300+00.00 TO
327+37.08 CONST.
2,737.08 L.F. TYPE
WWF FENCE

310+00

CAUTION :
OH POWER

GRASS

+69.03
186.88'

UGND G LN
(DCP MIDSTREAM)

UGND G LN
(DCP MIDSTREAM)

SHRUBS

TOC/TOS

TOC/TOS

TOC/TOS

STA. 365+51.92 TO
393+14.06 CONST. TEMP.
R/W FENCE

MATCHLINE STA. 315+00

LIMITS OF ACCESS TO
COUNTY ROAD ONLY

+74.76
375'

33' U/E

33' U/E

0 50' 100'
HOR

0 5' 10'
VER

SEC. 31 T7N R7W

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

1190
1185
1180
1175
1170
1165
1160
1155
1150

STA. 300+41.76
BEGIN CONSTRUCTION

PVI 300+41.76
Elev= 1166.63

PVI 300+57.76
Elev= 1166.50

0.83%

-2.41%

PVC 301+37.50
Elev= 1164.58

325' V.C.
K= 52.70

LOW PT. 302+64.51
EL=1163.05

EXIST. PROFILE

FINISH GRADE

PVT 304+62.50
Elev= 1166.77

3.76%

PVI 303+00.00
Elev= 1160.66

PVC 305+25.00
Elev= 1169.12

250' V.C.
K= 40.05

PVI 306+50.00
Elev= 1173.81

HIGH PT. 306+75.46
EL=1171.94

PVT 307+75.00
Elev= 1170.70

-2.49%

PVC 308+25.00
Elev= 1169.46

350' V.C.
K= 56.38

LOW PT. 309+65.15
EL=1167.72

PVI 310+00.00
Elev= 1165.11

PVT 311+75.00
Elev= 1171.63

3.72%

EXIST. PROFILE

FINISH GRADE

PVC 312+50.00
Elev= 1174.42

HIGH PT. 313+81.81
EL=1176.87

300' V.C.
K= 35.41

PVI 314+00.00
Elev= 1180.00

300+00 301+00 302+00 303+00 304+00 305+00 306+00 307+00 308+00 309+00 310+00 311+00 312+00 313+00 314+00 315+00

COUNTY ROAD

State Job No. 24428(04) Sheet No. R119

PROPOSED
R/W
AUGUST 2017

℄ SURVEY US 81

SEC. 31 T7N R7W

GRASS

147

669.41'

659.42'

33'

+30.56
170.70'

+81.79
160'

STA. 300+00.00 TO
327+37.08 CONST.
2,737.08 L.F. TYPE
WWF FENCE

300+00

TOC/TOS

+83.13
253.65'

+32.26
274.77'

LIMITS OF NO ACCESS

PASTURE

8" DIA. STL POST

BARBWIRE FN (3-W)

OH ELEC (3-W)

COMMISSIONERS LAND OFFICE
(Book & Page Not Found)

+00
74.91'

STA. 365+51.92 TO
393+14.06 CONST. TEMP
R/W FENCE

646.62'

+31.23
99.62'

MATCHLINE STA. 315+00

6" TO 18" DECIDUOUS

LIMITS OF ACCESS TO
COUNTY ROAD ONLY

N 89°55'19" E

CAUTION :
WATERLINE
TUG
OH POWER

ASPHALT

BARBWIRE FN (5-W)

12' WIDE GRAVEL ROAD

UGND TEL/ATT/DTE

100.09'

+00
120.39'

TO 6" CONIFEROUS

NO TYPE TWO WIRE POLE

N00°02'08"W
330.03'

NOTE:
ALL BENCHMARKS, UTILITY, PRES.
R/W AND R/W DIMENSIONS SHOWN
ARE FROM THE ℄ SURVEY U.S. 81.

HOR 0 50' 100'
VER 0 5' 10'

300' V.C.
K= 49.82

175' V.C.
K= 53.43

200' V.C.
K= 37.68

L= 300.00'
K= 35.41

LOW PT. 317+86.62
EL=1167.26

PVI 317+00.00
Elev= 1165.75

PVT 318+50.00
Elev= 1167.66

PVC 318+69.80
Elev= 1167.91

2.7%

PVI 319+57.30
Elev= 1169.02

EXIST. PROFILE

PVT 320+44.80
Elev= 1173.00

4.55%

PVC 320+93.03
Elev= 1175.20

PVI 321+93.03
Elev= 1179.75

HIGH PT. 322+64.39
EL=1179.09

PVT 322+93.03
Elev= 1178.99

FINISH GRADE

-0.76%

PVI 327+42.02
Elev= 1175.57

STA. 327+42.02
END CONSTRUCTION

1195 1190 1185 1180 1175 1170 1165 1160 1155 1150

315+00 316+00 317+00 318+00 319+00 320+00 321+00 322+00 323+00 324+00 325+00 326+00 327+00 328+00

COUNTY ROAD

State Job No. 24428(04) Sheet No. R120

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PROPOSED
R/W
AUGUST 2017

SEC. 30, T7N R7W

SEC. 25, T7N R8W

0 50' 100'

Arkansas Louisiana Gas Co.
40' Pipeline Easement
Rec'd. Bk. 871, Pg. 443
Filed February 16, 1970

1325.53'
1325.54'

35'

STATUTORY R/W

265.08'
N 00°04'25.51" W

STATUTORY R/W

NS -281

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, ARE FROM THE ℄ SURVEY US-81. R/W DIMENSIONS SHOWN ARE FROM IOWA AVE CRL.

IOWA AVE CRL

POB-STA. 105+00

S 89°56'33.60" W
2602.91'

4" HP G LN (ENABLE)

EW 135.5' /SSC LINE

STA. 32+01.33 TO STA. 38+21.28
CONST. FENCE STYLE SWF (5BW)

Reliance Pipeline Co.
50' Pipeline Easement
(NW/4, SW/4 SEC 30
Obscure Description)
Rec'd. Bk. 1651, Pg. 342
Filed January 21, 1986

CENTERPOINT ENERGY GAS TRANS

Arkansas Louisiana Gas Co.
40' Pipeline Easement
Rec'd. Bk. 871, Pg. 441
Filed February 16, 1970

LIMITS OF NO ACCESS

105+00

35+00

39+00

+01.33
50'

+00
80'

+21.28
90.40'

+80
460' (US-81)

CAUTION:
GAS LINE

+50
60'

+00.70
70'

+00
70'

342.05'
S 00°00'00" W

1048.13'
S 47°30'12.04" E

PT-STA. 36+95.21

TOC/TOS

R/W

(156)

+36.17
84.13'

+26
465' (US-81)

STA. 32+00.70 TO STA. 38+36.17
CONST. FENCE STYLE SWF (5BW)

LIMITS OF NO ACCESS

4" TO 36" DECIDUOUS/CONIFEROUS

6" DIA. STL POST

BARBWIRE FN. (E.W.)

OHTELEC (E.W.)

UGNTEL (ATT)

L WE =100.02'
TEMP =36° F

BM #69 252.44' LT OF A016
SET 3/4" I.P. (30" LONG)
STA. 104+40.34 ELEV.=1164.72

STA. 31+88.60
BEGIN CONST. IOWA AVE
X=1972565.4494
Y=825237.3630

PVI-STA. 31+88.60
ELEV.= 1143.21

LOW-STA. 32+00.00
ELEV.= 1143.21

200' V.C.
K = 60

EXISTIING PROFILE

EX. GAS LINE (4")

FINISH GRADE

3.347%

0.000%

(156) STA. 32+24.00
CONST. 24'X76' LG CGSP
W/TYPE B4 CET'S (RSNG)
FL LT = 1139.10
FL RT = 1137.21

EX. TELEPHONE UNDERGROUND

PVC-STA. 32+00.00
ELEV.= 1143.21

PVI-STA. 33+00.00
ELEV.= 1143.21

PVT-STA. 34+00.00
ELEV.= 1146.55

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8/27/2017

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PROPOSED
R/W
AUGUST 2017

℄ SURVEY US-81

℄ RAMP X

℄ RAMP W

℄ RAMP Z

℄ RAMP Y

MATCHLINE STA. 39+00

MATCHLINE STA. 54+00

40+00

45+00

50+00

410+00

415+00

CHICKASHA CITY LIMITS

BRIDGE P

151

152

IOWA AVE CRL

S 47°30'12.04" E
1048.13'

POE-STA. 413+29.39 RAMP W
= POB-STA. 410+71.83 RAMP X
= STA. 39+29.36 IOWA AVE.

POE-STA. 414+78.40 RAMP Y
= BOP-STA. 412+31.00 RAMP Z
= STA. 45+71.36 IOWA AVE.

STA. 113+48.99 ℄ 4"HP GAS LINE CROSSING (ENABLE)

CAUTION:
GAS LINE

Arkansas Louisiana Gas Co.
40' Pipeline Easement
Rec'd Bk. 871, Pg. 441
Filed February 16, 1970

4"HP GAS LINE (ABD.)

EX. GAS LINE

EX. 4"G GAS LINE

EX. 6"W WATER LINE

EX. 4"W WATER LINE

EX. 8"S SEWER LINE

EX. 12"S SEWER LINE

EX. 24"S SEWER LINE

EX. 4"T TELEPHONE LINE

EX. OHP

EX. 4"W WATER LINE

POE-STA. 47+43.34

PT-STA. 51+32.27

N 89°42'54.91" E
1166.24'

LIMITS OF NO ACCESS

LIMITS OF NO ACCESS

STA. 47+30.99 TO STA. 60+20.00
CONST. FENCE STYLE SWF (5BW)

STA. 47+50.31 TO STA. 60+28.49
CONST. FENCE STYLE SWF (5BW)

0 50' 100'

+75
430' (US-81)

+30.99
66.55'

+50.31
88.27'

+00
450' (US-81)

+50
60'

+40

+00
60'

TOC/TOS

R/W

40' TEMP R/W
FOR DRIVE

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, ARE FROM THE ℄ SURVEY US-81. R/W DIMENSIONS SHOWN ARE FROM IOWA AVE CRL.

SEC. 30, T7N R7W

BM #70 219.14' LT OF A016
SET 3/4" I.P. (30" LONG) - 1" UNDERGROUND
STA. 120+72.88 ELEV. = 1160.79

PVI-STA.42+50.00
ELEV.= 1175.00

PVT-STA.44+00.00
ELEV.= 1172.95

BEG BRIDGE STA. 41+55.09
F.G. ELEV.= 1171.59

BRIDGE LENGTH = 290'-6"

END BRIDGE STA. 44+45.59
F.G. ELEV.= 1172.33

3.347%

EXISTING PROFILE

FINISH GRADE

300' V.C.
K = 64

PVC-STA.41+00.00
ELEV.= 169.98

HI-STA.43+13.13
ELEV.= 1173.55

-1.364%

-1.80% RT.

48+00.00
℄ RT.= 1166.83

48+60.00
℄ RT.= 1165.75

SP. DITCH RT.

EXISTING PROFILE

FINISH GRADE

-1.020%

-1.48% RT.

-1.020%

PVI-STA.52+00.00
ELEV.= 1162.04

53+40.00
℄ RT.= 1158.66

BRIDGE "P" ℄ BRIDGE STA. 43+00.34
CONST. 50.25' (TYPE III), 2-95' (TYPE IV), 50.25' (TYPE III) PC BEAM SPANS
WITH INTEGRAL ABUTMENTS X 32' CLR. RDY W/ TR-4

151 US81 STA 412+03.25
CONST. 36"X128' RCP
W/TYPE D6 CET'S 117.50' LT
FL S = 1144.70 FL N = 1143.99

152 US81 STA 412+03.00
CONST. 36"X148' RCP
W/TYPE D6 CET'S 108.58' RT
FL S = 1139.65 FL N = 1138.98

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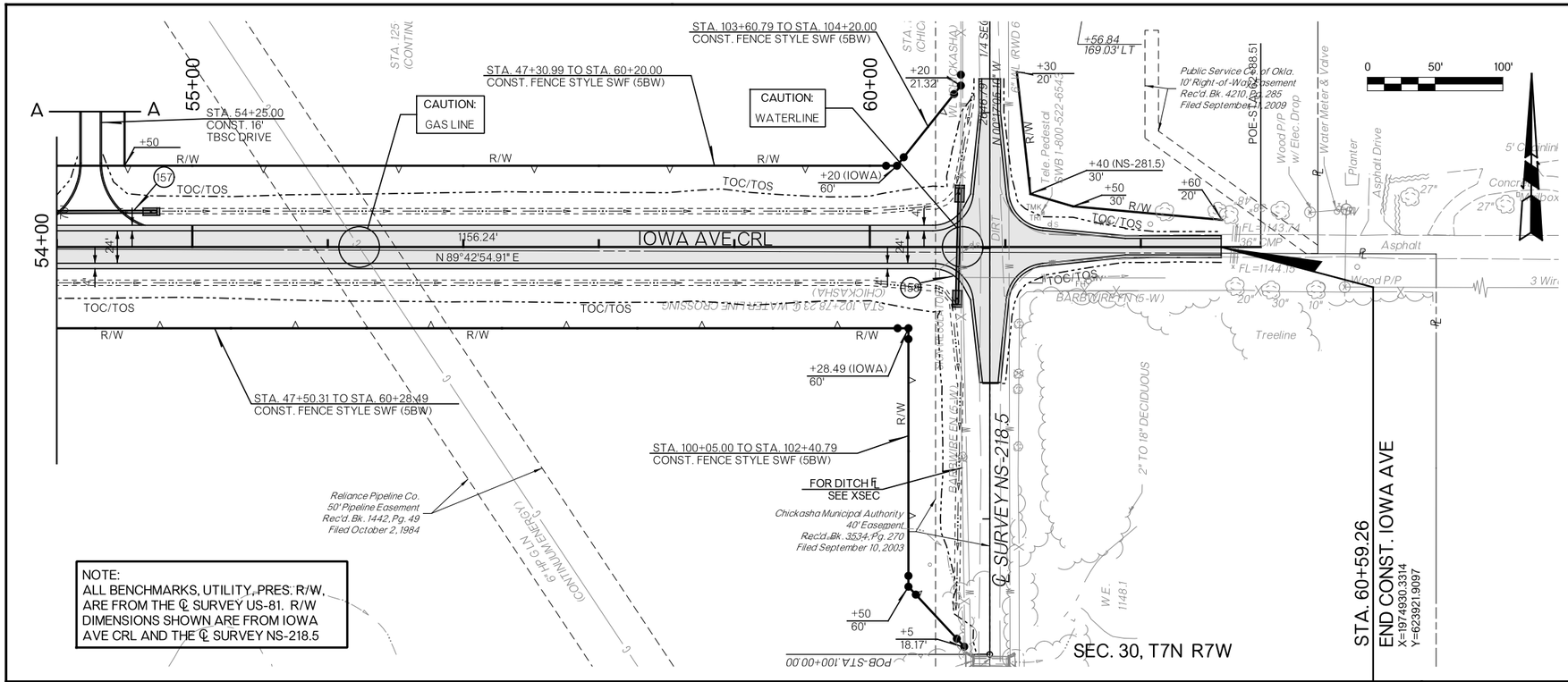
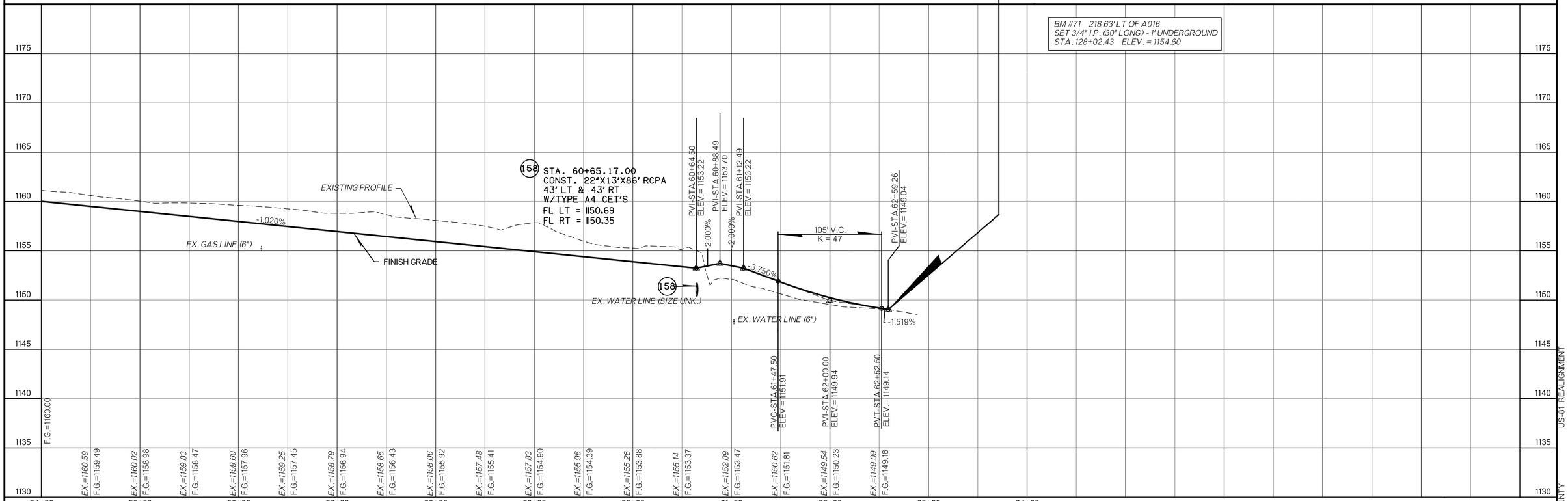
PROPOSED R/W
AUGUST 2017





NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, ARE FROM THE ℄ SURVEY US-81. R/W DIMENSIONS SHOWN ARE FROM IOWA AVE CRL AND THE ℄ SURVEY NS-218.5

SEC. 30, T7N R7W

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. R123

PROPOSED
R/W
AUGUST 2017

SEC. 20, T7N R7W

STA. 401+74.63
BEGIN CONST.

STA. 409+28.16
END CONST.

℄ RAMP BB

℄ RAMP AA

℄ RAMP DD

℄ RAMP CC

℄ SURVEY US-81

℄ SURVEY US-62

BRIDGE 'W'

BRIDGE 'X'

US-62

LIMITS OF NO ACCESS

PRES. R/W

TOC/TOS

SS MH
TOP=1100.76
12"RCP
W=1092.75
E=1092.75

SS MH
TOP=1100.31
12"RCP
W=1091.95
E=1091.86

SS MH
TOP=1099.74
12"RCP
N=1091.17
E=1091.45
S=1091.96

SS MH
TOP=1100.09
12"RCP
W=1090.59
E=1090.60

SS MH
TOP=1100.92
12"RCP
W=1089.42
E=1089.46

SS MH
TOP=1100.77
12"RCP
W=1089.37
E=1089.34

SS CO
TOP=1100.37

FTS CO. SIGN

ELECT VAULT

BRASS CAP
(ODOT BM,
STAMPED EL=1101.21,
(NOT NAMED)

HDWL

REFLECTOR POST
EXPOSED TOP
OF PIPE EL=1106.0

TRAFFIC SIGNAL W/LP

TRAFFIC CONTROL BOX

CONTROL CABINET

FND BRASS CAP
(NO INFO. ON CAP)

GPI

GRASS

DIRT

CHAIN LINK SECURITY FN

8" TO 24" DECIDUOUS

4" TO 12" DECIDUOUS

+61.26
641.29' LT

SAW CUT

ASPHALT

12" RCP

36" RCP
FL N=1096.70
FL S=1096.29

36" RCP
FL N=1096.46
FL S=1096.42

36" RCP
FL N=1096.42
FL S=1096.02

STA. 401+25.20 OFFSET 0.46 LT ℄ GPI 3.9"x3.9" RDY.
TOP=1100.34 (GROWING TREE FND IN INLET)
36"X75.55 RCP RT
FL ELEV. N=1096.70 & FL ELEV. S=1096.29
36"X75.34 RCP LT
FL ELEV. N=1097.32 & FL ELEV. S=1096.70

STA. 409+70.68 ℄ GPI 3.8"x3.8" RDY.
TOP=1100.63
36"X75.01" RCP RT
FL ELEV. N=1096.46 & FL ELEV. S=1096.02
36"X75.46" RCP LT
FL ELEV. N=1096.46 & FL ELEV. S=1096.42

L.W.E.=1128.24
TEMP.=63° F

L.W.E.=1127.32
TEMP.=63° F

L.W.E.=1127.43
TEMP.=63° F

L.W.E.=1124.91
TEMP.=63° F

L.W.E.=1128.93
TEMP.=63° F

LOW WIRE
ELEV=1129.06

LOW WIRE
ELEV=1122.49

STA. 404+31.81 ℄ 4-WIRE O.H. CROSSING
L.W.E.=1124.21
(AEP PSCO)

STA. 494+23.06 ℄ GAS LINE CROSSING

STA. 490+23.08 ℄ 12"X432 80' RDY.
(ATT/DOBSON)

STA. 487+22.55 ℄ POWER UGND CROSSING

STA. 485+59.41 ℄ FIBER OPTICS CROSSING
(DOBSON)

STA. 482+02.50 ℄ FIBER OPTICS CROSSING
(WL / CHICKASHA)

STA. 479+02.45 ℄ WATER LINE CROSSING

398+00

400+00

405+00

410+00

412+00

490+00

485+00

15+00

0 50' 100'

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W,
AND R/W DIMENSIONS SHOWN ARE FROM
THE ℄ SURVEY US-81 OR THE ℄ SURVEY US-62

PLAN
US-81 REALIGNMENT
US-62

State Job No. 24428(04) Sheet No. R124

US-81 REALIGNMENT
GRADY COUNTY

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PROPOSED R/W

AUGUST 2017

NOTE:
ALL BENCHMARKS, UTILITY, AND PRES. R/W, ARE FROM THE ℄ SURVEY US-81. R/W DIMENSIONS SHOWN ARE FROM THE CRL CO. RD. EW-135.5 UNLESS OTHERWISE LABELED.

554' TEMP. R/W FOR DRIVE

0 50' 100'

POE-STA. 26+27.78

STA. 25+77.00
CONST. 16'
TBSC DRIVE

STA. 24+85.00
CONST. 16'
TBSC DRIVE

STA. 12+15.00 TO STA. 24+55.47
CONST. FENCE STYLE SWF (5BW)

CRL CO.RD. EW-135.5

CHICKASHA CITY LIMITS

PC-STA. 13+91.45
N00°17'07"W
295.00'

PT-STA. 14+49.54

PC-STA. 16+73.63

PT-STA. 17+90.07

PC-STA. 22+66.07

PT-STA. 24+65.69

224.09'
N 60°29'47.76" E

476.01'
N 73°30'03.51" E

2602.91'
S 89°57'33.60" W

EW-135.5

1/4 SEC. LINE

Reliance Pipeline Co.
20' Pipeline Easement
Rec'd. Bk. 1442, Pg. 62
Filed October 2, 1984

Chickasha Municipal Authority
40' Easement
Rec'd. Bk. 3539, Pg. 151
Filed November 19, 2003

STA. 426+40
4" HP GAS LIN
(CONTINUUM E

STA. 4
TELEPH
(ATTID)

STA. 424+04.54 ℄
4" HP GAS LINE CROSSING
(CONTINUUM ENERGY)

STA. 431+52 ℄
WATER LINE CROSSING
(CHICKASHA)
STA. 431+71.22 ℄
6" WATER LINE CROSSING
(R/WD 6-1-2017)

8" TO 12" CONIFEROUS

BARBWIRE FN (5-W)

WIRE MESH FN

BLDG

CULTIVATION

FENCE

RIP-RAP

GAS VALVE

CATTLE SHUTE

℄ RAMP X

TOC/TOS

R/W

CR-1

CR-2

CR-3

+15 15.84'

+55 40'

+25 40'

+50 40'

+00 40'

+50 40'

+50 40'

+50 US-81 215'

+00 US-81 220'

+50 US-81 165'

+10

+40

+27.26 20.63'

165

168

15+00

20+00

25+00

STA. 11+96.45
BEGIN CONST.
COUNTY RD
EW-135.5
X=1973627.5973
Y=625247.6672

PVI-STA.11+96.45
ELEV.= 1168.62

EXISTING PROFILE

FINISH GRADE

-0.650%

-0.400%

3.820%

-1.474%

2.067%

100' V.C.
K = 400

150' V.C.
K = 44

100' V.C.
K = 43

100' V.C.
K = 169

PVC-STA.15+25.00
ELEV.= 1166.48

PVI-STA.15+75.00
ELEV.= 1166.16

PVT-STA.16+25.00
ELEV.= 1165.96

PVC-STA.17+25.00
ELEV.= 1165.56

PVI-STA.18+00.00
ELEV.= 1165.26

PVT-STA.18+75.00
ELEV.= 1162.39

PVC-STA.20+50.00
ELEV.= 1155.71

PVI-STA.21+00.00
ELEV.= 1153.80

PVT-STA.21+50.00
ELEV.= 1153.06

PVC-STA.24+15.70
ELEV.= 1149.15

PVI-STA.24+65.70
ELEV.= 1148.41

PVT-STA.25+15.70
ELEV.= 1147.38

PVI-STA.25+40.69
ELEV.= 1146.86

165 STA. 22+17.00
CONST. 18"X48' LG RCP W/PCES'S
SKEWED 60° LF 25.5' LT & 22.5' RT
MSRD ALONG SKEW
FL LT = 1147.47 FL RT = 1148.64

STA. 25+40.69
END CONST. COUNTY RD.
EW-135.5
X=1974743.2155
Y=625800.4220

| | | |

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PROPOSED R/W

AUGUST 2017

0 50' 100'

435.43'
219.89'
PRES. R/W
128.77'
390+00
395+00
400+00
150'
UGND FO (ATT/D)
UGND FO (DOBSON)
OH ELEC (4-W)
BOLLARDS
12" RCP
Southwestern Bell Telephone Co.
16.5 Right-of-Way Easement
Bk. 664, Pg. 142
Filed 08/12/1958
UGND ELEC (AEP PSCO)
ASPHALT
WL (Chickasha)
GPI
TOP=1102.78
POB-STA. 10+00.00 DRIVE
= STA. 394+76.85 US-62
℄ SURVEY US-62
1996.62'
S 58°38'22.71" E
12"
4"
SSMH
SS CAP
(ODOT BM, STAMPED EL=1101.21, (NOT NAMED))
HDWL
REFLECTOR POST
EXPOSED TOP
36" RCP
FLN=1097.32
FLS=1096.70
FLN=1096.70
FLS=1096.23
(GROWING TREE FND IN INLET)
162
169
167
18" RCP
FLN=1099.17
FLS=1098.66
State of Oklahoma
Report of Commissioners
Bk. 842, Pg. 240
Filed 09/27/1968
SIGNAL BOX
SLOPED CONC END SECT
396+00 (US-62)
15+00
LIMITS OF NO ACCESS
PC-STA. 10+95.00
CHAIN LINK SECURITY FN
BILLBOARD
TOC/TOS
428.62'
393.75'
S 58°38'22.71" E
PRES. R/W
DIRT
GRASS
+00 150'
+00 210'
R/W
173.68'
279.39'
114.98'
4" TO 24" DECIDUOUS
8" TO 24" DECIDUOUS
POWER POLE
BLDG
CONCRETE
GRAVEL
CMP ELLIPTICAL PIPE (29"X19")
Ken D. Ledford and Leeva Ann Ledford
Warranty Deed
Rec'd. Bk. 4385, Pg. 576
Filed: January 4, 2011
PT-STA. 12+12.81
60' TEMP. R/W FOR DRIVE
PC-STA. 16+06.56
PT-STA. 17+35.58
POE-STA. 18+11.82
OH ELEC (1-W)
RAMP AA
L.W.E.=1
TEMP.
NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US-62.

STA. 10+45.15
BEGIN CONST.
X=1978153.3239
Y=628981.7951

STA. 15+95.96
END CONST.
X=1978483.0187
Y=628634.8513

PVI-STA 10+45.15
ELEV.=1104.25

PVI-STA 14+50.00
ELEV.=1102.23

PVI-STA 15+95.96
ELEV.=1100.16

167 STA. 10+88.00
CONST. 22"X13"X58' RCPA
W/A4 CET'S (A$NG)

FINISH GRADE

-0.500%

-1.418%

EXISTING PROFILE

	10+00	11+00	12+00	13+00	14+00	15+00	16+00	17+00	18+00
EX.	1104.13	1100.65	1100.63	1100.30	1100.36	1100.35	1100.22	1100.31	1100.53	1100.27	1100.17	1099.91	1099.65	1099.15	1098.45	1098.08
F.G.	1104.23	1103.98	1103.73	1103.48	1103.23	1102.98	1102.73	1102.48	1102.23	1101.52	1100.81					

DRIVEWAY FROM US-62

State Job No. 24428(04) Sheet No. R126

GRADY COUNTY US-81 REALIGNMENT

PROPOSED
R/W
AUGUST 2017

SEC. 20 T6N R7W

TOC/TOS
10' U/E
ENABLE
+75
290'
R/W
GRASS
58
130+00
CRL FRONTAGE RD
PRES. R/W
FBRGLSTN
WWF W/2-BW
CAUTION :
GAS
STA. 114+04 TO 132+19
CONST. 1800 L.F.
TYPE WWF FENCE
ASPHALT
PC=130+50.00
℄ RAMP A
N07°03'59.86"W
12'
10'
℄ SURVEY US 81
4
5
2652.10'
N00°03'10.78"W
NS 283
0 50' 100'
+41.41-TP 198.8' LT.
+51.01-SIGN 3.9' LT.
+54.84-SIGN 176.7' LT.
+61.71-GM 35.2' LT.
+76.88-GM 180.8' LT.
+89.08-SIGN 33.9' RT.
+92.40-TP 197.7' LT.
+53.27-SIGN 75.6' RT.
+45.69-SIGN 130.2' RT.
CONCRETE
ASPHALT
BM#11
NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W
AND R/W DIMENSIONS SHOWN ARE FROM
THE ℄ SURVEY U.S. 81.
NINNEKAH CITY LIMITS
SEC. 21 T6N R7W
STA. 132+50.00 TO 140+01.76
CONST. 720 L.F.
TYPE WWF FENCE
135+00
140+00
CAUTION :
TUG
AT&T
CONST. GUARDRAIL
6
7
℄ SURVEY US 81

BM#213 - N.W. COR. W. CONC. HDWL.
CGMP CROSS DRAIN
℄ SURVEY U.S. 81
STA. 127+52.29, 176.47' LT.
ELEV. =1197.379

BM#11 - 100D NAIL SET
S.W. FACE 8" ELM
℄ SURVEY U.S. 81
STA. 134+50.38, 58.92' RT.
ELEV. =1183.356

VARIABLE GRADE

4 STA. 130+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 168 LF 18" RCP INTO DITCH RT. W/ CET
TG=1210.60, FL=1195.60, DS FL=1185.07

5 STA. 132+00 ℄ SURVEY US 81, ON ℄
CONST. 36"X334' LG. RCP
168' LG. LT. & 166' LG. RT. W/ CETS
FL LT.=1183.17, FL RT.=1182.02

6 STA. 138+00 ℄ SURVEY US 81, ON ℄
CONST. 10'X4'X327' LG. RCB
165' LG. LT. & 162' LG. RT. W/ STD. 0°
END SECTS. & 4' CURTAIN WALLS
FL LT.=1170.00, FL RT.=1169.03

7 STA. 138+50 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 44 LF 18" RCP INTO STR. 6
TG=1197.53, FL=1177.53, DS FL=1171.78

FINISH GRADE
-2.00%
IDENTICAL POINTS
BEGIN BRIDGE "A"
BRIDGE "A"
LENGTH=487'-7"
EXIST. PROFILE
-2.78%
SP. DITCH LT.
-2.27%
2.22%
STA. 127+53.04 - BEGIN CONSTRUCTION

EX.=1190.67 EX.=1189.03 EX.=1188.45 EX.=1188.10 EX.=1188.19 EX.=1188.00 EX.=1187.78 EX.=1189.28 EX.=1189.58 EX.=1188.85 EX.=1187.96 EX.=1189.02 EX.=1189.13 EX.=1188.28 EX.=1187.98 EX.=1188.32 EX.=1186.44 EX.=1184.94 EX.=1183.89 EX.=1181.84 EX.=1174.76 EX.=1169.09 EX.=1175.83 EX.=1180.41 EX.=1180.24

125+00 126+00 127+00 128+00 129+00 130+00 131+00 132+00 133+00 134+00 135+00 135+50 136+00 137+00 138+00 139+00 140+00

1220 1215 1210 1205 1200 1195 1190 1185 1180 1175 1165

RAMP A

State Job No. 24428(04) Sheet No. R127

US 81 REALIGNMENT
GRADY COUNTY

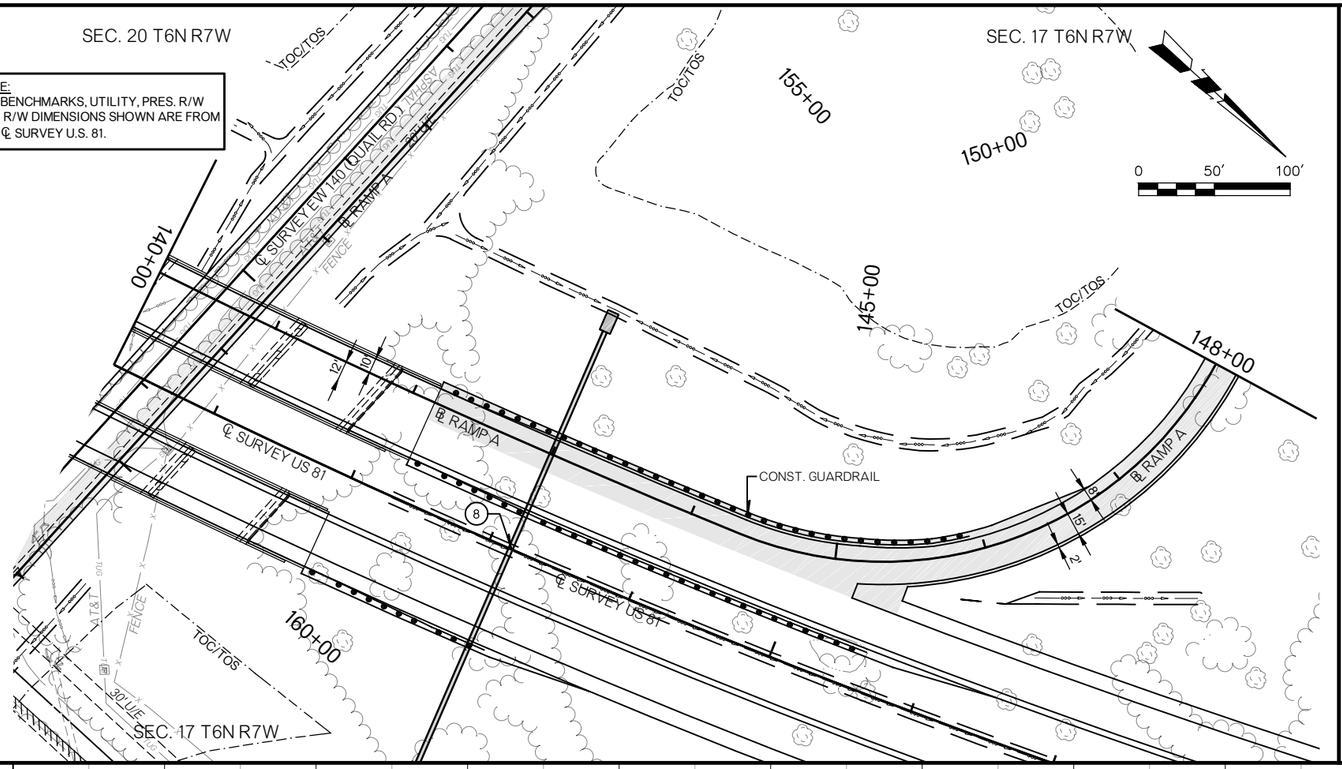
NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

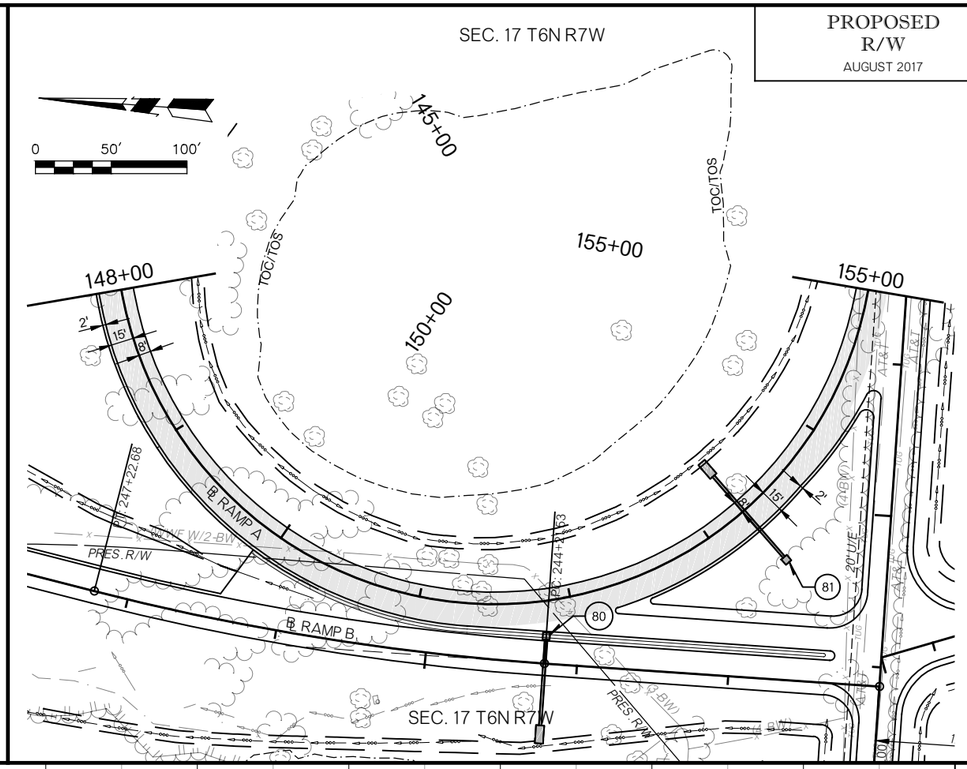
SEC. 20 T6N R7W

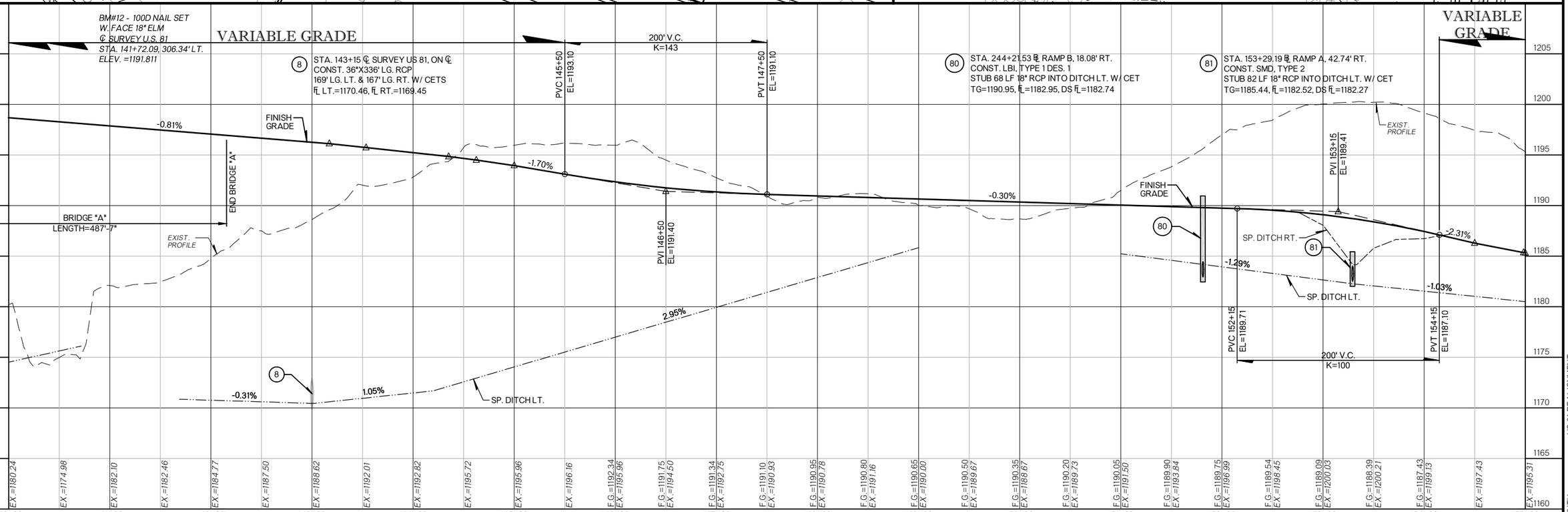
SEC. 17 T6N R7W

SEC. 17 T6N R7W

PROPOSED R/W
AUGUST 2017







RAMP A

State Job No. 24428(04) Sheet No. R128

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 17 T6N R7W

SEC. 16 T6N R7W

SEC. 20 T6N R7W

SEC. 21 T6N R7W

155+00

160+00

140+00

CAUTION
TUG

TOC/TOS

PT: 155+25.53

BM#12

Ⓟ RAMP A

Ⓟ RAMP D

CONST. RETAINING WALL

Ⓟ SURVEY EW 140 (QUAIL RD.)

Ⓟ SURVEY US 81

S87°54'31.14"E

STA. 111+83.73 Ⓟ 6'X4'X45.82' RDY.
SMB S.D. 'X' ING Ⓟ 22.81' RT. & 23.01' LT.
ft. ELEV. S=1165.72 RT. & ft. ELEV.N=1165.36 LT

PI: 161+00.00

CRL SURVEY NS 283 (16TH AVE.)

N 2863.46
N00°13'06.60"E

PRES. R/W

WWF W/3-BW

RWD T

AT&T

FENCE

ASPHALT

CONST. GUARDRAIL

STA. 35+50.00 TO 38+23.52'
CONST. 284 L.F.
TYPE WWF FENCE

+47.48 - TP 28.8' L.T.

+20.79 - TP 14.2' L.T.

+85 - SIGN 18.0' RT.
+52 - SIGN 21.8' RT.

+35.59 - SIGN 19.9' L.T.

+15.97 - SIGN 13.2' L.T.

+02.24 - GM 128.2' L.T.

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE Ⓟ SURVEY U.S. 81.

0 50' 100'

BM#12 - 100D NAIL SET
W. FACE 18"ELM
Ⓟ SURVEY U.S. 81
STA. 141+72.09, 306.34' LT.
ELEV. =1191.811

VARIABLE GRADE

62 STA. 45+07.66 Ⓟ SURVEY EW 140 (QUAIL RD.), ON Ⓟ
CONST. 10'X4'X73' LG. RCB
40.50' LG. LT. & 32.50' LG. RT. W/ STD. 0°
END SECTS. & 4' CURTAIN WALLS
ft. LT.=1162.84, ft. RT.=1163.06

EXIST. PROFILE

FINISH GRADE

-3.86%

1.78%

-1.63%

-1.09%

5.58%

SP. DITCH LT.

STA. 164+00.22 - END CONSTRUCTION

| | | |

PROPOSED
R/W
AUGUST 2017

SEC. 20 T6N R7W

SEC. 17 T6N R7W

0 50' 100'

242+00

245+00

250+00

253+00

150+00

PRES. R/W

20' U.E.

TOC/TOS

141+47.79
750'

144+53.42
755'

148+75
605'

152+00
380'

153+85.58
810'

R/W

LIMITS OF NO ACCESS

STA. 144+53 TO 153+85 US 81
CONST. 961 L.F.
TYPE SWF (5WB) FENCE

2-STORY ROCK HOUSE

CONC.

BM#13

℄ RAMP B
N00°09'15.57"W

℄ RAMP A

PC 244+21.53

PT 247+28.68

BC 249+78.78

℄ RAMP B
8'
15'
2'

63.74'
63.74'
57.47'

82.54'

(5-BW)

(4-BW)

WWF W/ (4-BW)

GRAVEL

CRL FRONTAGE RD.

℄ SURVEY E.W. 140 (QUAIL RD.)

S 89°50'44.43" W
265.37'

FENCE

80

81

10

11

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81

SEC. 20 T6N R7W

SEC. 17 T6N R7W

BM#13 - 100D NAIL SET N. FACE 24" COTTONWOOD
NEAR S.E. CORNER OF POND DAM
℄ SURVEY U.S. 81
STA. 151+40.21, 517.03' LT.
ELEV. =1173.321

200' V.C.
K=708

PVC 243+75
EL=1192.38

PVT 245+75
EL=1190.86

PVI 244+75
EL=1191.48

EXIST. PROFILE

80 STA. 244+21.53 ℄ RAMP B, 18.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 68 LF 18" RCP INTO DITCH LT. W/ CET
TG=1190.95, FL=1182.95, DS FL=1182.74

10 STA. 149+70 ℄ SURVEY US 81, 244.75' LT.
CONST. SMD, TYPE 2
STUB 122 LF 24" RCP INTO STR. 11
TG=1170.25, FL=1167.69, DS FL=1162.64

11 STA. 150+34 ℄ SURVEY US 81, ON ℄
CONST. 16'X6'X574' LG. RCB
SKEW 16° LT. FWD.
363' LG. LT. & 211' LG. RT. W/ STD. 0°
END SECTS. & 4' CURTAIN WALLS
FL LT.=1159.75, FL RT.=1155.98

-2.00%
-0.90%
-0.62%
-1.77%
-5.04%
-4.22%
-5.89%
-5.25%
-2.96%
3.01%
4.00%
3.32%

FINISH GRADE

SP. DITCH RT.

SP. DITCH LT.

SP. DITCH RT.

SP. DITCH LT.

EXIST. PROFILE

STA. 242+12.00 - BEGIN CONSTRUCTION

1200
1195
1190
1185
1180
1175
1170
1165
1160
1155

238+00	239+00	240+00	241+00	242+00	243+00	244+00	245+00	246+00	247+00	248+00	249+00	250+00	251+00	252+00	253+00
F.G.=1194.13	F.G.=1193.50	F.G.=1193.05	F.G.=1192.60	F.G.=1192.16	F.G.=1191.74	F.G.=1191.36	F.G.=1191.02	F.G.=1190.70	F.G.=1190.40	F.G.=1190.09	F.G.=1189.78	F.G.=1189.47	F.G.=1189.16	F.G.=1188.85	F.G.=1188.54	F.G.=1188.23	F.G.=1187.94	F.G.=1187.61	F.G.=1187.30	F.G.=1186.99	F.G.=1186.69	F.G.=1186.38
EX.=1200.96	*EX.=1203.17*	*EX.=1201.77*	*EX.=1199.61*	*EX.=1186.08*	*EX.=1182.54*	*EX.=1183.46*	*EX.=1186.64*	*EX.=1183.98*	*EX.=1182.45*	*EX.=1183.35*	*EX.=1169.80*	*EX.=1178.99*	*EX.=1174.77*	*EX.=1168.39*	*EX.=1164.43*	*EX.=1162.04*	*EX.=1161.38*	*EX.=1161.58*	*EX.=1168.40*	*EX.=1170.27*	*EX.=1173.12*	*EX.=1175.22*

RAMP B

State Job No. 24428(04) Sheet No. R130

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 17 T6N R7W

LIMITS OF NO ACCESS

0 50' 100'

+71.90
278'

BM#215

PRES. R/W

R/W

TOC/TOS

+00
195'

STA. 156+72 TO 194+42 US 81
CONST. 4,226 L.F.
TYPE SWF (6WB) FENCE

+50
225'

CAUTION
WATERLINE

CHICKASHA CITY LIMITS

℄ US 81 SB CD RD. 1

℄ RAMP B

POC 263+72.12

℄ US 81 NB CD RD. 1

℄ SURVEY US 81

℄ RAMP D

15' U/E

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

SEC. 07 T6N R7W

BM#215 - 80D SPIKE IN FENCE POST
℄ SURVEY U.S. 81
STA. 155+15.31, 300.60' LT.
ELEV. =1186.551

VARIABLE GRADE

-0.62%
1.69%
2.31%
1.44%

FINISH GRADE

SP. DITCH RT.

SP. DITCH LT.

EXIST. PROFILE

STA. 263+72.12 - END CONSTRUCTION

F.G.=1186.38 EX.=1175.22
F.G.=1186.07 EX.=1177.05
F.G.=1185.76 EX.=1178.41
F.G.=1185.45 EX.=1178.86
F.G.=1185.14 EX.=1180.17
EX.=1181.47
EX.=1180.59
EX.=1180.47
EX.=1181.09
EX.=1176.50
EX.=1178.46
EX.=1171.02
EX.=1170.60
EX.=1165.72
EX.=1171.22
EX.=1174.34
EX.=1172.06
EX.=1168.02
EX.=1175.35
EX.=1183.75
EX.=1190.93
EX.=1193.19

1200 1195 1190 1185 1180 1175 1170 1165 1160 1155

253+00 254+00 255+00 256+00 257+00 258+00 259+00 260+00 261+00 262+00 263+00 264+00 265+00 266+00 267+00 268+00

RAMP B

State Job No. 24428(04) Sheet No. R131

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 20 T6N R7W

SEC. 21 T6N R7W

CAUTION - OH POWER

CAUTION - WATER

STA. 100+75 TO 113+38 US 81
CONST. 1359 L.F.
TYPE WWF FENCE

BRIDGE "A"

BRIDGE "B"

℄ SURVEY US 81

℄ SURVEY NB US 81

℄ RAMP C
N00°45'00.04"E

EXISTING
LIMITS OF NO ACCESS

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

0 50′ 100′

BM#209- NGS MONUMENT "H-214"
ENCASED STEEL ROD W/ METAL LID
℄ SURVEY U.S. 81
STA. 102+78.31, 98.50' RT.
ELEV. =1193.770

BM#210- "X" ON CENTER W. HDWL.
RCB CROSS DRAIN
℄ SURVEY U.S. 81
STA. 108+67.70, 66.14' LT.
ELEV. =1196.144

① STA. 105+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 120 LF 18" RCP INTO DITCH RT. W/ CET
TG=1200.42, FL=1193.39, DS FL=1189.79

② STA. 108+50 ℄ SURVEY US 81, ON ℄
CONST. 4'X4'X258' LG. RCB
122' LG. LT. & 136' LG. RT. W/ STD. 0°
END SECTS. & 4' CURTAIN WALLS
FL LT.=1190.50, FL RT.=1188.80

STA. 96+88.43 - BEGIN CONSTRUCTION

FINISH GRADE

EXIST. PROFILE

-0.61%

SP. DITCH RT.

-0.26%

-0.40%

0.96%

0.34%

0.98%

+76.19 BEGIN BRIDGE "B"

BRIDGE "B"
LENGTH = 180' - 6"

VARIABLE GRADE

| | | |

PROPOSED
R/W
AUGUST 2017

SEC. 20 T6N R7W

SEC. 21 T6N R7W

NINNEKAH CITY LIMITS

CAUTION
TUG

BRIDGE "A"

BRIDGE "B"

℄ SURVEY US 81

℄ RAMP C

ASPHALT

CONCRETE

GRAVEL

PRES R/W

10' U/E
20' U/E

TOC/TOS

ENABLE

0 50' 100'

STA. 113+85 TO 114+15 US 81
CONST. 64 L.F.
TYPE WWF FENCE

STA. 114+15 TO 119+10 US 81
CONST. 501 L.F.
TYPE WWF FENCE

TEMP. R/W (DRIVE)

EXISTING
LIMITS OF NO ACCESS

109+00 110+00 115 120+00 122.00' 124+00

+15 230'
+90 230'
+50 265'
+90 305'
+15 305'
+50 360'
+90 360'
+50 307'
+38.55 306'
+68.08 369'
+15 309'
+47.67 285'

EC 111+29.96

BM#211- "T" ON N.E. WINGWALL
W. SIDE DRAIN
℄ SURVEY U.S. 81
STA. 114+06.93, 68.77' LT.
ELEV. =1200.651

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

BRIDGE "B"
LENGTH = 180' - 6"

+56.69 END BRIDGE "B"

FINISH GRADE

STA. 115+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 188 LF 18" RCP INTO DITCH RT. W/ CET
TG=1223.64, FL=1208.70, DS FL=1193.96

HIGH PT 114+01.62
EL=1228.88

PVI 115+25
EL=1229.16

PVC 113+75
EL=1228.85

PVT 116+75
EL=1226.00

300' V.C.
K=130

VARIABLE GRADE

-2.11%

-6.25%

-1.07%

1.39%

2.42%

0.98%

EXIST. PROFILE

SP. DITCH RT.

SP. DITCH LT.

1235 1230 1225 1220 1215 1210 1205 1200 1195 1190

109+00 110+00 111+00 112+00 113+00 114+00 115+00 116+00 117+00 118+00 119+00 120+00 121+00 122+00 123+00 124+00

EX.=1201.08 EX.=1201.36 EX.=1201.72 EX.=1202.44 EX.=1203.42 EX.=1203.97 EX.=1204.75 EX.=1205.56 EX.=1206.20 EX.=1206.87 F.G.=1228.88 EX.=1207.38 F.G.=1228.79 EX.=1208.03 F.G.=1228.51 EX.=1208.52 F.G.=1228.03 EX.=1209.07 F.G.=1227.36 EX.=1209.59 F.G.=1226.50 EX.=1209.89 F.G.=1225.47 EX.=1210.20 F.G.=1224.42 EX.=1210.56 F.G.=1223.36 EX.=1210.08 F.G.=1222.31 EX.=1209.78 F.G.=1221.25 EX.=1209.38 F.G.=1220.20 EX.=1209.00 F.G.=1219.14 EX.=1208.65 F.G.=1218.09 EX.=1208.43 F.G.=1217.03 EX.=1207.80 F.G.=1215.98 EX.=1206.95 F.G.=1214.92 EX.=1206.30 F.G.=1213.87 EX.=1205.43 F.G.=1212.81 EX.=1204.59 F.G.=1211.76 EX.=1203.55 F.G.=1210.70 EX.=1202.54

RAMP C

State Job No. 24428(04) Sheet No. R133

US 81 REALIGNMENT

GRADY COUNTY

SEC. 21 T6N R7W

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY NB U.S. 81.

PROPOSED R/W
AUGUST 2017

0 50′ 100′

125+00 130+00 135+00 139+00 124+00

CAUTION :
GAS LINE

TOC/TOS

℄ RAMP C
N47°03'51.76"E

CONCRETE
ASPHALT

℄ SURVEY NB US 81

15′ 2′ 8′

87.5′

PRES R/W

PT-129+46.61

BM#86

BM#87

AT&T FO TUG W WWF W/3-BW AEP(3-WP) RWD 7

20' U/E

ENABLE

EXISTING
LIMITS OF NO ACCESS

SEC. 21 T6N R7W

+28.14'-GM 86.8' RT.
+63.56'-SIGN 29.5' LT.
+33.45'-POWRS 127.1' RT.
+36.28'-PP 87.8' RT.
+78.27'-SIGN 29.3' LT.
+82.44'-SIGN 26.9' LT.
+92.70'-SIGN 27.8' LT.
+09.09'-TP 87.2' RT.
+16.75'-PP 88.3' RT.
+04.30'-SIGN 28.7' LT.
+06.99'-SIGN 29.2' LT.
+01.40'-PP 88.5' RT.
+17.46'-SIGN 26.9' LT.
+28.49'-SIGN 28.2' LT.
+28.97'-SIGN 28.5' LT.
+84.48'-PP 88.2' RT.
+63.27'-PP 88.2' RT.
+59.64'-GM 86.5' RT.
+79.98'-TP 86.6' RT.

BM#86 -SET 3/4" I.P.(30" LONG)
℄ SURVEY U.S. 81 NB
STA. 1124+46.43, 95.92' RT.
ELEV. =1196.021

BM#87- SET 3/4" I.P.(30" LONG)
℄ SURVEY U.S. 81 NB
STA. 1133+42.40, 96.38' RT.
ELEV. =1182.701

FINISH GRADE
EXIST. PROFILE
SP. DITCH LT.
SP. DITCH RT.

-2.11%
-2.12%
-1.84%
-1.22%
-0.90%
-0.71%
-0.40%
-0.32%

350' V.C.
K=250

PVC 133+25
EL=1191.19

PVI 135+00
EL=1187.50

PVT 136+75
EL=1186.26

| | | |

PROPOSED R/W
AUGUST 2017

SEC. 16 T6N R7W

℄ SURVEY SB US 81

140+00

145+00

BM#89

ASPHALT

CONCRETE

TOC/TOS

℄ RAMP E

EW 140 ℄

0 50′ 100′

40' U/E

ENABLE

139+00

℄ RAMP C

N47°03'51.76"E

16'

8'

2'

12'

10'

℄ SURVEY NB US 81

AT&T

AEP(T-WP)

BM#88

RWD 7

20' U/E

PRES. R/W

CLF

EXISTING
LIMITS OF NO ACCESS

STOCKADE FN

GRAVEL

DIRT

BLDG

S89°47'30.67"W
2639.79

+09.47 - GUY ANC 88.1' RT.

+39.72 - PP 88.2' RT.

+93.71 - GUY ANC 66.0' RT.

+15.41 - PP 85.8' RT.

+33.58 - SIGN 18.8' RT.

+34.35 - SIGN 37.4' LT.

+46.74 - PP 86.6' RT.

+37.11
155.89'

+84.90
140.50'

2652.51'
N00°06'04.86"E

NS 283.5

SEC. 21 T6N R7W

SEC. 16 T6N R7W

ASPHALT

BM#88- SET 3/4" I.P.(30" LONG)
℄ SURVEY U.S. 81 NB
STA. 1140+21.86, 95.46' RT.
ELEV. =1179.523

BM#89- SET 3/4" I.P.(30" LONG)
℄ SURVEY U.S. 81 NB
STA. 1145+30.53, 180.36' LT.
ELEV. =1180.333

FINISH GRADE

EXIST. PROFILE

-0.71%

-0.65%

0.00%

0.90%

-0.75%

-2.27%

SP. DITCH LT.

SP. DITCH RT.

PVI 147+25
EL=1178.81

PVC 146+00
EL=1179.70

PVT 148+50
EL=1175.97

250' V.C.
K=160

STA. 149+17.61 - END CONSTRUCTION

STA. 150+25.91 - END INCIDENTAL CONSTRUCTION

	139+00	140+00	141+00	142+00	143+00	144+00	145+00	146+00	147+00	148+00	149+00	150+00	151+00	152+00	153+00	154+00
F.G.	1184.66	1184.31	1183.95	1183.60	1183.24	1182.89	1182.53	1182.18	1181.83	1181.47	1181.12	1180.76	1180.41	1180.05	1179.70	1179.26	1178.68	1177.93	1177.03	1175.97	1174.83						
EX.	1182.81	1182.71	1182.55	1182.28	1182.12	1181.97	1181.79	1181.63	1181.48	1181.31	1181.14	1180.94	1180.70	1180.36	1179.89	1179.36	1178.69	1177.89	1177.02	1176.02	1174.83						

RAMP C

GRADY COUNTY — US 81 REALIGNMENT

State Job No. 24428(04) Sheet No. R135

PROPOSED
R/W
AUGUST 2017

SEC. 16 T6N R7W

℄ RAMP C

℄ RAMP E

℄ RAMP F

℄ RAMP D
S56°13'38.59"W

220+00

225+00

228+00

TOC/TOS

BM#89

0 50′ 100′

170

ENABLE

48' U/E

R25′

52.00'

GRADE TO DRAIN

CAUTION :
GAS LINE

12'

10'

15'

10'

PAVE 20'

STA. 139+00 TO 140+57 US 81
CONST. 1,414 L.F.
TYPE WWF FENCE

PC 2224+60.01

STA. 213+00
CONST. 32' ASPH. SECTION LINE RD.
RT. W/28"X18" RCPA SD

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

SEC. 16 T6N R7W

1151+94

1150+00

1145+00

+99.05-SIGN 175.9' RT.
+94.78-SIGN 132.3' RT.
+67.60-POWPOL 158.1' LT.

+38.76-POWPOL 150.0' LT.

LIMITS OF ACCESS TO
LOCAL ROAD ONLY

+08.31-SIGN 170.7' RT.

+27.12-SIGN 186.8' LT.

+18.27-WM 184.0' LT.

+93.73-POWPOL 180.5' LT.
+89.05-TP 180.4' LT.

+64.67-POWANC 180.4' LT.

+14.37-WM 219.6' LT.

PRES. R/W

RWD 7

AT&T

AEP(7-WP)

AEP(5-WP)

AEP(4-WP)

CLF

GRAVEL

ASPHALT

CONCRETE

BLDG

BM#89- SET 3/4" I.P.(30" LONG)
℄ SURVEY U.S. 81 NB
STA. 1145+30.53, 180.36' LT.
ELEV. =1180.333

STA. 213+00 - BEGIN
INCIDENTAL CONSTRUCTION

STA. 218+95.41 - END INCIDENTAL &
BEGIN CONSTRUCTION

SP. DITCH RT.

1.90%

1.03%

1.27%

1.48%

0.30%

EXIST. PROFILE

FINISH GRADE

PVC 220+00
EL=1176.79

PVI 221+50
EL=1179.65

PVT 223+00
EL=1181.87

PVC 225+25
EL=1185.20

PVI 226+25
EL=1186.68

PVT 227+25
EL=1186.98

300' V.C.
K=707

200' V.C.
K=170

F.G.=1175.84 EX.=1175.89
F.G.=1176.79 EX.=1176.86
F.G.=1177.73 EX.=1177.74
F.G.=1178.63 EX.=1178.56
F.G.=1179.49 EX.=1179.34
F.G.=1180.32 EX.=1180.17
F.G.=1181.11 EX.=1180.92
F.G.=1181.87 EX.=1181.71
F.G.=1182.61 EX.=1182.55
F.G.=1183.35 EX.=1183.33
F.G.=1184.09 EX.=1184.13
F.G.=1184.83 EX.=1184.88
F.G.=1185.55 EX.=1185.61
F.G.=1186.14 EX.=1186.41
F.G.=1186.59 EX.=1186.56
F.G.=1186.89 EX.=1185.39
F.G.=1187.06 EX.=1184.00
F.G.=1187.21 EX.=1183.09

1200 1195 1190 1185 1180 1175 1170 1165 1160 1155

213+00 214+00 215+00 216+00 217+00 218+00 219+00 220+00 221+00 222+00 223+00 224+00 225+00 226+00 227+00 228+00

RAMP D

State Job No. 24428(04) Sheet No. R136

US 81 REALIGNMENT

GRADY COUNTY

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

PROPOSED R/W
AUGUST 2017

SEC. 21 T6N R7W

SEC. 16 T6N R7W

℄ SURVEY EW 140 (QUAIL RD.)

℄ RAMP E

℄ RAMP F

℄ RAMP D

CRL SURVEY NS 283 (16TH AVE)

CONST. RETAINING WALL

STA. 139+00 TO 140+57 US 81
CONST. 1,414 L.F.
TYPE WWF FENCE

STA. 140+01 TO 144+25 US 81
CONST. 633 L.F.
TYPE WWF FENCE

STA. 142+93 TO 149+35 US 81
CONST. 862 L.F.
TYPE WWF FENCE

CAUTION - GAS

CAUTION - TUG

CONST. IMPACT ATTENUATER

NINNEKAH CITY LIMITS

PRES. R/W

R/W

TEMP. R/W (CHANNEL)

TOC/TOS

20' U/E

30' U/E

0 50′ 100′

63 STA. 29+50 CRL SURVEY NS 283 (16TH AVE.), 58.00' LT.
CONST. SP. DROP INLET
STUB 85 LF 10'x4' RCB W/ STD. 0°
END SECT. & 4' CURTAIN WALL INTO DITCH RT.
TG=1166.54, ℄ L=1161.04, DS ℄ L=1160.00

64 STA. 240+96.10 ℄ RAMP D, ON ℄
CONST. 10'X4'X196' LG. RCB
100' LG. LT. & 96' LG. RT. W/ STD. 0°
END SECT. & 4' CURTAIN WALL
STUB INTO STR. 63
℄ LT.=1162.79, ℄ RT.=1161.04

FINISH GRADE

EXIST. PROFILE

SP. DITCH RT.

SP. DITCH LT.

0.30%
-0.62%
-2.28%
-3.10%
0.55%
3.62%
-0.10%
0.00%

RAMP D

State Job No. 24428(04) Sheet No. R137

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 17 T6N R7W

℄ SURVEY US 81

℄ RAMP D
N29°45'05.42"W

℄ RAMP B

243+00 245+00 250+00 255+00 258+00

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

PRES. R/W

WWF W/3-BW

15' U/E

30' U/E

20' U/E

35' U/E

TOC/TOS

STA. 142+93 TO 149+35
CONST. 892 L.F.
TYPE WWF FENCE

+32.96
295'

STA. 146+85 TO 151+31
CONST. 574 L.F.
TYPE WWF FENCE

+51.41
248'

+99.25
380'

LIMITS OF NO ACCESS

CHICKASHA CITY LIMITS

+00
235'

BLDG

0 50' 100'

VARIABLE GRADE

FINISH GRADE

0.30% 1.97% 4.35% 9.11% -1.54% 0.75% 0.58% 0.36% 2.05% 1.23%

EXIST. PROFILE

SP. DITCH LT.

SP. DITCH RT.

11 STA. 150+34 ℄ SURVEY US 81, ON ℄
CONST. 16'X6'X574' LG. RCB
SKEW 16° LT. FWD.
363' LG. LT. & 211' LG. RT. W/ STD. 0°
END SECTS. & 4' CURTAIN WALLS
℄ LT.=1159.75, ℄ RT.=1155.98

12 STA. 155+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 162 LF 18" RCP INTO DITCH RT. W/ CET
TG=1184.00, ℄=1176.00, DS ℄=1165.07

1200 1195 1190 1185 1180 1175 1170 1165 1160 1155

F.G.=1191.73 EX.=1176.52 | F.G.=1191.88 EX.=1180.18 | F.G.=1192.03 EX.=1182.31 | F.G.=1192.18 EX.=1185.51 | F.G.=1192.33 EX.=1187.10 | F.G.=1192.48 EX.=1188.12 | F.G.=1192.63 EX.=1187.88 | F.G.=1192.78 EX.=1187.17 | F.G.=1192.93 EX.=1185.63 | F.G.=1193.08 EX.=1181.62 | F.G.=1193.23 EX.=1177.76 | F.G.=1193.38 EX.=1175.20 | EX.=1169.32 | EX.=1167.25 | EX.=1159.92 | EX.=1161.86 | EX.=1164.85 | EX.=1165.84 | EX.=1165.64 | EX.=1162.33 | EX.=1166.43 | EX.=1167.03 | EX.=1166.68 | EX.=1165.69 | EX.=1165.87 | EX.=1166.16 | EX.=1166.64 | EX.=1163.47 | EX.=1167.12 | EX.=1169.91 | EX.=1171.89

243+00 244+00 245+00 246+00 247+00 248+00 249+00 250+00 251+00 252+00 253+00 254+00 255+00 256+00 257+00 258+00

RAMP D

State Job No. 24428(04) Sheet No. R138

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 17 T6N R7W

160+00

165+00

260+00

258+00

℄ RAMP B

℄ US 81 SB CD RD. 1

PT 169+12.83

℄ SURVEY US 81

13

14

15

16

17

℄ RAMP D

℄ US 81 NB CD RD. 1

10'

12'

10'

12'

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

TOC/TOS

(4 BW)

R/W

+00
250'

0 50' 100'

STA. 146+85 TO 151+31
CONST. 574 L.F.
TYPE WWF FENCE

LIMITS OF NO ACCESS

+00
240'

R/W

N89°53'29.73"E
2648.98'

+68.36
242'

EW 139.5

TOC/TOS

SEC. 17 T6N R7W

VARIABLE GRADE

13 STA. 159+03 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 138 LF 24" RCP INTO DITCH RT. W/ CET
TG=1181.39, FL=1178.82, DS FL=1170.09

14 STA. 163+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 136 LF 24" RCP INTO DITCH RT. W/ CET
TG=1185.50, FL=1180.50, DS FL=1175.04

FINISH GRADE

EXIST. PROFILE

1.23%

SP. DITCH RT.

STA. 264+50.00 - END CONSTRUCTION

EX.=1171.89 EX.=1175.28 EX.=1182.37 EX.=1184.49 EX.=1184.30 EX.=1186.70 EX.=1187.91 EX.=1188.70 EX.=1189.26 EX.=1188.59 EX.=1180.83 EX.=1174.26 EX.=1182.50 EX.=1181.20

1205 1200 1195 1190 1185 1180 1175 1170 1165 1160

258+00 259+00 260+00 261+00 262+00 263+00 264+00 265+00 266+00 267+00 268+00 269+00 270+00 271+00 272+00 273+00

RAMP D

State Job No. 24428(04) Sheet No. R139

US 81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 21 T6N R7W

SEC. 21 T6N R7W

PRES. R/W
WWF W/3-BW
AT&T
CRL SURVEY NS 283 (16TH AVE)
RWD T
ASPHALT
20' U/E
℄ RAMP D
℄ RAMP F
℄ RAMP E
N89°47'30.67"E
℄ SURVEY EW 140 (QUAIL RD.)
℄ RAMP E
EW 140
2639.79'
S89°47'30.67"W
℄ SURVEY SB US 81
PC 254+83.30
TOC/TOS
ENABLE
CONCRETE
255+00
259+00
STA 1140+85.85 ℄ 24"X68.56' RDY. RCB S.D. 'X'ING ℄ 84.81' RT. & 83.758' LT. ℄ ELEV. E=1180.56' RT. ℄ ELEV. W=1182.55' LT.
12'
4'
15'
6'
2'

CAUTION -
GAS LINE

0 50' 100'

BM#86 -SET 3/4" I.P.(30" LONG)
℄ SURVEY U.S. 81 NB
STA. 1124+46.43, 95.92' RT.
ELEV. =1196.021

BM#87- SET 3/4" I.P.(30" LONG)
℄ SURVEY U.S. 81 NB
STA. 1133+42.40, 96.38' RT.
ELEV. =1182.701

VARIABLE GRADE
TIE TO RAMP F

STA. 250+00.00 - BEGIN CONSTRUCTION

TIE TO QUAIL ROAD
FINISH GRADE
EXIST. PROFILE
SP. DITCH RT.
SP. DITCH LT.
PVI 255+65 EL=1191.91
HIGH PT. 255+72.49 EL=1190.95
PVC 254+32.71 EL=1189.88
PVT 256+97.29 EL=1190.10
265' V.C. K=91
PVC 258+65 EL=1187.94
PVT 260+05 EL=1184.72
150' V.C. K=97
2.62%
-0.41%
-1.37%
-1.54%
0.95%

EX.=1186.02 EX.=1185.49 EX.=1185.47 EX.=1185.35 EX.=1184.71 EX.=1184.33 EX.=1184.06 EX.=1183.52 EX.=1183.35 F.G.=1190.13 EX.=1186.89 F.G.=1190.66 EX.=1193.10 F.G.=1190.92 EX.=1192.87 F.G.=1190.91 EX.=1187.30 F.G.=1190.62 EX.=1182.74 F.G.=1190.06 EX.=1182.45 F.G.=1189.37 EX.=1181.27 F.G.=1188.69 EX.=1180.83 F.G.=1188.00 EX.=1180.84 F.G.=1187.21 EX.=1180.45

1205 1200 1195 1190 1185 1180 1175 1170 1165 1160

244+00 245+00 246+00 247+00 248+00 249+00 250+00 251+00 252+00 253+00 254+00 255+00 256+00 257+00 258+00 259+00

RAMP E

State Job No. 24428(04) Sheet No. R140

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 16 T6N R7W

℄ RAMP D ASPHALT
CONCRETE
℄ SURVEY U.S. 81
ASPHALT
CONCRETE
BM#89
260+00
265+00
259+00
TOC/TOS
℄ RAMP E
CONCRETE
ASPHALT
N47°03'51.76"E
℄ RAMP C
EW 140'
2639.79'
S88°47'30"W
PRES. R/W
AT&T
CLF
AEP (4 -WP)
1-WP
RWD 7
20' U/E
40' U/E
ENABLE
2652.51'
N00°06'04.86"E
NS 283.5
BLDG
DIRT
SEC. 16 T6N R7W
0
50'
100'

BM#88- SET 3/4" I.P.(30" LONG)
℄ SURVEY U.S. 81 NB
STA. 1140+21.86, 95.46' RT.
ELEV. =1179.523

BM#89- SET 3/4" I.P.(30" LONG)
℄ SURVEY U.S. 81 NB
STA. 1145+30.53, 180.36' LT.
ELEV. =1180.333

VARIABLE GRADE
TIE TO RAMP C

290' V.C.
K=99
150' V.C.
K=97

PVI 259+30
EL=1186.91
PVC 260+06
EL=1184.72
PVT 262+95
EL=1180.52
PVC 258+55
EL=1187.94
PVT 260+06
EL=1184.72
PVI 261+50
EL=1180.50

FINISH GRADE
SP. DITCH LT.
SP. DITCH RT.
0.40%
1.90%
EXIST. PROFILE
-1.07%

STA. 267+32.25 - END CONSTRUCTION
STA. 268+44.00 - END INCIDENTAL CONSTRUCTION

| | | |

PROPOSED R/W
AUGUST 2017

SEC. 16 T6N R7W

SEC. 21 T6N R7W

140+01.08
945.00'

PRES. R/W

CRL SURVEY INS 283 (16TH AVE)

CONST. RETAINING WALL

192.85'

240+00

20' U/E

S89°47'30.67"W
2639.79'

EW 140

N89°47'30.67"E

℄ RAMP F

℄ RAMP D

℄ RAMP E

PC 128+45.45

130+00

135+00

136+00

235+00

230+00

CAUTION - GAS

CONST. IMPACT ATTENUATOR

ENABLE

TOC/TOS

ASPHALT

CONCRETE

20' U/E

12'

4'

0 50' 100'

+87.67'-SIGN 160.7'L.T.

+84.57'-SIGN 148.3' RT.

-55.71'-SIGN 101.2' RT.

+43.32'-SIGN 118.1' RT.

+46.25'-SIGN 47.0' RT.

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

BM#86 -SET 3/4" I.P.(30" LONG)
℄ SURVEY U.S. 81 NB
STA. 1124+46.43, 95.92' RT.
ELEV. =1196.021

BM#87- SET 3/4" I.P.(30" LONG)
℄ SURVEY U.S. 81 NB
STA. 1133+42.40, 96.38' RT.
ELEV. =1182.701

VARIABLE GRADE TIE TO RAMP E

VARIABLE GRADE TIE TO RAMP D

STA. 127+15.45 - BEGIN CONSTRUCTION

TIE TO QUAIL ROAD

FINISH GRADE

EXIST. PROFILE

2.28%

-0.56%

0.30%

SP. DITCH LT.

150' V.C.
K=100

PVC 130+50
EL=1187.51

LOW PT. 131+06.17
EL=1187.36

PVT 132+00
EL=1187.79

PVI 131+25
EL=1187.09

0.94%

1.15%

PVI 133+25
EL=1188.96

HIGH PT. 133+16.21
EL=1188.71

-0.52%

PVC 132+50
EL=1188.26

150' V.C.
K=103

PVT 134+00
EL=1188.57

| | | |

PROPOSED
R/W
AUGUST 2017

SEC. 16 T6N R7W

GRAVEL
CLF
BLDG
AEP(5-WP)
AEP(14-WP)
AT&T
RWD 7
PRES. R/W
ASPHALT
CONCRETE
TOC/TOS
140+00
160.20'
PT. 136+95.13
136+00
225+00
220+00
℄ RAMP F
N56°13'38.59"E
℄ RAMP D
℄ RAMP E
℄ RAMP C
12'
10'
BM#89
40' U/E
ENABLE
2652.51'
N00°08'04.66"E
NS 283.5
0 50' 100'
+64.61 - 42"WANC 18.4' LT.
+89.05 - TP 189.4' LT.
+93.72 - POWPOL 189.5' LT.
+18.21 - WM 18.0' LT.
+01.35 - MB 17.0' LT.
+02.32 - 17.0' LT.
+27.14 - DRAIN 16.6' LT.
+08.31 - SIGN 17.7' LT.
+30.16 - POWPOL 15.6' LT.
+67.60 - POWPOL 15.1' LT.
+94.75 - SIGN 13.3' RT.
+96.16 - SIGN 13.3' RT.
SEC. 16 T6N R7W

BM#88- SET 3/4" I.P.(30" LONG)
℄ SURVEY U.S. 81 NB
STA. 1140+21.86, 95.46' RT.
ELEV. =1179.523

BM#89- SET 3/4" I.P.(30" LONG)
℄ SURVEY U.S. 81 NB
STA. 1145+30.53, 180.36' LT.
ELEV. =1180.333

VARIABLE GRADE
TIE TO RAMP D

FINISH GRADE
EXIST. PROFILE
-1.18%
SP. DITCH RT.

STA. 143+17.95 - END CONSTRUCTION
STA. 144+63.86 - END INCIDENTAL CONSTRUCTION

EX.=1187.04
EX.=1186.18
EX.=1185.51
EX.=1184.60
EX.=1183.93
EX.=1183.08
EX.=1182.27
EX.=1181.46
EX.=1180.67
EX.=1179.96
EX.=1179.02
EX.=1178.40
EX.=1177.34
EX.=1176.62
EX.=1175.44

1205 1200 1195 1190 1185 1180 1175 1170 1165 1160

136+00 137+00 138+00 139+00 140+00 141+00 142+00 143+00 144+00 145+00 146+00 147+00 148+00 149+00 150+00 151+00

RAMP F

State Job No. 24428(04) Sheet No. R143

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 17 T6N R7W

LIMITS OF NO ACCESS

STA. 156+71 TO 191+50 US 81
CONST. 3,637 L.F.
TYPE SWF (6WB) FENCE

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81 UNLESS OTHERWISE NOTED.

R/W

TOC/TOS

+50
305'

+50
300'

0 50' 100'

N89°53'28.73"E
2648.96'

N00°21'02.51"E
2656.02'

N46°37'15.91"W

℄ RAMP G

℄ US 81 SB CD RD. 2

℄ SURVEY US 81

℄ RAMP K

PT. 169+12.58

PI. 1176+35.63

PC. 1179+06.53

1170+00
1175+00
1180+00
1184+00

SEC. 17 T6N R7W

BM#217 - 80D SPIKE IN R.R.
TIE FENCE POST
℄ SURVEY U.S. 81
STA. 174+72.74, 845.39' LT.
ELEV. =1237.332

STA. 1173+39.86 - BEGIN CONSTRUCTION

VARIABLE GRADE
MATCH US 81 CD ROAD

FINISH GRADE

EXIST. PROFILE

SP. DITCH RT.

SP. DITCH LT.

1.44%

2.27%
0.50%
0.10%
-2.50%
0.90%
3.00%

18 STA. 176+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 132 LF 18" RCP INTO DITCH LT. W/ CET
TG=1224.87, FL=1214.87, DS FL=1199.10

21 STA. 180+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 130 LF 18" RCP INTO DITCH RT. W/ CET
TG=1236.28, FL=1226.28, DS FL=1215.15

65 STA. 1182+20 ℄ RAMP G, 22.74' RT.
CONST. SMD, TYPE 2
STUB 110 LF 18" RCP INTO DITCH LT. W/ CET
TG=1241.26, FL=1231.26, DS FL=1218.31

22 STA. 184+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 74 LF 18" RCP INTO DITCH LT. W/ CET
TG=1247.72, FL=1242.72, DS FL=1242.18

EX.=1209.37 EX.=1201.80 EX.=1212.01 EX.=1207.14 EX.=1214.67 EX.=1217.53 EX.=1219.90 EX.=1221.22 EX.=1220.81 F.G.=1230.49 EX.=1220.52 EX.=1221.17 EX.=1225.07 EX.=1225.21 EX.=1225.07 EX.=1225.31 EX.=1220.44 EX.=1226.64 F.G.=1240.72 EX.=1228.22 F.G.=1241.86 EX.=1229.31 F.G.=1242.99 EX.=1228.90 F.G.=1244.13 EX.=1227.81 F.G.=1245.27 EX.=1229.94

1169+00 1170+00 1171+00 1172+00 1173+00 1174+00 1175+00 1176+00 1177+00 1178+00 1179+00 1180+00 1181+00 1182+00 1183+00 1184+00

1230 1225 1220 1215 1210 1205 1200 1195 1190 1185

1245 1240 1235 1230 1225 1220 1215 1210 1205 1200

RAMP G

State Job No. 24428(04) Sheet No. R144

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 17 T6N R7W

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81 UNLESS OTHERWISE NOTED.

0 50' 100'

STA. 156+71 TO 191+50 US 81
CONST. 3,637 L.F.
TYPE SWF (6WB) FENCE

STA. 275+80 TO 281+63 I-44
CONST. 658 L.F.
TYPE WWF FENCE

LIMITS OF NO ACCESS

1184+00 1185+00 1190+00 1195+00 1199+00

R/W TOC/TOS GOVT LOT 8 100' U/E CONTINUOUS ASPHALT WIDTH PRES. R/W RWD 7 CLF

℄ RAMP G ℄ RAMP H ℄ US 81 SB GD RD 2 ℄ SURVEY US 81 ℄ I-44 EB GD RD 2

+25 475' +50 775'

66 68

+63.59-POWPOL 204.7' RT. +60.60'-POWRIS 62.3' RT. +60.80'-LN 60.1' RT.

CONCRETE ASPHALT CONCRETE

SEC. 17 T6N R7W

BM#218 - 80D SPIKE IN GROUND AT BASE OF METAL CORNER POST ℄ SURVEY U.S. 81 STA. 186+78.95, 1501.34' LT. ELEV. =1249.758

66 STA. 1185+50 ℄ RAMP G, 67.95' RT.
CONST. SMD, TYPE 2A
STUB 144 LF 30" RCP INTO DITCH LT. W/ CET
TG=1184.00, ℄L=1234.67, DS ℄L=1228.52

68 STA. 200+74.43 ℄ RAMP H, ON ℄
CONST. 30"X190' LG. RCP
133' LG. LT. & 57' LG. RT. W/ CETS
℄L LT.=1247.91, ℄L RT.=1246.84

PVI 1192+55 EL=1264.72

HIGH PT. 1192+44.93 EL=1260.34

PVC 1188+80 EL=1256.19

PVT 1196+30 EL=1255.72

750' V.C. K=160

FINISH GRADE 2.27% 3.00% 1.35% 4.02% -1.20% -1.53% -2.47% -2.54% -2.40% -2.05%

EXIST. PROFILE -1.71% -1.52% -1.91%

SP. DITCH RT. SP. DITCH LT.

1270 1265 1260 1255 1250 1245 1240 1235 1230 1225

1184+00	1185+00	1186+00	1187+00	1188+00	1189+00	1190+00	1191+00	1192+00	1193+00	1194+00	1195+00	1196+00	1197+00	1198+00	1199+00
F.G.=1245.27 EX.=1229.94	F.G.=1246.41 EX.=1234.74	F.G.=1247.54 EX.=1236.16	F.G.=1248.66 EX.=1240.02	F.G.=1249.83 EX.=1242.76	F.G.=1250.95 EX.=1246.04	F.G.=1252.09 EX.=1246.78	F.G.=1253.23 EX.=1248.27	F.G.=1254.37 EX.=1251.17	F.G.=1255.50 EX.=1251.63	F.G.=1256.63 EX.=1252.58	F.G.=1257.63 EX.=1253.99	F.G.=1258.47 EX.=1255.83	F.G.=1259.15 EX.=1256.52	F.G.=1259.68 EX.=1257.08	F.G.=1260.06 EX.=1257.63	F.G.=1260.27 EX.=1258.44	F.G.=1260.34 EX.=1258.94	F.G.=1260.24 EX.=1259.57	F.G.=1259.99 EX.=1259.82	F.G.=1259.58 EX.=1260.49	F.G.=1259.03 EX.=1260.37	F.G.=1258.31 EX.=1260.15	F.G.=1257.44 EX.=1259.36	F.G.=1256.41 EX.=1258.30	F.G.=1255.24 EX.=1257.45	F.G.=1254.04 EX.=1255.12	F.G.=1252.84 EX.=1253.50	F.G.=1251.64 EX.=1252.48	F.G.=1250.44 EX.=1251.85	F.G.=1249.24 EX.=1252.71

US 81 REALIGNMENT
GRADY COUNTY

RAMP G

State Job No. 24428(04) Sheet No. R145

PROPOSED R/W
AUGUST 2017

SEC. 17 T6N R7W

SEC. 18 T6N R7W

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81 UNLESS OTHERWISE NOTED.

STA. 275+80 TO 281+63 I44
CONST. 658 L.F.
TYPE WWF FENCE

LIMITS OF NO ACCESS

CHICKASHA CITY LIMITS

℄ SURVEY I-44 (HE BAILEY TPK)

℄ I-44 EB CD RD. 1

℄ I-44 EB CD RD. 2

℄ I-44 WB CD RD. 1

℄ I-44 WB CD RD. 2

℄ RAMP G

℄ RAMP J

ASPHALT
CONCRETE
ASPHALT

PRES. R/W

30' U/E

CONTINUUM

WWF W/2-BW

TOC/TOS

BM#219

PRC 1204+43.74

PT 1206+02.63

PRC 1207+46.13

PC 1207+98.50

300.13'
S50°19'05.47"W

S89°34'13.03"E
2675.16'

N00°04'18.48"W
2682.51'

GOVT LOT 19
GOVT LOT 13

EW 1339.3'

NS 283'

STA. 1199+00

STA. 1200+00

STA. 1205+00

STA. 1210+00

STA. 1210+48.41 - END CONSTRUCTION

STA. 265+00

67 — STA. 1199+02 ℄ RAMP G, ON ℄
CONST. 30"X98' LG. RCP
42' LG. LT. & 55' LG. RT. W/ CETS
℄ LT.=1242.12, ℄ RT.=1242.80

91 — STA. 273+25 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 76 LF 18" RCP INTO DITCH RT. W/ CET
TG=1244.47, ℄=1239.35, DS ℄=1237.92

89 — STA. 270+50 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 76 LF 18" RCP INTO DITCH RT. W/ CET
TG=1241.72, ℄=1237.04, DS ℄=1235.16

86 — STA. 268+26 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB ONTO EXIST. 36" RCP
TG=1239.47, ℄=1231.25

BM#219 - 80D SPIKE IN POWER POLE,
E. R/W FENCE I-44
℄ SURVEY I-44
STA. 273+25.31, 199.18' RT.
ELEV. =1252.530

BM#82 - SET 3/4" I.P.(30" LONG)
℄ SURVEY I-44
STA. 264+99.64, 192.11' RT.
ELEV. =1244.102

VARIABLE GRADE
MATCH I-44 CD ROAD

FINISH GRADE
SP. DITCH RT.
SP. DITCH LT.
EXIST. PROFILE
-2.40%
1.65%
0.49%
-0.82%
-1.17%
0.10%
-0.46%
-1.01%

EX.=1252.71 EX.=1248.04 EX.=1243.01 EX.=1241.36 EX.=1240.91 EX.=1240.34 EX.=1239.68 EX.=1239.28 EX.=1239.23 EX.=1238.91 EX.=1238.63 EX.=1237.89 EX.=1237.14 EX.=1236.42 EX.=1235.69 EX.=1235.40 EX.=1234.75 EX.=1234.32 EX.=1233.78 EX.=1233.44 EX.=1236.39 EX.=1233.20 EX.=1232.54

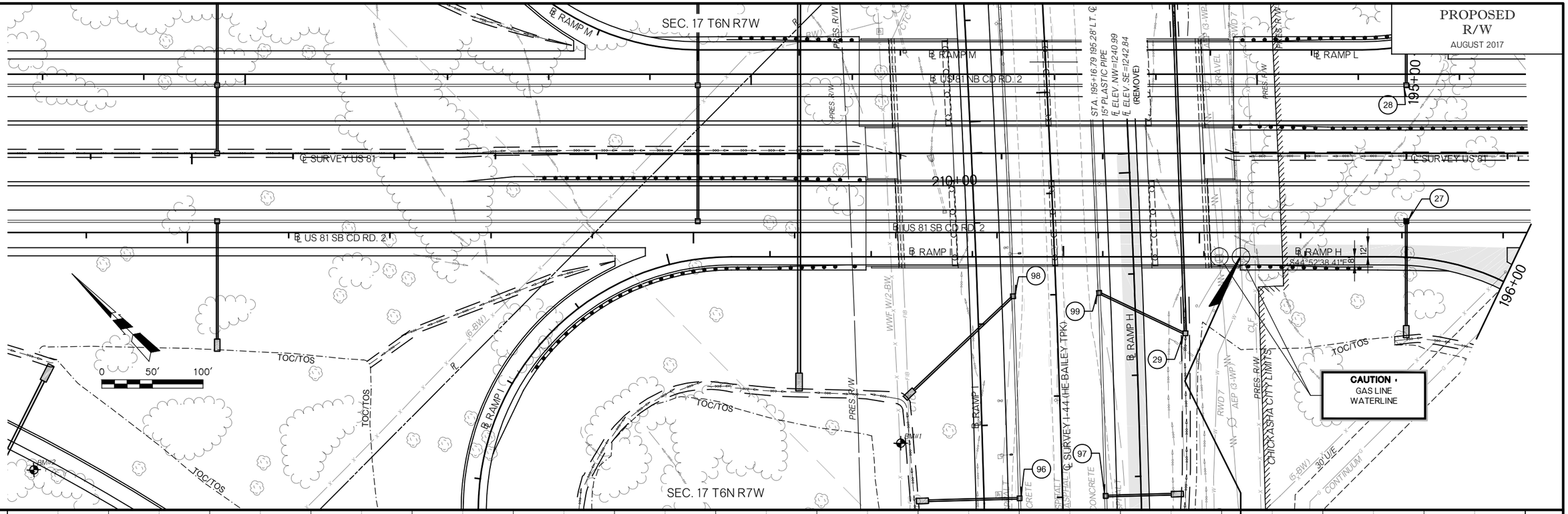
1265 1260 1255 1250 1245 1240 1235 1230 1225 1220

1199+00 1200+00 1201+00 1202+00 1203+00 1204+00 1205+00 1206+00 1207+00 1208+00 1209+00 1210+00 1211+00 1212+00 1213+00 1214+00

RAMP G

State Job No. 24428(04) Sheet No. R146

US 81 REALIGNMENT
GRADY COUNTY



BM#2 - 100D NAIL SET IN E. FACE 12" ELM ℄ SURVEY U.S. 81 STA. 206+56.29, 312.42' LT. ELEV. =1230.502

BM#1 - 100D NAIL SET IN E. FACE 8" WOOD POST, N. SIDE OF I-44 ℄ SURVEY U.S. 81 STA. 197+99.60, 286.18' LT. ELEV. =1249.874

VARIABLE GRADE
MATCH US 81 CD ROAD

-1.04%

FINISH GRADE

(27) STA. 193+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 114 LF 18" RCP INTO DITCH LT. W/ CET
TG=1270.20, FL=1255.20, DS FL=1249.61

SP. DITCH RT.

EXIST. PROFILE

STA. 193+36.11 - BEGIN CONSTRUCTION

EX.=1248.00 EX.=1240.17 EX.=1242.03 EX.=1244.44 EX.=1245.71 EX.=1247.15 EX.=1248.21 EX.=1249.44 EX.=1251.85

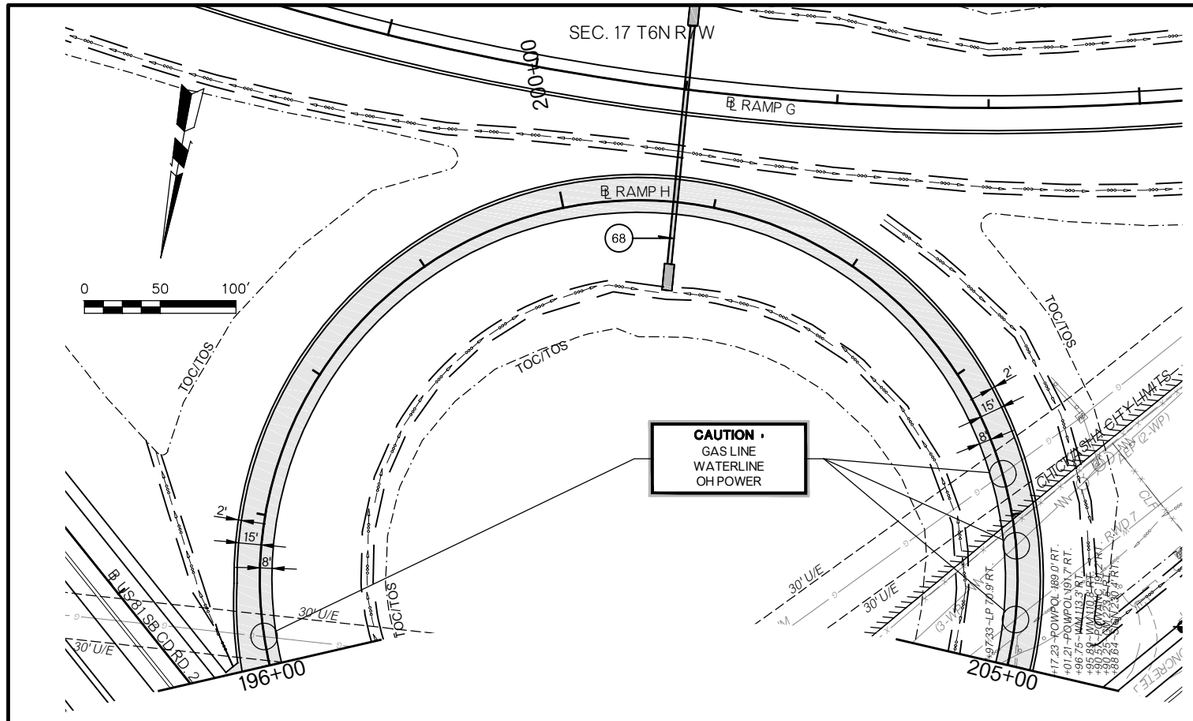
1275 1270 1265 1260 1255 1250 1245 1240 1235 1230

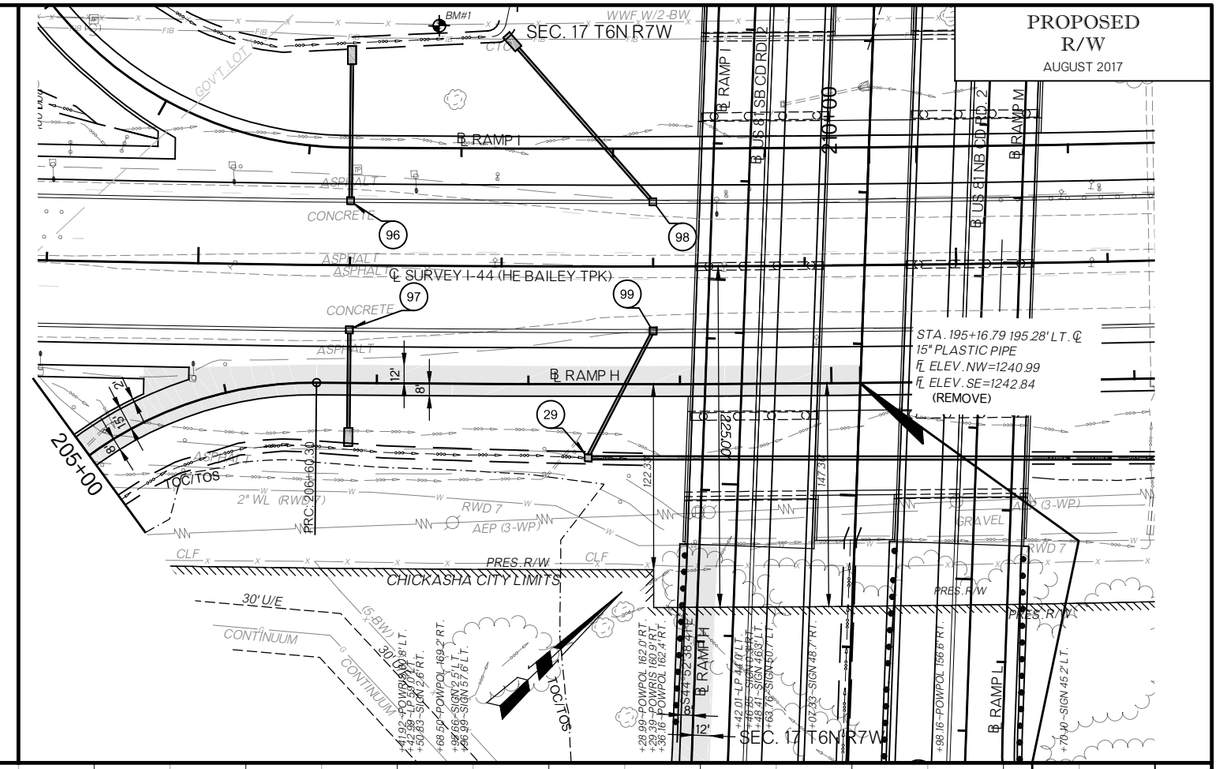
181+00 182+00 183+00 184+00 185+00 186+00 187+00 188+00 189+00 190+00 191+00 192+00 193+00 194+00 195+00 196+00

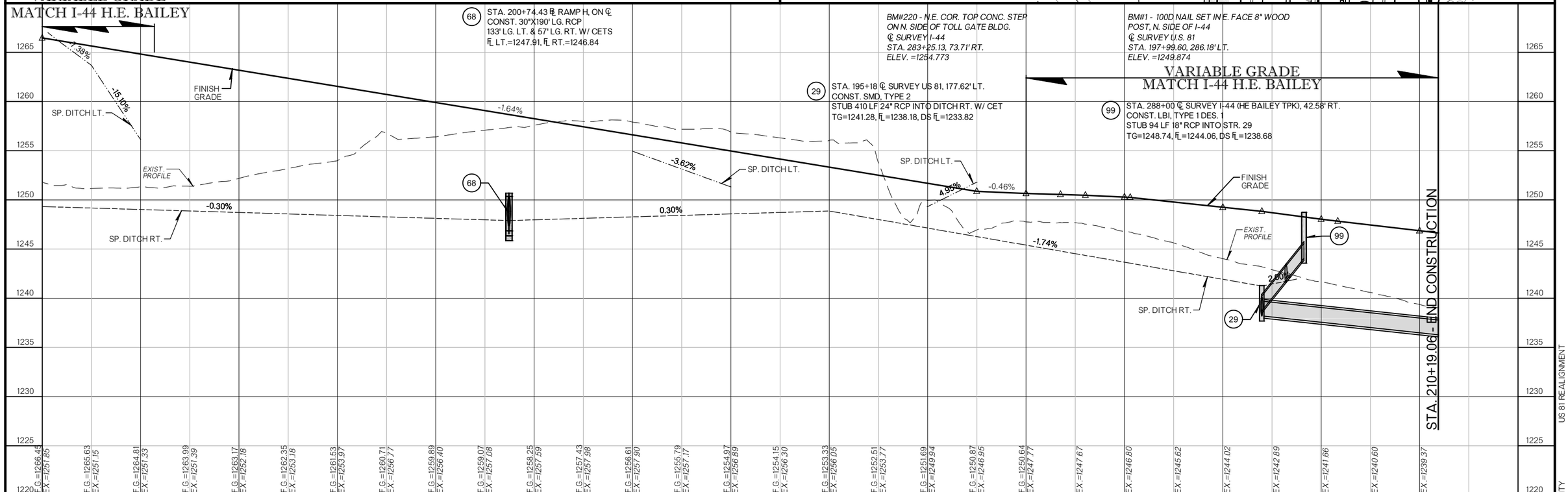
RAMP H

State Job No. 24428(04) Sheet No. R147

US 81 REALIGNMENT
GRADY COUNTY







State Job No. 24428(04) Sheet No. R148

PROPOSED
R/W
AUGUST 2017

SEC. 17 T6N R7W

BM#76

AEP(3-WP)

RWD 7

TOC/TOS

℄ RAMP L

℄ I-44 EB CD RD. 2

℄ SURVEY I-44 (HE BAILY TPK)

℄ I-44 WB CD RD. 2

℄ RAMP M

℄ RAMP H

℄ RAMP I

℄ RAMP J

℄ SURVEY US 81

ASPHALT

CONCRETE

CTC

WWF W/2-BW

PRES. R/W

CAUTION - FIBER

12'

8'

322.33'

320+00

106 101 29 99 104 97 103 100 96 105 98 89

0 50' 100'

SEC. 17 T6N R7W

+07.33-SIGN 48.7' RT.
+63.76-SIGN 50.7' RT.
+48.41-SIGN 46.3' LT.
+43.01-LP 44.1' LT.
SAG @ 298+85.08
+96.95-SIGN 57.6' LT.
+92.66-SIGN 2.51' LT.
+50.83-SIGN 2.6' RT.
+42.99-LP 93.1' LT.
+41.62-POWRS 60.8' LT.
+04.15-TP 63.1' LT.
+22.16-SIGN 0.3' RT.
+99.20-TS 7' RT.
+97.57-POWRS 75.6' RT.

BM#76 - SET 3/4" I.P.(30" LONG)
℄ SURVEY I-44
STA. 298+85.08, 158.03' RT.
ELEV. =1245.168

BM#1 - 100D NAIL SET IN E. FACE 8" WOOD POST, N. SIDE OF I-44
℄ SURVEY U.S. 81
STA. 197+99.60, 286.18' LT.
ELEV. =1249.874

98 STA. 288+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 146 LF 18" RCP INTO DITCH LT. W/ CET
TG=1248.79, FL=1244.11, DS FL=1234.37

VARIABLE GRADE
MATCH I-44 H.E. BAILEY C/D ROAD

STA. 315+31.22 - BEGIN CONSTRUCTION

FINISH GRADE
EXIST. PROFILE
SP. DITCH LT.
SP. DITCH RT.
3.00%

96 STA. 286+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 100 LF 18" RCP INTO DITCH LT. W/ CET
TG=1251.06, FL=1246.38, DS FL=1237.69

EX.=1237.75 EX.=1240.63 EX.=1242.31 EX.=1243.84 EX.=1245.09 EX.=1246.05 EX.=1247.07 EX.=1248.24 EX.=1248.84 EX.=1250.87

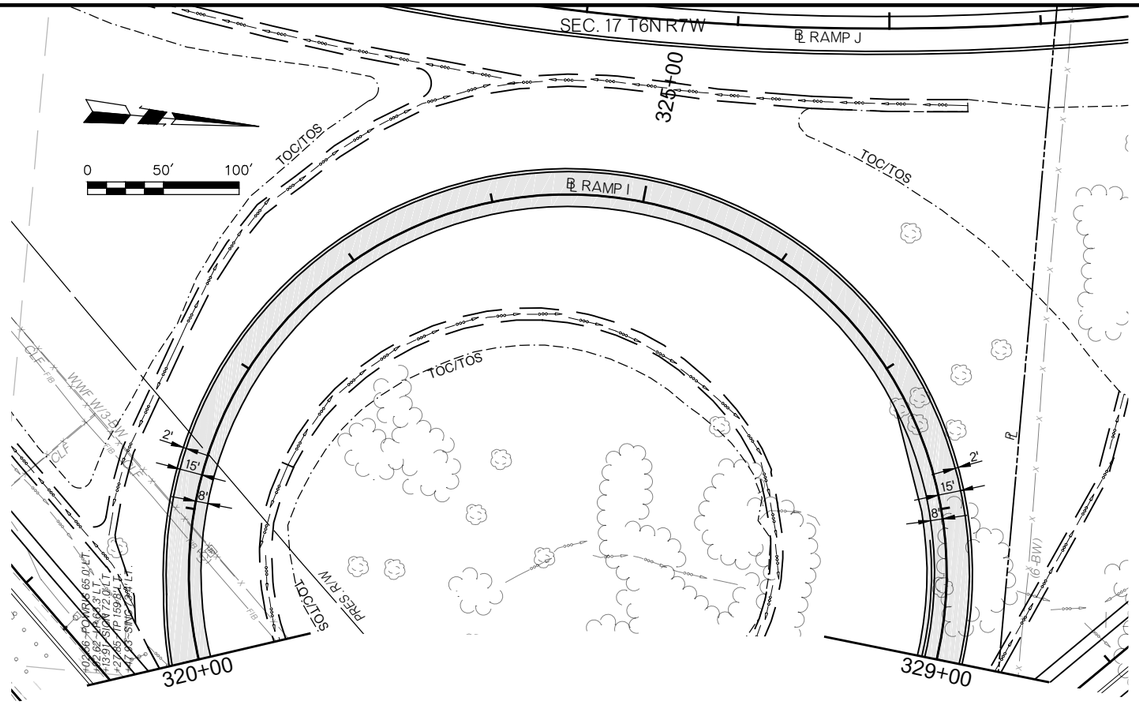
1265 1260 1255 1250 1245 1240 1235 1230 1225 1220

305+00 306+00 307+00 308+00 309+00 310+00 311+00 312+00 313+00 314+00 315+00 316+00 317+00 318+00 319+00 320+00

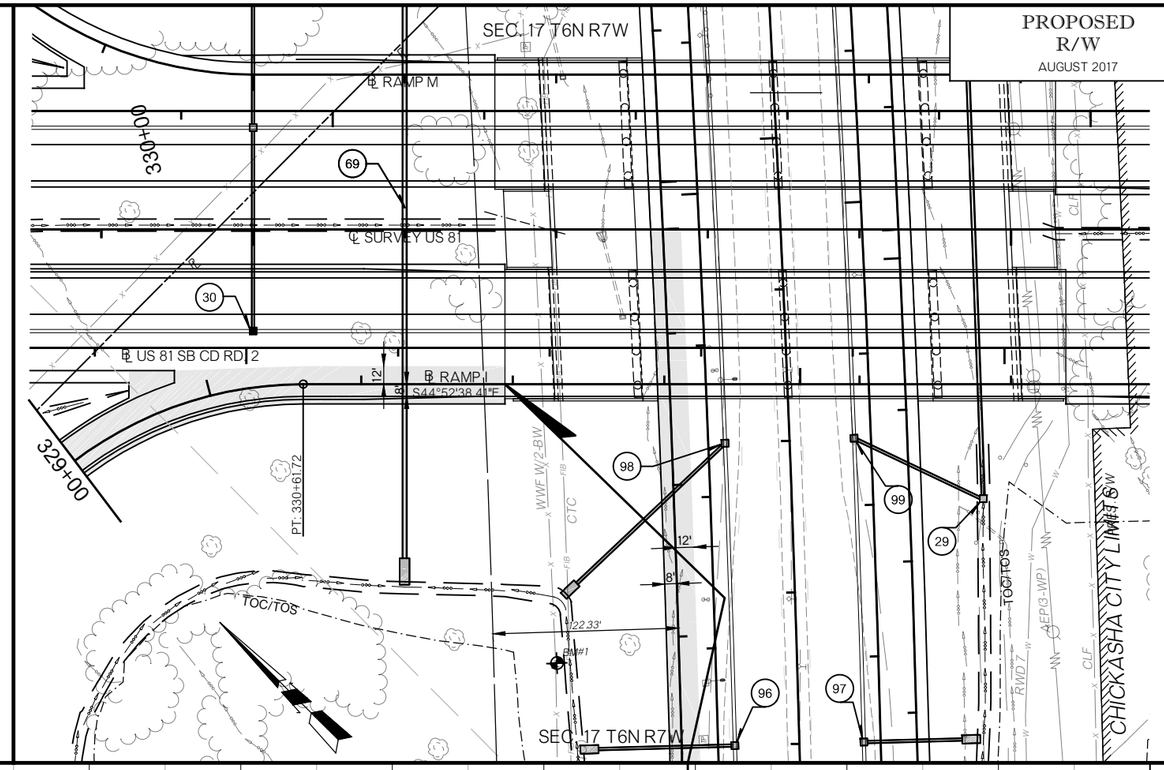
RAMP I

State Job No. 24428(04) Sheet No. R149

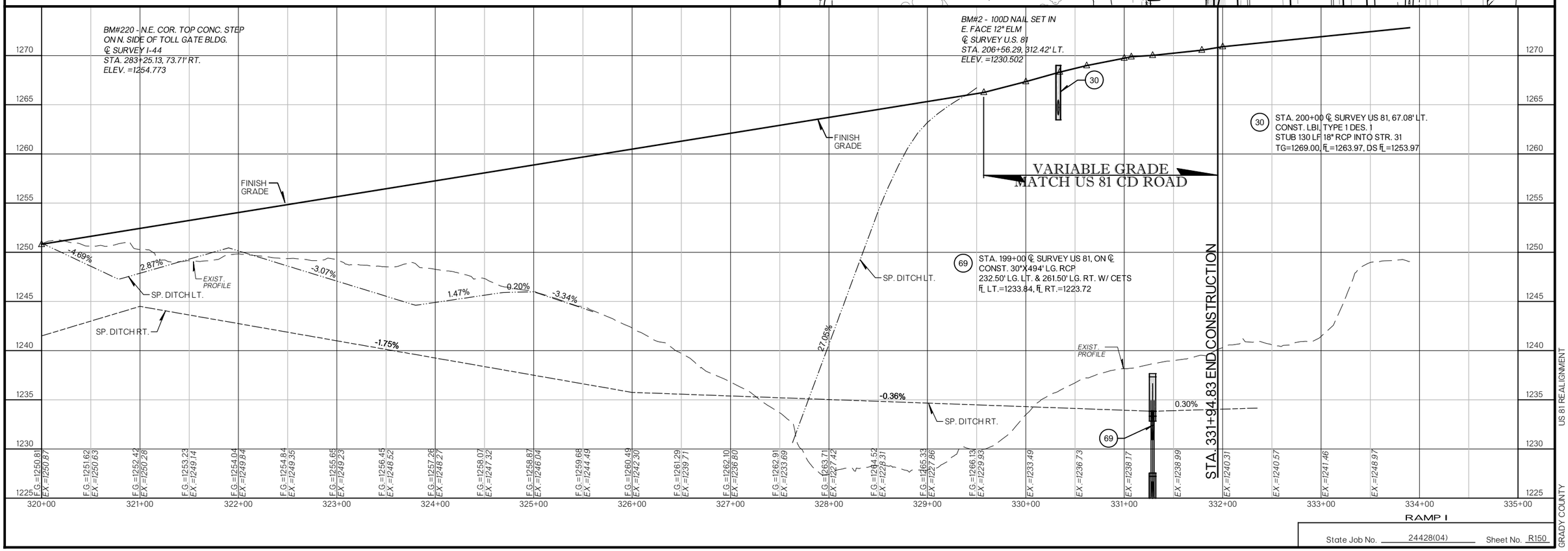
US 81 REALIGNMENT
GRADY COUNTY



SEC. 17 T6N R7W



SEC. 17 T6N R7W



State Job No. 24428(04) Sheet No. R150

PROPOSED R/W
AUGUST 2017

SEC. 18 T6N R7W

SEC. 17 T6N R7W

EXISTING LIMITS OF NO ACCESS

0 50′ 100′

STA. 256+12 TO 265+81
CONST. 1,017 L.F.
TYPE WWF FENCE

STA. 273+65 TO 281+29.44
CONST. 812 L.F.
TYPE WWF FENCE

+65 200′

R/W

TOC/TOS

PRES. R/W

CONTINUUM

NS 262

GOVT LOT 12
GOVT LOT 8

2180+00

2185+00

2190+00

265+00

270+00

275+00

122.1

CAUTION
GAS

WWF W/2-BW

CTC

℄ RAMP J

℄ RAMP J
N46°52'53.29"E

℄ I-44 WB CD RD. 2

℄ I-44 EB CD RD. 2

℄ RAMP G

℄ SURVEY I-44 (HE BAILEY TPK)

303.53'
N48°35'59.38"E

PC: 2180+97.86

PC: 2184+00.52

PC: 270+39.50

12'

8'

GUARDRAIL

ASPHALT

CONCRETE

82 83 84 85 86 88 89 90 91

25' U/E

EW 139.5

S89°34'13.03"E 2675.16'

GOVT LOT 12
GOVT LOT 8

+22.54-SIGN 53.3' LT.
+72.55-SIGN 55.2' RT.
+03.30-SIGN 55.2' RT.
+49.79-SIGN 53.4' RT.
+32.98-SIGN 53.4' RT.
+23.09-TP 53.6' LT.
+01.43-SIGN 51.2' RT.
+02.28-SIGN 0.01' LT.
+52.47-SIGN 53.7' LT.
+95.34-SIGN 47.7' RT.
+02.05-SIGN 0.4' RT.

RWD 7

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY I-44.

BM#82 - SET 3/4" I.P.(30" LONG)
℄ SURVEY I-44
STA. 264+99.64, 192.11' RT.
ELEV. =1244.102

BM#219 - 80D SPIKE IN POWER POLE,
E. R/W FENCE I-44
℄ SURVEY I-44
STA. 273+25.31, 199.18' RT.
ELEV. =1252.530

VARIABLE GRADE
MATCH I-44 H.E. BAILEY CD ROAD

(83) STA. 265+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 82 LF 18" RCP INTO DITCH LT. W/ CET
TG=1236.13, FL=1231.45, DS FL=1226.83

(85) STA. 268+26 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 96 LF 36" RCP INTO EXIST. INLET LT.
TG=1239.41, FL=1229.63, DS FL=1224.67

(88) STA. 270+50 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 80 LF 18" RCP INTO DITCH LT. W/ CET
TG=1241.52, FL=1236.84, DS FL=1233.79

(90) STA. 273+25 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 96 LF 18" RCP INTO DITCH LT. W/ CET
TG=1244.32, FL=1238.27, DS FL=1237.27

FINISH GRADE

EXIST. PROFILE

SP. DITCH LT.

SP. DITCH RT.

-0.66%
-0.90%
-0.60%
-0.72%
0.58%
1.66%
1.12%
2.80%
-6.09%

STA. 2177+97.85 - BEGIN CONSTRUCTION

EX.=1228.74 EX.=1229.57 EX.=1230.55 EX.=1231.40 EX.=1231.55 EX.=1231.55 EX.=1231.31 EX.=1230.60 EX.=1228.20 EX.=1230.46 EX.=1231.63 EX.=1232.79 EX.=1233.92 EX.=1235.34 EX.=1235.94 EX.=1236.54 EX.=1237.00 EX.=1237.25 EX.=1237.66 EX.=1238.58 F.G.=1243.27 EX.=1241.00 F.G.=1243.56 EX.=1243.22 F.G.=1243.85 EX.=1242.72 F.G.=1244.14 EX.=1240.32 F.G.=1244.43 EX.=1236.93

1255 1250 1245 1240 1235 1230 1225 1220 1215 1210

2175+00 2176+00 2177+00 2178+00 2179+00 2180+00 2181+00 2182+00 2183+00 2184+00 2185+00 2186+00 2187+00 2188+00 2189+00 2190+00

RAMP J

State Job No. 24428(04) Sheet No. R151

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 17 T6N R7W

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W
AND R/W DIMENSIONS SHOWN ARE FROM
THE ℄ SURVEY U.S. 81 UNLESS OTHERWISE NOTED.

0 50′ 100′

STA. 273+65 TO 281+29 I44
CONST. 812 L.F.
TYPE WWF FENCE

STA. 201+50 TO 204+96
CONST. 492 L.F.
TYPE WWF FENCE

STA. 204+96 TO 238+09
CONST. 3,355 L.F.
TYPE SWF (6WB) FENCE

LIMITS OF NO ACCESS

R/W

TOC/TOS

PRES. R/W

℄ RAMP J

℄ RAMP I

℄ L44 WB CD RD 2

℄ US 81 SB CD RD 21

GOVT LOT 8
GOVT LOT 7

2190+00
2195+00
2200+00
2205+00
2280+00

201+50
810'

204+85
465'

204+96.28
461'

BM#2

70

71

SEC. 17 T6N R7W

BM#220 - N.E. COR. TOP CONC. STEP
ON N. SIDE OF TOLL GATE BLDG.
℄ SURVEY I-44
STA. 283+25.13, 73.71' RT.
ELEV. =1254.773

BM#1 - 100D NAIL SET IN E. FACE 8" WOOD
POST, N. SIDE OF I-44
℄ SURVEY U.S. 81
STA. 197+99.60, 286.18' LT.
ELEV. =1249.874

BM#2 - 100D NAIL SET IN
E. FACE 12" ELM
℄ SURVEY U.S. 81
STA. 206+56.29, 312.42' LT.
ELEV. =1230.502

70 STA. 2191+00 ℄ RAMP J, 68.16' RT.
CONST. SMD, TYPE 2A
STUB 170 LF 30" RCP INTO DITCH LT. W/ CET
TG=1236.37, FL=1224.37, DS FL=1216.79

71 STA. 2203+80 ℄ RAMP J, ON ℄
CONST. 30"X156' LG. RCP
73' LG. LT. & 83' LG. RT. W/ CETS
FL LT.=1225.46, FL RT.=1226.69

FINISH GRADE
0.58%
0.80%
-0.30%
-1.45%
-1.26%
-2.80%
2.52%
0.00%
5.35%
-6.09%
-6.52%
4.02%
-1.62%

EXIST. PROFILE

SP. DITCH RT.
SP. DITCH LT.

PVC 2197+00
EL=1248.49

HIGH PT. 2198+25.98
EL=1248.85

PVI 2199+00
EL=1249.65

PVT 2201+00
EL=1247.13

400' V.C.
K=217

	2190+00	2191+00	2192+00	2193+00	2194+00	2195+00	2196+00	2197+00	2198+00	2199+00	2200+00	2201+00	2202+00	2203+00	2204+00	2205+00
F.G.	1244.43	1244.72	1245.01	1245.30	1245.59	1245.88	1246.17	1246.62	1247.91	1248.20	1248.49	1248.72	1248.84	1248.84	1248.50	1248.16
EX.	1236.93	1232.76	1222.28	1230.64	1237.69	1238.21	1240.54	1249.19	1249.24	1249.73	1249.61	1249.40	1248.84	1248.07	1247.16	1246.04
F.G.	1245.86	1245.23	1244.60	1243.97	1242.71	1242.08										
EX.	1237.94	1235.12	1232.67	1229.91	1224.33	1222.32										

RAMP J

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. R152

SEC. 17 T6N R7W

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

SEC. 8 T6N R7W

SEC. 7 T6N R7W

PROPOSED R/W
AUGUST 2017

LIMITS OF NO ACCESS

STA. 204+96 TO 237+65 US 81
CONST. 3,355 L.F.
TYPE SWF (6WB) FENCE

PRES. R/W
FW 139
2676.86'
S89°57'48.57"W
2652.58'
N00°05'51.03"W
NS 282
25' UE
TEMP. R/W
R/W
TOC/TOS
PRES. R/W (6 BW)
BM#3
BM#4
PT 2211+75.06
PI 2214+30.08
℄ RAMP J
N43°09'34.79"W
℄ US 81 SB CD RD. 2
℄ SURVEY US 81
(5 BW)
SEC. 8 T6N R7W

+09.58 282'
+50 275'
+58.13 284'
+55 335'
+55 292'
+20 335'
+20 299'
+50 300'
+54.71 267'
+98.85 276'
+50 220'
2205+00
2210+00
215+00
2215+00
220+00
0 50' 100'
8'
15'
2'
12'
8'

35 36 38 40 41 42 44 45 46 47

BM#3 - 100D NAIL SET IN
E. FACE 8" ELM
℄ SURVEY U.S. 81
STA. 213+74.34, 247.53' LT.
ELEV. =1192.676

BM#4 - SET 3/4" I.P.(30" LONG)
℄ SURVEY U.S. 81
STA. 221+88.54, 247.39' LT.
ELEV. =1216.539

38 STA. 213+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 174 LF 18" RCP INTO DITCH LT. W/ CET
TG=1232.47, FL=1217.47, DS FL=1194.53

40 STA. 216+72.15 ℄ SURVEY US 81, ON ℄
CONST. 14'X8'X532' LG. RCB
SKEW 25° RT. FWD.
273' LG. LT. & 259' LG. RT. W/ STD. 30°
END SECTS. & 4' CURTAIN WALLS
FL LT=1173.63, FL RT.=1171.00

41 STA. 217+35 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 64 LF 18" RCP INTO STR. 42
TG=1219.42, FL=1214.40, DS FL=1208.68

-1.26%
0.10%
4.02%
SP. DITCH RT.
FINISH GRADE
EXIST. PROFILE
VARIABLE GRADE
MATCH US 81 CD ROAD
SP. DITCH LT.
0.00%
-32.11%
31.43%
6.67%
STA. 2217+31.21 - END CONSTRUCTION

SCALE: HORIZ.: 1" = 50'
VERT.: 1" = 10'

| | | |

PROPOSED
R/W
AUGUST 2017

SEC. 17 T6N R7W

℄ US 81 SB CD RD. 1

℄ US 81 SB CD RD. 2

℄ RAMP G

℄ SURVEY US 81

℄ US 81 NB CD RD.

℄ RAMP K
N44°52'38.41"W

PT 169+22.58

PI 3172+00.00

3175+00

3179+00

12'

8'

EW 139.5

TOC/TOS

R/W

+00
240'

169+68.36
242.04'

N89°53'28.73"E
2648.98'

+00
250'

PC 3177+63.61

STA. 153+57 TO 195+07.41 US 81
CONST. 4,752 L.F.
TYPE SWF (5WB) FENCE

LIMITS OF NO ACCESS

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

0 50′ 100′

SEC. 17 T6N R7W

BM#217 - 80D SPIKE IN R.R. TIE FENCE POST ℄ SURVEY U.S. 81 STA. 174+72.74, 845.39' LT. ELEV. =1237.332

VARIABLE GRADE
MATCH US 81 CD ROAD

FINISH GRADE

STA. 3172+99.80 - BEGIN CONSTRUCTION

19 STA. 176+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. I
STUB 116 LF 18" RCP INTO DITCH RT. W/ CET
TG=1224.87, FL=1214.85, DS FL=1203.94

EXIST. PROFILE

SP. DITCH RT.

2.73%

EX.=1206.59 EX.=1208.48 EX.=1195.70 EX.=1194.05 EX.=1195.83 EX.=1198.30 EX.=1197.79 EX.=1198.70 EX.=1200.11 EX.=1214.38 EX.=1216.03 EX.=1205.28 EX.=1202.79

1235 1230 1225 1220 1215 1210 1205 1200 1195 1190

3164+00 3165+00 3166+00 3167+00 3168+00 3169+00 3170+00 3171+00 3172+00 3173+00 3174+00 3175+00 3176+00 3177+00 3178+00 3179+00

RAMP K

State Job No. 24428(04) Sheet No. R154

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 17 T6N R7W

℄ RAMP G

℄ US 81 SB CD RD. 2

℄ SURVEY US 81

180+00

20

23

3185+00

TOC/TOS

3190+00

℄ RAMP L

73

℄ RAMP K

72

21

℄ US 81 NB CD RD. 2

18

51

℄ RAMP K

NS 282.5

3179+00

187+00
420'

2656.02'
N00°21'02.54"E

188+47.33
530.50'

TOC/TOS

℄ RAMP K

18

2

99

3194+00

STA. 153+57 TO 195+07.41 US 81
CONST. 4,752 L.F.
TYPE SWF (5WB) FENCE

181+50
255'

TOC/TOS

R/W

LIMITS OF NO ACCESS

R/W

191+00
720'

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

0 50′ 100′

SEC. 17 T6N R7W

21 STA. 180+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 130 LF 18" RCP INTO DITCH RT. W/ CET
TG=1236.28, FL=1226.28, DS FL=1215.15

72 STA. 3181+10 ℄ RAMP K, 26.00' LT.
CONST. SMD, TYPE 2
STUB 104 LF 18" RCP INTO DITCH RT. W/ CET
TG=1238.63, FL=1228.63, DS FL=1217.86

73 STA. 3185+38 ℄ RAMP K, ON ℄
CONST. 30"X116' LG. RCP
63' LG. LT. & 53' LG. RT. W/ CETS
FL LT.=1228.63, FL RT.=1217.86

VARIABLE GRADE
MATCH US 81
CD ROAD

PVI 3182+50
EL=1241.83

PVI 3193+00
EL=1254.40

FINISH GRADE

EXIST. PROFILE

HIGH PT. 3191+71.75
EL=1251.69

PVC 3189+75
EL=1250.51

650' V.C.
K=164

PVT 3196+25
EL=1245.44

2.65%

1.20%

2.95%

-2.20%

-2.00%

3.96%

2.73%

PVC 3181+25
EL=1238.60

250' V.C.
K=181

PVT 3183+75
EL=1243.32

SP. DITCH LT.

SP. DITCH LT.

SP. DITCH RT.

21

72

73

	EX.=1202.79	EX.=1204.02	EX.=1208.91	EX.=1213.92	F.G.=1237.96 EX.=1222.32	F.G.=1239.23 EX.=1224.68	F.G.=1240.38 EX.=1227.20	F.G.=1241.40 EX.=1228.28	F.G.=1242.27 EX.=1231.10	F.G.=1243.01 EX.=1232.39	F.G.=1243.62 EX.=1233.47	F.G.=1244.22 EX.=1235.12	F.G.=1244.82 EX.=1236.65	F.G.=1245.42 EX.=1237.68	F.G.=1246.02 EX.=1239.12	F.G.=1246.62 EX.=1241.79	F.G.=1247.22 EX.=1243.45	F.G.=1247.82 EX.=1245.26	F.G.=1248.41 EX.=1246.19	F.G.=1249.01 EX.=1247.16	F.G.=1249.61 EX.=1248.94	F.G.=1250.21 EX.=1249.08	F.G.=1250.75 EX.=1249.86	F.G.=1251.24 EX.=1250.18	F.G.=1251.53 EX.=1250.68	F.G.=1251.67 EX.=1250.95	F.G.=1251.66 EX.=1251.05	F.G.=1251.50 EX.=1250.74	F.G.=1251.19 EX.=1250.58	F.G.=1250.72 EX.=1250.26	F.G.=1250.10 EX.=1250.36
	3179+00	3180+00	3181+00	3182+00	3183+00	3184+00	3185+00	3186+00	3187+00	3188+00	3189+00	3190+00	3191+00	3192+00	3193+00	3194+00																

RAMP K

State Job No. 24428(04) Sheet No. R155

US 81 REALIGNMENT
GRADY COUNTY

SEC. 8 T6N R7W

PROPOSED
R/W
AUGUST 2017

CHICKASHA CITY LIMITS

3195+00

3194+00

3200+00

3205+00

3210+00

3209+00

TOC/TOS

CONTINUUM
30' U/E

AERIAL WP

BM#76

RWD 7

WWF W/2 RW

109

111

74

75

112

113

114

115

PRES R/W

R/W

℄ RAMP K

℄ RAMP N

℄ I-44 WB CD RD 2

℄ I-44 EB CD RD 2

℄ SURVEY I-44 (HE BAILY TPK)

ASPHALT
CONCRETE
ASPHALT
ASPHALT
CONCRETE
ASPHALT

CAUTION -
OH POWER

CAUTION -
GAS
WATER

NS 282.5

2656.02'
N00°21'02.51"E

195+07.41
1430'

191+88.72
874.62'

LIMITS OF NO ACCESS

STA. 153+57 TO 195+07.41 US 81
CONST. 4,752 L.F.
TYPE SWF (5WB) FENCE

0 50' 100'

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

BM#77

GRAVEL

PT 3206+86.39

SEC. 17 T6N R7W

SEC. 8 T6N R7W

+59.82 - SIGN 265.3' RT.
+64.48 - POWRIS 255.8' RT.
+39.28 - POWPOL 199.5' RT.
+11.44 - POWPOL 143.1' RT.
+41.10 - POWPOL 189.9' RT.
+42.36 - SIGN 204.1' RT.
+46.38 - POWRIS 204.7' RT.
+35.36 - SIGN 207.7' LT.
+37.76 - SIGN 63.7' RT.
+55.07 - SIGN 50.3' LT.
+77.27 - POWPOL 135.9' RT.
+77.98 - SIGN 141.7' LT.
+09.65 - POWPOL 132.7' RT.

BM#76 - SET 3/4" I.P.(30" LONG)
℄ SURVEY I-44
STA. 298+85.08, 158.03' RT.
ELEV. =1245.168

BM#77 - SET 3/4" I.P.(30" LONG)
℄ SURVEY I-44
STA. 307+00.59, 200.57' RT.
ELEV. =1227.465

74 STA. 3199+00 ℄ RAMP K, 49.00' LT.
CONST. SMD, TYPE 2A
STUB 104 LF 30" RCP INTO DITCH RT. W/ CET
TG=1233.93, FL=1227.09, DS FL=1226.50

75 STA. 3201+75 ℄ RAMP K, 41.00' LT.
CONST. SMD, TYPE 2
STUB 78 LF 18" RCP INTO DITCH RT. W/ CET
TG=1228.14, FL=1225.58, DS FL=1224.92

113 STA. 306+00 ℄ SURVEY I-44 (HE BAILY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 88 LF 18" RCP INTO DITCH RT. W/ CET
TG=1229.51, FL=1224.83, DS FL=1222.82

115 STA. 309+00 ℄ SURVEY I-44 (HE BAILY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 72 LF 18" RCP INTO DITCH RT. W/ CET
TG=1226.15, FL=1221.47, DS FL=1220.17

280' V.C.
K=125

PVC 3189+50
EL=1250.51

650' V.C.
K=164

PVT 3196+25
EL=1245.44

PVC 3200+60
EL=1233.44

PVI 3202+00
EL=1229.57

PVT 3203+40
EL=1228.86

VARIABLE GRADE
MATCH I-44 CD ROAD

EXIST. PROFILE

FINISH GRADE

SP. DITCH RT.

SP. DITCH LT.

-3.91%
-2.76%
-0.58%
-2.97%
-0.91%
-0.50%
0.14%
1.54%
0.51%
-0.80%

| | | |

PROPOSED R/W
AUGUST 2017

SEC. 8 T6N R7W

3210+00

3209+00

3215+00

3220+00

PRES. R/W

WWF W/2-BW

TOC/TOS

CTC

25' U/E

℄ RAMP N

℄ I-44 WB CD RD. 2

℄ I-44 WB CD RD. 3

℄ SURVEY I-44 (HE BAILY TPK)

PI: 3210+00.24

℄ I-44 EB CD RD. 2

℄ I-44 EB CD RD. 3

℄ RAMP K

N39°32'53.29"E

12'

8'

ASPHALT

CONCRETE

116

117

118

119

120

121

146.35'

ENABLE

BM#78

BM#99

BM#79

CONTINUUM

AEP(3-BW)

CHICHASHA CITY LIMITS

LIMITS OF NO ACCESS

+78.62-SIGN 72.3' RT.
+78.84-SIGN 51.8' LT.

+63.50-SIGN 2.6' RT.

+42.78-POWPOL 130.0' RT.

0 50' 100'

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY I-44.

BM#78 - SET 3/4" I.P.(30" LONG)
℄ SURVEY I-44
STA. 314+30.67, 184.43' RT.
ELEV. =1214.739

BM#99 - CHIX. "X" SET, TOP CENTER HEADWALL
℄ SURVEY I-44
STA. 320+53.51, 168.85' RT.
ELEV. =1206.349

BM#79 - SET 3/4" I.P. (30" LONG)
℄ SURVEY I-44
STA. 322+38.88, 141.94' RT.
ELEV. =1206.275

VARIABLE GRADE
MATCH I-44 CD ROAD

117 STA. 312+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 74 LF 18" RCP INTO DITCH RT. W/ CET
TG=1223.07, FL=1218.39, DS FL=1216.62

FINISH GRADE

-1.19%

EXIST. PROFILE

SP. DITCH RT.

STA. 3213+00.38 - END CONSTRUCTION

1245 1240 1235 1230 1225 1220 1215 1210 1205 1200

EX.=1221.94 EX.=1219.77 EX.=1218.96 EX.=1218.59 EX.=1217.90 EX.=1216.98 EX.=1216.47 EX.=1215.82 EX.=1215.19

3209+00 3210+00 3211+00 3212+00 3213+00 3214+00 3215+00 3216+00 3217+00 3218+00 3219+00 3220+00 3221+00 3222+00 3223+00 3224+00

RAMP K

State Job No. 24428(04) Sheet No. R157

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

SEC. 17 T6N R7W

℄ I-44 WB CD RD. 2
℄ I-44 EB CD RD. 2
℄ SURVEY I-44 (HE BAILEY TPK)
℄ RAMP I
℄ RAMP H
℄ RAMP M
℄ RAMP L
℄ US 81 SB CD RD. 2
228+63
195+00
215+00
CHICKASHA CITY LIMITS
PRES. R/W
CONTINUUM 30' U/E
TOC/TOS
TOLL BOOTH
BLDG.
CONCRETE
ASPHALT
GRAVEL
GUARDRAIL
RWD 7
AEP(2-WP)
AEP(3-WP)
WWF W/2-BW
CTC
CLF
GOVT LOT 8
0 50' 100'

BM#220 - N.E. COR. TOP CONC. STEP ON N. SIDE OF TOLL GATE BLDG.
℄ SURVEY I-44
STA. 283+25.13, 73.71' RT.
ELEV. =1254.773

BM#1 - 100D NAIL SET IN E. FACE 8" WOOD POST, N. SIDE OF I-44
℄ SURVEY U.S. 81
STA. 197+99.60, 286.18' LT.
ELEV. =1249.874

STA. 229.17 ℄ 14'X14'X20'09" RDX. RCB SD'XING @ 77.55' RT. & 123.54' LT.
TE ELEV. SE=1218.40 RT.
TE ELEV NW=1213.06 LT.
PT 292+98.50
PRC 213+55.35
PT 225+49.87
+36.16-POWPOL 156.4' RT.
+42.01-LP-44.0' LT.
+46.88-SIGN 48.3' RT.
+63.76-SIGN 50.7' LT.
+07.33-SIGN 48.7' RT.
+89.16-POWPOL 156.6' RT.
+07.10-SIGN 45.2' LT.
+89.34-SIGN 0.1' LT.
+90.10-SIGN 51.5' LT.
+89.82-SIGN 47.7' LT.
+44.78-POWPOL 150.6' RT.
+88.63-SIGN 0.1' RT.
+90.55-SIGN 47.7' LT.

VARIABLE GRADE
MATCH I-44 H.E. BAILEY CD ROAD

101 STA. 291+85 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 82 LF 30" RCP INTO STR. 100
TG=1244.51, FL=1230.87, DS FL=1227.92

104 STA. 294+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 120 LF 18" RCP INTO DITCH RT. W/ CET
TG=1242.23, FL=1236.74, DS FL=1236.38

600' V.C.
K=86
FINISH GRADE
PVC 214+20
EL=1241.49
PVT 220+20
EL=1250.60
-11.24%
-1.90%
EXIST. PROFILE
-1.53%
0.57%
SP. DITCH LT.
SP. DITCH RT.

STA. 210+19.06 - BEGIN CONSTRUCTION

EX.=1237.58
EX.=1236.69
EX.=1236.13
EX.=1235.05
EX.=1235.73
EX.=1236.08
EX.=1236.80
EX.=1237.37
F.G.=1240.96
EX.=1240.48
F.G.=1240.29
EX.=1243.01

1260 1255 1250 1245 1240 1235 1230 1225 1220 1215

200+00 201+00 202+00 203+00 204+00 205+00 206+00 207+00 208+00 209+00 210+00 211+00 212+00 213+00 214+00 215+00

RAMP L

State Job No. 24428(04) Sheet No. R158

US 81 REALIGNMENT
GRADY COUNTY

SEC. 17 T6N R7W

TOC/TOS

℄ RAMP L

30' U/E

CONTINUUM

RWD

AS-16-WP-1W

PRES R/W

CAUTION :
OH POWER
GAS
WATERLINE

0 50′ 100′

215+00

220+00

224+00

SEC. 17 T6N R7W

PROPOSED
R/W
AUGUST 2017

℄ RAMP H

℄ US 81 SB CD RD. 2

225+00

227+63

℄ SURVEY US 81

CAUTION :
OH POWER
WATERLINE

290+00

℄ RAMP J

N44°52'38"E

224+00

PT: 225+49.87

12'

8'

TOC/TOS

CONTINUUM

30' U/E

RWD

WWF W/2-BW

CTC

℄ SURVEY I-441/HE BAILEY TPK

℄ I-441 WB CD RD. 2

℄ RAMP M

℄ I-441 EB CD RD 2

PRC: 213+55.35

PRES R/W

STA: 290+80.86 OFFSET
144.94' LT ℄ 18°X66.67' CMP S.D.
FL ELEV. NE = 1214.21
FL ELEV. SW = 1216.26

VARIABLE GRADE
MATCH U.S. 81 CD ROAD

PVI 222+95
EL=1264.35

FINISH GRADE

2.37% 2.26% 6.96% 7.80% 11.10% 14.40% 18.70% 9.20% 23.80% 5.00%

600' V.C.
K=86

300' V.C.
K=114

PVC 214+20
EL=1241.49

PVT 220+20
EL=1250.60

PVC 221+45
EL=1256.85

PVT 224+45
EL=1267.90

28 STA. 193+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 140 LF 18" RCP INTO DITCH RT. W/ CET
TG=1270.18, FL=1255.18, DS FL=1242.36

STA. 226+76.90 - END CONSTRUCTION

LOW PT. 215+89.23
EL=1239.83

EXIST. PROFILE

FINISH GRADE

SP. DITCH LT.

-4.80% -3.99% 0.30% 0.52% -3.08%

PVI 217+20
EL=1235.60

SP. DITCH RT.

EXIST. PROFILE

| | | |

PROPOSED
R/W
AUGUST 2017

SEC. 17 T6N R7W

℄ RAMP H

℄ US 81 SB CD RD. 2

℄ SURVEY US 81

℄ US 81 NB CD RD. 2

℄ RAMP I

℄ RAMP L

℄ RAMP M

℄ I-44 EB CD RD. 2

℄ I-44 WB CD RD. 2

℄ SURVEY I-44 (E BAILEY TPK)

BL RAMP M
N44°52'38.41"W

315+00

300+00

302+00

CHICKASHA CITY LIMITS

PRES. R/W

CONTINUUM 50' UTE

TOC/TOS

BL RAMP M

24 25 26 27 28 30 31 69 98 99 100 101

0 50′ 100′

SEC. 17 T6N R7W

VARIABLE GRADE
MATCH US 81 CD ROAD

(31) STA. 200+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. I
STUB 194 LF 18" RCP INTO DITCH RT. W/ CET
TG=1268.97, FL=1253.97, DS FL=1221.89

-1.02%

FINISH GRADE

13.00%

-9.60%

-21.60%

SP. DITCH LT.

(69) STA. 199+00 ℄ SURVEY US 81, ON ℄
CONST. 30"X494' LG. RCP
232.50' LG. LT. & 261.50' LG. RT. W/ CETS
FL LT.=1233.84, FL RT.=1223.72

EXIST. PROFILE

-1.83%

SP. DITCH RT.

PVC 301+45
EL=1264.29

PVT 303+55
EL=1256.18

210' V.C.
K=92

STA. 298+40.59 - BEGIN CONSTRUCTION

EX.=1246.03 EX.=1233.79 EX.=1230.21 EX.=1223.80 EX.=1223.76 EX.=1225.16 EX.=1224.48 EX.=1222.47 EX.=1214.88 F.G.=1264.15 EX.=1209.85 F.G.=1262.83 EX.=1199.09

1285 1280 1275 1270 1265 1260 1255 1250 1245 1240 1235 1230 1225 1220 1215 1210 1205 1200 1195 1190

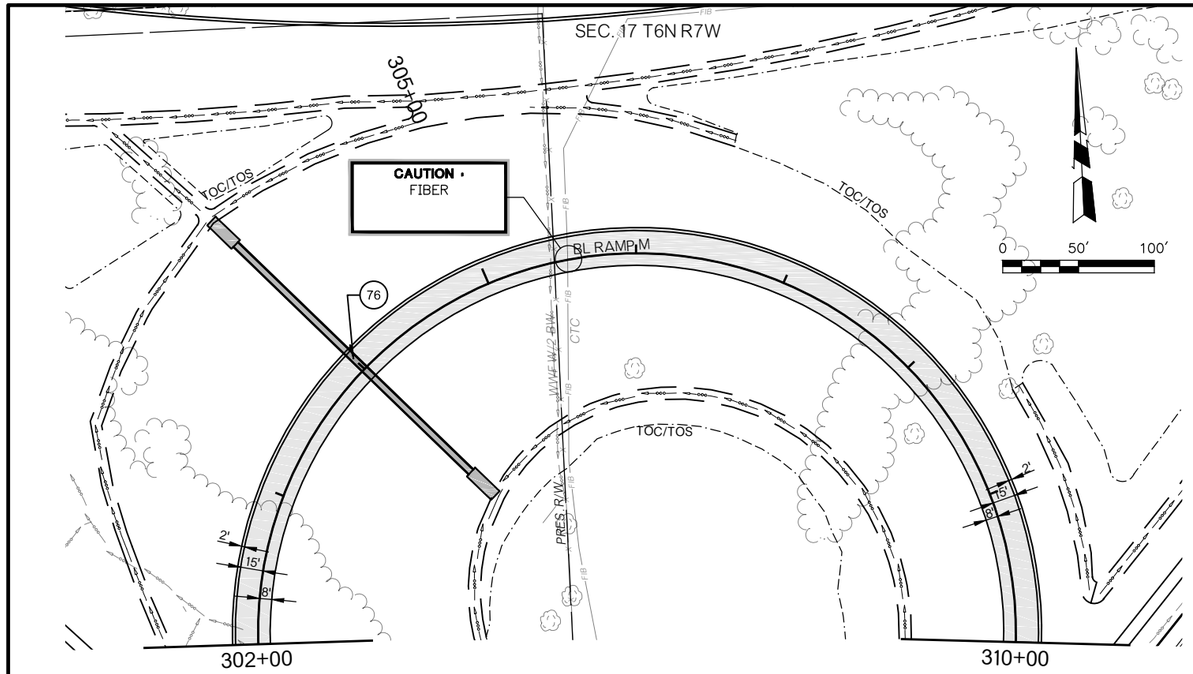
287+00 288+00 289+00 290+00 291+00 292+00 293+00 294+00 295+00 296+00 297+00 298+00 299+00 300+00 301+00 302+00

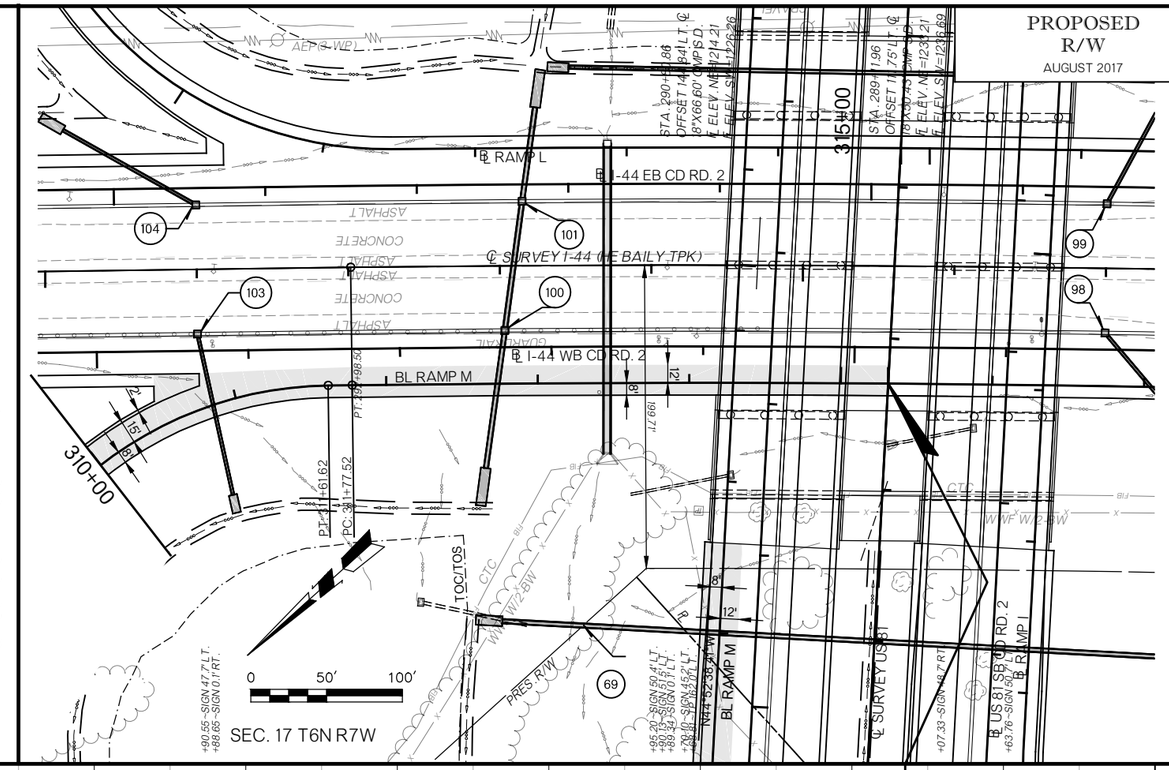
SCALE: HORIZ.: 1" = 50′
VERT.: 1" = 10′

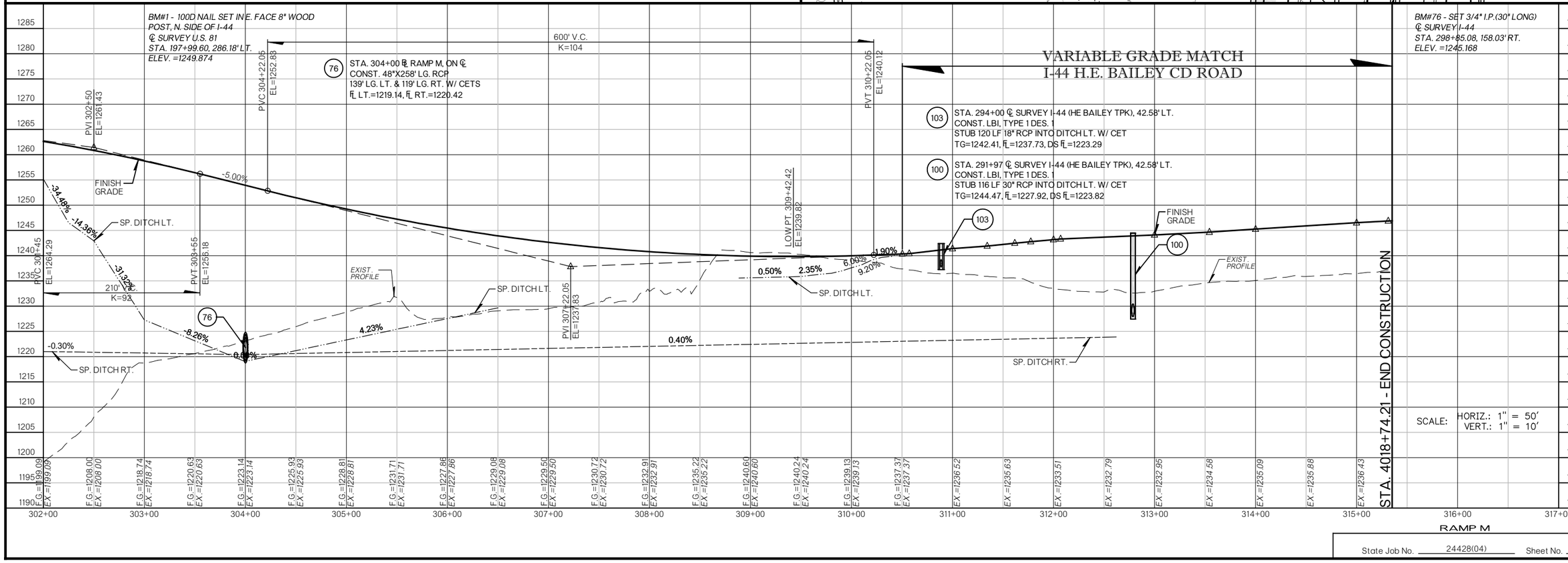
RAMP M

State Job No. 24428(04) Sheet No. R160

US 81 REALIGNMENT
GRADY COUNTY







State Job No. 24428(04) Sheet No. R161

SEC. 8 T6N R7W

PROPOSED R/W
AUGUST 2017

AEP(3-WP)
TOC/TOS
ENABLE
℄ RAMP K
℄ I-44 EB CD RD. 2
℄ SURVEY I-44 (HE BAILEY TPK)
PI 4178+94.17
℄ I-44 WB CD RD. 2
℄ RAMP N
S41°15'59.38"W
12'
8'
172.33'
CTC
PRES. R/W
WWF W/2-BW
TOC/TOS
R/W
199+54.59
2315'
PC 4181+96.78
199+40
1625'
LIMITS OF NO ACCESS
STA. 312+69 TO 294+97 I44
CONST. 615 L.F.
TYPE WWF FENCE
20' U/E
315+00
310+00
305+00
4180+00
4185+00
4188+00
N00°21'33.18"W
2653.18'
NS 282.5
CAUTION :
FIB
+63.50-SIGN 2.6' RT.
+78.84-SIGN 51.8' LT.
+78.76-SIGN 61.5' RT.
+77.98-SIGN 47.7' LT.
+54.39-TP 147.9' LT.
+54.87-SIGN 47.8' LT.
+37.76-SIGN 63.7' RT.
+35.38-SIGN 50.7' LT.
+35.24-SIGN 62.3' LT.
0 50′ 100′

BM#78 - SET 3/4" I.P.(30" LONG)
℄ SURVEY I-44
STA. 314+30.67, 184.43' RT.
ELEV. =1214.739

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US 81.

BM#77 - SET 3/4" I.P.(30" LONG)
℄ SURVEY I-44
STA. 307+00.59, 200.57' RT.
ELEV. =1227.465

(77) STA. 4187+23 ℄ RAMP N, 49.00' LT.
CONST. SMD, TYPE 2A
STUB 86 LF 30" RCP INTO DITCH RT. W/ CET
TG=1227.86, FL=1223.98, DS FL=1223.55

(112) STA. 306+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 94 LF 18" RCP INTO DITCH LT. W/ CET
TG=1229.46, FL=1224.77, DS FL=1222.07

(116) STA. 312+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 84 LF 18" RCP INTO DITCH LT. W/ CET
TG=1223.03, FL=1218.35, DS FL=1214.52

(114) STA. 309+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 80 LF 18" RCP INTO DITCH LT. W/ CET
TG=1226.05, FL=1221.37, DS FL=1218.29

VARIABLE GRADE
MATCH I-44 HE BAILEY CD ROAD

STA. 4175+94.04 - BEGIN CONSTRUCTION

FINISH GRADE
EXIST. PROFILE
SP. DITCH RT.
SP. DITCH LT.
0.30%
1.28%
0.78%
-0.94%
0.00%
PVI 4187+00 EL=1229.83
PVC 4185+95 EL=1229.01
PVT 4188+05 EL=1230.37
210' V.C.
K=795

EX.=1214.50
EX.=1214.85
EX.=1215.11
EX.=1215.60
EX.=1215.61
EX.=1215.86
EX.=1216.73
EX.=1219.15
EX.=1220.85
EX.=1220.48
EX.=1221.15
EX.=1222.83
EX.=1224.06
EX.=1225.31
EX.=1226.01
EX.=1226.51
EX.=1226.89
EX.=1228.03
EX.=1229.06
F.G.=1228.66 EX.=1229.76
F.G.=1229.05 EX.=1229.90
F.G.=1229.42 EX.=1230.67
F.G.=1229.76 EX.=1231.56
F.G.=1230.07 EX.=1233.35
F.G.=1230.35 EX.=1234.14

1245 1240 1235 1230 1225 1220 1215 1210 1205 1200

4173+00 4174+00 4175+00 4176+00 4177+00 4178+00 4179+00 4180+00 4181+00 4182+00 4183+00 4184+00 4185+00 4186+00 4187+00 4188+00

RAMP N

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. R162

PROPOSED
R/W
AUGUST 2017

SEC. 17 T6N R7W

SEC. 8 T6N R7W

℄ SURVEY I-44 (HE BAILEY TP

℄ I-44 WB CD RD 2

℄ US 81 NB CD RD 2

TOC/TOS

CTC

WWF W/2-BW

PRES. R/W

EW 139
2676.86'
S89°57'48.57"W

℄ RAMP N

4188+00

4190+00

4195+00

4200+00

4203+00

300+00

76

78

34

STA. 312+69 TO 294+97 I-44
CONST. 615 L.F.
TYPE WWF FENCE

200+25
1255.00'

203+25
740.00'

206+00
495.00'

LIMITS OF NO ACCESS

R/W

STA. 206+00 TO 225+00 US 81
CONST.1,953 L.F.
TYPE SWF (5WB) FENCE

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

0 50′ 100′

BM#76 - SET 3/4" I.P.(30" LONG)
℄ SURVEY I-44
STA. 298+85.08, 158.03' RT.
ELEV. =1245.168

BM#2 - 100D NAIL SET IN
E. FACE 12" ELM
℄ SURVEY U.S. 81
STA. 206+56.29, 312.42' LT.
ELEV. =1230.502

EXIST. PROFILE

FINISH GRADE

SP. DITCH RT.

SP. DITCH LT.

0.52%
-0.36%
-3.22%
-2.20%
3.40%
1.84%

78 STA. 4200+00 ℄ RAMP N, ON ℄
CONST. 48"X186' LG. RCP
99' LG. LT. & 87' LG. RT. W/ CETS
℄ LT.=1216.06, ℄ RT.=1213.64

PRVC 4185+95
ELEV.=1230.35
PVI 4188+05
ELEV.=1230.37
PRVT 4190+15
ELEV.=1230.37
K=795

| | | |

PROPOSED
R/W
AUGUST 2017

SEC. 8 T6N R7W

℄ SURVEY US 81

℄ RAMP J

℄ US 81 SB CD RD. 2

℄ US 81 NB CD RD. 2

℄ RAMP N

N44°52'12.16"W

PT: 4209+83.76

PI: 4210+37.11

4203+00

4205+00

4210+00

4215+00

0 50' 100'

TOC/TOS

R/W

+00
350'

+75
270'

+75
305'

+75
300'

+00
215'

+93.83
215'

+40.68
215'

NS 282

N00°05'03"W

2652.58'

PRES. R/W

(6.8W)

STA. 206+00 TO 225+00 US 81
CONST.1,953 L.F.
TYPE SWF (5WB) FENCE

LIMITS OF NO ACCESS

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

(37) STA. 208+75 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 92 LF 18" RCP INTO DITCH RT. W/ CET
TG=1245.20, FL=1236.44, DS FL=1226.78

BM#3 - 100D NAIL SET IN E. FACE 8" ELM ℄ SURVEY U.S. 81 STA. 213+74.34, 247.53' LT. ELEV. =1192.676

(79) STA. 4206+35.22 ℄ RAMP N, 26.92' LT.
CONST. SMD, TYPE 2
STUB 168 LF 18" RCP INTO DITCH RT. W/ CET
TG=1233.99, FL=1223.99, DS FL=1193.27

(41) STA. 217+35 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 64 LF 18" RCP INTO STR. 42
TG=1219.42, FL=1214.40, DS FL=1208.68

(42) STA. 217+35 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 64 LF 18" RCP INTO STR. 43
TG=1216.68, FL=1208.68, DS FL=1199.40

(43) STA. 217+35 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 188 LF 18" RCP INTO STR. 40
TG=1219.42, FL=1199.40, DS FL=1176.18

(45) STA. 220+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 120 LF 18" RCP INTO DITCH RT. W/ CET
TG=1212.23, FL=1202.23, DS FL=1189.18

BM#4 - SET 3/4" I.P.(30" LONG) ℄ SURVEY U.S. 81 STA. 221+88.54, 247.39' LT. ELEV. =1216.539

0.52%
-0.69%
0.00%
-2.76%
4.61%

HIGH PT. 4203+61.90
EL=1238.28

PVC 4203+14.65
EL=1238.16

PVI 4204+64.85
EL=1238.93

PVT 4206+14.65
EL=1234.79

300' V.C.
K=92

SP. DITCH LT.

FINISH GRADE

EXIST. PROFILE

VARIABLE GRADE
MATCH US 81 C/D ROAD

(40) STA. 216+72.15 ℄ SURVEY US 81, ON ℄
CONST. 14'X8'X532' LG. RCB
SKEW 25° RT. FWD.
273' LG. LT. & 259' LG. RT. W/ STD. 30° END SECTS. & 4' CURTAIN WALLS
FL LT=1173.63, FL RT.=1171.00

-3.84%
0.00%
33.33%
SP. DITCH RT.

STA. 4215+37.31 - END CONSTRUCTION

F.G.=1238.08 EX.=1190.56
F.G.=1238.27 EX.=1190.24
F.G.=1238.20 EX.=1190.82
F.G.=1237.86 EX.=1189.26
F.G.=1237.24 EX.=1190.19
F.G.=1236.35 EX.=1190.47
F.G.=1235.19 EX.=1189.69
F.G.=1233.82 EX.=1188.19
EX.=1186.81
EX.=1187.04
EX.=1182.18
EX.=1185.20
EX.=1185.22
EX.=1175.27
EX.=1174.41
EX.=1173.78
EX.=1179.39
EX.=1183.51
EX.=1186.33
EX.=1187.83
EX.=1190.26
EX.=1192.63
EX.=1193.69
EX.=1194.70
EX.=1195.91

1250 1245 1240 1235 1230 1225 1220 1215 1210 1205 1200 1195 1190 1185 1180 1175 1170 1165 1160 1155

4203+00 4204+00 4205+00 4206+00 4207+00 4208+00 4209+00 4210+00 4211+00 4212+00 4213+00 4214+00 4215+00 4216+00 4217+00 4218+00

RAMP N

State Job No. 24428(04) Sheet No. R164

US 81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

LIMITS OF NO ACCESS

SEC. 7 T6N R7W

STA. 251+52.16 TO
288+03.83 CONST.
3,651.67 L.F. TYPE
WWF FENCE

+98.38
145.26'

+01.52
178'

R/W

TOC/TOS

POB 998+66.78

BRIDGE 'H'

℄ RAMP O

℄ SURVEY US 81

MATCHLINE STA. 1010+00

3

PI 1001+67.02

BRIDGE 'I'

CAUTION :
WATERLINE
TUG
OH POWER

+00
110'

NS 281.5

N 0°03'54.22" W
2650.02'

+66.76
190'

STA. 252+66.76 TO
279+00 CONST.
2,633.24 L.F. TYPE
WWF FENCE

200'

STA. 238+25 TO
250+78.13 CONST. 1,253.13
L.F. TYPE WWF FENCE

RAILROAD R/W

STILL WATER CENTRAL RAILROAD

COMP
NE=1227.63
SW=1227.66

175'

66'

60'

50'

SEC. 7 T6N R7W

HOR 0 50' 100'
VER 0 5' 10'

NOTE:
ALL BENCHMARKS, UTILITY, PRES.
R/W AND R/W DIMENSIONS SHOWN
ARE FROM THE ℄ SURVEY U.S. 81.

(126) STA. 265+00.00 ℄ SURVEY US 81, ON ℄
CONST. SMD-TYPE 2
STUB 119 LF 18" RCP INTO DITCH LT. W/ CET
TG=1219.40, fL=1216.58, DS fL=1215.40

EXIST. PROFILE

FINISH GRADE

IDENTICAL POINTS

PVI 998+66.78 Elev= 1255.57
-1.52%
PVI 999+00.00 Elev= 1255.07
-1.82%
PVI 1000+00.00 Elev= 1253.25
-2.16%
PVI 1000+50.00 Elev= 1252.17
-2.24%
PVI 1001+00.00 Elev= 1251.05
-2.55%
PVI 1002+00.00 Elev= 1248.50
-2.92%
PVI 1003+00.00 Elev= 1245.58
-3.25%
PVI 1004+00.00 Elev= 1242.33
-3.30%
PVI 1005+00.00 Elev= 1239.03
-3.3
0%
PVI 1006+00.00 Elev= 1235.73
-3.30%
PVI 1007+00.00 Elev= 1232.43
-3.29%
PVI 1008+00.00 Elev= 1229.14
-3.30%
PVI 1009+00.00 Elev= 1225.84
-3.30%
PVI 1010+00.00

E.G.=1255.97 E.S.=1256.70
E.G.=1254.16 E.S.=1256.43
E.G.=1253.25 E.S.=1254.25
E.G.=1252.17 E.S.=1253.80
E.G.=1251.05 E.S.=1252.94
E.G.=1249.78 E.S.=1251.20
E.G.=1248.50 E.S.=1251.14
E.G.=1247.04 E.S.=1245.71
E.G.=1245.58 E.S.=1246.89
E.G.=1243.96 E.S.=1245.24
E.G.=1242.33 E.S.=1243.59
E.G.=1240.68 E.S.=1243.94
E.G.=1239.03 E.S.=1243.22
E.G.=1237.38 E.S.=1242.80
E.G.=1235.73 E.S.=1242.00
E.G.=1234.08 E.S.=1241.58
E.G.=1232.43 E.S.=1240.97
E.G.=1230.78 E.S.=1240.87
E.G.=1229.14 E.S.=1240.21
E.G.=1227.49 E.S.=1239.24
E.G.=1225.84 E.S.=1237.96
E.G.=1224.19 E.S.=1236.12
E.G.=1222.54 E.S.=1234.12

1255 1250 1245 1240 1235 1230 1225 1220 1215

1230 1225 1220 1215 1210 1205 1200 1195 1190 1185

995+00 996+00 997+00 998+00 999+00 1000+00 1001+00 1002+00 1003+00 1004+00 1005+00 1006+00 1007+00 1008+00 1009+00 1010+00

RAMP O

State Job No. 24428(04) Sheet No. R165

PROPOSED
R/W
AUGUST 2017

SEC. 7 T6N R7W

HOR 0 50' 100'
VER 0 5' 10'

1010+00 1015+00 1020+00 1025+00

LIMITS OF NO ACCESS

STA. 251+52.16 TO
288+03.83 CONST.
3,651.67 L.F. TYPE
WWF FENCE

+96.12
156.60'

+78.85
343.09'

PT 1025+55.54

MATCHLINE STA. 1010+00

MATCHLINE STA. 1025+00

R/W

TOC/TOS

℄ RAMP O

℄ SURVEY US 81

1090+53

1090+52.93

1010+45.95

127

128

SEC. 7 T6N R7W

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

Elev= 1222.54
-3.29%
PVI 1011+00.00 Elev= 1219.25
-3.30%
PVI 1012+00.00 Elev= 1215.95
-3.55%
PVI 1013+00.00 Elev= 1212.40
-3.45%
PVI 1014+00.00 Elev= 1208.95
-3.45%
PVC 1014+75.00 Elev= 1206.36
150' V.C.
K= 140.56
PVT 1016+25.00 Elev= 1201.99
PVI 1015+50.00 Elev= 1203.78

EXIST. PROFILE

FINISH GRADE

IDENTICAL POINTS

SP. DITCH LT.

1230 1225 1220 1215 1210 1205 1200 1195 1190 1185

1210 1205 1200 1195 1190 1185 1180 1175 1170 1165

E.G.=1222.54 E.S.=1234.12
E.G.=1220.89 E.S.=1231.80
E.G.=1219.25 E.S.=1229.91
E.G.=1217.60 E.S.=1227.96
E.G.=1215.95 E.S.=1226.43
E.G.=1214.18 E.S.=1223.76
E.G.=1212.40 E.S.=1222.51
E.G.=1210.68 E.S.=1221.56
E.G.=1208.95 E.S.=1220.48
E.G.=1207.23 E.S.=1221.42
E.G.=1205.52 E.S.=1220.59
E.G.=1203.98 E.S.=1221.23
E.G.=1202.61 E.S.=1221.10
E.G.=1201.39 E.S.=1220.32
E.G.=1200.29 E.S.=1217.99
E.G.=1199.01 E.S.=1218.00
E.G.=1197.82 E.S.=1213.37
E.G.=1196.63 E.S.=1209.81
E.G.=1195.44 E.S.=1206.45
E.G.=1194.24 E.S.=1203.53
E.G.=1193.05 E.S.=1200.26
E.G.=1191.86 E.S.=1196.99
E.G.=1190.67 E.S.=1193.17
E.G.=1189.48 E.S.=1189.91
E.G.=1188.29 E.S.=1188.38
E.G.=1187.10 E.S.=1187.74
E.G.=1185.90 E.S.=1185.82
E.G.=1184.71 E.S.=1183.46
E.G.=1183.52 E.S.=1182.58
E.G.=1182.33 E.S.=1180.27
E.G.=1181.14 E.S.=1180.19

1010+00 1011+00 1012+00 1013+00 1014+00 1015+00 1016+00 1017+00 1018+00 1019+00 1020+00 1021+00 1022+00 1023+00 1024+00 1025+00

RAMP O

State Job No. 24428(04) Sheet No. R166

PROPOSED
R/W
AUGUST 2017

LIMITS OF NO ACCESS

MATCHLINE STA. 1025+00

SEC. 7 T6N R7W

℄ RAMP O

℄ RAMP P

10C/10S

PC 1029+28.29

PT 1031+16.14

+69.29
746.45'

R/W

LIMITS OF NO ACCESS

+00
630'

STA. 251+52.16 TO
288+03.83 CONST.
3,651.67 L.F. TYPE
WWF FENCE

+03.83
744.72'

SEC. 6 T6N R7W

WWF

PRES.STR.W

℄ SURVEY-COUNTRY CLUB RD.

1035+00

1034+21

+03.83
744.72'

STA. 288+53.99 TO
338+39.79 CONST.
4,985.80 L.F. TYPE
WWF FENCE

LIMITS OF NO ACCESS

128

129

130

PDF 1035+21.81

CAUTION :
WATERLINE
OH POWER

SEC. 7 T6N R7W

SEC. 6 T6N R7W

0 50' 100'
HOR
0 5' 10'
VER

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

300' V.C.
K= 104.06

PVC 1031+50.00
Elev= 1165.65

LOW PT. 1033+97.97
Elev 1162.70

PVT 1034+50.00
Elev= 1162.83

PVI 1035+20.98
Elev= 1163.18

0.50%

PVI 1033+00.00
Elev= 1162.08

EXIST. PROFILE

FINISH GRADE

SP. DITCH LT.

1190
1185
1180
1175
1170
1165
1160
1155
1150
1145

1025+00	1026+00	1027+00	1028+00	1029+00	1030+00	1031+00	1032+00	1033+00	1034+00	1035+00
E.G.=1181.14	E.G.=1179.95	E.G.=1178.76	E.G.=1177.56	E.G.=1176.37	E.G.=1175.18	E.G.=1173.99	E.G.=1172.80	E.G.=1171.61	E.G.=1170.42	E.G.=1169.22
E.S.=1180.19	E.S.=1180.02	E.S.=1179.17	E.S.=1177.10	E.S.=1174.89	E.S.=1172.24	E.S.=1169.17	E.S.=1168.05	E.S.=1166.55	E.S.=1165.74	E.S.=1165.13
E.G.=1169.22	E.G.=1168.03	E.G.=1166.84	E.G.=1165.65	E.G.=1164.58	E.G.=1163.75	E.G.=1163.18	E.G.=1162.81	E.G.=1162.70	E.G.=1162.83	E.G.=1163.08
E.S.=1164.47	E.S.=1164.17	E.S.=1164.55	E.S.=1163.93	E.S.=1164.47	E.S.=1164.27	E.S.=1163.87	E.S.=1165.07	E.S.=1163.37	E.S.=1166.16	E.S.=1163.32

RAMP O

State Job No. 24428(04) Sheet No. R167

PROPOSED
R/W
AUGUST 2017

SEC. 6 T6N R7W

SEC. 7 T6N R7W

BRIDGE 'J'

TOC/TOS

MATCHLINE STA. 1060+00

CAUTION :
WATERLINE
OH POWER

1060+00 ℄

1055+00

PT 1051+16.17

PI 1029+28.29

℄ SURVEY COUNTRY CLUB RD.

POT 1052+21.01

℄ RAMP P

℄ RAMP O

STA. 288+53.99 TO
338+39.79 CONST.
4,985.80 L.F. TYPE
WWF FENCE

(129)

(130)

R/W

+45.95
773.51'

+62.94
835.59'

+00
630'

+69.29
746.45'

STA. 251+52.16 TO
288+03.83 CONST.
3,651.67 L.F. TYPE
WWF FENCE

LIMITS OF NO ACCESS

SEC. 6 T6N R7W

LIMITS OF NO ACCESS

SEC. 7 T6N R7W

0 50' 100'
HOR
0 5' 10'
VER

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

(128) STA. 1060+00.00 ℄ RAMP P
CONST. 24" X 74' LG. RDY RCP
39' LT & 35' RT W/ CETS
FL LT. =1164.50, FL RT. = 1168.08

150' V.C.
K= 133.02

PVC 1050+25.00
Elev= 1164.81

LOW PT. 105-091.51
Elev 1164.65

PVT 1051+75.00
Elev= 1164.91

0.50%

0.63%

FINISH GRADE

EXIST. PROFILE

SP. DITCH LT.

PVI 1051+00.00
Elev= 1164.44

1185
1180
1175
1170
1165
1160
1155
1150
1145
1140

E.G.=1164.94 E.S.=1163.36
E.G.=1164.71 E.S.=1163.22
E.G.=1164.55 E.S.=1163.25
E.G.=1164.78 E.S.=1167.16
E.G.=1165.07 E.S.=1168.16
E.G.=1165.38 E.S.=1166.32
E.G.=1165.70 E.S.=1166.78
E.G.=1166.01 E.S.=1166.78
E.G.=1166.32 E.S.=1165.87
E.G.=1166.64 E.S.=1166.82
E.G.=1166.95 E.S.=1167.28
E.G.=1167.26 E.S.=1168.43
E.G.=1167.58 E.S.=1169.48
E.G.=1167.89 E.S.=1170.93
E.G.=1168.21 E.S.=1173.25
E.G.=1168.52 E.S.=1176.23
E.G.=1168.83 E.S.=1179.17
E.G.=1169.15 E.S.=1181.57
E.G.=1169.46 E.S.=1183.47
E.G.=1168.78 E.S.=1186.10
E.G.=1170.09 E.S.=1186.95

1050+00 1051+00 1052+00 1053+00 1054+00 1055+00 1056+00 1057+00 1058+00 1059+00 1060+00

RAMP P

State Job No. 24428(04) Sheet No. R168

PROPOSED
R/W
AUGUST 2017

SEC. 7 T6N R7W

SEC. 6 T6N R7W

MATCHLINE STA. 1060+00

1060+00

1065+00

1070+00

1075+00

1080+00

1085+00

1090+00

1095+00

1100+00

1105+00

TOC/TOS

LIMITS OF NO ACCESS

+00
360'

STA. 288+53.99 TO
338+39.79 CONST.
4,985.80 L.F. TYPE
WWF FENCE

℄ SURVEY COUNTRY CLUB RD

BRIDGE 'J'

CAUTION :
WATERLINE
TUG
OH POWER

℄ SURVEY US 81

℞ RAMP P

℞ RAMP Q

SEC. 7 T6N R7W

SEC. 6 T6N R7W

HOR 0 50' 100'
VER 0 5' 10'

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

EXIST. PROFILE

(128) STA. 1060+00.00 ℞ RAMP P
CONST. 24" X 74' LG. RDY RCP
39' LT & 35' RT W/ CETS
℄ LT. =1164.50, ℄ RT. = 1168.08

FINISH GRADE

PVC 1063+25.00
Elev= 1172.13

HIGH PT. 1063+50.95
Elev 1172.21

PVT 1064+75.00
Elev= 1170.35

150' V.C.
K= 41.35

PVI 1064+00.00
Elev= 1172.60

PVI 1065+00.00
Elev= 1169.60

PVI 1066+00.00
Elev= 1166.60

PVI 1067+00.00
Elev= 1163.66

PVI 1068+00.00
Elev= 1160.91

PVI 1069+00.00
Elev= 1158.66

PVI 1070+00.00
Elev= 1157.07

-3.00%
-3.00%
-2.94%
-2.75%
-2.25%
-1.52%

1195
1190
1185
1180
1175
1170
1165
1160
1155
1150

1060+00 1061+00 1062+00 1063+00 1064+00 1065+00 1066+00 1067+00 1068+00 1069+00 1070+00

RAMP P

State Job No. 24428(04) Sheet No. R169

PROPOSED
R/W
AUGUST 2017

SEC. 7 T6N R~~7W~~

℄ RAMP P

℄ SURVEY US 81

(127)

℄ RAMP Q

MATCHLINE STA 1100+00

POB 1090+52.93

PI 1091+44.95

PC 1093+53.17

TOC/TOS

R/W

+00
285'

STA. 252+66.76 TO
279+00.00 CONST.
2,633.24 L.F. TYPE
WWF FENCE

+65.38
233'

TOC/TOS

R/W

+00
280'

LIMITS OF NO ACCESS

1095+00

(131)

POB 1150+00.00

SEC. 7 T6N R7W

0 50' 100'
HOR
0 5' 10'
VER

EXIST PROFILE

EXIST PROFILE

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

PVI 1090+52.93
Elev= 1199.17

-3.38%

PVI 1091+00.00
Elev= 1197.58

-3.36%

PVI 1092+00.00
Elev= 1194.22

FINISH GRADE

-3.38%

PVI 1093+00.00
Elev= 1190.84

-3.87%

PVI 1094+00.00
Elev= 1186.97

-3.33%

PVI 1095+00.00
Elev= 1183.64

IDENTICAL POINTS

-3.34%

PVI 1096+00.00
Elev= 1180.30

-3.34%

PVI 1097+00.00
Elev= 1176.96

FINISH GRADE

-3.33%

PVI 1098+00.00
Elev= 1173.63

-3.34%

PVI 1099+00.00
Elev= 1170.29

-3.34%

PVI 1100+00.00

E.G.=1197.58
E.S.=1224.77

E.G.=1195.90
E.S.=1227.66

E.G.=1194.22
E.S.=1213.35

E.G.=1192.53
E.S.=1215.71

E.G.=1190.84
E.S.=1214.65

E.G.=1188.91
E.S.=1211.30

E.G.=1186.97
E.S.=1209.46

E.G.=1185.31
E.S.=1208.32

E.G.=1183.64
E.S.=1208.61

E.G.=1181.97
E.S.=1209.32

E.G.=1180.30
E.S.=1210.33

E.G.=1178.63
E.S.=1209.97

E.G.=1176.96
E.S.=1210.32

E.G.=1175.30
E.S.=1210.73

E.G.=1173.63
E.S.=1210.12

E.G.=1171.96
E.S.=1209.06

E.G.=1170.29
E.S.=1207.39

E.G.=1168.62
E.S.=1206.67

E.G.=1166.95
E.S.=1203.41

1225 1220 1215 1210 1205 1200 1195 1190 1185 1180

1205 1200 1195 1190 1185 1175 1170 1165 1160

1090+00 1091+00 1092+00 1093+00 1094+00 1095+00 1096+00 1097+00 1098+00 1099+00 1100+00

RAMP Q

State Job No. 24428(04) Sheet No. R170

PROPOSED
R/W
AUGUST 2017

SEC. 7 T6N R7W

SEC. 6 T6N R7W

℄ SURVEY US 81

CAUTION :
WATERLINE
TUG
OH POWER

MATCHLINE STA. 1100+00

CHICKASHA CITY LIMITS

℄ SURVEY COUNTY ROAD

BRIDGE 'J'

TOC/TOS

STA. 1102+29.58 ℄
24.21' EX. BLDG.

STA. 1103+44.46 ℄
23.98' EX. BLDG.

STA. 1103+48.30 ℄
23.96' EX. BLDG.

STA. 1104+1.17 ℄
24.01' EX. BLDG.

℄ RAMP Q

PCC 1104+43.72

1105+00

1110+00

1160+00

MATCHLINE STA. 1110+00

CAUTION :
OH POWER

0 50' 100'
HOR
0 5' 10'
VER

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

EXIST. PROFILE

(132) STA. 285+00.00 ℄ SURVEY US 81, ON ℄
CONST. SMD-TYPE 2
STUB 115 LF 18" RCP INTO DITCH RT, W/ CET
TG=1154.37, FL=1151.81, DS FL=1150.66

(133) STA. 1009+00.00 ℄ RAMP Q
CONST. 48"x144' LG RCP
81' LG. LT. & 63' LG. RT.
FL LT.=1145.80, FL RT.=1146.10

300' V.C.
K= 43.19

Elev= 1166.95
-3.33%
PVI 1101+00.00 Elev= 1163.62
-3.16%
PVI 1102+00.00 Elev= 1160.46
-2.60%
PVI 1103+00.00 Elev= 1157.86
-1.99%
PVI 1104+00.00 Elev= 1155.87
-2.00%
PVC 1105+00.00 Elev= 1153.87
LOW PT. 1105+86.39 Elev 1153.01
PVT 1108+00.00 Elev= 1158.29
PVI 1106+50.00 Elev= 1150.87

FINISH GRADE

SP. DITCH LT.

SP. DITCH RT.

LT. FL=1145.80

RT. FL=1146.10

E.G.=1203.41	E.G.=1200.46	E.G.=1193.82	E.G.=1193.90	E.G.=1193.04	E.G.=1193.12	E.G.=1160.46	E.G.=1159.62	E.G.=1159.16	E.G.=1157.57	E.G.=1157.86	E.G.=1157.89	E.G.=1156.88	E.G.=1156.95	E.G.=1155.87	E.G.=1155.75	E.G.=1154.87	E.G.=1154.82	E.G.=1153.87	E.G.=1153.78	E.G.=1153.16	E.G.=1153.54
E.G.=1153.08	E.G.=1153.08	E.G.=1153.47	E.G.=1154.35	E.G.=1154.50	E.G.=1154.78	E.G.=1156.10	E.G.=1156.91	E.G.=1158.29	E.G.=1158.22	E.G.=1160.76	E.G.=1160.72	E.G.=1163.23	E.G.=1163.22	E.G.=1165.71	E.G.=1165.63	F.G.=1168.18					

1195 1190 1185 1180 1175 1170 1165 1160 1155 1150

1100+00 1101+00 1102+00 1103+00 1104+00 1105+00 1106+00 1107+00 1108+00 1109+00 1110+00

RAMP Q

State Job No. 24428(04) Sheet No. R171

PROPOSED
R/W
AUGUST 2017

SEC. 6 T6N R7W

SEC. 7 T6N R7W

+56.88
860'

+71.78
770.74'

+00
710.10'

+42.70
785.02'

+00
653.69'

PI 1156+96.14

STA. 281+00.00 TO
339+01.45 CONST.
5,801.45 L.F. TYPE
WWF FENCE

LIMITS OF NO ACCESS

LIMITS OF NO ACCESS

R/W

R/W

TOC/TOS

TOC/TOS

℄ RAMP R

℄ RAMP Q

1115+00

1120+00

1125+00

PC 1158+54.81

PT 1158+96.46

PC 1161+74.00

PT 1161+23.19

STA. 1111+37.59 ℄
24.42' EX. BLDG.

TOC/TOS

1155+00

TOC/TOS

CAUTION :
OH POWER
TUG

MATCHLINE STA. 1110+00

133

131

PRES. R/W

PRES. R/W

SURVEY CONTROL CO. RD.

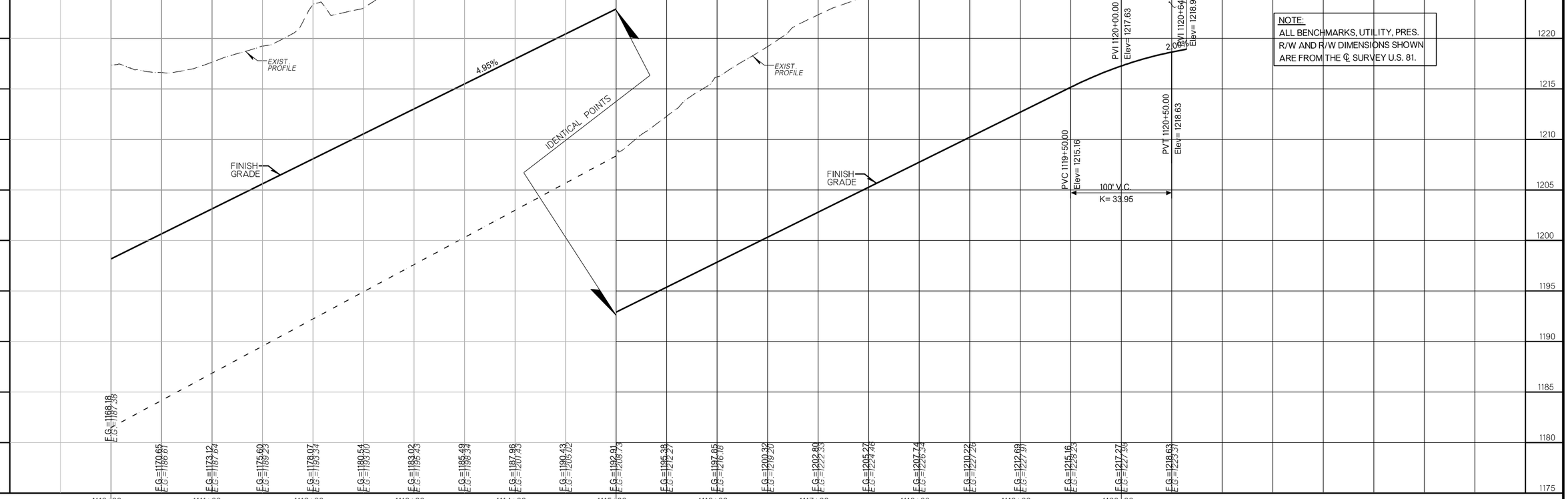
STA. 272+13.22 TO
279+00 CONST.
1,128.53 L.F. TYPE SWF
(5BW) FENCE

+80.33
401.89'

+00
280'

0 50' 100'
HOR

0 5' 10'
VER



NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

RAMP Q

State Job No. 24428(04) Sheet No. R172

PROPOSED
R/W
AUGUST 2017

SEC. 6 T6N R7W

CHICKASHA CITY LIMITS

CAUTION :
OH POWER
TUG

131

133

134

MATCHLINE STA. 1165+00

1155+00

1160+00

1165+00

1170+00

1120+00

TOC/TOS

R/W

℄ RAMP Q

℄ RAMP R

PC 1154+34.81
PI 1156 62.19
PT 1158+36.46

PC 1161+74.00

+00
653.69'

+71.78
770.74'

+67.26
392.66'

STA. 273+71.27 TO 339+01.45
CONST. 6,530.18 L.F. TYPE
WWF FENCE

LIMITS OF NO ACCESS

+5.75
237.30'

+19.84
235.01'

0 50' 100'
HOR
0 5' 10'
VER

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

Elev= 1220.29
2.00%
PVI 1151+00.00
Elev= 1218.29
PVC 1150+50.00
Elev= 1219.29
PVT 1151+50.00
Elev= 1215.92
100' V.C.
K= 36.58

EXIST PROFILE

FINISH GRADE

-4.73%

IDENTICAL POINTS

PVC 1163+50.00
Elev= 1159.11

134 STR. NO. 134
STA. 1165+00.00
SEE SHEET R174

1225 1220 1215 1210 1205 1200 1195 1190 1185

1195 1190 1185 1180 1175 1170 1165 1160 1155 1150

1150+00 1151+00 1152+00 1153+00 1154+00 1155+00 1156+00 1157+00 1158+00 1159+00 1160+00 1161+00 1162+00 1163+00 1164+00 1165+00

RAMP R

E.G.=1220.29 E.S.=1225.91
E.G.=1219.29 E.S.=1220.86
E.G.=1217.95 E.S.=1230.77
E.G.=1215.92 E.S.=1230.40
E.G.=1213.58 E.S.=1230.22
E.G.=1211.19 E.S.=1229.23
E.G.=1208.82 E.S.=1227.28
E.G.=1206.46 E.S.=1224.83
E.G.=1204.09 E.S.=1221.76
E.G.=1201.72 E.S.=1218.26
E.G.=1199.35 E.S.=1214.31
E.G.=1196.99 E.S.=1210.91
E.G.=1194.62 E.S.=1206.97
E.G.=1192.25 E.S.=1203.55
E.G.=1189.89 E.S.=1200.85
E.G.=1187.52 E.S.=1197.73
E.G.=1185.15 E.S.=1194.34
E.G.=1182.78 E.S.=1192.77
E.G.=1180.42 E.S.=1190.47
E.G.=1178.05 E.S.=1188.18
E.G.=1175.68 E.S.=1185.92
E.G.=1173.32 E.S.=1184.46
E.G.=1170.95 E.S.=1182.75
E.G.=1168.58 E.S.=1182.12
E.G.=1166.22 E.S.=1183.06
E.G.=1163.85 E.S.=1184.05
E.G.=1161.48 E.S.=1183.46
E.G.=1159.11 E.S.=1180.54
E.G.=1156.87 E.S.=1178.39
E.G.=1154.88 E.S.=1176.33
E.G.=1153.13 E.S.=1173.76

State Job No. 24428(04) Sheet No. R173

PROPOSED
R/W
AUGUST 2017

SEC. 6 T6N R7W

℄ SURVEY US 81

℄ RAMP R

MATCHLINE STA. 1165+00

PI 1167+60.11

TOC/TOS

R/W

+57.47
275'

+00
200'

1170+00

PCC 1172+57.54

PI 1172+98.22

PCC 1172+59.50

PT 1173+38.90

1175+00

LIMITS OF NO ACCESS

STA. 273+71.27 TO 339+01.45
CONST. 6,530.18 L.F. TYPE
WWF FENCE

303+00

BRIDGE 'K'

135

℄ SURVEY US 81

PI 1173+99.61

0 50' 100'
HOR
0 5' 10'
VER

SEC. 6 T6N R7W

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

500' V.C.
K= 101.13

EXIST. PROFILE

134 STA. 1165+00.00 ℄ RAMP R
CONST. 48"x132' LG. RCP
60' LG. LT. & 72' LG. RT.
FL LT.=1142.50, FL RT.=1142.00

FINISH GRADE

LOW PT. 116+28.76
Elev 1147.78
PVI 1168+50.00
Elev= 1147.80

PVI 1171+00.00
Elev= 1148.33

PVI 1172+00.00
Elev= 1148.21

PVI 1173+00.00
Elev= 1148.33

PVI 1173+38.90
Elev= 1148.18

0.21%
-0.12%
0.12%
0.37%

134
LT. FL=1142.50
RT. FL=1142.00

PVI 1166+00.00
Elev= 1147.28

SP. DITCH RT.

1180
1165
1160
1155
1150
1145
1140
1135
1130
1125

E.G.=1153.13 E.G.=1173.75
E.G.=1151.62 E.G.=1169.79
E.G.=1150.37 E.G.=1167.96
E.G.=1149.36 E.G.=1166.18
E.G.=1148.60 E.G.=1164.55
E.G.=1148.09 E.G.=1162.80
E.G.=1147.82 E.G.=1161.34
E.G.=1147.80 E.G.=1159.48
E.G.=1147.91 E.G.=1157.72
E.G.=1148.01 E.G.=1156.26
E.G.=1148.12 E.G.=1154.33
E.G.=1148.22 E.G.=1152.28
E.G.=1148.33 E.G.=1150.12
E.G.=1148.27 E.G.=1148.40
E.G.=1148.21 E.G.=1146.57
E.G.=1148.27 E.G.=1143.78
E.G.=1148.33 E.G.=1143.29

1165+00 1166+00 1167+00 1168+00 1169+00 1170+00 1171+00 1172+00 1173+00 1174+00 1175+00 1176+00 1177+00 1178+00 1179+00 1180+00

RAMP R

State Job No. 24428(04) Sheet No. R174

PROPOSED
R/W
AUGUST 2017

HOR 0 50' 100'
VER 0 5' 10'

SEC. 6 T6N R7W

STA. 288+53.99 TO 338+39.79 CONST. 4,985.80L.F. TYPE WWF FENCE

STA. 281+00.00 TO 339+01.45 CONST. 5,801.45 L.F. TYPE WWF FENCE

LIMITS OF NO ACCESS

STA. 324+50.00 TO 366+50.00 CONST. TEMP. R/W FENCE

TEMP. R/W

R/W

TOC/TOS

℄ SURVEY US 81

℄ RAMP S

℄ RAMP U

PRES R/W

MATCHLINE STA. 1215+00

POB 1207+76.56

POB 1298+76.72

PC 1212+28.10

PRC 1303+78.52

+15.02 220'

+37 220'

+00 250'

+50.00 205.54

197.41'

+50.00 191.97'

+08.67 155'

+48.32 160'

+00 125'

+00 150'

315+00

320+00

325+00

1210+00

1298+77

1300+00

1305+00

(136)

(137)

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

(137) STA. 325+91.40 ℄ SURVEY US 81, ON ℄ CONST. 2-8'x6'x253' LG. RCB 127' LG. LT. & 126' LG. RT. W/ SKEWED 30° RT FWD END SECTS. & 4' CURTAIN WALLS ℄ LT.=1134.00 & ℄ RT.=1132.00

PVI 1207+76.56 Elev= 1143.16
PVI 1208+00.00 Elev= 1143.01
PVI 1209+00.00 Elev= 1142.46
PVI 1210+00.00 Elev= 1142.58
PVI 1211+00.00 Elev= 1143.84
PVI 1212+00.00 Elev= 1145.17
PVI 1213+00.00 Elev= 1146.32
PVI 1214+00.00 Elev= 1147.57
PVI 1215+00.00

-0.64% -0.55% 0.12% 1.26% 1.34% 1.15% 1.25% 1.13%

FINISH GRADE

EXIST. PROFILE

SP. DITCH LT.

E.G.=1143.01 E.S.=1136.19
E.G.=1142.74 E.S.=1135.33
E.G.=1142.46 E.S.=1137.55
E.G.=1142.52 E.S.=1139.83
E.G.=1142.58 E.S.=1140.27
E.G.=1143.28 E.S.=1144.18
E.G.=1143.83 E.S.=1142.57
E.G.=1144.58 E.S.=1140.38
E.G.=1145.17 E.S.=1138.78
E.G.=1145.74 E.S.=1135.73
E.G.=1146.32 E.S.=1139.30
E.G.=1146.94 E.S.=1139.37
E.G.=1147.57 E.S.=1139.38
E.G.=1148.14 E.S.=1139.20
E.G.=1148.70 E.S.=1139.01

1170 1165 1160 1155 1150 1145 1140 1135 1130 1125

1200+00 1201+00 1202+00 1203+00 1204+00 1205+00 1206+00 1207+00 1208+00 1209+00 1210+00 1211+00 1212+00 1213+00 1214+00 1215+00

RAMP S

State Job No. 24428(04) Sheet No. R175

PROPOSED
R/W
AUGUST 2017

SEC. 1 T6N R8W

SEC. 36 T7N R8W

HOR 0 50' 100'
VER 0 5' 10'

1220+00

LIMITS OF NO ACCESS

50' U/E

STA. 288+53.99 TO
338+39.79 CONST.
4,985.80L.F. TYPE
WWF FENCE

R/W

+42.36
479.41'

479.76'

479.89'

STA. 339+06.32 TO 390+74.35
CONST. 5,168.03 L.F. TYPE
WWF FENCE

+93.88
480.39'

TOC/TOS

℄ RAMP S

℄ RAMP T

138

139

140

141

142

1215+00

+00
175'

1230+00

1240+00

1250+00

1260+00

1270+00

1280+00

1290+00

1300+00

1310+00

1320+00

1330+00

1340+00

MATCHLINE STA. 1215+00

+01.72

PC 1221+96.75

PI 1222+99.41

PT 1223+99.65

PC 1251+44.77

PI 1252+62.91

PT 1253+77.39

℄ GRAND AVE

PRES R/W

50' U/E

CAUTION :
OH POWER

BRIDGE 'M'

SEC. 6 T6N R7W

℄ SURVEY US 81

SEC. 36 T7N R8W

NOTE:
ALL BENCHMARKS, UTILITY, PRES.
R/W AND R/W DIMENSIONS SHOWN
ARE FROM THE ℄ SURVEY U.S. 81.

1170
1165
1160
1155
1150
1145
1140
1135
1130
1125

Elev= 1148.70
1.13%
PVI 1217+00.00
Elev= 1150.96
FINISH
GRADE
-1.75%
250' V.C.
K= 111.01
PVC 1222+75.00
Elev= 1140.92
LOW PT. 122+68.88
Elev= 1139.22
PVT 1225+25.00
Elev= 1139.31
Elev= 1139.44
PVC 1215+50.00
Elev= 1149.26
HIGH PT. 1216+67.85
Elev 1149.93
PVT 1218+50.00
Elev= 1148.34
EXIST.
PROFILE
300' V.C.
K= 104.29
SP. DITCH LT.
LT. FL=1133.25
RT. FL=1132.50
STA. 1220+00.00 ℄ SURVEY US 81, ON ℄
CONST. 36"x126.51' LG. RCP
49.93' LG. LT. & 76.58' LG. RT.
FL LT.=1133.25, FL RT.=1132.50
PVI 1224+00.00
Elev= 1138.73

E.G.=1148.70 E.S.=1139.01
E.G.=1148.28 E.S.=1139.08
E.G.=1149.71 E.S.=1139.24
E.G.=1149.92 E.S.=1139.32
E.G.=1149.88 E.S.=1139.38
E.G.=1149.61 E.S.=1139.39
E.G.=1149.09 E.S.=1139.42
E.G.=1148.34 E.S.=1139.14
E.G.=1147.47 E.S.=1138.90
E.G.=1146.59 E.S.=1138.99
E.G.=1145.72 E.S.=1139.06
E.G.=1144.85 E.S.=1139.01
E.G.=1143.97 E.S.=1139.36
E.G.=1143.10 E.S.=1139.66
E.G.=1142.23 E.S.=1139.94
E.G.=1141.35 E.S.=1140.36
E.G.=1140.51 E.S.=1140.79
E.G.=1139.86 E.S.=1140.65
E.G.=1139.24 E.S.=1140.44
E.G.=1139.24 E.S.=1140.00
E.G.=1139.27 E.S.=1140.37

1215+00
1216+00
1217+00
1218+00
1219+00
1220+00
1221+00
1222+00
1223+00
1224+00
1225+00
1226+00

RAMP S

State Job No. 24428(04)

Sheet No. R176

PROPOSED
R/W
AUGUST 2017

SEC. 1 T6N R8W

SEC. 36 T7N R8W

SEC. 6 T6N R7W

SEC. 31 T7N R7W

LIMITS OF NO ACCESS

479.76'

479.89'

+93.88
480.39'

POB 1000
POB 1225

TOC/TOS

℄ RAMP S

℄ GRAND AVE

PT 1223+99.65

PC 1251+44.77

PI 1252+62.91

PT 1253+77.39

PC 1256+65.29

1255+00

1260+00

1340+00

1345+00

R/W

+00
300'

+00
165'

STA. 339+06.32 TO 390+74.35
CONST. 5,168.03 L.F. TYPE
WWF FENCE

℄ RAMP T

CAUTION :
WATERLINE
TUC

BRIDGE 'M'

141

142

MATCHLINE STA. 1263+00

PT 1262+78.18

0 50' 100'
HOR
0 5' 10'
VER

NOTE:
ALL BENCHMARKS, UTILITY, PRES.
R/W AND R/W DIMENSIONS SHOWN
ARE FROM THE ℄ SURVEY U.S. 81.

141 STA. 1251+00.00
CONST. 2-36"x87' LG. RCP
38' LG. LT. & 49' LG. RT.
fl LT.=1133.00, fl RT.=1132.50

200' V.C.
K= 106.02

Elev= 1139.44

LOW PT. 1250+53.01
Elev 1139.31

PVT 1252+00.00
Elev= 1140.33

1.39%

FINISH
GRADE

EXIST.
PROFILE

SP. DITCH LT.

LT. fl=1133.00

RT. fl=1132.50

PVC 1259+25.00
Elev= 1150.38

150' V.C.
K= 120.54

PVT 1260+75.00
Elev= 1151.52

PVI 1260+00.00
Elev= 1151.42

0.14%

PVI 1261+00.00
Elev= 1151.56

0.14%

PVI 1262+00.00
Elev= 1151.70

-0.36%

PVI 1263+00.00

| | | |

PROPOSED
R/W
AUGUST 2017

SEC. 36 T7N R8W

0 50' 100'
HOR
0 5' 10'
VER

1270+00

1273+78

LIMITS OF NO ACCESS

+36.53
250'

STA. 339+06.32 TO 390+74.35
CONST. 5,168.03 L.F. TYPE
WWF FENCE
+67.97
225'

234.58'

193.11'

1265+00

R/W

CAUTION :
GAS

TOC/TOS

360+00

145

POE 1273+78.42

146

MATCHLINE STA. 1263+00

355+00

144

℄ RAMP T

℄ SURVEY US 81

SEC. 31 T7N R7W

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

145 STA. 358+83.86 ℄ SURVEY US 81, ON ℄
CONST. 8'x6'x278' LG. RCB
115' LG. LT & 138' LG. RT W/ SKEW 30° LT FWD
END SECTS. & 4' CURTAIN WALLS
FL LT.=1133.00 & FL RT.=1131.55

	Elev= 1151.34	PVI 1264+00.00 Elev= 1150.97	PVI 1265+00.00 Elev= 1150.46	PVI 1266+00.00 Elev= 1149.94	PVI 1267+00.00 Elev= 1149.42	PVI 1268+00.00 Elev= 1148.90	PVI 1269+00.00 Elev= 1148.38	PVI 1270+00.00 Elev= 1147.87	PVI 1271+00.00 Elev= 1147.36	PVI 1272+00.00 Elev= 1146.93	PVI 1273+00.00 Elev= 1146.49	PVI 1273+78.42 Elev= 1146.15
	-0.37%	-0.51%	-0.52%	-0.52%	-0.52%	-0.52%	-0.52%	-0.50%	-0.43%	-0.44%	-0.44%	

FINISH GRADE

EXIST. PROFILE

SP. DITCH LT.

LT. FL=1133.00

SP. DITCH LT.

E.G.=1151.34	E.G.=1151.16	E.G.=1150.97	E.G.=1150.72	E.G.=1150.46	E.G.=1150.20	E.G.=1149.94	E.G.=1149.68	E.G.=1149.42	E.G.=1149.16	E.G.=1148.90	E.G.=1148.64	E.G.=1148.38	E.G.=1148.12	E.G.=1147.87	E.G.=1147.61	E.G.=1147.36	E.G.=1147.15	E.G.=1146.93	E.G.=1146.71	E.G.=1146.49	E.G.=1146.27
1137.30	1137.89	1138.74	1139.63	1140.80	1141.49	1141.58	1143.17	1142.17	1143.49	1144.54	1145.33	1145.05	1144.31	1144.33	1138.10	1134.88	1146.20	1146.80	1150.16	1152.94	1156.37

1170 1165 1160 1155 1150 1145 1140 1135 1130 1125

1263+00 1264+00 1265+00 1266+00 1267+00 1268+00 1269+00 1270+00 1271+00 1272+00 1273+00

RAMP T

State Job No. 24428(04) Sheet No. R178

SEC. 1 T6N R8W

PROPOSED R/W
AUGUST 2017

℄ SURVEY US 81

℄ SURVEY US 81

POB 12

PI 1215+01.72

℄ RAMP U

136

139

TOC/TOS

160'

R/W

+00
150'

150'

+00
150'

+00
150'

+00
196.69'

+00
190.75'

℄ 1303+78.52

PI 1306+89.73

1310+00

1300+00

1305+00

137

STA. 325+00 TO 327+00
CONST. TEMP. R/W FENCE

LIMITS OF NO ACCESS

LIMITS OF NO ACCESS

+63.20
231.97'

STA. 281+00 TO
339+01.45 CONST.
5,801.45 L.F. TYPE
WWF FENCE

PT 1309+91.41

TOC/TOS

℄ RAMP U

TOC/TOS

MATCHLINE STA. 1313+00

0 50' 100'
HOR

0 5' 10'
VER

SEC. 6 T6N R7W

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.

137 STA. 325+91.40 ℄ SURVEY US 81, ON ℄
CONST. 2-8'x6'x253' LG. RCB
127' LG. LT. & 126' LG. RT. W/ SKEWED 30° RT FWD
END SECTS. & 4' CURTAIN WALLS
fl LT.=1134.00 & fl RT.=1132.00

140 STA. 1313+00.00
CONST. 48"x109' LG. RCP
57' LG. LT. & 52' LG. RT.
fl LT.=1128.00, fl RT.=1127.00

PVI 1298+76.72
Elev= 1141.32

PVI 1299+00.00
Elev= 1141.52

PVI 1300+00.00
Elev= 1141.80

PVI 1301+00.00
Elev= 1142.57

PVI 1302+00.00
Elev= 1143.83

PVI 1303+00.00
Elev= 1145.29

PVI 1304+00.00
Elev= 1146.27

PVI 1305+00.00
Elev= 1147.61

PVI 1306+00.00
Elev= 1148.79

PVI 1308+00.00
Elev= 1151.15

PVC 1306+25.00
Elev= 1149.09

HIGH PT. 1307+42.71
Elev 1149.78

PVT 1309+75.00
Elev= 1147.07

0.28%
0.77%
1.26%
1.46%
0.98%
1.34%
1.18%
1.18%
-2.33%

EXIST. PROFILE

FINISH GRADE

SP. DITCH LT.

350' V.C.
K= 99.75

EXIST. PROFILE

LT. fl =1128.00
RT. fl =1127.00

1155 1150 1145 1140 1135 1130 1125 1120 1115 1110

E.G.=1141.52 / 1141.66 / 1141.80 / 1142.18 / 1142.57 / 1143.20 / 1143.83 / 1144.56 / 1145.29 / 1145.78 / 1146.27 / 1146.94 / 1147.61 / 1148.20 / 1148.79 / 1149.35 / 1149.89 / 1149.78 / 1149.61 / 1149.20 / 1148.54 / 1147.83 / 1146.48 / 1145.33 / 1144.16 / 1143.00 / 1141.84 / 1140.67 / 1139.51
E.G.=1150.00 / 1150.86 / 1150.45 / 1149.37 / 1148.42 / 1147.43 / 1146.79 / 1145.06 / 1143.67 / 1142.61 / 1141.27 / 1139.05 / 1136.95 / 1135.50 / 1134.47 / 1134.33 / 1133.89 / 1133.47 / 1133.33 / 1132.83 / 1132.79 / 1131.75 / 1131.30 / 1131.18 / 1131.07 / 1130.87

1298+00 1299+00 1300+00 1301+00 1302+00 1303+00 1304+00 1305+00 1306+00 1307+00 1308+00 1309+00 1310+00 1311+00 1312+00 1313+00

RAMP U

State Job No. 24428(04) Sheet No. R179

SEC. 1 T6N R8W

SEC. 36 T7N R8W

SEC. 6 T6N R7W

SEC. 31 T7N R7W

PROPOSED
R/W
AUGUST 2017

1315+00

1316+66 1350+00

PRES R/W

TOC/TOS

POB 1316+65.91
POB 1350+00.00

50' U/E

PT 1315+12.70

PC 1351+40.07

PT 1353+42.97

143

B RAMP V

B RAMP U

MATCHLINE STA. 1313+00

140

PI 1313+98.22

R/W

STA. 281+00 TO
339+01.45 CONST.
5,801.45 L.F. TYPE
WWF FENCE

445'

℄ GRAND AVE

425.12'

CAUTION :
OH POWER

PI 1352+42.73

+00
424.65'

LIMITS OF NO ACCESS

STA. 339+33.90 TO 391+12.03
CONST. 5,178.13 L.F. TYPE
WWF FENCE

PC 1357+11.69

+00
250'

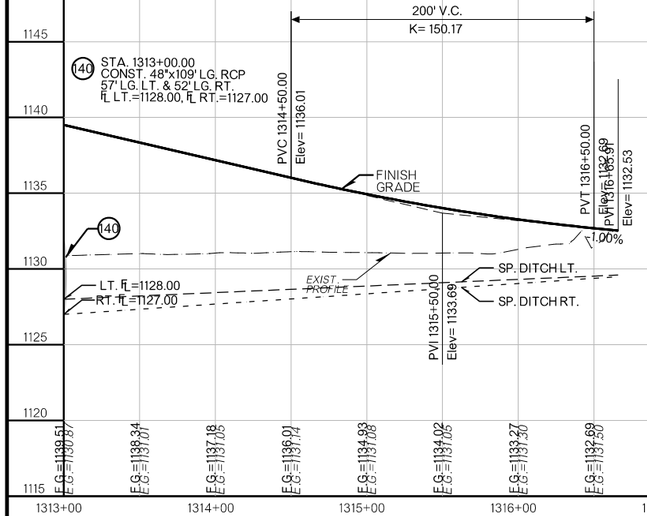
PI 1360+43

1360+00

1355+00

HOR 0 50' 100'
VER 0 5' 10'

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY U.S. 81.



RAMP U

State Job No. 24428(04) Sheet No. R180

PROPOSED
R/W
AUGUST 2017

SEC. 36 T7N R8W

BRIDGE 'M'

BRIDGE 'N'

℄ SURVEY US 81

℄ SURVEY US 81

1365+00

MATCHLINE STA. 1365+00

CAUTION :
WATERLINE
TUG

B RAMP V

TOC/TOS

PI 1360+45.32

PT 1363+12.43

+29.02'
150'

R/W

POB 1350+00.10

PC 1351+40.07

PT 1353+42.97

TOC/TOS

PC 1358+31.69

+00
250'

LIMITS OF NO ACCESS

B RAMP V

R/W

STA. 339+33.90 TO 391+12.03
CONST. 5,178.13 L.F. TYPE
WWF FENCE

143

TOC/TOS

+00
424.65'

1360+00

1365+00

SEC. 31 T7N R7W

0 50' 100'
HOR
0 5' 10'
VER

143 STA. 1353+00.00 ℄ SURVEY US 81, ON ℄
CONST. 2-48"x100' LG. RCP
51' LG. LT. & 49' LG. RT.
FL LT.=1128.75, FL RT.=1128.00

250' V.C.
K= 192.03

PVC 1350+75.00
Elev= 1133.28

PVT 1353+25.00
Elev= 1137.41

2.30%

FINISH
GRADE

PVC 1358+00.00
Elev= 1148.34

300' V.C.
K= 123.06

HIGH PT. 1360+83.26
Elev 1151.60

PVT 1361+00.00
Elev= 1151.59

PVI 1359+50.00
Elev= 1151.79

PVI 1362+00.00
Elev= 1151.45

PVI 1363+00.00
Elev= 1151.03

PVI 1364+00.00
Elev= 1150.84

PVI 1365+00.00

-0.14%

-0.42%

-0.19%

-0.51%

Elev= 1132.53

1.00%

LT. FL=1128.75

RT. FL=1128.00

SP. DITCH LT.

EXIST.
PROFILE

PVI 1352+00.00
Elev= 1134.53

1165
1160
1155
1150
1145
1140
1135
1130
1125
1120

E.G.=1132.53 E.S.=1132.53
E.G.=1133.03 E.S.=1133.03
E.G.=1133.55 E.S.=1133.55
E.G.=1134.18 E.S.=1134.18
E.G.=1134.94 E.S.=1134.94
E.G.=1135.83 E.S.=1135.83
E.G.=1136.85 E.S.=1136.85
E.G.=1137.98 E.S.=1137.98
E.G.=1139.13 E.S.=1139.13
E.G.=1140.28 E.S.=1140.28
E.G.=1141.44 E.S.=1141.44
E.G.=1142.59 E.S.=1142.59
E.G.=1143.74 E.S.=1143.74
E.G.=1144.89 E.S.=1144.89
E.G.=1146.04 E.S.=1146.04
E.G.=1147.19 E.S.=1147.19
E.G.=1148.34 E.S.=1148.34
E.G.=1149.39 E.S.=1149.39
E.G.=1150.24 E.S.=1150.24
E.G.=1150.88 E.S.=1150.88
E.G.=1151.32 E.S.=1151.32
E.G.=1151.56 E.S.=1151.56
E.G.=1151.59 E.S.=1151.59
E.G.=1151.52 E.S.=1151.52
E.G.=1151.45 E.S.=1151.45
E.G.=1151.24 E.S.=1151.24
E.G.=1151.03 E.S.=1151.03
E.G.=1150.93 E.S.=1150.93
E.G.=1150.84 E.S.=1150.84
E.G.=1150.58 E.S.=1150.58
E.G.=1150.33 E.S.=1150.33

1350+00 1351+00 1352+00 1353+00 1354+00 1355+00 1356+00 1357+00 1358+00 1359+00 1360+00 1361+00 1362+00 1363+00 1364+00 1365+00

RAMP V

State Job No. 24428(04) Sheet No. R181

PROPOSED
R/W
AUGUST 2017

CAUTION :
GAS

SEC. 36 T7N R8W

SEC. 31 T7N R7W

MATCHLINE STA. 1365+00

℄ SURVEY US 81

℄ RAMP V

R/W

TOC/TOS

15" CMP
FL N=1136.83
FL S=1139.75

10' U/E

50' U/E

20' U/E

33' U/E

POE 1374+12.67

+00 130'

+00 175'

+00 215'

+51.92 275'

355+00

360+00

300+00

LIMITS OF NO ACCESS

STA. 339+33.90 TO 391+12.03
CONST. 5,178.13 L.F. TYPE
WWF FENCE

0 50' 100'
HOR
0 5' 10'
VER

144 STA. 355+00.00 ℄ SURVEY US 81, ON ℄
CONST. SMD-TYPE 2
STUB 112 LF 18" RCP INTO DITCH RT. W/CET
TG=1146.44, FL=1143.88, DS FL=1141.39

145 STA. 358+83.86 ℄ SURVEY US 81, ON ℄
CONST. 8'x6'x278' LG. RCB
115' LG. LT & 138' LG. RT W/ SKEW 30° LT FWD
END SECTS. & 4' CURTAIN WALLS
FL LT.=1133.00 & FL RT.=1131.55

Elev= 1150.33
PVI 1366+00.00 Elev= 1149.80
PVI 1367+00.00 Elev= 1149.28
PVI 1368+00.00 Elev= 1148.77
PVI 1369+00.00 Elev= 1148.25
PVI 1370+00.00 Elev= 1147.73
PVI 1371+00.00 Elev= 1147.21
PVI 1372+00.00 Elev= 1146.77
PVI 1373+00.00 Elev= 1146.33
PVI 1374+00.00 Elev= 1145.83

-0.53% -0.52% -0.51% -0.52% -0.52% -0.52% -0.52% -0.44% -0.44% -0.44%

FINISH GRADE

EXIST. PROFILE

LT. FL=1133.00

RT. FL=1130.50

E.G.=1150.33 E.S.=1139.13
E.G.=1150.07 E.S.=1140.27
E.G.=1149.80 E.S.=1141.35
E.G.=1149.54 E.S.=1141.89
E.G.=1149.28 E.S.=1142.22
E.G.=1149.03 E.S.=1143.49
E.G.=1148.77 E.S.=1143.50
E.G.=1148.51 E.S.=1142.01
E.G.=1148.25 E.S.=1142.18
E.G.=1147.99 E.S.=1139.53
E.G.=1147.73 E.S.=1136.76
E.G.=1147.47 E.S.=1136.49
E.G.=1147.21 E.S.=1139.29
E.G.=1146.99 E.S.=1141.48
E.G.=1146.77 E.S.=1140.86
E.G.=1146.55 E.S.=1137.58
E.G.=1146.33 E.S.=1135.33
E.G.=1146.11 E.S.=1136.26
E.G.=1145.89 E.S.=1139.83

1165 1160 1155 1150 1145 1140 1135 1130 1125 1120

1365+00 1366+00 1367+00 1368+00 1369+00 1370+00 1371+00 1372+00 1373+00 1374+00 1375+00 1376+00

RAMP V

State Job No. 24428(04) Sheet No. R182

PROPOSED
R/W
AUGUST 2017

SEC. 25, T7N R8W

SEC. 30, T7N R7W

0 50' 100'

LIMITS OF NO ACCESS

STA. 396+00.00 TO STA. 411+25.00 (US-81)
CONST. FENCE STYLE WWF

R/W

TOC/TOS

STATUTORY R/W

SEC LINE NS-281

238.05'

2651.08'
N 00°04'25.51" W

+00
230'

+50
250'

405+00

407+00

PT STA. 404+69.03

216.00'
N 5°57'51.08" E

RAMP W

148

15'

35'

21'

400+00

POB STA. 398+96.26 RAMP W
= STA. 398+96.26 US-81, 68' LT

PC-STA. 401+78.74

282.48'
N 22°56'25.64" E

℄ SURVEY US-81

150

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US-81.

STA. 398+96.26
BEGIN CONST. RAMP W
X=1972358.6317
Y=623287.3382

EXISTING PROFILE

VARIABLE GRADE
SEE SPOT ELEVATIONS

STA. 398+96.26

STA 404+42.00 (148)
CONST. 36"X22"X96' LG RCPA SKEWED 45° RF
34' LT & 62' RT MSRD ALONG SKEW W/PCES'S
FL LT = 1147.90 FL RT = 1147.59

405+00.00
FL LT = 1149.85

FINISH GRADE

-0.70% LT.

2.13% LT.

SP. DITCH LT.

SP. DITCH LT.

398+96.26
FL LT. = 1151.25

403+75.00
FL LT. = 1147.90

404+25.00
FL LT. = 1148.26

	397+00	398+00	399+00	400+00	401+00	402+00	403+00	404+00	405+00	406+00	407+00
EX.			1176.71	1176.47	1176.42	1176.26	1176.23	1176.22	1176.27	1175.33	1175.19
F.G.											1152.78
EX.											1174.87
F.G.											1152.99
EX.											1175.05
F.G.											1153.20
EX.											1174.91
F.G.											1153.41
EX.											1174.80
F.G.											1153.62
EX.											1174.69
F.G.											1153.83
EX.											1174.66
F.G.											1154.04
EX.											1174.46
F.G.											1154.25
EX.											1174.36

1185 1180 1175 1170 1165 1160 1155 1150 1145 1140

RAMP W

State Job No. 24428(04) Sheet No. R183

US-81 REALIGNMENT GRADY COUNTY

8/27/2017

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PROPOSED
R/W
AUGUST 2017

SEC. 30, T7N R7W

LIMITS OF NO ACCESS

STA. 396+00.00 TO STA. 411+25.00 (US-81)
CONST. FENCE STYLE WWF

±50 US-81
465'

+25 US-81
465'

410+00

R/W

TOC/TOS

POE-STA. 413+29.30 RAMP W
POB-STA. 410+57.83 RAMP X
STA. 39°29'36" IOWA AVE

PT-STA. 411+33.01

PC-STA. 407+71.63

W-2

℄ RAMP W

BARBWIRE FN (4-W)

15'

8'

2%

146.38'

N 42°29'47.95" E

216.00'

N 5°57'51.08" E

407+00

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US-81.

BRIDGE 'P'

IOWA AVE CRL

40+00

℄ RAMP X

4"HP GAS LINE CROSSING (CONTINUUM ENERGY)

STA. 404+85.77 4"HP GAS LINE CROSSING

Atmos Pipeline Easement Rec'd Bk. 871, Pg. 421 Filed February 16, 1970

CENTERPOINT ENERGY (GAS) 228.2'

+80 US-81
480'

STA. 412+80.00 TO STA. 459+95.14 (US-81)
CONST. FENCE STYLE WWF

+00 US-81
450'

+20 US-81
415'

LIMITS OF NO ACCESS

Reliance Pipeline Co.
50' Pipeline Easement
(E/2, NW/4, SW/4 SEC 30
Obscure Description)
Rec'd. Bk. 1442, Pg. 47
Filed October 2, 1984

0 50' 100'

EW 1355 V/SEC LINE

2602.9'

S 89°57'33.60" W

4"HP GAS LINE (CONTINUUM ENERGY)

BARBWIRE FN (5-W)

HIGH PRESSURE GAS VALVE

419+40.13 ℄ GAS LINE CROSSING (CONTINUUM ENERGY)

STA. 413+17.39
END CONST. RAMP W
X=1972840.6259
Y=624594.1705

EXISTING PROFILE

FINISH GRADE

| | | |

8/27/2017

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PROPOSED
R/W
AUGUST 2017

SEC. 25, T7N R8W

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US-81.

0 50' 100'

SEC. LINE NS-281
2651.08'
N 00°04'25.57" W

LIMITS OF NO ACCESS

STA. 396+00.00 TO STA. 411+25.00 (US-81)
CONST. FENCE STYLE WWF

+25 US-81
465'

+00 US-81
465'

410+00

℄ RAMP W

BAMBERG EN (G-W)

R/W

TOC/TOS

POC STA. 411+29.39 RAMP W
POC STA. 411+29.36 RAMP X
STA. 411+29.37

IOWA AVE

STA. 411+29.39 RAMP X
STA. 411+29.36 IOWA AVE

STA. 414+95.77 ℄ 4" HP GAS LINE CROSSING
(CONTINUUM ENERGY)

Arkansas Louisiana Gas Co.
40' Permanent Easement
Rec'd. Bk. 87, Pg. 441
Filed For Record
16:18:20

CENTERPOINT ENERGY
(318) 222-5567

LIMITS OF NO ACCESS

STA. 412+80.00 TO STA. 459+95.14 (US-81)
CONST. FENCE STYLE WWF

+80 US-81
480'

+00 US-81
450'

+20 US-81
415'

POC STA. 412+12.06

4" HP GAS LINE CROSSING
STA. 412+42.06
(CONTINUUM ENERGY)

℄ RAMP X X-1

150.23'
N 42°29'47.96" E

PT STA. 415+55.17

CAUTION:
GAS LINE

40+00

416+00

SEC. 30, T7N R7W

STA. 410+83.83
BEGIN CONST. RAMP X
X=1972856.8368
Y=624611.8681

EXISTING PROFILE

EX. GAS LINE (4")

FINISH GRADE

	408+00	409+00	410+00	411+00	412+00	413+00	414+00	415+00	416+00
EX.=/				1170.49	1170.20	1170.22	1170.13	1170.02	1169.82	1169.56	1169.66	1169.54	1169.29
F.G.=				1163.70	1162.70	1161.70	1160.70	1159.70	1158.70	1157.70	1156.70	1155.70	1154.70

RAMP X

State Job No. 24428(04) Sheet No. R185

GRADY COUNTY US-81 REALIGNMENT

8/27/2017

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PROPOSED
R/W
AUGUST 2017

SEC. 30, T7N R7W

0 50' 100'

LIMITS OF NO ACCESS

LIMITS OF ACCESS
TO CO. RD. EW - 135.5 ONLY

CRL CO.RD. EW-135.5

CAUTION: GAS LINE

CAUTION: GAS LINE

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROMTHE ℄ SURVEY US-81.

℄ RAMP X

℄ SURVEY US-81

CHICKASHA CITY LIMITS

STA. 424+59.49
END CONST. RAMP X
X=1974076.9233
Y=625184.9969

EX. GAS LINE (6")

EXISTING PROFILE

EX. GAS LINE (4")

VARIABLE GRADE
SEE SPOT ELEVATIONS

FINISH GRADE

STA 419+38.00 (153)
CONST. 2X36"X22"X138' LG RCPA SKEWED
55°13' 22" LF 52' LT & 86' RT
MSRD ALONG SKEW W/PCES'S
FL LT = 1141.10 FL RT = 1141.80

F.G.=1153.70 EX.=1168.97 F.G.=1152.70 EX.=1168.98 F.G.=1151.70 EX.=1169.29 F.G.=1150.70 EX.=1168.12 F.G.=1149.70 EX.=1167.41 F.G.=1148.70 EX.=1168.04 F.G.=1147.72 EX.=1166.85 F.G.=1146.83 EX.=1165.76 F.G.=1146.05 EX.=1165.71 F.G.=1145.35 EX.=1165.71 EX.=1165.74 EX.=1165.88 EX.=1165.94 EX.=1165.56 EX.=1165.46 EX.=1165.27 EX.=1165.02

416+00 417+00 418+00 419+00 420+00 421+00 422+00 423+00 424+00 425+00 426+00 427+00

1175 1170 1165 1160 1155 1150 1145 1140 1135 1130

RAMP X

State Job No. 24428(04) Sheet No. R186

GRADY COUNTY US-81 REALIGNMENT

8/27/2017

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PROPOSED
R/W
AUGUST 2017

0 50' 100'

SEC. 25, T7N R8W

STA. 396+00.00 TO STA. 411+25.00 (US-81)
CONST. FENCE STYLE WWF

2634.54'
2651.08'
N.00°04'25.51"W
2634.54'

R/W
STATUTORY R/W
SEC. LINE NS-28
STATUTORY R/W
TOC/TOS
R/W
400+00
400+00
℄ SURVEY US-81
CHICKASAW
150
149
℄ RAMP Y
Y-1
STA. 404+97.24
2%
15'
8'
211.50'
N.59°41'08.12"E
407+00
BARBWIRE (4-W)
POC-STA 399+37.32 ℄ RAMP Y
=STA 399+37.32 US 81 ℄ RAMP Y
FN (4-W)
+72.68
253.93'
R/W
+00
250'
R/W
R/W
+00
285'
R/W
TOC/TOS
R/W
TOC/TOS
LIMITS OF NO ACCESS
OKLA CITY LIMITS
STA. 396+00.00 TO STA. 411+00.00 (US-81)
CONST. FENCE STYLE WWF
SEC. 30, T7N R7W

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US-81.

STA. 399+37.32
BEGIN CONST. RAMP Y
X=1972499.5257
Y=623271.3869

EXISTING PROFILE

VARIABLE GRADE
SEE SPOT ELEVATIONS

695' V.C.
K = 118

US81 STA 403+50.00 150
CONST. 5'X5'X3.21' TALL JB 94' RT
W/184 LF 36"X22" RCPA & PCES TO OUTFALL
TR = 1146.00 FL = 1142.79 DS FL = 1142.05

PVI-STA 401+77.08
ELEV.= 1148.86

LOW STA 403+39.62
ELEV.= 1147.74

149
STA. 403+36.00
CONST. 36"X22"X74' LG
RCPA SKEWED 4° RF
32' RT W/B6 CET (ACGR)
& 42' LT TO STR. #150
FL RT.= 1143.02
FL RT.= 1142.79

PVI-STA 405+00.00
FL RT.= 1145.15

PVI-STA 405+25.00
ELEV.= 1144.07

FINISH GRADE

399+37.32
FL RT.= 1146.84

1.00% RT.

SP. DITCH RT.

403+00.00
FL RT.= 1143.21

150

149

-1.375%

1.62% RT.

404+00.00

4.520%

SP. DITCH RT.

PVC-STA 401+77.50
ELEV.= 1148.85

403+38.10
FL RT.= 1143.02

EX.=1175.82	EX.=1175.58	EX.=1175.38	EX.=1175.15	EX.=1174.74	EX.=1174.34	F.G.=1148.56	EX.=1174.24	F.G.=1148.08	EX.=1173.91	F.G.=1147.80	EX.=1173.97	F.G.=1147.74	EX.=1174.14	F.G.=1147.89	EX.=1173.18	F.G.=1148.25	EX.=1172.75	F.G.=1148.83	EX.=1172.22	F.G.=1149.61	EX.=1171.51	F.G.=1150.61	EX.=1171.73	F.G.=1151.82	EX.=1171.58

1180 1175 1170 1165 1160 1155 1150 1145 1140 1135

397+00 398+00 399+00 400+00 401+00 402+00 403+00 404+00 405+00 406+00 407+00

RAMP Y

State Job No. 24428(04) Sheet No. R187

US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

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PROPOSED
R/W
AUGUST 2017

0 50' 100'

BRIDGE 'P'
45+00

STA. 113+48.99 ℄ 4" HP GAS LINE CROSSING (ENABLE)

4" TO 12" DECIDUOUS

CAUTION: GAS LINE

Arkansas Louisiana Gas Co. 40' Pipeline Easement Rec'd. Bk. 144, Pg. 441 Filed January 16, 1970

Reliance Pipeline Co. 50' Pipeline Easement Rec'd. Bk. 144, Pg. 49 Filed October 2, 1984

CHICKASHA CITY LIMITS

BARBWIRE FN (6.W)

BARBWIRE FN (5.W)

1324.49' N.00°17'07" W.

PC-STA. 407+08.72

PT-STA. 410+16.40

POE-STA. 411+78.40-RAMP Y
POB-STA. 412+31.76-RAMP Z
= STA. 46+71.36-IOWA AVE.

IOWA AVE. CRL

407+00

415+00

420+00

℄ RAMP Y 162.00'

℄ RAMP Z

N 42°39'57.8" E

Y-2

15'

2'

TOC/TOS

R/W

+00 US-81
430'

+00 US-81
450'

+00 US-81
420'

+00 US-81
275'

+75 US-81
430'

STA. 396+00.00 TO STA. 411+00.00 (US-81)
CONST. FENCE STYLE WWF

STA. 412+75.00 TO STA. 457+86.43 (US-81)
CONST. FENCE STYLE WWF

LIMITS OF NO ACCESS

(CONTINUOUS ENERGY)

SEC. 30, T7N R7W

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US-81.

STA. 411+66.40
END CONST. RAMP Y
X=1973387.7132
Y=624092.9160

EXISTING PROFILE

FINISH GRADE

EX. GAS LINE (4")

695' V.C.
K = 118

200' V.C.
K = 79

4.520%

2.000%

PVT-STA. 408+72.50
ELEV.= 1159.78

PVC-STA. 409+25.00
ELEV.= 1162.15

PVI-STA. 410+25.00
ELEV.= 1166.67

PVT-STA. 411+25.00
ELEV.= 1168.67

PVI-STA. 411+66.40
ELEV.= 1169.50

EX.=1153.25	EX.=1171.28	EX.=1170.65	EX.=1170.43	EX.=1170.38	EX.=1170.22	EX.=1169.48	EX.=1169.12	EX.=1168.59	EX.=1168.46												
F.G.=1153.25	F.G.=1154.88	F.G.=1156.73	F.G.=1158.78	F.G.=1161.02	F.G.=1163.24	F.G.=1165.19	F.G.=1166.82	F.G.=1168.13	F.G.=1169.17												
407+00		408+00		409+00		410+00		411+00		412+00		413+00		414+00		415+00					

1185 1180 1175 1170 1165 1160 1155 1150 1145 1140

RAMP Y

State Job No. 24428(04) Sheet No. R188

US-81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

0 50' 100'

IOWA AVE. CRL

45+00

STA. 113+48.99 ℄ 4" HP GAS LINE CROSSING (ENABLE)

CHICKASHA CITY LIMITS

℄ SURVEY US-81

415+00

420+00

425+00

POE-STA. 411+78.40 RAMP Y
= BOP-STA. 412+31.00 RAMP Z
= STA. 46+71.36 IOWA AVE.

POB-STA. 413+96.95

PT-STA. 416+97.24

PC-STA. 419+00.50

Arkansas Louisiana Gas Co.
40' Pipeline Easement
Rec'd. Bk. 871, Pg. 141
Filed February 16, 1970

Reliance Pipeline Co.
50' Pipeline Easement
Rec'd. Bk. 1442, Pg. 49
Filed October 2, 1984

Reliance Pipeline Co.
50' Pipeline Easement
Rec'd. Bk. 2490, Pg. 25-39
Filed November 12, 1992

4" HP GAS LINE

BARBWIRE FN (S-W)

1324.49' N 00°17'07" W

4" TO 12" DECIDUOUS

FENCE

BARBWIRE FN (S-W)

N 57°33'40" W

SEE LINE W 1325

CONCRETE GAS VAULT

CATTLE SHUTE

CATTLE GUARD

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US-81.

B RAMP Z 203.25'
N 27°12'10.86" E

155.96'
N 42° 29'47.96" E

Z-1

Z-2

CAUTION: GAS LINE

CAUTION: GAS LINE

TOC/TOS

R/W

+75 US-81
430'

+00 US-81
420'

+00 US-81
275'

+00 US-81
235'

STA. 412+75.00 TO STA. 457+86.43 (US-81)
CONST. FENCE STYLE WWF

SEC. 30, T7N R7W

LIMITS OF NO ACCESS

EOP-STA. 425+74.85 RAMP Z
PT-STA. 425+74.85 RAMP Z
STA. 425+74.85 US-81, 68' RT

STA. 412+43.00
BEGIN CONST. RAMP Z
X=1973403.9268
Y=624110.6122

PVI-STA 412+43.00
ELEV.= 1168.98

-2.289%

PVC-STA 412+95.00
ELEV.= 1167.79

160' V.C.
K = 77

PVI-STA 413+75.00
ELEV.= 1165.96

PVT-STA 414+55.00
ELEV.= 1162.47

EXISTING PROFILE

EX. GAS LINE (6")

-4.358%

FINISH GRADE

600' V.C.
K = 126

EX. GAS LINE (4")

VARIABLE GRADE
SEE SPOT ELEVATIONS

155 STA. 420+81.00
CONST. 2-30"x104' LG RCP SKEWED
45° RF 61.75' LT & 42.25' RT MSRD ALONG
SKEW W/PCES'S
FL LT = 1134.70 FL RT = 1133.80

LOW STA 422+48.59
ELEV.= 1139.84

PVC-STA 417+00.00
ELEV.= 1151.80

PVT-STA 423+00.00
ELEV.= 1139.95

PVI-STA 423+01.48
ELEV.= 1139.96

0.408%

STA. 425+74.85
END CONST. RAMP Z
X=1974242.3216
Y=625118.3509

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PROPOSED R/W

AUGUST 2017

SEC. 29, T7N R7W

METER BLDG
DIRT
SEPARATOR
BARWIRE FENCE
POLE
GRAVEL
GAS VALVE
STORAGE TANK
LIMITS OF NO ACCESS
STA. 460+69.75 TO STA. 480+40.91 (US-81)
CONST. FENCE STYLE WWF
PC-STA. 466+70.82 RAMP AA-2
= STA. 468+70.82 US-81, 68° LT
TOC/TOS
GOV'T LOT 6
CULTIVATION
℄ RAMP AA
PRES. R/W
℄ SURVEY US-81
BRIDGE 'U'
BRIDGE 'S'
FRISCO AVE.
SEC. LINE EW-395
N 89°51'06.23" W
2659.01'
STA. 481+23.22 PT
34"X 22" ELL
H.W.=1092.92
H.E.=1093.14
34"X 2
H.W.=1
H.E.=1093.71
L.W.E.=1148.85
TEMP.=41° F
4" TO
CAUTION:
WATER LINE
TUG
POWER O.H.
Public Service Co. of Okla.
20' Right-of-Way Easement
Rec'd. Bk. 452, Pg. 306
Filed December 9, 1968
R/W
+00
150'
200'
325'
315'
309'
10'
15'
4'

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US-81.

0 50' 100'

470+00
475+00
480+00
482+00

STA. 468+70.82
BEGIN CONST. RAMP AA
X=1978084.3321
Y=626925.7344

HYDRAULIC DATA			
DRAINAGE AREA (sq. mi.)			
TOTAL			37.54
CONTROLLED			00.00
EFFECTIVE			37.54
FREQ.	Q(cfs)	V(fps)	CHW(ft)
2	1510	4.62	1095.36
5	3210	4.76	1096.86
10	4890	5.05	1097.80
25	7700	5.76	1098.89
50	10100	6.34	1099.64
100	12500	6.87	1100.30
	QOT (cfs)	VOT (fps)	CHWOT (ft)
483	19690	8.78	1101.66
	CONTRACTION SCOUR(ft)	PIER SCOUR (ft)	TOTAL SCOUR (ft)
100	3.11	8.12	11.23

PVI-STA.473+46.48
ELEV.= 1109.21
BEG. BRIDGE
STA. 474+68.72
ELEV. 1109.21
BRIDGE LENGTH = 601'-8"
PVC-STA.479+00.00
ELEV.= 1109.21
PVI-STA.480+00.00
ELEV.= 1109.21
END BRIDGE
STA. 480+70.38
ELEV. 1108.42
PVT-STA.481+00.00
ELEV.= 1108.11
FINISH GRADE
0.000%
-1.100%
200' V.C.
K = 182
HI STA.479+00.00
ELEV.= 1109.21
481+04.50
℄ RT.= 1094.50
EXISTING PROFILE
VARIABLE GRADE
SEE SPOT ELEVATIONS
EX. TELEPHONE
' UNDERGROUND
EX. WATER LINE (SIZE UNK.)

BRIDGE "U" - ℄ STA. 477+69.55 ℄ RAMP AA
CONST. 3(2-100') CONTINUOUS PLATE GIRDER SPANS
x 29' CLEAR ROADWAY WITH 42" F-SHAPED PARAPETS

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SEC. 20, T7N R7W

PROPOSED R/W
AUGUST 2017

0 50' 100'

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US-81.

LIMITS OF NO ACCESS

STA. 481+14.06 TO STA. 484+48.85 (US-81)
CONST. FENCE STYLE CLF

PC-STA. 483+04.13

485+00

400+00

482+00

℄ SURVEY US-62

℄ RAMP AA

AA-2

180.53'
N 6°42'39.99" E

PRES. R/W

CHAIN LINK SECURITY FN.

TOC/TOS

PT-STA. 487+26.17

CAUTION:
POWER O.H. PUG

POB-STA. 488+68.82 RAMP AA
POE-STA. 488+51.02 RAMP AA
STA. 402+47.63 US-62

℄ RAMP BB

STA. 404+31.81 ℄ L.W.E.=1124.21
WIRE-O.H. CROSSING (AEP PSCO)

2" TO 8" DECIDUOUS (TYP. THIS AREA)

Public Service Co. of Okla. 10' R/W Easement Rec. Bk. 694, Pg. 100 Filed April 12, 1971

State of Oklahoma Report of Commissioners Bk. 842, Pg. 440 Filed 02/21/1968

City of Chickasha 20' Easement Rec. Bk. 2840, Pg. 595 Filed February 21, 1996

STA. 401+22.20 OFFSET 0.46 LT ℄ GPI 3.8'x8.3' RDY. TOP=1100.58 (GROWING TREE FND IN INLET)
36"X75.55' RCP RT fL ELEV. N=1096.70 & fL ELEV. S=1096.29
36"X75.34' RCP LT fL ELEV. N=1097.32 & fL ELEV. S=1096.70

SS MH
TOP=1101.82
2" PVC
fl S=1098.56
6" PVC (LOOKS ABAND
fl NE=1092.45
6" RCP
fl W=1091.93
12" RCP
fl NW=1091.92
fl S=1091.90

SS CO
TOP=1100.37

UGND TEL

UGND G LN (CENTERPOINT)

UGND G LN

TUG

TRI

SS MH
TOP=1090.60
fl E=1090.29
fl W=1090.29

SS MH
TOP=1100.98
fl E=1091.48
fl S=1091.36
fl W=1091.77

SS MH
TOP=1100.99
fl E=1091.96
fl W=1091.96

FINISH GRADE

-1.100%

1.00% RT.

2.22% RT.

1.00% RT.

0.44% RT.

0.500%

EXISTING PROFILE

SP. DITCH RT.

483+50.00
fL RT.= 1096.95

484+00.00
fL RT.= 1098.06

485+53.00
fL RT.= 1099.60

487+17.50
fL RT.= 1100.33

200' V.C.
K = 125

PVC-STA. 485+63.13
ELEV.= 1103.02

PVI-STA. 486+63.13
ELEV.= 1101.92

PVT-STA. 487+63.13
ELEV.= 1102.42

LOW STA. 487+00.63
ELEV.= 1102.26

PVI-STA. 488+06.12
ELEV.= 1102.63

STA. 488+06.02
END CONST. RAMP AA
X=1978811.5799
Y=628580.7939

EX. POWER UNDERGROUND

| | | |

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PROPOSED
R/W
AUGUST 2017

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US-81.

SEC. 20, T7N R7W

0 50' 100'

LIMITS OF NO ACCESS

℄ SURVEY US-62

US-62

℄ RAMP BB

℄ SURVEY US-81

400+00

495+00

500+00

PC-STA. 491+48.81
=POB-STA. 488+51.02
=POB-STA. 486+68.68 RAMP AA
=STA. 402+47.63 US-62

PT-STA. 494+70.72

PC-STA. 496+28.22

PT-STA. 500+38.45

TOC/TOS

PRES. R/W

R/W

277.99'
N 81°21'37.29" E

157.50'
N 32°59'58.84" E

BB-1

CAUTION:
WATERLINE
FO
PUG
SANITARY SEWER
GAS LINE

SS MH
TOP=1101.82
2" PVC
S=1098.56
6" PVC (LOOKS ABANDONED)
NE=1092.45
6" RCP
W=1091.93
12" RCP
NW=1091.92
S=1091.90

SS CO
TOP=1100.37

SS MH
TOP=1100.38
12" RCP
N=1094.17
E=1094.45
S=1091.95

SS MH
TOP=1100.00
12" RCP
W=1091.95
12" RCP (0.31)
S=1091.64

STA. 401+25.20 OFFSET 0.46' LT (GROWING TREE)
TOP=1100.38
36"X75.55' RCP RT
FL ELEV. N=1096.70 & FL ELEV. S=1096.25
36"X75.34 RCP LT
FL ELEV. N=1097.32 & FL ELEV. S=1096.70

STA. 501+97.70 ℄ G (KEPCO)

+44.91
294.32' LT

POST INDICATOR VALVE

GRASS

ASPHALT

SIGN

R/R SIGN

(162) STA. 489+56.00
CONST. 28"X18"X138' LG RCPA
90.50' LT & 47.50' RT
W/B6 CET'S (ACGR)
FL LT = 1097.65 FL RT = 1098.39

EXISTING PROFILE

EX. SAN. SEWER (12")

STA. 489+13.82
BEGIN CONST. RAMP BB
X=1978858.4186
Y=628657.6474

STA. 500+38.45
END CONST. RAMP BB
X=1979407.6858
Y=629634.6624

PVI-STA.489+13.82
ELEV.= 1102.80

PVC-STA.489+47.43
ELEV.= 1103.23

PVI-STA.490+72.43
ELEV.= 1104.85

PVT-STA.491+97.43
ELEV.= 1109.10

250' V.C.
K = 119

1.291%

3.400%

FINISH GRADE

PVC-STA.494+59.25
ELEV.= 1118.00

PVI-STA.496+09.25
ELEV.= 1123.10

HI STA.497+08.03
ELEV.= 1122.23

PVT-STA.497+59.25
ELEV.= 1122.05

300' V.C.
K = 73

VARIABLE GRADE
SEE SPOT ELEVATIONS

| | | |

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PROPOSED
R/W
AUGUST 2017

0 50' 100'

PIPE

℄ SURVEY US-81

℄ RAMP CC

℄ HP G LN
(CONTINUUM ENERGY)

201.75'
N 57°38'24.65" E

POB-STA. 461+69.17 RAMP CC
POT-STA. 461+68.17 US-81, 56' RT

PCC-STA. 463+69.92

GORE
LOT 23

PCC-STA. 468.82

TOC/TOS

R/W

PRES. R/W

+00
150'

+70
170'

CULVERT

161

STA. 458+50.01 TO STA. 483+22.78 (US-81)
CONST. FENCE STYLE WWF

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US-81.

SEC. 29, T7N R7W

SEC. 20, T7N R7W

LIMITS OF NO ACCESS

470+00

475+00

STA. 461+68.17
BEGIN CONST. RAMP CC
X=1977627.4013
Y=624281.0614

FINISH GRADE

STA. 469+56.57 (161)
CONST. GPI TYPE 2 DES. 8
W/118 LF 24" RCP & PCES TO OUTFALL RT
TG = 1106.68 FL = 1103.95 DS FL = 1099.62

PVI-STA.474+34.56
ELEV = 1115.04

0.893%

VARIABLE GRADE
SEE SPOT ELEVATIONS

EXISTING PROFILE

460+00	461+00	462+00	463+00	464+00	465+00	466+00	467+00	468+00	469+00	470+00	471+00	472+00	473+00	474+00	475+00
		EX.=1099.22	EX.=1099.19	EX.=1099.19	EX.=1099.17	EX.=1099.08	EX.=1099.02	EX.=1099.13	EX.=1099.16	EX.=1099.19	EX.=1098.90	EX.=1098.65	EX.=1099.13	EX.=1099.17	EX.=1099.31	EX.=1099.32	EX.=1099.37	EX.=1099.22	EX.=1099.49	EX.=1099.38	EX.=1099.46	EX.=1099.50	EX.=1099.39	EX.=1099.48	EX.=1099.69	EX.=1099.74	EX.=1099.85 F.G.=1115.18	EX.=1099.46

1125 1120 1115 1110 1105 1100 1095 1090 1085 1080

RAMP CC

State Job No. 24428(04) Sheet No. R193

GRADY COUNTY US-81 REALIGNMENT

8/27/2017

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PROPOSED
R/W
AUGUST 2017

0 50' 100'

℄ RAMP AA

BRIDGE 'U'

BRIDGE 'S'

Recorded
Filed December 9, 1966

℄ SURVEY US-81

BRIDGE 'T'

BRIDGE 'V'

℄ RAMP CC 493.86'
N 37°22'00.00" E

530.73'
N 37°22'00.00" E

475+00

474+00

L.W.E.=1147.95
TEMP.=41°F

2669.01'
S 63°31'06.23" W

SEC. LINE EW-135

FRISCO AVE.

PT-STA 479+42.46

18" DECIDUOUS

CULTIVATION

2" TO 8" DECIDUOUS
(TYP. THIS AREA)

PC-STA. 484+36.31

CAUTION:
WATER LINE
POWER O.H.
TUG

PT-STA 487+01.71

STA 487+22.55 ℄ POWER U/GND CROSSING

POE-STA 488+57.73 RAMP CC
=STA 487+60.17 US-62

TOC/TOS

SP. DITCH

US-62

ASPHALT

156.02'
N 21°27'29" E

CC-1

8"

15"

2"

CAUTION:
PUG

REFLECTOR POST

HDWL

PUG

FO

36" RCP

38" RCP

410+00

℄ SURVEY US-62

STA 410+00
TOP BRASS CAP
AND LINE ON TOP

PRES. R/W

R/W

+00
230'

STA. 458+50.01 TO STA. 483+22.78 (US-81)
CONST. FENCE STYLE WWF

LIMITS OF NO ACCESS

+00
310'

+26.43
355.77'

STA.TUTOR R/W

L.W.E.=1151.21
TEMP.=41°F

EW-135

BARRY STREET

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W,
AND R/W DIMENSIONS SHOWN ARE FROM
THE ℄ SURVEY US-81.

SEC. 20, T7N R7W

STA.479+99.39 OFFSET 510.61' ℄
34"x22"X30.05' ELLIPTICAL CMP
ELEV. W=1092.54
ELEV. E=1092.68

STA.480+38.19 OFFSET 428.62' ℄
34"x22"X29.78' ELLIPTICAL CMP
ELEV. W=1092.92
ELEV. E=1093.14

STA.480+62.66 OFFSET 380.58' ℄
34"x22"X48.13' ELLIPTICAL CMP
ELEV. W=1093.25
ELEV. E=1093.31

STA.481+68.41 ℄
4 WIRE O.H. CROSSING
L.W.E.=1139.00
(SCO)

STA.482+18.51 ℄
TELEPHONE CROSSING
(ATT/D)

HYDRAULIC DATA

DRAINAGE AREA (sq. mi.)			
TOTAL			37.54
CONTROLLED			00.00
EFFECTIVE			37.54
FREQ.	Q(cfs)	V(fps)	CHW(ft)
2	1510	4.62	1095.36
5	3210	4.76	1096.86
10	4890	5.05	1097.80
25	7700	5.76	1098.89
50	10100	6.34	1099.64
100	12500	6.87	1100.30
	QOT (cfs)	VOT (fps)	CHWOT (ft)
483	19690	8.78	1101.66
	CONTRACTION SCOUR(ft)	PIER SCOUR (ft)	TOTAL SCOUR (ft)
100	3.11	8.12	11.23

BRIDGE LENGTH = 60'-8"

BRIDGE "V" - ℄ STA. 479+42.46 ℄ RAMP CC
CONST. 6-100'-TYPE IV P.C.B. SPANS
x 29' CLEAR ROADWAY WITH
42" F-SHAPED PARAPETS

BEG. BRIDGE
STA. 476+41.63
ELEV. 1116.89

PVC-STA.477+00.00
ELEV.= 1117.41

PVI-STA.479+00.00
ELEV.= 1119.20

PVI-STA.481+00.00
ELEV.= 1113.14

END BRIDGE
STA. 482+43.29
ELEV. 1108.80

FINISH GRADE

0.893%

400' V.C.
K = 102

HI STA.477+91.06
ELEV.= 1117.82

-3.029%

EXISTING PROFILE

482+63.00
℄ LT.= 1094.54

0.50% LT.

PVC-STA.483+48.65
ELEV.= 1105.61

300' V.C.
K = 85

LOW STA.486+05.91
ELEV.= 1101.71

FINISH GRADE

0.503%

484+51.00
℄ LT.= 1095.48

PVI-STA.484+98.65
ELEV.= 1101.06

1.62% LT.

486+31.00
℄ LT.= 1098.39

SP. DITCH LT.

1.86% LT.

PVT-STA.486+48.65
ELEV.= 1101.82

487+31.00
℄ LT.= 1100.25

PVI-STA.488+12.47
ELEV.= 1102.64

STA. 488+12.47
END CONST. RAMP CC
X=1979341.4074
Y=628257.8887

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PROPOSED
R/W
AUGUST 2017

0 50' 100'

℄ SURVEY US-81

℄ SURVEY US-62

℄ RAMP DD

℄ RAMP BB

DD-1

DD-2

218.25'
N 6°35'53.31" W

490+00

495+00

410+00

POB STA. 487+01.61 ℄ RAMP DD
STA. 486+44.71 US-81 ℄ SURVEY
Ark-La-Tex Timber Co. Inc.
Rec'd Bk. 1014, Pg. 407
Filed September 22, 1975

POC STA. 488+43.65
℄ RAMP BB
TOP=1089.49
12"CMP
W=1089.42
HW SS=1100.92

STA. 488+02.45 ℄ WATER LINE CROSSING
(W. L. - KASHA)
STA. 488+02.50 ℄ GAS LINE CROSSING
(DOBSON)
STA. 489+49.41 ℄ FIBER OPTICS CROSSING
(ATT OF LA)
STA. 490+21.08 ℄ 12"X432.80' RDY.
RCP SAN. W=1089.42 RT. & 287.60' RT. &
℄ ELEV. W=1089.42 RT. & 145.15' LT.
STA. 494+23.00 ℄ GAS LINE CROSSING
(CENTERPOINT)
ELEV. E=1090.60 LT.

POT-STA. 491+90.61

POC-STA. 494+08.86

State of Oklahoma
Report of Commissioners
Bk. 842, Pg. 340
Filed February 22, 2001

163 R/R SIGN

164 R/R SIGN

CAUTION:
GAS LINE

RETAINING WALL

PRES. R/W

TOC/TOS

CAUTION:
WATERLINE
PUG
FO
SANITARY SEWER

NOTE:
ALL BENCHMARKS, UTILITY, PRES. R/W, AND R/W DIMENSIONS SHOWN ARE FROM THE ℄ SURVEY US-81.

LIMITS OF NO ACCESS

SEC. 20, T7N R7W

UGND G LN (KEPCO)

UGND G LN (CENTERPOINT)

GRAVEL

METER

OIL/GAS WELL

OIL/GAS STORAGE

CHAIN LINK SECURITY FEN

FLAG POLE

SIGN

SERVICE LI

RETAINING POOL

POT-STA. 499+76.91 ℄ RAMP DD
℄ STA. 499+76.91 US-81, 68' RT

STA. 409+70.68 ℄ GP 36"X8"X8.3' RDY.
TOP=1100.63
36"X75.01' RCP RT
℄ ELEV. N=1096.41 & ℄ ELEV. S=1096.02
36"X72.40' RCP LT
℄ ELEV. N=1096.46 & ℄ ELEV. S

Arkansas Louisiana Gas Co.
10" Pipeline Easement
Rec'd. Bk. 1014, Pg. 132
Filed February

SIGN

ROUTE SIGN

HDWL

ELECTRIC POST

ASPHALT

CONC.

GRAVEL

FO

UGND

OHW

PUG

TS-1089.62

36" ROP

CMP

RCP

PVC

PVI-STA 487+46.81
ELEV.= 1102.79

PVC-STA 487+70.88
ELEV.= 1102.91

200' V.C.
K = 89

PVI-STA 488+70.88
ELEV.= 1103.41

0.500%

2.750%

FINISH GRADE

STA. 487+95.00
CONST. 28"X18"X82' LG RCPA SKEWED 9°LF
43.00' LT & 39.00' RT
W/B6 CET'S (ACGR)
FL LT = 1099.00 FL RT = 1098.65

PVT-STA 489+70.88
ELEV.= 1106.16

EX. FIBEROPTIC CABLE
EX. FIBEROPTIC CABLE
EX. WATER LINE (SIZE UNK.)

EX. SAN. SEWER (12")

EXISTING PROFILE

EX. GAS LINE (SIZE UNK.)

PVC-STA 494+66.84
ELEV.= 1119.80

250' V.C.
K = 74

PVI-STA 495+91.84
ELEV.= 1123.24

HI STA 496+70.48
ELEV.= 1122.60

-0.626%

PVT-STA 497+16.84
ELEV.= 1122.45

PVI-STA 497+23.89
ELEV.= 1122.41

VARIABLE GRADE
SEE SPOT ELEVATIONS

PT-STA. 499+76.91

STA. 487+56.81
BEGIN CONST. RAMP DD
X=1979381.4696
Y=628338.8700

STA. 499+76.91
END CONST. RAMP DD
X=1979521.1248
Y=629537.6327

	486+00	487+00	488+00	489+00	490+00	491+00	492+00	493+00	494+00	495+00	496+00	497+00	498+00	499+00	500+00	501+00
EX.			1102.71	1099.05	1099.56	1099.50	1099.38	1099.26	1099.57	1099.60	1099.67	1099.84	1099.72	1099.67	1099.59	1099.70	1099.75	1099.43	1098.88	1098.47	1098.22	1097.88	1097.66
F.G.			1102.81	1103.10	1103.66	1104.49	1105.61	1106.96	1113.84	1115.21	1116.59	1117.96	1119.34	1120.64	1121.62	1122.26	1122.57	1122.54					

RAMP DD

State Job No. 24428(04) Sheet No. R195

GRADY COUNTY US-81 REALIGNMENT

STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SWO 4380(1) J/P 24428(04) : CO. Grady

HORIZONTAL CONTROL:
( ) Oklahoma Coordinate System of 1927 Zone.
(x) Oklahoma Coordinate System of 1983 South Zone. (Cors96)
( ) Oklahoma Dept. of Transportation Plane Coordinate System of 1927 Zone.
( ) Oklahoma Dept. of Transportation Plane Coordinate System of 1983 Zone.
( ) Arbitrary Coordinate System

HORIZONTAL PLANE DATUM DEFINITION:
Oklahoma Department of Transportation coordinates were derived by multiplying the Oklahoma Coordinate Systems of 1927 or 1983 by the combined adjustment factor of 1.00010. The ODOT Coordinate System is 2350 feet above sea level.

1. GPS Network adjusted to CORS (1st) Order
Stations okoa, okar, okcl, okdt, oklw, wmok
A) Closure before adjustment X : Y Angles
Trav. Length No. Angles ; 1:
B) ; is ( ) Order before adjustment.
C) Method of Distance Measurement:
( ) Electronic (x) GPS ( ) Triangulation ( ) Chained
D) Instrument used for angles

2. adjusted to ( ) Order
Stations
A) Closure before adjustment X : Y Angles
B) ; is ( ) Order; Tied to
C) Of Distance Measurement:
( ) Electronic ( ) GPS ( ) Triangulation ( ) Chained
D) Instrument used for angles

VERTICAL CONTROL IS (3rd) order. Level Line taken from BM 7 & BM8 SWO 4380 (1)
(3rd) order and tied to BM 35 & BM37 SWO 4380 (1) (3rd) order. ( ) NGVD 29 datum (x) NAVD 88 datum

ACCURACY DEFINITION:
(1) HORIZONTAL: (3rd Order = Class I = 1 : 10,000')
(3rd Order = Class II = 1 : 5,000')
(2) VERTICAL: (1st Order = 0.017 Ft. x sqrt. of Mi.) (2nd Order = 0.035 Ft. x sqrt. of Mi.)
(3rd Order = 0.050 Ft. x sqrt. of Mi.)

Distribution:
Copy w/survey reports
Copy in each Alignment and level book

Bill R. Webb
Professional Land Surveyor

12/21/2015
Date

(FORM SD #20)
Rev. 11/03

UTILITIES

Company Name	Phone No.
Communication Lines:	
Chickasaw Telephone Co.	580-616-5455
Southwestern Bell	800-522-6543
AT&T	800-778-9140
Dobson Technologies	800-778-9140
Intelleq Communications	800-338-4343
Medicine Park Telephone Co.	580-529-2700
Electric Lines:	
AEP Public Service Co. of Oklahoma	888-216-3523
Oklahoma Electric Cooperative	405-321-2024
Water & Sewer Lines:	
City of Chickasha Public Works	405-222-6080
Rural Water District # 6	405-455-6626
Rural Water District # 7	405-778-6224
Natural Gas Lines:	
Centerpoint Energy	866-275-5265
Natural Gas / Petroleum Pipelines:	
Enable Midstream	800-522-8048
Continuum Energy	877-587-0026
DCP Midstream	800-435-1679
Unit Petroleum	918-493-7700
Sunoco Logistics	800-753-5531
Kepco Operating Inc.	855-421-2088

THIS SURVEY MEETS THE OKLAHOMA MINIMUM STANDARDS FOR THE PRACTICE OF LAND SURVEYING AS ADOPTED BY THE OKLAHOMA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS, MAY 17, 2010.

SPECIFICATIONS FOR SURVEYS FOR PRIMARY AND SECONDARY HIGHWAYS DATED JAN 1, 2011 GOVERN. WHERE THERE IS A CONFLICT BETWEEN THESE SPECIAL PROVISIONS AND THE SPECIFICATIONS, THE SPECIAL PROVISIONS SHALL TAKE PRECEDENCE.

STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION

SURVEY OF

U.S. 81, CHICKASHA WEST BYPASS

SWO 4380(1)

J/P NO. 24428(04)

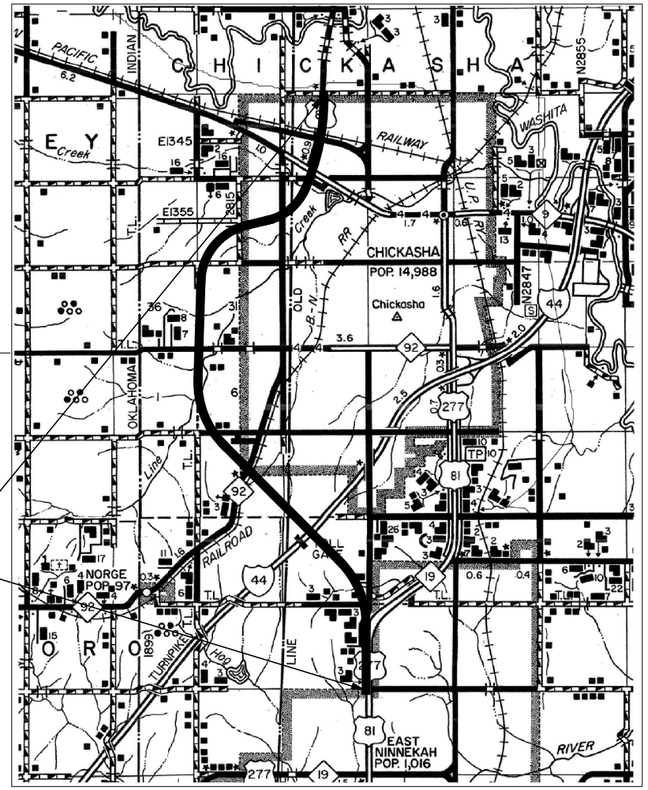
GRADY COUNTY

R-8-W | R-7-W

T-7-N

T-6-N

PROJECT EXTENTS



U.S. 81, WEST BYPASS,
MAIN SURVEY PROJECT LENGTH: 45,577.58 Ft. 8.63 MI.

BEGINNING STATION : 87+22.42
ENDING STATION : 543+00.00

Electronic File Transfer Disclaimer:

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OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

INDEX OF SHEETS

1. TITLE SHEET
2. KEY PLAN
3-4. HISTORICAL LETTER & WRITTEN REPORT
4-6 LEVEL REPORT
7-9 ALIGNMENT REPORT
10-13 COORDINATE GEOMETRY REPORT
14-18 SURVEY CONTROL NETWORK
19-59 SURVEY DATA SHEETS
60-76 GEOMETRIC DATA SHEETS

SURVEY BEGAN: FEBRUARY 17, 2011
SURVEY COMPLETED: JUNE 17, 2016

BENHAM DESIGN, LLC

PERSONNEL:
JOHN T. BIRKHAHN, PROFESSIONAL LAND SURVEYOR
ANDREW KIS, PARTY CHIEF
JAMES JACKSON, SURVEY TECHNICIAN
DANIEL BENNETT, PARTY CHIEF
CHRIS SHIPMAN, SURVEY TECHNICIAN
BRANDON HOLLAND, SURVEY TECHNICIAN
JOHN OKON, SURVEY TECHNICIAN

EQUIPMENT:
TRIMBLE R8 MODEL 3 RECEIVER
SOKKIA SET3 TOTAL STATION
TRIMBLE DINI DIGITAL LEVEL

STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION

SWO 4380(1) Job/Piece 24428(04) Engr. Contract No. 1218

LAND SURVEYOR'S CERTIFICATION

I hereby certify that all land and property sub-division distances, angles, corners, and monumentation made or used in conjunction with this survey and depicted or recorded herein or hereon were recovered, established or re-established in substantial conformity with:

- Applicable instructions contained in the U.S. Government Bureau of Land Management publication **"Manual of Survey Instruction"**,
- Its supplement, **"Restoration of Lost or Obliterated Corners and Sub-division of Sections"**;
- **"Oklahoma Minimum Standards for the Practice of Land Surveying"** as adopted by the State Board of Licensure for Professional Engineers and Land Surveyors; **and**
- Sound land surveying practices;

including a thorough search, study, analysis and consideration of all existing records and field evidence.

I further certify that all survey monuments depicted exist and that all land survey work was done by me or under my direct supervision.

Dated this 24th day of June, 2016.

Land Surveyor _____ (seal)
Signature

John T. Birkhahn
Printed Name

Oklahoma Licensed Land Surveyor No. 1738

Certificate of Authorization No. 3722

LICENSED PROFESSIONAL LAND SURVEYOR JOHN T. BIRKHAHN 1738 OKLAHOMA

BEFORE YOU DIG CALL OKIE

PLS	JTB		**OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION**
DRAWN	JTB		SURVEY DATA SHEET
CHECKED	JTB		SDS 1 OF 76
APPROVED	JTB		
CREW	BENHAM		SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S1

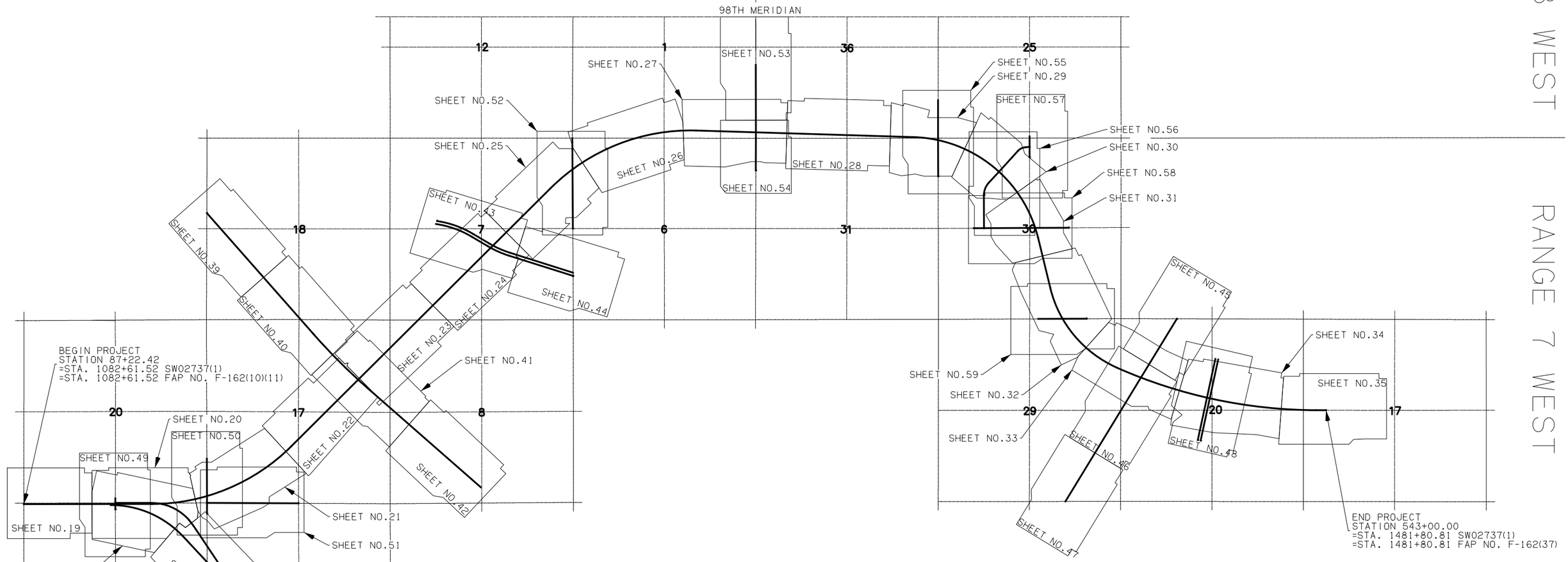
8-87

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS	
DESCRIPTION	DATE

TOWNSHIP 6 NORTH | TOWNSHIP 7 NORTH

RANGE 8 WEST | RANGE 7 WEST



SCALE:
NTS

			OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
PLS	JTB		
DRAWN	APK		SURVEY DATA SHEET
CHECKED	JTB		SDS 2 OF 76
APPROVED	JTB		SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S2
CREW	BENHAM		

8-87

OKLAHOMA DEPARTMENT OF TRANSPORTATION

SURVEY DIVISION (405) 521-2621 FAX 405-522-0364

Date: July 6, 2016

To: Mr. William Tackett, Chief of Surveys
From: John Birkhahn, Professional Land Surveyor
Subject: SWO 4380(1) J/P 24428(04) – Grady County
U.S. 81 Chickasha West Bypass.

HISTORICAL LETTER & WRITTEN REPORT

1. GENERAL:

A. Survey began: February 17, 2011.
Survey completion: June 17, 2016.
B. The measurement unit for this project will be the U.S. Survey Foot.

2. SURVEY ASSIGNMENT:

The above survey was assigned to me by Mr. Larry Reser, Chief of Surveys in September 2010, and then again by Mr. William Tackett, Chief of Surveys, with revised Survey Special Provisions in November 2014.

3. PURPOSE OF SURVEY:

The purpose of this survey is to develop plans to design a highway on a new highway alignment, to include all road crossings, interchanges, bridges, frontage roads, and other facilities required by the design. The survey will also include sufficient data to design the connections to the existing highway at the beginning and end of the project. The survey will include the Alignment, Topographic/Planimetric data, Surface Features/Digital Terrain Model Data, Land and Property Ties, Utilities, Drainage and all other pertinent information needed to aid in the design.

4. SURVEY LIMITS:

West Bypass Main Survey: Beginning at P.O.T. Sta. 1082+61.52 (on EW-141 Section Line) as established under SWO 2737(1) Section One survey and shown on FAP No. F-162(10)(11) plans, and extending northerly along US 81, then northwesterly on a new alignment (one of two similar alternatives selected on October 29, 2014) continuing Northwesterly, Northeasterly, and finally Northerly, tying back to existing US 81, near the present junction of US 81 & US 62, Northwest of Chickasha. From there, the survey continues to and ends at P.T. Sta. 1481+80.81 as established under SWO 2737(1) Section 2 survey and shown on FAP No. F-162(37) plans (approximate centerline length=8.63 miles).

US 81 Northbound Survey: Beginning at P.C. Sta. 1107+80.13 as shown on FAP No. F-162(10)(11) plans, and extending northeasterly along existing US 81 for approximately 4300 feet.

US 81 Southbound Survey: Beginning at P.O.T. Sta. 1109+14.72 as shown on FAP No. F-162(10)(11) plans, and extending northeasterly along existing US 81 for approximately 4500 feet.

H.E. Bailey Turnpike Connection Survey: Beginning approximately 4840 feet Southwest of the centerline of the Main survey and extending Northeast along H.E. Bailey Turnpike approximately 9700 feet

S.H. 92 (Norge Rd.) & BNSF Railroad Connection Survey: Beginning 600 feet Southwest of the centerline of the Main Survey and extending Northeast along S.H. 92 & BNSF Railroad approximately 1200 feet.

U.S. 62 Connection Survey: Beginning at P.O.T. Sta. 385+47.37 (NS-282 Section Line) as established under SWO 2738(1) Section 1 survey & SWO 3609(1) survey and shown on FAP No. STPY-026B(240) plans, and extending Southeasterly along U.S. 62 approximately 6200 feet.

Old U.S. 62 Connection Survey: Beginning 1150 feet Northwest of the centerline of the Main Survey and extending Southeast along Old U.S. 62 approximately 2400 feet.

Union Pacific Railroad Connection Survey: Beginning 1150 feet Northwest of the centerline of the Main Survey and extending Southeast along Old U.S. 62 approximately 2400 feet.

EW-140.5 Section Line Connection Survey: Beginning 300 feet West of the centerline of the Main Survey and extending East 600 feet along Section Line.

EW-140 Section Line Connection Survey: Beginning 1100 feet West of the centerline of the Main Survey and extending East approximately 3400 feet along Section Line.

NS-283 Section Line (16th St.) Connection Survey: Beginning at EW-140 Section Line, extending North approximately 400 feet along Section Line.

EW-138 Section Line (Country Club Rd.) Connection Survey: Beginning at NS-281 Section Line and extending East to NS-281.5 ¼ Section Line, approximately 2620 feet.

EW-137 Section Line (Grand Ave.) Connection Survey: Beginning approximately 1950 feet West of the centerline of the Main Survey and extending East approximately 3050 feet along Section Line.

EW-136 Section Line (Idaho Ave.) Connection Survey: This survey will begin approximately 1150 feet West of the centerline of the Main Survey and will extend East approximately 2200 feet along Section Line..

Iowa Ave. Connection Survey: Beginning at EW-135.5 ¼ Section Line, approximately 250 feet East of NS-281 Section Line, then extending Southeasterly for approximately 3000 feet to the present intersection of Iowa Ave. and C.S. 2815 Rd.

EW-135.5 Section Line (C.R. 1355) Connection Survey: Beginning at NS-281 Section Line and extending East, approximately 600 feet along Section Line.

NS-281.5 Section line (C.S. 2815 Rd.) Connection Survey: Beginning approximately 300 feet South of the centerline of the Main Survey and extending North approximately 1300 feet along Section Line.

NS-282 Section line (29th St.) Connection Survey: Beginning approximately 700 feet South of the centerline of the Main Survey and extending North approximately 1400 feet along Section Line.

ROCK HOLLOW CREEK FEMA FLOOD PLAIN: Parallel flight lines, parallel to U.S. 62, are to be laid out by the Aerial Photo/Mapping sub-consultant to cover the food plain area approved by ODOT.

5. ALIGNMENTS:

West Bypass Main Survey: This Centerline of Survey is along the proposed alignment submitted to ODOT by Benham Design, LLC (one of two similar alternatives selected on October 29, 2014).

US 81 Northbound Survey: The Centerline of Survey will be along and identical to the Centerline of Survey as shown on FAP No. F-162(10)(11) plans.

US 81 Southbound Survey: The Centerline of Survey will be along and identical to the Centerline of Survey as shown on FAP No. F-162(10)(11) plans.

H.E. Bailey Turnpike Connection Survey: The Centerline of Survey will be along and identical to the Centerline of Survey established under SWO 2737(1) Section One survey and shown in Alignment Book 2.

S.H. 92 (Norge Rd.) & BNSF Railroad Connection Survey: The Centerline of Survey will be along and identical to the centerline of S.H. 92 as established under SWO 1148 survey & SWO 1148(REV.) survey and shown as FAS No. S-219(1) plans. Note: Reference points were found for two P.I.'s at Sta. 146+17.19 and Sta. 182+70.95 from said plans. All curve data and tangent angles were held between these points to determine alignment.

U.S. 62 Connection Survey: The Centerline of Survey will be along and identical to the Centerline of Survey established under SWO 2738(1) Section 1 survey and SWO 3609(1) survey and shown on FAP No. STPY-026B(240) plans.

Old U.S. 62 Connection Survey: The Centerline of Survey will be along and identical to the centerline of Old U.S. 62 as established under SWO 2737(1) Section 2 survey and shown in Alignment Book No. 2.

Union Pacific Railroad Connection Survey: The Centerline of Survey will be along and identical to the centerline of the former C.R.I. & P. Railway as established under SWO 2737(1) Section 2 survey and shown in Alignment Book No. 2.

EW-140.5 Section Line Connection Survey: The Centerline of Survey will be along and identical to EW-140.5 ¼ Section Line.

EW-140 Section Line Connection Survey: The Centerline of Survey will be along and identical to EW-140 Section Line.

NS-283 Section Line (16th St.) Connection Survey: The Centerline of Survey will be along and identical to NS-283 Section Line.

EW-138 Section Line (Country Club Rd.) Connection Survey: The Centerline of Survey will be along and identical to EW-138 Section Line.

EW-137 Section Line (Grand Ave.) Connection Survey: The Centerline of Survey will be along and identical to EW-137 Section Line.

EW-136 Section Line (Idaho Ave.) Connection Survey: The Centerline of Survey will be along and identical to EW-136 Section Line.

Iowa Ave. Connection Survey: This Centerline of Survey is along the proposed alignment submitted to ODOT by Benham Design, LLC (one of two similar alternatives selected on October 29, 2014).

EW-135.5 Section Line (C.R. 1355) Connection Survey: The Centerline of Survey will be along and identical to EW-135.5 ¼ Section Line.

NS-231.5 Section line (C.S. 2815 Rd.) Connection Survey: The Centerline of Survey will be along and identical to NS-281.5 ¼ Section Line.

NS-232 Section line (29th St.) Connection Survey: The Centerline of Survey will be along and identical to NS-282 Section Line.

ROCK HOLLOW CREEK FEMA FLOOD PLAIN: N/A.

6. STATIONING:

West Bypass Main Survey: Stationing for this survey is taken from SWO 2737(1) Section One survey at P.O.T. Sta. 1082+61.52 (at the EW-141 Section Line). Stationing increases Northerly from this point, field measured distance, to the End of Survey without equation, except with previous surveys and plans.

US 81 Northbound Survey: Stationing for this survey is taken from SWO 2737(1) Section One survey at P.C. Sta. 1107+80.13. Stationing increases Northeasterly from this point to the End of Survey without equation, except with previous surveys and plans.

US 81 Southbound Survey: Stationing for this survey is taken from SWO 2737(1) Section One survey at P.O.T. Sta. 1109+14.72 (at the EW-140.5 ¼ Section Line). Stationing increases Northeasterly from this point to the End of Survey without equation, except with previous surveys and plans.

H.E. Bailey Turnpike Connection Survey: Stationing for this survey is taken from SWO 2737(1) Section One survey.

S.H. 92 (Norge Rd.): Stationing for this survey is taken from FAS No. S-219(1) plans.at P.C. Sta. 162+81.10. Stationing increases Northeasterly from this point to the End of Survey without equation, except with previous surveys and plans.

BNSF Railroad Connection Survey: A value of Sta. 100+00.00 is assigned to the Beginning of Survey and stationing increases Northeast to the End of Survey without equation, except with other surveys and plans.

U.S. 62 Connection Survey: Stationing for this survey is taken from SWO 2738(1) Section 1 survey.

Old U.S. 62 Connection Survey: Stationing for this survey is taken from SWO 2737(1) Section 2 survey.

Union Pacific Railroad Connection Survey: Stationing for this survey is taken from SWO 2737(1) Section 2 survey.

EW-140.5 Section Line Connection Survey: A value of Sta. 100+00.00 is assigned to the Beginning of Survey, and stationing increases East to the End of Survey without equation, except with other surveys and plans.

EW-140 Section Line Connection Survey: A value of Sta. 100+00.00 is assigned to the Beginning of Survey, and stationing increases East to the End of Survey without equation, except with other surveys and plans.

NS-283 Section Line (16th St.) Connection Survey: A value of Sta. 100+00.00 is assigned to the Beginning of Survey, and stationing increases North to the End of Survey without equation, except with other surveys and plans.

EW-138 Section Line (Country Club Rd.) Connection Survey: A value of Sta. 100+00.00 is assigned to the Beginning of Survey, and stationing increases East to the End of Survey without equation, except with other surveys and plans.

EW-137 Section Line (Grand Ave.) Connection Survey: A value of Sta. 100+00.00 is assigned to the Beginning of Survey, and stationing increases East to the End of Survey without equation, except with other surveys and plans.

EW-136 Section Line (Idaho Ave.) Connection Survey: A value of Sta. 100+00.00 is assigned to the Beginning of Survey and stationing increases East to the End of Survey without equation, except with other surveys and plans.

Iowa Ave. Connection Survey: A value of Sta. 100+00.00 is assigned to the Beginning of Survey and stationing increases Southeast to the End of Survey without equation, except with other surveys and plans.

EW-135.5 Section Line (C.R. 1355) Connection Survey: A value of Sta. 100+00.00 is assigned to the Beginning of Survey, and stationing increases East to the End of Survey without equation, except with other surveys and plans.

NS-281.5 Section line (C.S. 2815 Rd.) Connection Survey: A value of Sta. 100+00.00 is assigned to the Beginning of Survey and stationing increases North to the End of Survey without equation, except with other surveys and plans.

NS-282 Section line (29th St.) Connection Survey: A value of Sta. 100+00.00 is assigned to the Beginning of Survey and stationing increases North to the End of Survey without equation, except with other surveys and plans.

ROCK HOLLOW CREEK FEMA FLOOD PLAIN: N/A

7. HORIZONTAL CONTROL:

A. Horizontal control for this survey is NGS Oklahoma State Plane Coordinate System NAD83 (CORS 96) (EPOCH: 2002), Lambert Projection, South Zone (3502). Primary control points for this survey are the following.

Existing Monuments

"UNION" (From N.G.S. Data Sheet, NAD 83 (2007), PID-FJ1044)
"1 TF" (From N.G.S. Data Sheet, NAD 83 (1993), PID-EL1033)
"CHICK" (From N.G.S. Data Sheet, NAD 83 (1993), PID-FJ1049)
"D 214" (From N.G.S. Data Sheet, NAD 83, PID-EL0693)
"POCASSET" (From N.G.S. Data Sheet, NAD 83 (1993), PID-FJ0789)

"K 41 1953" (From N.G.S. Data Sheet, NAD 83, PID-FJ0528)

Set Monuments

ODOT monuments "G-26-865 thru G-26-868" NAD 83 (CORS 96)
(by Benham Design, LLC)
ODOT monuments "G-26-1032 thru G-26-1039" (CORS 96)
(by Aerial Data Services, Inc.)

ODOT monuments "G-26-865 thru G-26-868" were set 5/8" iron pins with stamped aluminum cap in concrete. They were established using GPS, for three separate static survey data occupations for a minimum of two hours, on three separate days, at different times of day. All data was uploaded to http://www.ngs.noaa.gov/OPUS/. The solutions were then averaged to obtain coordinates in NAD 83 (CORS96)(EPOCH: 2002).

ODOT monuments "G-26-1032 thru G-26-1039" were set chiseled "X"'s in concrete. They were set using GPS from selected points from OPUS Projects network adjustment shown in SWO4380_1_v2.dgn. Existing N.G.S. monuments listed above were used as a check for primary and secondary control.

A coordinate shift of ΔN= 0.002, ΔE= -0.129 was applied to all NAD 83 (CORS 2011) coordinate solutions to conform to NAD 83 (CORS 96) horizontal datum. This was calculated by uploading identical static sessions for ODOT Monuments "G-26-865 thru G-26-868" to http://www.ngs.noaa.gov/OPUS/, and subtracting resulting coordinate differences between CORS 96 and CORS 2011 solutions.

B. Secondary Control for this survey was established using GPS RTK, based off of primary control points.

8. VERTICAL CONTROL:

Level datum for this survey is NAVD 88. Benchmarks for this survey were set by Aerial Data Services Inc. All bench marks were tied to the following ODOT bench marks from SWO 4380(1): BM 7-13, 15-20, 24-28, 30, 32-34, & 37. Bench marks established or used on this survey meet the requirements of the N.G.S. 3rd order standards as a minimum.

9. PHOTO CONTROLS:

A total of 110 Aerial Targets were set and tied on this project. Aerial targets were set and measured by Aerial Data Service, Inc. Aerial targets are shown in SWO4380_1_v2.dgn, Cogo Points List, and X,Y,Z coordinates were placed in the following file: SWO4380_1_v2_targets.txt

10. TOPOGRAPHY:

The majority of the topography on this survey was obtained from aerial photogrammetry survey data by Aerial Data Service, Inc. The date of flight for the aerial survey was March 11, 2015. GPS RTK and conventional field methods were used to survey the following:

1. Drainage structures
2. Creek flow lines.
3. Ponds

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	JTB		SURVEY DATA SHEET
CHECKED	JTB		SDS 3 OF 76
APPROVED	JTB		SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S3
CREW	BENHAM		

4. Underground utilities
5. Overhead wires and cables
6. Meters, valves, hydrants, etc.
7. Mail boxes
8. Entities that were covered by water, timber, or dense vegetation at the time of the aerial flight.

Topography information was placed in the following file: SWO4380_1_v2_Topo.dgn.

11. DTM:

DTM information was collected from aerial mapping by Aerial Data Service, Inc. Additional flow line information for Rock Hollow Creek, Line Creek, and other tributaries was collected using GPS and conventional field methods at locations where creeks crossed existing and proposed alignments. Flow line measurements were taken 500 feet upstream and downstream at 25 feet intervals at these locations. The bottom surface of ponds, within 300 feet of existing and proposed alignments, was also surveyed with GPS and conventional field methods. This information was combined with the surface from the aerial survey and placed in the following file: SWO4380_1_v2.dtm.

12. LAND TIES:

Complete land tie information was obtained by GPS RTK and conventional field methods for the following sections.

T-6-N, R-7-W, I.M.; All of Sections 6, 7, 8, 16, 17, 18, 20, & 21
T-7-N, R-7-W, I.M.; All of Sections 17, 20, 29, 30, & 31
T-6-N, R-8-W, I.M.; All of Sections ' & 12 lying East of the 98th Meridian
T-7-N, R-8-W, I.M.; All of Sections 25 & 36 lying East of the 98th Meridian

Corner records were researched from the Department of Libraries in Oklahoma City, OK. GLO Notes were obtained from the following website: www.glorecords.blm.gov.

Land corners from ODOT Survey 2737(1) were recovered and/or re-established and used on this survey. See a full description of land corner recovery and restoration on the Land Tie survey data sheets for this survey, located in SWO4380_1_v2.dgn.

13. EXISTING RIGHT-OF-WAY AND PROPERTY LINES

Present right-of-way, utility easements, and property line information was obtained from the following sources:

- Two separate title searches for right-of-way, utility easements, and ownership deeds from Cochran Abstract Company.
- ODOT Plans
  - FAP No. F-162 (9),(10),(11),(31),(35),(37)
  - FAP No. STPY-26B (240)
  - FAS No. S-219 (1)
- Oklahoma Turnpike Authority Plans
  - Contract No. 206
- Existing Plats
  - Burchi's Sixth Addition
  - Chickasha Industrial Park

  - Chickasha Industrial Park Block I Revised
  - Conrad Heights Addition
  - Creek Haven Estates
  - Harden's Acres
  - Hillsboro Heights Revised Addition
- Supplemental research at Grady County Assessor's website.

Ownership information could not be determined, from the above research, for three areas along the south side of U.S. 62. These areas are annotated, along with all other found information, in the survey data sheets located in SWO4380_1_v2.dgn. All property and easement lines are shown mathematically and diagrammatically in survey data sheets. If no right-of-way documentation was found along section lines within the survey limits, statutory right-of-way was annotated. Statutory right-of-way for this survey falls within the Chickasaw Nation boundary, which is 33 feet (16.5 feet each side of section line).

14. UTILITIES

The assistance of "Oklahoma One-Call System, Inc." was used to locate utilities. Utility locations for this survey were derived from a combination of utility markings, surface evidence, utility easement descriptions, and utility maps provided by the following utility companies:

- AEP Public Service Company of Oklahoma
- City of Chickasha Public Works
- Rural Water District #6
- Rural Water District #7
- Centerpoint Energy
- Enable Midstream
- DCP Midstream
- Continuum Energy
- Sunoco Logistics
- USIC locating services

There are no depths on any lines except for sanitary and storm sewer flow lines. Low-wire elevations were obtained on overhead power lines that crossed the main survey alignment and stub alignments. Outside temperatures were recorded for that process. All utility locations should be verified in the field before construction. All utilities, flow line and low wire elevations, and three-dimensional sanitary sewer entities, are located in SWO4380_1_v2_TOPO.DGN

15. POTENTIAL ENVIROMENTAL CONTAMINATION

During the course of this survey there were no Underground Storage Tanks or Hazardous Waste Sites found.

16. DRAINAGE INFORMATION

Drainage and Hydraulic data are located in SWO4380_1_v2_DRA.DGN. Three-dimensional drainage structures are located in SWO4380_1_v2_TOPO.DGN.

17. SURVEY DATA SHEETS

Survey datasheets were submitted in the form of a Microstation Design File to be archived on the ODOT Mainframe Computer, as per ODOT Survey Division Standards. These will be incorporated into the set of design drawings and will be in substantial conformity with the ODOT Survey Division Standards for Survey Data Sheets, as maintained on the ODOT(s) Intranet.

18. SUBMISSION OF SURVEY DATA

A. Historical Letter & Written Report
B. Form SD-1 Transmittal letter
C. Form SD-7 Public and Privately Owned Utilities List
D. Form SD-11 Position and Description of Survey Monuments
E. Form SD-20 Survey Control Data Statement
F. Form SD-41 Surveyors Certification
G. Coordinate Geometry List
H. Bench Marks and Check Levels list
I. Alignment Reports
J. 113 copies of Certified Corner Records
K. Microstation files for Survey Data Sheets, Contours, Drainage, Perimeter, Surface Features, Topography, and Triangles
L. Inroads files for Geometry and Surface
M. Full size and Half size PDF's of Survey Data Sheets.

19. PERSONNEL

Benham Design, LLC

John T. Birkhahn, Professional Land Surveyor
Andrew Kis, Party Chief
James Jackson, Survey Technician
Daniel Bennett, Party Chief
Chris Shipman, Survey Technician
Brandon Holland, Survey Technician
John Okon, Survey Technician

Aerial Data Services

Bill Webb, Professional Land Surveyor
Other Technicians (Not listed)

If you have any questions or need further information, please contact John Birkhahn, PLS.

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS	
DESCRIPTION	DATE

U.S. 81 CHICKASHA BYPASS
GRADY COUNTY
SWO4380(1) J/P 24428(04)

BENCHMARK AND CHECK LEVEL LIST **NAVD 88 DATUM**

BM NO.	RUN 1	RUN 2	MEAN DIFF.	ADJ. ELEV.	PUBLISHED ELEV.	ALIGNMENT	STATION	OFFSET	DESCRIPTION
BM #207				1182.3820	1182.382	A001	N/A	N/A	"X" ON CTR. W. HDWL. RCB CROSS DRAIN
TO	2.6361	2.6403	2.6382						
BM #208				1185.0190	1185.019	A001	87+50.10	69.67 L	"[]" ON S.W. WINGWALL OF CONC. RCB CROSS DRAIN
TO	8.7372	8.7401	8.7387						
BM #209				1193.7700	1193.770	A001	102+78.31	98.50 R	NGS MONUMENT "H-214" ENCASED STEEL ROD W/ METAL LID. THIS MONUMENT IS 5.8 MI. SOUTHERLY ALONG U.S. 81 FROM THE FEDERAL BUILDING IN CHICKASHA, 66.9 FT. EAST OF THE CENTERLINE OF THE NORTH BOUND LANES OF THE HIGHWAY, 18.4 FT. SOUTH OF THE GUY WIRE ANCHOR, AND 5.9 FT. NORTH OF A UTILITY POLE.
TO	2.3674	2.3760	2.3717						
BM #210				1196.1440	1196.144	A001	108+67.70	66.14 L	"X" ON CENTER W. HDWL. RCB CROSS DRAIN
TO	4.5142	4.5121	4.5132						
BM #211				1200.6510	1200.651	A001	114+06.93	68.77 L	"[]" ON N.E. WINGWALL W. SIDE DRAIN
TO	3.3253	3.3313	3.3283						
BM #212				1203.9780	1203.978	A001	123+39.68	114.46 L	80D SPIKE IN POWER POLE ON EAST EDGE OF 16TH STREET
TO	-6.6022	-6.5997	-6.6010						
BM #213				1197.3790	1197.379	A001	127+52.29	176.47 L	N.W. COR. W. CONC. HDWL. CGMP CROSS DRAIN
TO	-14.0288	-14.0271	-14.0279						
BM #11				1183.3562		A001	134+50.38	58.92 R	100D NAIL SET S.W. FACE 8" ELM
TO	8.4489	8.4508	8.4498						
BM #12				1191.8111		A001	141+72.09	306.34 L	100D NAIL SET W. FACE 18" ELM
TO	-18.4913	-18.4996	-18.4955						
BM #13				1173.3208		A001	151+40.21	517.03 L	100D NAIL IN N. FACE OF 24" COTTONWOOD, NEAR S.E. CORNER OF POND DAM.
TO	13.2228	13.2270	13.2249						
BM #215				1186.5508		A001	155+15.31	300.60 L	80D SPIKE IN FENCE POST
TO	4.2439	4.2435	4.2437						
BM #216				1190.7996		A001	158+03.48	880.07 L	N.E. CORNER CONC. SIDEWALK TO WOOD FRAME RESIDENCE
TO	46.5327	46.5226	46.5277						
BM #217				1237.3323		A001	174+72.74	845.39 L	80 D SPIKE IN R.R. TIE FENCE POST
TO	12.4241	12.4181	12.4211						
BM #218				1249.7585		A001	186+78.95	1501.34 L	80D SPIKE IN GROUND AT BASE OF METAL CORNER POST
TO	2.7674	2.7647	2.7660						
BM #219				1252.5297		A004	273+25.31	199.18 R	80D SPIKE IN POWER POLE - EAST R/W FENCE I-44
TO	2.2406	2.2352	2.2379						
BM #220				1254.7730	1254.773	A004	283+25.13	73.71 R	N.E. CORNER OF TOP CONC. STEP ON N. SIDE OF TOLL GATE BLDG.
TO	-4.9001	-4.8975	-4.8988						
BM #1				1249.8746		A001	197+99.60	286.18 L	100D NAIL SET IN E. FACE 8" WOOD BRACE POST, N. SIDE OF I-44
TO	-19.3697	-19.3758	-19.3728						
BM #2				1230.5022		A001	206+56.29	312.42 L	100D NAIL SET IN E. FACE OF 12" ELM TREE
TO	-37.8283	-37.8251	-37.8267						
BM #3				1192.6759		A001	213+74.34	247.53 L	100D NAIL SET IN E. FACE 8" ELM TREE
TO	23.8587	23.8676	23.8632						
BM #4				1216.5394		A001	221+88.54	247.39 L	SET 3/4" I.P. (30" LONG)
TO	11.0538	11.0500	11.0519						
BM #5				1227.5917		A001	229+44.85	230.97 L	SET 3/4" I.P. (30" LONG)
TO	-7.4454	-7.4456	-7.4455						
BM #6				1220.1465		A001	237+30.46	270.08 L	SET 3/4" I.P. (30" LONG)
TO	-4.7502	-4.7548	-4.7525						
BM #7				1215.3944		A001	245+09.56	219.21 L	SET 3/4" I.P. (30" LONG)
TO	16.3605	16.3676	16.3641						
BM #8				1231.7588		A005	172+17.70	13.67 L	CHIX. "X" SET (N. END OF CONC. HDWL.)
TO	7.0540	7.0450	7.0495						
BM #9				1238.8087		A001	260+20.24	215.00 R	SET 3/4" I.P. (30" LONG)
TO	-2.8200	-2.8176	-2.8188						
BM #10				1235.9903		A001	268+76.80	217.22 R	SET 3/4" I.P. (30" LONG)
TO	-7.2407	-7.2400	-7.2404						
BM #224				1228.7503		A001	269+87.18	660.24 R	80D SPIKE IN POWER POLE, W. OF CHAIN LINK FENCE
TO	-8.5019	-8.5025	-8.5022						
BM #14				1220.2484		A001	277+08.81	222.72 R	SET 3/4" I.P. (30" LONG)
TO	-72.5185	-72.5050	-72.5118						
BM #15				1147.7371		A001	289+60.35	1024.54 L	CHIS. "X" SET ON TOP CENTER OF SOUTH HEADWALL, 300' +/- WEST OF INT. MOCKINGBIRD & CR 1380.
TO	28.6203	28.6238	28.6220						
BM #16				1176.3595		A013	105+78.86	134.75 L	SET 3/4" I.P. (30" LONG)
TO	-0.8233	-0.8258	-0.8245						
BM #17				1175.5353		A001	291+94.55	161.56 R	SET 3/4" I.P. (30" LONG)
TO	-25.7638	-25.7734	-25.7686						
BM #18				1149.7671		A001	299+82.47	186.53 R	SET 3/4" I.P. (30" LONG)
TO	-11.1276	-11.1295	-11.1286						
BM #19				1138.6389		A001	307+77.96	207.93 R	SET 3/4" I.P. (30" LONG)
TO	-2.7523	-2.7585	-2.7554						
BM #20				1135.8839		A001	315+73.98	173.94 R	SET 3/4" I.P. (30" LONG) - 1' UNDERGROUND
TO	7.3685	7.3669	7.3677						
BM #21				1143.2519		A001	323+71.24	162.63 R	SET 3/4" I.P. (30" LONG) - 1' UNDERGROUND
TO	-10.7954	-10.7841	-10.7898						
BM #22				1132.4626		A001	339+41.63	1401.09 R	CHIS. "X" SET ON TOP - WEST END OF SOUTH WALL OF BRIDGE OVER LINE CREEK

PLS	JTB	
DRAWN	JTB	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SDS 4 OF 76

SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S4

8-87

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS	
DESCRIPTION	DATE

BM NO.	RUN 1	RUN 2	MEAN DIFF.	ADJ. ELEV.	PUBLISHED ELEV.	ALIGNMENT	STATION	OFFSET	DESCRIPTION
TO	44.6668	44.6616	44.6642						
BM #228				1177.1270	1177.127	A001	328+31.01	2986.12 R	"X" ON S.E. EDGE OF SANITARY SEWER MANHOLE
TO	-45.0259	-45.0198	-45.0229						
BM #23				1132.0986		A001	331+35.67	232.88 R	SET 3/4" I.P. (30" LONG)
TO	0.5628	0.5690	0.5659						
BM #24				1132.6589		A014	121+84.30	37.10 L	SET 3/4" I.P. (30" LONG)
TO	-1.8574	-1.8702	-1.8638						
BM #25				1130.7895		A001	347+12.25	244.09 R	SET 3/4" I.P. (30" LONG)
TO	9.3828	9.3843	9.3836						
BM #26				1140.1674		A001	354+96.15	244.55 R	SET 3/4" I.P. (30" LONG)
TO	7.4180	7.4400	7.4290						
BM #230				1147.5910	1147.591	A001	359+92.92	3390.76 R	80D SPIKE IN 10" FENCE CORNER POST
TO	-11.0928	-11.0866	-11.0897						
BM #27				1136.5030		A001	357+02.39	391.80 R	CHIS. "X" SET ON N.E. CORNER OF HIGHEST CONC. SLAB, SOUTH OF LINE CREEK
TO	11.4861	11.4853	11.4857						
BM #28				1147.9903		A001	362+57.30	371.62 R	SET 3/4" I.P. (30" LONG)
TO	17.1013	17.1026	17.1020						
BM #29				1165.0940		A001	370+58.95	310.52 R	SET 3/4" I.P. (30" LONG)
TO	9.5380	9.5288	9.5334						
BM #30				1174.6291		A001	378+29.20	336.61 R	SET 3/4" I.P. (30" LONG)
TO	-2.2641	-2.2504	-2.2573						
BM #31				1172.3735		A001	386+19.74	310.53 R	SET 3/4" I.P. (30" LONG)
TO	4.2783	4.2873	4.2828						
BM #32				1176.6579		A001	399+38.08	1873.77 R	CHIS. "X" SET, N.W. COR. CONC. PAD OF WATER VAULT
TO	-16.0683	-16.0684	-16.0683						
BM #232				1160.5913		A001	406+08.72	2379.36 R	80D SPIKE IN POWER POLE ON SOUTH EDGE OF RD. AT INTERSECTION OF CS 2815 AND CR 1360
TO	16.4558	16.4620	16.4589						
BM #33				1177.0519		A015	114+28.25	120.83 L	SET 3/4" I.P. (30" LONG)
TO	-2.7761	-2.7706	-2.7734						
BM #34				1174.2801		A001	401+84.95	255.39 R	SET 3/4" I.P. (30" LONG)
TO	-4.2906	-4.2887	-4.2896						
BM #35				1169.9922		A001	409+18.77	333.74 R	SET 3/4" I.P. (30" LONG)
TO	-7.5702	-7.5625	-7.5663						
BM #36				1162.4276		A001	417+60.46	271.62 R	SET 3/4" I.P. (30" LONG)
TO	-3.8914	-3.8937	-3.8926						
BM #37				1158.5366		A001	425+88.69	267.77 R	SET 3/4" I.P. (30" LONG)
TO	2.2423	2.2392	2.2407						
BM #233				1160.7790		A018	115+89.10	23.91 L	60D SPIKE IN FENCE CORNER POST, S.W. QUADRANT OF INTERSCTION
TO	1.4349	1.4402	1.4375						
BM #39				1162.2182		A001	435+13.73	191.30 R	SET 3/4" I.P. (30" LONG)
TO	-22.4610	-22.4665	-22.4638						
BM #40				1139.7561		A001	442+62.04	214.40 R	SET 3/4" I.P. (30" LONG)
TO	2.6942	2.6954	2.6948						
BM #234				1142.4525		A001	444+05.54	480.86 R	80D SPIKE IN SOUTH BRACE POST OF FENCE CORNER POST
TO	-34.0483	-34.0352	-34.0418						
BM #41				1108.4124		A001	448+29.10	358.03 L	SET 3/4" I.P. (30" LONG)
TO	-6.8526	-6.8592	-6.8559						
BM #42				1101.5582		A019	103+55.35	104.61 L	SET 3/4" I.P. (30" LONG)
TO	4.2737	4.2746	4.2741						
BM #235				1105.8340	1105.834	A001	455+62.40	732.35 R	80D SPIKE IN POWER POLE, SOUTH OF CIRCLE GRAVEL DRIVE, WEST SIDE 29TH ST.
TO	-6.8580	-6.8646	-6.8613						
BM #43				1098.9817		A001	465+43.47	284.38 R	SET 3/4" I.P. (30" LONG)
TO	-0.1867	-0.1867	-0.1867						
BM #44				1098.8040		A001	473+41.96	307.35 R	SET 3/4" I.P. (30" LONG)
TO	-5.1050	-5.0889	-5.0970						
BM #45				1093.7161		A001	480+83.78	283.55 R	SET 3/4" I.P. (30" LONG) - 1' UNDERGROUND
TO	9.5741	9.5759	9.5750						
BM #237				1103.3000	1103.300	A001	488+32.41	12.28 L	O.D.O.T. STANDARD BRASS MONUMENT "G-26-399" IN CENTER MEDIAN OF U.S. 62
TO	-2.8455	-2.8426	-2.8440						
BM #47				1100.4535		A007	409+70.68	75.84 R	CHIS. BOX SET ON TOP CENTER OF HDWL, SOUTH SIDE HWY 62, APPROX. 500' +/- EAST OF HWY 81
TO	-0.8708	-0.8706	-0.8707						
BM #48				1099.5803		A001	496+14.08	236.05 R	SET 3/4" I.P. (30" LONG)
TO	-3.7094	-3.7148	-3.7121						
BM #49				1095.8657		A001	503+82.60	227.46 R	SET 3/4" I.P. (30" LONG)
TO	-2.9876	-2.9819	-2.9847						
BM #50				1092.8784		A001	512+02.76	231.34 R	SET 3/4" I.P. (30" LONG)
TO	0.5777	0.5839	0.5808						
BM #51				1093.4567		A001	519+62.64	230.00 R	SET 3/4" I.P. (30" LONG)
TO	-0.1968	-0.1979	-0.1974						
BM #52				1093.2569		A001	527+58.98	209.80 R	SET 3/4" I.P. (30" LONG)
TO	-0.1486	-0.1499	-0.1493						
BM #53				1093.1051		A001	535+55.51	210.93 R	SET 3/4" I.P. (30" LONG)
TO	2.0849	2.0906	2.0878						
BM #54				1095.1904		A001	542+99.05	221.48 R	SET 3/4" I.P. (30" LONG)
TO	16.8700	16.8734	16.8717						
BM #238				1112.0600	1112.060	A001	N/A	N/A	THIS NATIONAL GEODETIC SURVEY MONUMENT (NGS "W") IS APPROXIMATELY 3/4 MILE NORTH OF THE MOST NORTHERLY BENCHMARK SET FOR THE PROJECT, (ADS BM 54). BEYOND STATIONING LIMITS.

BM NO.	RUN 1	RUN 2	MEAN DIFF.	ADJ. ELEV.	PUBLISHED ELEV.	ALIGNMENT	STATION	OFFSET	DESCRIPTION
BM #224				1228.7503		A001	269+87.18	660.24 R	80D SPIKE IN POWER POLE, W. OF CHAIN LINK FENCE
TO	-13.1070	-13.1085	-13.1077						
BM #225				1215.6424		A013	125+48.17	44.82 R	80D SPIKE IN POWER POLE IN S.E. QUADRANT INTERSECTION OF COUNTRY CLUB AND HILL RD
TO	-14.0185	-14.0261	-14.0223						
BM #226				1201.6199		A001	284+47.01	2182.28 R	BENT 80D SPIKE IN GATE POST APPROX. 20' N. OF N/S AND E/W FENCE LINE INTERSECTION
TO	-11.5288	-11.5189	-11.5239						
BM #227				1190.0958		A001	302+90.70	3267.36 R	80D SPIKE IN POWER POLE, S. EDGE GRAVEL DRIVE ON WEST SIDE 29TH STREET
TO	-12.9654	-12.9721	-12.9688						
BM #228				1177.1270	1177.127	A001	328+31.01	2986.12 R	"X" ON S.E. EDGE OF SANITARY SEWER MANHOLE

PLS	JTB	
DRAWN	JTB	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SDS 5 OF 76

SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S5

8-87

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS	
DESCRIPTION	DATE

U.S. 81 CHICKASHA BYPASS
GRADY COUNTY
SWO4380(1) J/P 24428(04)

BENCHMARK AND CHECK LEVEL LIST **NAVD 88 DATUM**

BM NO.	RUN 1	RUN 2	MEAN DIFF.	ADJ. ELEV.	ALIGNMENT	STATION	OFFSET	DESCRIPTION
GRAND AVE.								
BM #24				1132.6589	A014	121+84.30	37.10 L	SET 3/4" I.P. (30" LONG)
TO	17.6650	17.6608	17.6629					
BM #91				1150.3224	A014	111+74.40	213.43 L	SET 3/4" I.P. (30" LONG)
TO	33.2406	33.2414	33.2410					
BM #92				1183.5639	A014	104+11.22	212.64 R	SET 3/4" I.P. (30" LONG)
TO	-51.4608	-51.4709	-51.4659					
BM #23				1132.0986	A001	331+35.67	232.88 R	SET 3/4" I.P. (30" LONG)
S.H. 92								
BM #8				1231.7588	A005	172+17.70	13.67 L	CHIX. "X" SET (N. END OF CONC. HDWL.)
TO	-8.3495	-8.3484	-8.3490					
BM #90				1223.4025	A005	188+24.32	61.45 R	SET 3/4" I.P. (30" LONG)
TO	15.4124	15.4145	15.4135					
BM #9				1238.8087	A001	260+20.24	215.00 R	SET 3/4" I.P. (30" LONG)
N.B. U.S. 81								
BM #212				1203.9780	A001	123+39.68	114.46 L	80D SPIKE IN POWER POLE ON EAST SIDE OF 16TH STREET
TO	-7.9579	-7.9584	-7.9582					
BM #86				1196.0211	A002	1124+46.43	95.92 R	SET 3/4" I.P. (30" LONG)
TO	-13.3237	-13.3191	-13.3214					
BM #87				1182.7010	A002	1133+42.40	96.38 R	SET 3/4" I.P. (30" LONG)
TO	-3.1818	-3.1770	-3.1794					
BM #88				1179.5229	A002	1140+21.86	95.46 R	SET 3/4" I.P. (30" LONG)
TO	0.8077	0.8102	0.8089					
BM #89				1180.3331	A002	1145+30.53	180.36 L	SET 3/4" I.P. (30" LONG)
TO	17.0502	17.0394	17.0448					
BM #213				1197.3790	A001	127+52.38	176.47 L	N.W. COR. OF W. CONC. HDWL. CGMP CROSS DRAIN
U.S. 62 (N.W.)								
BM #237				1103.3000	A001	488+32.41	12.28 L	O.D.O.T. STANDARD BRASS MONUMENT "G-26-399" IN CENTER MEDIAN OF U.S. 62
TO	-3.0553	-3.0493	-3.0523					
BM #60				1100.2491	A007	397+63.99	244.47 R	SET 3/4" I.P. (30" LONG)
TO	-0.2098	-0.2101	-0.2099					
BM #61				1100.0406	A007	389+65.23	281.40 L	SET 3/4" I.P. (30" LONG)
TO	1.2618	1.2671	1.2645					
BM #62				1101.3065	A007	N/A	N/A	SET 3/4" I.P. (30" LONG) - BM BEYOND STATIONING LIMITS
TO	-0.8952	-0.8952	-0.8952					
BM #63				1100.4127	A007	N/A	N/A	SET 3/4" I.P. (30" LONG) - BM BEYOND STATIONING LIMITS
TO	1.5374	1.5377	1.5376					
BM #64				1101.9517	A007	N/A	N/A	SET 3/4" I.P. (30" LONG) - BM BEYOND STATIONING LIMITS
TO	-1.9369	-1.9357	-1.9363					
BM #65				1100.0188	A007	N/A	N/A	SET 3/4" I.P. (30" LONG) - BM BEYOND STATIONING LIMITS
TO	1.2218	1.2265	1.2242					
BM #66				1101.2424	A007	N/A	N/A	SET 3/4" I.P. (30" LONG) - BM BEYOND STATIONING LIMITS
TO	0.3224	0.3283	0.3254					
BM #67				1101.5692	A007	N/A	N/A	SET 3/4" I.P. (30" LONG) - BM BEYOND STATIONING LIMITS
TO	1.1359	1.1373	1.1366					
BM #74				1102.7072	A007	N/A	N/A	SET 3/4" I.P. (30" LONG) - BM BEYOND STATIONING LIMITS
TO	1.6896	1.7028	1.6962					
BM #75				1104.4048	A007	N/A	N/A	80D NAIL SET W/ BRACE NAIL IN N.W. FACE OF 15" TREE - BM BEYOND STATIONING LIMITS
TO	-4.8159	-4.8362	-4.8260					
BM #48				1099.5803	A001	496+14.08	236.05 R	SET 3/4" I.P. (30" LONG)
U.S. 62 (S.E.)								
BM #237				1103.3000	A001	488+32.41	12.28 L	O.D.O.T. STANDARD BRASS MONUMENT "G-26-399" IN CENTER MEDIAN OF U.S. 62
TO	-8.4625	-8.4688	-8.4656					
BM #55				1094.8369	A007	386+78.63	5138.29 L	CHIS. BOX SET, TOP CURB, N. SIDE OF CURB INLET
TO	4.8364	4.8325	4.8344					
BM #56				1099.6738	A007	421+19.53	278.63 L	CHIS. BOX SET, TOP CURB @ P.C., NW OF AEP BLDG.
TO	-3.7519	-3.7732	-3.7626					
BM #57				1095.9138	A007	429+32.54	227.20 R	CHIS. BOX SET ON N.W. COR. OF AC CONC. PAD
TO	3.0570	3.0524	3.0547					
BM #58				1098.9710	A007	437+83.65	420.30 R	CHIS. BOX SET ON TOP CENTER @ W. END OF A 24" R.C.P., NEXT TO PLAYGROUND EQUIP.
TO	10.3774	10.3772	10.3773					
BM #59				1109.3508	A007	444+44.64	282.84 R	CHIS. BOX SET ON THE S.E.S. CURB RETURN @ HARLY DR. & 17TH ST.
TO	-9.7710	-9.7750	-9.7730					
BM #48				1099.5803	A001	496+14.08	236.05 R	SET 3/4" I.P. (30" LONG)

BM NO.	RUN 1	RUN 2	MEAN DIFF.	ADJ. ELEV.	ALIGNMENT	STATION	OFFSET	DESCRIPTION
OLD U.S. 62 (N.W.)								
BM #49				1095.8657	A001	503+82.60	227.46 R	SET 3/4" I.P. (30" LONG)
TO	4.0860	4.0831	4.0846					
BM #73				1099.9474	A008	103+43.30	168.26 R	CHIS. BOX SET, TOP CURB, WEST SIDE OF ROAD ENTRY TO FACTORY ENTRANCE
TO	-7.0313	-7.0709	-7.0661					
BM #50				1092.8784	A001	512+02.76	231.34 R	SET 3/4" I.P. (30" LONG)
OLD U.S. 62 (S.E.)								
BM #49				1095.8657	A001	503+82.60	227.46 R	SET 3/4" I.P. (30" LONG)
TO	-3.0997	-3.0985	-3.0991					
BM #72				1092.7641	A008	119+46.13	146.73 R	SET 3/4" I.P. (30" LONG)
TO	0.1168	0.1170	0.1169					
BM #50				1092.8784	A001	512+02.76	231.34 R	SET 3/4" I.P. (30" LONG)
I-44 H.E. BAILEY TPK. (N.E.)								
BM #220				1254.7730	A004	283+25.13	73.71 R	N.E. COR. TOP CONC. STEP ON N. SIDE OF TOLL GATE BLDG.
TO	-9.6086	-9.6026	-9.6046					
BM #76				1245.1689	A004	298+85.08	158.03 R	SET 3/4" I.P. (30" LONG)
TO	-17.7011	-17.7064	-17.7038					
BM #77				1227.4655	A004	307+00.59	200.57 R	SET 3/4" I.P. (30" LONG)
TO	-12.7253	-12.7281	-12.7267					
BM #78				1214.7393	A004	314+30.67	184.43 R	SET 3/4" I.P. (30" LONG)
TO	-8.3884	-8.3917	-8.3900					
BM #99				1206.3497	A004	320+53.51	168.85 R	CHIX. "X" SET. TOP CENTER HEADWALL
TO	-0.0764	-0.0737	-0.0750					
BM #79				1206.2752	A004	322+38.88	141.94 R	SET 3/4" I.P. (30" LONG)
TO	-8.5709	-8.5783	-8.5746					
BM #80				1197.7010	A004	330+30.42	142.27 R	SET 3/4" I.P. (30" LONG)
TO	-4.0590	-4.0591	-4.0591					
BM #81				1193.6424	A004	N/A	N/A	SET 3/4" I.P. (30" LONG)
TO	58.8690	58.9048	58.8869					
BM #219				1252.5297	A004	273+25.31	199.18 R	80D SPIKE IN POWER POLE, E. R/W FENCE I-44
I-44 H.E. BAILEY TPK. (S.W.)								
BM #220				1254.7730	A004	283+25.13	73.71 R	N.E. CORNER OF TOP CONC. STEP ON N. SIDE OF TOLL GATE BLDG.
TO	-10.6684	-10.6757	-10.6721					
BM #82				1244.1017	A004	264+99.64	192.11 R	SET 3/4" I.P. (30" LONG)
TO	-9.8726	-9.8574	-9.8650					
BM #83				1234.2375	A004	257+17.31	121.51 R	SET 3/4" I.P. (30" LONG)
TO	21.2560	21.2687	21.2624					
BM #84				1255.5007	A004	249+19.21	136.16 R	SET 3/4" I.P. (30" LONG)
TO	21.5508	21.5586	21.5536					
BM #85				1277.0551	A004	241+58.38	197.59 R	SET 3/4" I.P. (30" LONG)
TO	-24.5263	-24.5262	-24.5263					
BM #219				1252.5297	A004	273+25.31	199.18 R	80D SPIKE IN POWER POLE, E. R/W FENCE I-44
IOWA AVE.								
BM #37				1158.5377	A001	425+88.63	267.77 R	SET 3/4" I.P. (30" LONG)
TO	-3.9362	-3.9283	-3.9323					
BM #71				1154.6045	A016	128+02.43	218.63 L	SET 3/4" I.P. (30" LONG) - 1' UNDERGROUND
TO	6.1837	6.1836	6.1837					
BM #70				1160.7873	A016	120+72.88	219.14 L	SET 3/4" I.P. (30" LONG) - 1' UNDERGROUND
TO	9.2073	9.2058	9.2066					
BM #35				1169.9931	A001	409+18.77	333.74 R	SET 3/4" I.P. (30" LONG)
IOWA AVE.								
BM #37				1158.5377	A001	425+88.63	267.77 R	SET 3/4" I.P. (30" LONG)
TO	6.1841	6.1917	6.1879					
BM #69				1164.7245	A016	104+40.34	252.44 L	SET 3/4" I.P. (30" LONG)
TO	-2.2968	-2.2928	-2.2948					
BM #36				1162.4286	A001	417+60.40	271.62 R	SET 3/4" I.P. (30" LONG)
IDAHO AVE.								
BM #33				1177.0526	A015	114+28.25	120.83 L	SET 3/4" I.P. (30" LONG)
TO	9.9920	9.9895	9.9908					
BM #68				1187.0347	A015	103+91.14	217.57 L	SET 3/4" I.P. (30" LONG) - 1' UNDERGROUND
TO	-14.6544	-14.6496	-14.6520					
BM #31				1172.3739	A001	386+19.68	310.53 R	SET 3/4" I.P. (30" LONG)

PLS	JTB	
DRAWN	JTB	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SDS 6 OF 76

SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S6

Project Name: SWO_4380_1_V2
Description: US81 Existing Alignments

Horizontal Alignment Name: A001

Description: CRL_Prop_US81 Bypass
Style: proposed 100

		STATION	EASTING	NORTHING
Element: Linear				
POB (300)		87+22.42	1982754.9150	596110.5945
PC (302)		124+31.69	1982750.4840	599819.8646
Tangent Direction:	N 0°04'06.40" W			
Tangent Length:	3709.27			
Element: Circular				
PC (302)		124+31.69	1982750.4840	599819.8646
PI (309)		147+93.78	1982747.6623	602181.9456
CC ( )			1977020.9080	599813.0202
PT (311)		169+12.58	1981080.9973	603855.7622
Radius:	5729.58			
Delta:	44°48'32.01" Left			
Degree of Curvature(Arc):	1°00'00.00"			
Length:	4480.89			
Tangent:	2362.08			
Chord:	4367.57			
Middle Ordinate:	432.49			
External:	467.80			
Tangent Direction:	N 0°04'06.40" W			
Racial Direction:	N 89°55'53.60" E			
Chord Direction:	N 22°28'22.40" W			
Racial Direction:	N 45°07'21.59" E			
Tangent Direction:	N 44°52'38.41" W			
Element: Linear				
PT (311)		169+12.58	1981080.9973	603855.7622
PC (324)		275+17.98	1973597.9198	611370.9495
Tangent Direction:	N 44°52'38.41" W			
Tangent Length:	10605.40			
Element: Circular				
PC (324)		275+17.98	1973597.9198	611370.9495
PI (328)		299+85.58	1971856.8057	613119.5346
CC ( )			1977658.0089	615413.6913
PT (332)		321+78.07	1971931.0210	615586.0139
Radius:	5729.58			
Delta:	46°36'02.96" Right			
Degree of Curvature(Arc):	1°00'00.00"			
Length:	4660.08			
Tangent:	2467.60			
Chord:	4532.69			
Middle Ordinate:	467.28			
External:	508.78			
Tangent Direction:	N 44°52'38.41" W			

Radial Direction:	N 45°07'21.59" E			
Chord Direction:	N 21°34'36.93" W			
Radial Direction:	S 88°16'35.45" E			
Tangent Direction:	N 1°43'24.55" E			
Element: Linear				
PT (332)		321+78.07	1971931.0210	615586.0139
PC (335)		384+81.79	1972120.6116	621886.8868
Tangent Direction:	N 1°43'24.55" E			
Tangent Length:	6303.72			
Element: Circular				
PC (335)		384+81.79	1972120.6116	621886.8868
PI (340)		413+90.54	1972208.0949	624794.3170
CC ( )			1975938.6036	621772.0050
PT (346)		434+53.73	1975034.1157	625483.0915
Radius:	3819.72			
Delta:	74°34'44.76" Right			
Degree of Curvature(Arc):	1°30'00.00"			
Length:	4971.94			
Tangent:	2908.75			
Chord:	4628.30			
Middle Ordinate:	780.81			
External:	981.43			
Tangent Direction:	N 1°43'24.55" E			
Radial Direction:	S 88°16'35.45" E			
Chord Direction:	N 39°00'46.93" E			
Radial Direction:	S 13°41'50.69" E			
Tangent Direction:	N 76°18'09.31" E			
Element: Linear				
PT (346)		434+53.73	1975034.1157	625483.0915
PC ( )		449+55.47	1976493.1401	625838.6935
Tangent Direction:	N 76°18'09.32" E			
Tangent Length:	1501.73			
Element: Circular				
PC (347)		449+55.47	1976493.1401	625838.6935
PI (350)		466+28.63	1978118.7183	626234.8890
CC ( )			1975686.8730	629146.7828
PCC (352)		480+65.80	1978798.2960	627763.8264
Radius:	3404.93			
Delta:	52°20'18.72" Left			
Degree of Curvature(Arc):	1°40'57.84"			
Length:	3110.33			
Tangent:	1673.16			
Chord:	3003.31			
Middle Ordinate:	349.02			
External:	388.88			
Tangent Direction:	N 76°18'09.31" E			
Radial Direction:	S 13°41'50.69" E			
Chord Direction:	N 50°07'59.95" E			
Radial Direction:	S 66°02'09.41" E			

Tangent Direction:	N 23°57'50.59" E			
Element: Circular				
PCC (352)		480+65.80	1978798.2960	627763.8264
PI (366)		510+85.30	1980024.7080	630523.0503
CC ( )			1965711.8941	633580.4331
PT (368)		540+17.63	1980032.6969	633542.5435
Radius:	14320.85			
Delta:	23°48'44.87" Left			
Degree of Curvature(Arc):	0°24'00.31"			
Length:	5951.83			
Tangent:	3019.50			
Chord:	5909.09			
Middle Ordinate:	308.09			
External:	314.86			
Tangent Direction:	N 23°57'50.59" E			
Radial Direction:	S 66°02'09.41" E			
Chord Direction:	N 12°03'28.16" E			
Radial Direction:	S 89°50'54.27" E			
Tangent Direction:	N 0°09'05.73" E			
Element: Linear				
PT (368)		540+17.63	1980032.6969	633542.5435
POE (369)		543+00.00	1980033.4440	633824.9174
Tangent Direction:	N 0°09'05.73" E			
Tangent Length:	282.37			

Project Name: SWO_4380_1_V2
Description: US81 Existing Alignments

Horizontal Alignment Name: A002

Description: Exist_NB US 81
Style: Existing 100

		STATION	EASTING	NORTHING
Element: Circular				
PC (372)		1107+80.13	1982783.9067	598628.8989
PI (375)		1120+29.70	1982782.4140	599878.4680
CC ( )			1985648.6937	598632.3211
PT (376)		1131+36.73	1983697.2355	600729.6592
Radius:	2864.79			
Delta:	47°07'55.00" Right			
Degree of Curvature(Arc):	2°00'00.00"			
Length:	2356.60			
Tangent:	1249.57			
Chord:	2290.71			
Middle Ordinate:	238.92			
External:	260.66			
Tangent Direction:	N 0°04'06.40" W			
Radial Direction:	N 89°55'53.60" E			

Chord Direction:	N 23°29'51.10" E			
Radial Direction:	S 42°56'11.40" E			
Tangent Direction:	N 47°03'48.60" E			
Element: Linear				
PT (376)		1131+36.73	1983697.2355	600729.6592
PC (378)		1149+12.47	1984997.2710	601939.2709
Tangent Direction:	N 47°03'48.61" E			
Tangent Length:	1775.74			
Element: Circular				
PC (378)		1149+12.47	1984997.2710	601939.2709
PI (379)		1153+72.27	1985333.8969	602252.4828
CC ( )			1988900.1885	597744.5930
PT (382)		1158+30.11	1985716.1640	602508.0030
Radius:	5729.58			
Delta:	9°10'35.00" Right			
Degree of Curvature(Arc):	1°00'00.00"			
Length:	917.64			
Tangent:	459.80			
Chord:	916.66			
Middle Ordinate:	18.36			
External:	18.42			
Tangent Direction:	N 47°03'48.61" E			
Radial Direction:	S 42°56'11.39" E			
Chord Direction:	N 51°39'56.11" E			
Radial Direction:	S 33°45'36.39" E			
Tangent Direction:	N 56°14'23.61" E			

Project Name: SWO_4380_1_V2
Description: US81 Existing Alignments

Horizontal Alignment Name: A003

Description: Exist_SB US 81
Style: Existing 100

		STATION	EASTING	NORTHING
Element: Linear				
POB (383)		1109+14.73	1982719.7460	598763.4060
TS (384)		1117+63.02	1982718.7326	599611.6990
Tangent Direction:	N 0°04'06.40" W			
Tangent Length:	848.29			
Element: Clothoid				
TS (384)		1117+63.02	1982718.7326	599611.6990
SPI (386)		1120+29.72	1982718.4138	599878.6383
SC (388)		1121+63.02	1982736.8467	600010.9418
Entrance Radius:	0.00			
Exit Radius:	1432.39			

Length:	400.00			
Angle:	8°00'00.00" Right			
Constant:	756.94			
Long Tangent:	266.94			
Short Tangent:	133.58			
Long Chord:	399.65			
Xs:	399.22			
Ys:	18.59			
P:	4.65			
K:	199.87			
Tangent Direction:	N 0°04'06.40" W			
Radial Direction:	N 89°55'53.60" E			
Chord Direction:	N 2°35'52.02" E			
Radial Direction:	S 82°04'06.40" E			
Tangent Direction:	N 7°55'53.60" E			
Element: Circular				
SC (388)		1121+63.02	1982736.8467	600010.9418
PI (389)		1126+88.74	1982809.3905	600531.6306
CC ( )			1984155.5383	599813.2856
CS (392)		1131+70.73	1983201.5446	600881.7658
Radius:	1432.39			
Delta:	40°18'30.01" Right			
Degree of Curvature(Arc):	4°00'00.00"			
Length:	1007.71			
Tangent:	525.72			
Chord:	987.06			
Middle Ordinate:	87.71			
External:	93.43			
Tangent Direction:	N 7°55'53.60" E			
Radial Direction:	S 82°04'06.40" E			
Chord Direction:	N 28°05'08.61" E			
Radial Direction:	S 41°45'36.39" E			
Tangent Direction:	N 48°14'23.61" E			
Element: Clothoid				
CS (392)		1131+70.73	1983201.5446	600881.7658
SPI (393)		1133+04.03	1983301.1883	600970.7327
ST (394)		1135+70.73	1983523.1142	601119.0755
Entrance Radius:	1432.39			
Exit Radius:	0.00			
Length:	400.00			
Angle:	8°00'00.00" Right			
Constant:	756.94			
Long Tangent:	266.94			
Short Tangent:	133.58			
Long Chord:	399.65			
Xs:	399.22			
Ys:	18.59			
P:	4.65			
K:	199.87			
Tangent Direction:	N 48°14'23.61" E			
Radial Direction:	S 41°45'36.39" E			

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

PLS	JTB	
DRAWN	JTB	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SDS 7 OF 76

SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S7

Chord Direction:	N 53°34'25.20" E		
Racial Direction:	S 33°45'36.39" E		
Tangent Direction:	N 56°14'23.61" E		

Element: Linear

ST (394)	1135+70.73	1983523.1142	601119.0755
POE (397)	1174+28.12	1986730.0384	603262.6923
Tangent Direction:	N 56°14'23.61" E		
Tangent Length:	3857.39		

Project Name: SWO_4380_1_V2
Description: US81 Existing Alignments

Horizontal Alignment Name: A004

Description: I-44 H.E. Bailey Tpk.
Style: Existing 100

Element: Linear

	STATION	EASTING	NORTHING
POB (400)	224+16.63	1974322.9807	601411.6615
PC (404)	270+98.50	1977834.8922	604507.8469
Tangent Direction:	N 48°35'59.38" E		
Tangent Length:	4681.87		

Element: Circular

PC (404)	270+98.50	1977834.8922	604507.8469
PI (406)	282+00.00	1978661.1403	605236.2869
CC ( )		1966467.7422	617401.2691
PT (407)	292+98.50	1979387.6506	606064.2323
Radius:	17188.73		
Delta:	7°20'00.00" Left		
Degree of Curvature(Arc):	0°20'00.00"		
Length:	2200.00		
Tangent:	1101.50		
Chord:	2198.50		
Middle Ordinate:	35.19		
External:	35.26		
Tangent Direction:	N 48°35'59.38" E		
Racial Direction:	S 41°24'00.62" E		
Chord Direction:	N 44°55'59.38" E		
Racial Direction:	S 48°44'00.62" E		
Tangent Direction:	N 41°15'59.38" E		

Element: Linear

PT (407)	292+98.50	1979387.6506	606064.2323
POE (410)	336+62.15	1982265.7510	609344.1717
Tangent Direction:	N 41°15'59.38" E		
Tangent Length:	4363.65		

Project Name: SWO_4380_1_V2
Description: US81 Existing Alignments

Horizontal Alignment Name: A005

Description: NorgeRd_S.H. 92
Style: Existing 100

Element: Circular

	STATION	EASTING	NORTHING
PC (423)	162+81.10	1974551.0482	608080.1439
PI (424)	168+44.01	1974634.2886	608636.8678
CC ( )		1977384.3431	607656.5147
PT (427)	173+92.76	1974921.9921	609120.7037
Radius:	2864.79		
Delta:	22°13'59.66" Right		
Degree of Curvature(Arc):	2°00'00.00"		
Length:	1111.66		
Tangent:	562.91		
Chord:	1104.70		
Middle Ordinate:	53.75		
External:	54.78		
Tangent Direction:	N 8°30'13.56" E		
Radial Direction:	S 81°29'46.44" E		
Chord Direction:	N 19°37'13.39" E		
Radial Direction:	S 59°15'46.78" E		
Tangent Direction:	N 30°44'13.22" E		

Element: Linear

PT (427)	173+92.76	1974921.9921	609120.7037
PC (429)	179+36.62	1975199.9584	609588.1642
Tangent Direction:	N 30°44'13.22" E		
Tangent Length:	543.86		

Element: Circular

PC (429)	179+36.62	1975199.9584	609588.1642
PI (430)	182+67.67	1975369.1550	609872.7050
CC ( )		1972737.6074	611052.3531
PT (431)	185+95.79	1975468.9980	610188.3351
Radius:	2864.79		
Delta:	13°11'00.00" Left		
Degree of Curvature(Arc):	2°00'00.00"		
Length:	659.17		
Tangent:	331.05		
Chord:	657.71		
Middle Ordinate:	18.94		
External:	19.06		
Tangent Direction:	N 30°44'13.22" E		
Radial Direction:	S 59°15'46.78" E		
Chord Direction:	N 24°08'43.22" E		

Radial Direction:	S 72°26'46.78" E		
Tangent Direction:	N 17°33'13.22" E		

Element: Linear

PT (431)	185+95.79	1975468.9980	610188.3351
POE (432)	205+14.96	1976047.6167	612018.1349
Tangent Direction:	N 17°33'13.22" E		
Tangent Length:	1919.17		

Project Name: SWO_4380_1_V2
Description: US81 Existing Alignments

Horizontal Alignment Name: A006

Description: BNSF Railroad
Style: Existing 100

Element: Circular

	STATION	EASTING	NORTHING
PC (413)	100+00.00	1974637.4401	608049.3148
PI (415)	105+62.94	1974720.6841	608606.0692
CC ( )		1977470.8781	607625.6689
PT (417)	111+11.72	1975008.4033	609089.9315
Radius:	2864.93		
Delta:	22°14'00.00" Right		
Degree of Curvature(Arc):	1°59'59.64"		
Length:	1111.72		
Tangent:	562.94		
Chord:	1104.76		
Middle Ordinate:	53.76		
External:	54.78		
Tangent Direction:	N 8°30'13.22" E		
Radial Direction:	S 81°29'46.78" E		
Chord Direction:	N 19°37'13.22" E		
Radial Direction:	S 59°15'46.78" E		
Tangent Direction:	N 30°44'13.22" E		

Element: Linear

PT (417)	111+11.72	1975008.4033	609089.9315
PC (419)	116+48.25	1975282.6223	609551.0902
Tangent Direction:	N 30°44'13.22" E		
Tangent Length:	536.53		

Element: Circular

PC (419)	116+48.25	1975282.6223	609551.0902
PI (420)	119+79.31	1975451.8275	609835.6453
CC ( )		1972820.1476	611015.3527
PT (421)	123+07.45	1975551.6754	610151.2912
Radius:	2864.93		
Delta:	13°11'00.00" Left		

Degree of Curvature(Arc):	1°59'59.64"		
Length:	659.20		
Tangent:	331.06		
Chord:	657.75		
Middle Ordinate:	18.94		
External:	19.06		
Tangent Direction:	N 30°44'13.22" E		
Radial Direction:	S 59°15'46.78" E		
Chord Direction:	N 24°08'43.22" E		
Radial Direction:	S 72°26'46.78" E		
Tangent Direction:	N 17°33'13.22" E		

Element: Linear

PT (421)	123+07.45	1975551.6754	610151.2912
POE (422)	142+65.97	1976142.3619	612018.6081
Tangent Direction:	N 17°33'13.22" E		
Tangent Length:	1958.52		

Project Name: SWO_4380_1_V2
Description: US81 Existing Alignments

Horizontal Alignment Name: A007

Description: US 62
Style: Existing 100

Element: Linear

	STATION	EASTING	NORTHING
POB (451)	385+47.37	1977383.1249	629504.0692
PI (355)	405+43.89	1979087.9771	628465.0413
Tangent Direction:	S 58°38'22.71" E		
Tangent Length:	1996.52		

Element: Linear

PI (355)	405+43.89	1979087.9771	628465.0413
POE (454)	447+48.56	1982678.3889	626276.8528
Tangent Direction:	S 58°38'22.71" E		
Tangent Length:	4204.67		

Project Name: SWO_4380_1_V2
Description: US81 Existing Alignments

Horizontal Alignment Name: A008

Description: Old US Hwy 62
Style: Existing 100

Element: Linear

POB (455)	100+00.00	1978550.0910	630618.0045
POE (458)	124+00.00	1980896.1336	630111.9570
Tangent Direction:	S 77°49'39.53" E		
Tangent Length:	2400.00		

Project Name: SWO_4380_1_V2
Description: US81 Existing Alignments

Horizontal Alignment Name: A009

Description: Union Pacific Railroad
Style: Existing 100

Element: Linear

	STATION	EASTING	NORTHING
POB (459)	100+00.00	1978567.5918	630699.1385
POE (462)	124+00.00	1980913.6344	630193.0910
Tangent Direction:	S 77°49'39.53" E		
Tangent Length:	2400.00		

Project Name: SWO_4380_1_V2
Description: US81 Existing Alignments

Horizontal Alignment Name: A010

Description: CR 1405
Style: Existing 100

Element: Linear

	STATION	EASTING	NORTHING
POB (370)	100+00.00	1982591.7456	598763.6511
PI (463)	101+31.93	1982723.6760	598763.4050
Tangent Direction:	S 89°53'35.30" E		
Tangent Length:	131.03		

Element: Linear

PI (463)	101+31.93	1982723.6760	598763.4050
POE (371)	103+15.30	1982907.0488	598763.6609
Tangent Direction:	N 89°55'12.12" E		
Tangent Length:	183.37		

Project Name: SWO_4380_1_V2
Description: US81 Existing Alignments

Horizontal Alignment Name: A011

Description: CR1400
Style: Existing 100

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PLS	JTB	
DRAWN	JTB	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

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SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S8

Element: Linear
POB (398) 100+00.00 1981439.5820 601412.0549
PI (464) 112+81.65 1982721.2230 601415.5070
Tangent Direction: N 89°50'44.43" E
Tangent Length: 1281.65

Element: Linear
PI (464) 112+81.65 1982721.2230 601415.5070
POE (399) 115+87.04 1983026.6137 601416.6165
Tangent Direction: N 89°47'30.67" E
Tangent Length: 305.39

Project Name: SWO_4380_1_V2
Description: US81 Existing Alignments

Horizontal Alignment Name: A012

Description: 16thSt
Style: Existing 100

	STATION	EASTING	NORTHING

Element: Linear
POB (464) 100+00.00 1982721.2230 601415.5070
POE (465) 126+53.46 1982731.3420 604068.9490
Tangent Direction: N 0°13'06.60" E
Tangent Length: 2653.46

Project Name: SWO_4380_1_V2
Description: US81 Existing Alignments

Horizontal Alignment Name: A013

Description: Country Club Rd
Style: Existing 100

	STATION	EASTING	NORTHING

Element: Linear
POB (466) 100+00.00 1972152.1270 611997.4360
POE (467) 126+19.75 1974771.8420 612011.7490
Tangent Direction: N 89°41'13.07" E
Tangent Length: 2619.75

Project Name: SWO_4380_1_V2
Description: US81 Existing Alignments

Horizontal Alignment Name: A014

Description: Grand Ave
Style: Existing 100

	STATION	EASTING	NORTHING

Element: Linear
POB (433) 100+00.00 1970029.5777 617309.4145
PI (468) 121+24.83 1972154.4060 617312.2990
Tangent Direction: N 89°55'19.99" E
Tangent Length: 2124.83

Element: Linear
PI (468) 121+24.83 1972154.4060 617312.2990
POE (434) 130+53.40 1973082.9725 617310.3684
Tangent Direction: S 89°52'51.14" E
Tangent Length: 928.57

Project Name: SWO_4380_1_V2
Description: US81 Existing Alignments

Horizontal Alignment Name: A015

Description: Idaho Ave
Style: Existing 100

	STATION	EASTING	NORTHING

Element: Linear
POB (435) 100+00.00 1971053.5069 622589.7015
PI (469) 111+00.01 1972153.5150 622587.5440
Tangent Direction: S 89°53'15.44" E
Tangent Length: 1100.01

Element: Linear
PI (469) 111+00.01 1972153.5150 622587.5440
POE (436) 122+00.01 1973253.5119 622590.1401
Tangent Direction: N 89°51'53.20" E
Tangent Length: 1100.00

Project Name: SWO_4380_1_V2
Description: US81 Existing Alignments

Horizontal Alignment Name: A016

Description: Iowa Ave
Style: proposed 100

	STATION	EASTING	NORTHING

Element: Linear
POB (439) 100+00.00 1972401.2398 625238.7968
PC (440) 101+15.64 1972411.4002 625123.6043
Tangent Direction: S 5°02'26.40" E
Tangent Length: 115.64

Element: Circular
PC (440) 101+15.64 1972411.4002 625123.6043
PI (441) 102+46.58 1972422.9049 624993.1717
CC ( ) 1972747.1308 625153.2170
PT (442) 103+65.42 1972519.4484 624904.7162
Radius: 337.03
Delta: 42°27'45.65" Left
Degree of Curvature(Arc): 16°59'59.99"
Length: 249.78
Tangent: 130.94
Chord: 244.10
Middle Ordinate: 22.88
External: 24.54
Tangent Direction: S 5°02'26.40" E
Radial Direction: S 84°57'33.60" W
Chord Direction: S 26°16'19.22" E
Radial Direction: S 42°29'47.95" W
Tangent Direction: S 47°30'12.05" E

Element: Linear
PT (442) 103+65.42 1972519.4484 624904.7162
PI (341) 111+82.99 1973122.2599 624352.4060
Tangent Direction: S 47°30'12.05" E
Tangent Length: 817.57

Element: Linear
PI (341) 111+82.99 1973122.2599 624352.4060
PC (443) 116+27.03 1973449.6530 624052.4406
Tangent Direction: S 47°30'12.02" E
Tangent Length: 444.03

Element: Circular
PC (443) 116+27.03 1973449.6530 624052.4406
PI (444) 118+30.03 1973599.3274 623915.3053
CC ( ) 1973801.5258 624436.4873
PT (445) 120+14.16 1973802.5261 623915.6172
Radius: 520.87
Delta: 42°35'04.90" Left
Degree of Curvature(Arc): 11°00'00.00"
Length: 387.13
Tangent: 203.00
Chord: 378.28
Middle Ordinate: 35.55
External: 38.16
Tangent Direction: S 47°30'12.02" E
Radial Direction: S 42°29'47.98" W
Chord Direction: S 68°47'44.47" E
Radial Direction: S 0°05'16.92" E
Tangent Direction: N 89°54'43.08" E

Element: Linear
PT (445) 120+14.16 1973802.5261 623915.6172
POE (446) 129+71.43 1974759.5890 623917.0880

Tangent Direction: N 89°54'43.08" E
Tangent Length: 957.26

Project Name: SWO_4380_1_V2
Description: US81 Existing Alignments

Horizontal Alignment Name: A017

Description: CR 1355
Style: Default

	STATION	EASTING	NORTHING

Element: Linear
POB (437) 100+00.00 1972102.8245 625238.6000
PI (470) 100+47.28 1972150.1025 625238.6185
Tangent Direction: N 89°58'39.45" E
Tangent Length: 47.28

Element: Linear
PI (470) 100+47.28 1972150.1025 625238.6185
POE (438) 105+98.10 1972700.9205 625239.0095
Tangent Direction: N 89°57'33.60" E
Tangent Length: 550.82

Project Name: SWO_4380_1_V2
Description: US81 Existing Alignments

Horizontal Alignment Name: A018

Description: CS 2815 Rd.
Style: Existing 100

	STATION	EASTING	NORTHING

Element: Linear
POB (447) 100+00.00 1974761.0641 623620.2837
PI (471) 116+20.20 1974753.0120 625240.4660
Tangent Direction: N 0°17'05.10" W
Tangent Length: 1620.20

Element: Linear
PI (471) 116+20.20 1974753.0120 625240.4660
POE (448) 127+55.13 1974747.3442 626375.3838
Tangent Direction: N 0°17'10.07" W
Tangent Length: 1134.93

Project Name: SWO_4380_1_V2

Description: US81 Existing Alignments

Horizontal Alignment Name: A019

Description: 29thSt
Style: Existing 100

	STATION	EASTING	NORTHING

Element: Linear
POB (449) 100+00.00 1977388.4353 625492.1445
POE (450) 113+99.84 1977382.5628 626891.9712
Tangent Direction: N 0°14'25.31" W
Tangent Length: 1399.84

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PLS	JTB	
DRAWN	JTB	
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CREW	BENHAM	

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SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S9

COORDINATE POINT LIST

SWO 4380(1) J/P 24428(04)

PT NO.	EASTING	NORTHING
Benchmarks		
1	1978841.1480	605699.6310
	(ADS BM #1)	Elev.=1249.875
2	1978218.0860	606288.1870
	(ADS BM #2)	Elev.= 1230.502
3	1977757.4090	606842.7990
	(ADS BM #3)	Elev.= 1192.676
4	1977183.0180	607419.8540
	(ADS BM #4)	Elev.= 1216.539
5	1976661.0070	607967.3760
	(ADS BM #5)	Elev.= 1227.592
6	1976078.9750	608496.4700
	(ADS BM #6)	Elev.= 1220.147
7	1975565.3010	609084.4550
	(ADS BM #7)	Elev.= 1215.394
8	1974825.0230	608973.8620
	(ADS BM #8)	Elev.= 1231.759
9	1974807.0600	610461.3240
	(ADS BM #9)	Elev.= 1238.809
10	1974204.2510	611069.8640
	(ADS BM #10)	Elev.= 1235.990
11	1982716.9260	600843.5790
	(ADS BM #11)	Elev.= 1183.356
12	1982193.9250	601441.3300
	(ADS BM #12)	Elev.= 1191.811
13	1981658.9650	602191.9150
	(ADS BM #13)	Elev.= 1173.321
14	1973628.5160	611660.2010
	(ADS BM #14)	Elev.= 1220.248
15	1971635.6870	611990.4310
	(ADS BM #15)	Elev.= 1147.737
16	1972730.2480	612135.3450
	(ADS BM #16)	Elev.= 1176.360
17	1972746.8400	612790.0870
	(ADS BM #17)	Elev.= 1175.535
18	1972456.9750	613496.7430
	(ADS BM #18)	Elev.= 1149.767
19	1972262.6480	614239.5260
	(ADS BM #19)	Elev.= 1138.639
20	1972118.1330	614995.4590
	(ADS BM #20)	Elev.= 1135.884
21	1972099.3890	615774.2160
	(ADS BM #21)	Elev.= 1143.252
22	1973384.5140	617306.6460
	(ADS BM #22)	Elev.= 1132.463
23	1972192.5920	616536.1870
	(ADS BM #23)	Elev.= 1132.099
24	1972213.9530	617349.2790
	(ADS BM #24)	Elev.= 1132.659
25	1972251.2150	618111.7170
	(ADS BM #25)	Elev.= 1130.790
26	1972275.2520	618895.2520
	(ADS BM #26)	Elev.= 1140.167
27	1972428.6430	619096.9680
	(ADS BM #27)	Elev.= 1136.503
28	1972425.1570	619652.2330
	(ADS BM #28)	Elev.= 1147.990
29	1972388.1950	620455.3600
	(ADS BM #29)	Elev.= 1165.094
30	1972437.4420	621224.4710
	(ADS BM #30)	Elev.= 1174.629
31	1972437.1030	622004.1350
	(ADS BM #31)	Elev.= 1172.374
32	1974154.9710	622550.0650
	(ADS BM #32)	Elev.= 1176.658
33	1972481.4690	622709.1440
	(ADS BM #33)	Elev.= 1177.052
34	1972770.4470	623405.1760
	(ADS BM #34)	Elev.= 1174.280
35	1973202.0670	623931.5060
	(ADS BM #35)	Elev.= 1169.992
36	1973701.0720	624525.6350
	(ADS BM #36)	Elev.= 1162.428
37	1974344.1450	624945.9720
	(ADS BM #37)	Elev.= 1158.537
39	1975134.7890	625310.7540
	(ADS BM #39)	Elev.= 1162.218
40	1975870.2120	625466.1970
	(ADS BM #40)	Elev.= 1139.756
41	1976285.5930	626156.6140
	(ADS BM #41)	Elev.= 1108.412
42	1977282.3320	625847.0560
	(ADS BM #42)	Elev.= 1101.558
43	1978078.9390	626338.0440
	(ADS BM #43)	Elev.= 1098.982
44	1978684.6660	626957.2040
	(ADS BM #44)	Elev.= 1098.804
45	1979064.8430	627665.4310
	(ADS BM #45)	Elev.= 1093.716
47	1979412.9510	628178.1720
	(ADS BM #47)	Elev.= 1100.454
48	1979574.3110	629137.8170
	(ADS BM #48)	Elev.= 1099.580
49	1979784.3430	629889.9550
	(ADS BM #49)	Elev.= 1095.866
50	1979976.3100	630700.7280
	(ADS BM #50)	Elev.= 1092.878

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SWO 4380(1) J/P 24428(04)

PT NO.	EASTING	NORTHING
51	1980107.6360	631461.5060
	(ADS BM #51)	Elev.= 1093.457
52	1980183.0320	632266.7050
	(ADS BM #52)	Elev.= 1093.257
53	1980234.8240	633073.1720
	(ADS BM #53)	Elev.= 1093.105
54	1980254.9160	633823.3880
	(ADS BM #54)	Elev.= 1095.190
55	1980169.3000	628661.8070
	(ADS BM #55)	Elev.= 1094.837
56	1980578.4370	627882.9710
	(ADS BM #56)	Elev.= 1099.674
57	1981009.4350	627027.9370
	(ADS BM #57)	Elev.= 1095.914
58	1981635.7080	626420.1070
	(ADS BM #58)	Elev.= 1098.971
59	1982271.678	626193.4960
	(ADS BM #59)	Elev.= 1109.351
60	1978294.7840	628662.1560
	(ADS BM #60)	Elev.= 1100.249
61	1977886.3850	629526.8930
	(ADS BM #61)	Elev.= 1100.041
62	1976968.7150	629469.4640
	(ADS BM #62)	Elev.= 1101.307
63	1976306.7050	629896.9480
	(ADS BM #63)	Elev.= 1100.413
64	1975861.7200	630667.0870
	(ADS BM #64)	Elev.= 1101.952
65	1975247.5890	631261.3150
	(ADS BM #65)	Elev.= 1100.017
66	1974445.1560	631403.2850
	(ADS BM #66)	Elev.= 1101.242
67	1973712.3230	631708.4000
	(ADS BM #67)	Elev.= 1101.569
68	1971445.0770	622806.5060
	(ADS BM #68)	Elev.= 1187.035
69	1972745.2320	625040.2230
	(ADS BM #69)	Elev.= 1164.725
70	1973860.7150	624134.8490
	(ADS BM #70)	Elev.= 1160.787
71	1974590.2550	624135.4590
	(ADS BM #71)	Elev.= 1154.605
72	1980421.5360	630064.2250
	(ADS BM #72)	Elev.= 1092.784
73	1978850.2010	630381.1390
	(ADS BM #73)	Elev.= 1099.947
74	1972854.0350	631577.3890
	(ADS BM #74)	Elev.= 1102.707
75	1972111.6950	631702.9640
	(ADS BM #75)	Elev.= 1104.405
76	1979893.3290	606400.9110
	(ADS BM #76)	Elev.= 1245.169
77	1980463.1810	606985.8320
	(ADS BM #77)	Elev.= 1227.466
78	1980932.5840	607545.2410
	(ADS BM #78)	Elev.= 1214.739
79	1981433.7120	608180.7580
	(ADS BM #75)	Elev.= 1206.275
80	1981956.0260	608775.4940
	(ADS BM #80)	Elev.= 1197.701
81	1982471.9980	609367.1330
	(ADS BM #81)	Elev.= 1193.642
82	1977512.7310	603967.7060
	(ADS BM #82)	Elev.= 1244.102
83	1976879.2060	603503.3060
	(ADS BM #83)	Elev.= 1234.238
84	1976290.2350	602964.5200
	(ADS BM #84)	Elev.= 1255.501
85	1975760.1550	602415.2950
	(ADS BM #85)	Elev.= 1277.055
86	1983333.4360	600150.9120
	(ADS BM #86)	Elev.= 1196.021
87	1983913.4650	600799.2070
	(ADS BM #87)	Elev.= 1182.701
88	1984410.2850	601262.7180
	(ADS BM #88)	Elev.= 1179.523
89	1984594.8020	601811.1580
	(ADS BM #89)	Elev.= 1180.333
90	1975596.5060	610387.6980
	(ADS BM #90)	Elev.= 1223.403
91	1971203.6930	617524.4430
	(ADS BM #91)	Elev.= 1150.322
92	1970441.0940	617097.3300
	(ADS BM #92)	Elev.= 1183.564
99	1981331.6670	608023.6740
	(ADS BM #99)	Elev.= 1206.350
207	1982694.3780	595847.9470
	(ODOT BM #7)	Elev.=1182.382
208	1982685.2120	596138.1950
	(ODOT BM #8)	Elev.=1185.019
209	1982851.5600	597666.6100
	(ODOT BM #9)	Elev.=1193.770
210	1982686.2110	598255.8020
	(ODOT BM #10)	Elev.=1196.144
211	1982682.9370	598795.0300
	(ODOT BM #11)	Elev.=1200.651

COORDINATE POINT LIST

SWO 4380(1) J/P 24428(04)

PT NO.	EASTING	NORTHING
212	1982636.1500	599729.5560
	(ODOT BM #12)	Elev.=1203.978
213	1982564.9500	600130.2130
	(ODOT BM #13)	Elev.=1197.379
215	1981679.1000	602601.4050
	(ODOT BM #15)	Elev.=1186.551
216	1981051.4160	602509.8200
	(ODOT BM #16)	Elev.=1190.800
217	1980086.6950	603656.2010
	(ODOT BM #17)	Elev.=1237.332
218	1978770.7790	604048.1160
	(ODOT BM #18)	Elev.=1249.759
219	1978137.7440	604511.3410
	(ODOT BM #19)	Elev.=1252.530
220	1978777.8360	605299.4730
	(ODOT BM #20)	Elev.=1254.773
224	1974440.3040	611460.6790
	(ODOT BM #24)	Elev.=1228.750
225	1974700.5050	611966.5420
	(ODOT BM #25)	Elev.=1215.642
226	1974773.2270	613349.3770
	(ODOT BM #26)	Elev.=1201.620
227	1975305.2680	614687.6410
	(ODOT BM #27)	Elev.=1190.096
228	1974935.4320	616148.8610
	(ODOT BM #28)	Elev.=1177.127
230	1975434.9870	619297.1650
	(ODOT BM #30)	Elev.=1147.591
232	1974739.2790	622569.6650
	(ODOT BM #32)	Elev.=1160.591
233	1974729.2520	625209.2460
	(ODOT BM #33)	Elev.=1160.779
234	1976077.7960	625241.2960
	(ODOT BM #34)	Elev.=1142.453
235	1977363.7580	625364.5710
	(ODOT BM #35)	Elev.=1105.834
237	1979079.3070	628476.7410
	(ODOT BM #37)	Elev.=1103.300
Centerline		
300	1982754.9150	596110.5945
301	1982751.7460	596763.4442
302	1982750.4840	599619.8646
303	1982745.0414	600062.7899
304	1982744.8079	600068.0842
305	1982722.1790	600381.8757
306	1982717.7617	600424.5318
307	1982521.9846	601414.9704
308	1982748.5778	601415.6064
309	1982747.6623	602181.9456
310	1982724.2356	602205.4728
311	1981080.9973	603855.7622
312	1980872.2330	604065.4223
313	1980087.2029	604853.8210
314	1979150.7670	605794.2751
315	1979148.1169	605796.9365
316	1978230.2833	606718.7086
317	1977420.3831	607532.0840
318	1975593.1950	609367.1125
319	1975330.2498	609631.1860
320	1975329.1362	609632.3044
321	1975264.6910	609697.0261
322	1975262.6271	609699.0989
323	1974773.9107	610189.9123
324	1973597.9198	611370.9495
325	1973054.6458	612002.3670
326	1972969.6624	612001.9027
327	1972152.4808	612822.5907
328	1971856.8057	613119.5346
329	1972152.9109	613825.6164
330	1971978.8697	614655.0982
331	1971903.0132	614655.1986
332	1971931.0210	615586.0139
333	1971982.9572	617312.0663
334	1972062.3300	619949.9492
335	1972120.6116	621886.8868
336	1972153.5660	622285.5724
337	1972206.9885	622587.6702
338	1972141.6948	622587.5672
339	1972153.0301	622964.2851
340	1972208.0949	624794.3170
341	1973122.2599	624352.4060
342	1974337.9528	625240.1714
343	1974036.5443	625239.9575
344	1974752.2013	625402.8053
345	1974752.1435	625414.3675
346	1975034.1157	625483.0915
347	1976493.1401	625838.6935
348	1977385.4833	626195.8093
349	1977386.0685	626056.3233
350	1978118.7183	626234.8890
351	1980014.5850	626696.9609
352	1978798.2980	627763.8264
353	1978850.1258	627881.8634
354	1978850.7601	627881.8618
355	1979087.9771	628465.0413
356	1979105.2823	628454.4946
357	1980017.7120	627878.8419

COORDINATE POINT LIST

SWO 4380(1) J/P 24428(04)

PT NO.	EASTING	NORTHING
358	1980017.7637	627898.3797
359	1979669.7445	630376.4923
360	1979688.0803	630457.4462
361	1979702.6513	630523.4041
362	1979934.2107	630319.4463
363	1979968.6490	630396.9268
364	1980024.1180	630300.0531
365	1980024.3425	630384.9136
366	1980024.7080	630523.0503
367	1980026.7774	633166.9785
368	1980032.6969	633542.5435
369	1980033.4440	633824.9174
370	1982591.7456	598763.6511
371	1982907.0488	598763.6609
372	1982783.9067	598628.8989
373	1982783.7459	598763.4888
374	1982786.9093	598763.4933
375	1982782.4140	599878.4680
376	1983997.2355	600729.6592
377	1984441.0685	601421.7550
378	1984997.2710	601939.2709
379	1985333.8969	602252.4828
380	1985362.4569	602251.5368
381	1985362.4924	602271.5970
382	1985716.1640	602508.0030
383	1982719.7460	598763.4060
384	1982718.7328	599611.6990
385	1982722.6660	599855.5818
386	1982718.4138	599878.6383
387	1982722.6166	599908.8043
388	1982736.8467	600010.9418
389	1982809.3905	600531.6306
390	1982717.5752	600580.6260
391	1982721.9925	600583.5787
392	1983201.5446	600881.7658
393	1983301.1883	600970.7327
394	1983523.1142	601119.0755
395	1983973.3913	601420.0560
396	1985362.6287	602348.6693
397	1986730.0384	603262.6923
398	1981439.5820	601412.0549
399	1983026.6137	601416.6165
400	1974322.9807	601411.6615
401	1974774.2269	601809.4909
402	1977353.9701	604083.8544
403	1977407.5463	604131.0884
404	1977834.8922	604507.8469
405	1978636.1803	605261.1887
406	1978661.1403	605236.2869
407	1979387.6506	606064.2323
408	1979962.9130	606719.8125
409	1980097.6628	606873.3760
410	1982265.7510	609344.1717
411	1982292.0111	609374.2247
412	1982292.1221	609374.2247
413	1974637.4401	608049.3148
414	1974775.7192	608597.2477
415	1974720.6840	608606.0691
416	1974775.6043	608698.4295
417	1975008.4033	609089.9315
418	1975172.7219	609366.2688
419	1975282.6223	609551.0902
420	1975451.8275	609835.6453
421	1975551.6754	610151.2912
422	1976142.3619	612018.6081
423	1974551.0482	608080.1439
424	1974634.2886	608636.8678
425	1974775.4435	608849.0116
426	1974775.4047	608874.1853
427	1974921.9921	609120.7037
428	1975067.8875	609366.0584
429	1975199.9584	609588.1642
430	1975369.1550	609872.7050
431	1975468.9980	610188.3351
432	1976047.8167	612018.1349
433	1970029.5777	617309.4145
434	1973082.9725	617310.3684
435	1971053.5069	622589.7015
436	1973253.5119	622590.1401
437	1972102.8245	625238.6000
438	1972709.9205	625239.0095
439	1972401.2398	625238.7968
440	1972411.4002	625123.6043
441	1972422.9049	624993.1717
442	1972519.4484	624904.7162
443	1973449.6530	624052.4406
444	1973599.3274	623915.3053
445	1973802.3261	623915.6172
446	1974759.5890	623917.0880
447	1974761.0641	623620.2837
448	1974747.3442	626375.3838
449	1977388.4353	625492.1445
450	1977382.5628	626891.9712
451	1977383.1249	629504.0692
452	1980037.3858	627886.4210
453	1980049.9574	627878.7592
454	1982678.3889	626276.8526
455	1978550.0910	630618.0045

COORDINATE POINT LIST

SWO 4380(1) J/P 24428(04)

PT NO.	EASTING	NORTHING
456	1978985.0048	630524.1925
457	1980034.7909	630297.7509
458	1980896.1336	630111.9570
459	1978567.5918	630699.1385
460	1979380.6589	630523.7578
461	1980034.6995	630382.6796
462	1980913.6344	630193.0910
463	1982723.6760	598763.4050
464	1982721.2230	601415.5070
465	1982731.3420	604068.9490
466	1972152.1270	611997.4360
467	1974771.8420	612011.7490
468	1972154.4060	617312.2990
469	1972153.5150	622587.5440
470	1972150.1025	625238.6185
471	1974753.0120	625240.4660
Aerial Targets		
7001	1982241.0120	595908.1250
7002	1982823.3150	595785.5150
7003	1983526.8240	596095.8410
7004	1982828.0310	597344.5350
7005	1982275.5240	598741.2470
7006	1982877.3930	598776.9980
7007	1981924.6130	600916.3920
7008	1982965.7680	600681.5310
7009	1983476.4310	600428.0520
7010	1981090.3440	601400.5740
7011	1981567.5230	602137.1870
7012	1982749.0930	602924.7860
7013	1983280.4410	601416.8260
7014	1984138.4840	601589.9120
7015	1984803.2050	602628.1870
7016	1985206.9640	602316.1090
7017	1985575.4640	601418.7260
7018	1981320.6180	603548.5690
7019	1980000.1160	604335.7560
7020	1980665.6230	604997.0320
7021	1975107.3680	602709.0420
7022	1975475.6260	602318.7740
7023	1975778.5820	602163.5620
7024	1976621.7760	603350.4120
7025	1977521.9280	604690.5050
7026	1977987.1940	604202.1140
7027	1979098.4890	605621.0380
7028	1979747.2520	607052.1840
7029	1980153.9500	606653.4630
7030	1981252.4380	608085.8200
7031	1982097.6850	609815.7120
7032	1982500.6730	609497.1590
7033	1982706.6880	609206.3880
7034	1977830.1110	606504.3240
7035	1978494.4150	607187.1340
7036	1976908.5720	608034.0480
7037	1975469.5450	608596.2060
7038	1976202.1200	609861.2810
7039	1974699.6960	610350.2890
7040	1973346.8770	611147.1510
7041	1973672.8570	612002.4290
7042	1974768.3200	612573.0530
7043	1975006.8010	611557.7230
7044	1971698.6990	612662.3570
7045	1971956.6120	612008.1570
7046	1972145.7060	611299.8360
7047	1973076.0220	612851.1770
7048	1972020.7740	614311.9470
7049	1971329.5390	615430.2330
7050	1972632.5950	615544.8940
7051	1971819.9410	617300.2790
7052	1970129.0450	618016.0360
7053	1969792.4220	617325.5530
7054	1969796.8380	616901.6320
7055	1973507.7780	617891.6760
7056	1973193.8390	617335.6430
7057	1972864.2970	616659.2420
7058	1971590.1660	618185.4140
7059	1972667.8540	618924.8400
7060	1971252.3050	619888.8060
7061	1972233.2150	620572.5600
7062	1970497.4780	622134.5550
7063	1970869.4490	623320.9920
7064	1971342.3850	622594.2790
7065	1972163.1590	622189.4310
7066	1972924.3870	621922.4270
7067	1972918.5760	622608.1980
7068	1974399.2950	622610.1300
7069	1972052.4900	625343.5260
7070	1973203.6640	623924.2760
7071	1975281.1660	623938.7300
7072	1974061.3790	625353.7350
7073	1972100.2190	627873.3180
7074	1973344.7330	627059.2290
7075	1974566.8140	626244.3110
7076	1975803.1960	625320.7870
7077	1977367.7050	624512.7320
7078	1978300.2820	623905.3490
7079	1980293.9370	622593.8380
7080	1972167.0450	629538.6340

COORDINATE POINT LIST

SWO 4380(1) J/P 24428(04)

PT NO.	EASTING	NORTHING
7081	1973478.9270	628736.5070
7082	1974819.4420	627910.1880
7083	1976085.3540	627097.5130
7084	1977355.9720	626351.6300
7085	1979485.9460	625082.7940
7086	1980729.1010	624305.1280
7087	1972177.8070	631642.6820
7088	1974402.0770	630241.8400
7089	1976847.3330	628818.6380
7090	1978331.9350	627901.0310
7091	1980033.4450	626828.3360
7092	1981290.2250	626042.7550
7093	1982250.5660	625485.0520
7094	1972047.2820	632207.2960
7095	1974030.8420	631568.7820
7096	1975588.8120	631261.9180
7097	1977375.0950	630560.4850
7098	1979367.9960	629350.6560
7099	1980547.9690	628907.9680
7100	1981839.4030	627823.5030
7101	1983357.3330	626780.2060
7102	1978780.1620	631769.5990
7103	1978933.4060	630552.6320
7104	1980216.5650	630178.8790
7105	1981585.7150	629951.1100
7106	1980073.7490	631837.3600
7107	1979998.5850	632922.9580
7108	1979381.7330	635326.0180
7109	1980046.1320	634205.8230
7110	1980865.9320	635121.4890
Control Points by Others		
7300	2002283.7500	606745.7000
	("UNION" PID: FJ1044)	Elev.=1173.554
7301	1972127.2000	601396.1300
	("1 TF" PID: EL1033)	Elev.=1260.050
7302	1995750.8100	633009.7000
	("CHICK" PID: FJ1049)	Elev.=1195.726
7303	1982945.0550	576441.9860
	("D 214" PID: EL0893)	Elev.=1212.200
7304	1980005.6800	653006.9500
	("POCASSET"PID:FJ0789)	Elev.=1186.340
7305	2014559.8870	606712.9650
	("K 41 1953" PID:FJ0528)	Elev.=1061.090
Control Points by Crew		
7400	1976814.1860	601376.3200
	(ODOT Mon. G-26-865)	Elev.=1282.936
7401	1975760.6380	611988.9370
	(ODOT Mon. G-26-866)	Elev.=1203.038
7402	1970825.7430	622610.6510
	(ODOT Mon. G-26-867)	Elev.=1192.622
	(Obliterated)	
7403	1977426.7540	631081.5300
	(ODOT Mon. G-26-868)	Elev.=1100.522
7410	1982694.3780	595847.9470
	(ODOT Mon. G-26-1032)	Elev.=1182.382
7411	1982686.2110	598255.8020
	(ODOT Mon. G-26-1033)	Elev.=1196.144
7412	1974825.0230	608973.8620
	(ODOT Mon. G-26-1034)	Elev.=1231.759
7413	1971835.6870	611990.4310
	(ODOT Mon. G-26-1035)	Elev.=1147.737
7414	1972428.6430	619096.9680
	(ODOT Mon. G-26-1036)	Elev.=1136.503
7415	1974154.9710	622550.0650
	(ODOT Mon. G-26-1037)	Elev.=1176.658
7416	1981331.6670	608023.6740
	(ODOT Mon. G-26-1038)	Elev.=1206.349
7417	1979412.9510	628178.1720
	(ODOT Mon. G-26-1039)	Elev.=1100.453
7418	1955406.8950	622392.0180
	(CP115-ADS CTRL)	Elev=1229.279
Existing Right-of-Way		
7600	1980082.2582	596097.1440
7601	1982655.0345	596010.4751
7602	1982855.0344	596010.7140
7603	1985367.0200	596097.6950
7604	1980082.1940	596130.1441
7605	1982654.9346	596094.1383
7606	1982854.9346	596094.2323
7607	1982654.8954	596127.1384
7608	1982854.8952	596127.2323
7609	1985367.0276	596130.6950
7610	1982591.7456	598763.6511
7611	1982651.7458	598763.5392
7612	1982851.7459	598763.5837
7613	1982907.0488	598763.6609
7614	1982591.1204	599287.0027
7615	1982995.4271	599409.6464
7616	1983014.6203	599404.0234
7617	1982519.3211	600174.3293
7618	1982546.9622	600178.7981
7619	1982248.4800	601289.2332
7620	1981394.6588	601286.9335
7621	1975123.0870	601409.0523

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

PLS	JTB	
DRAWN	JTB	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SDS 10 OF 76

SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S10

COORDINATE POINT LIST

SWO 4380(1) J/P 24428(04)

PT NO.	EASTING	NORTHING	PT NO.	EASTING	NORTHING
7622	1975123.1415	601425.5522	7671	1977407.5625	603864.4748
7623	1975123.2525	601459.0520	7672	1977407.5207	603897.7665
7624	1977394.1282	601418.0348	7673	1977424.0443	603879.0055
7625	1977427.1283	601418.0227	7674	1977392.4385	604384.3970
7626	1980067.7933	601391.8600	7675	1977425.5998	604413.6327
7627	1980067.8557	601424.8603	7676	1977702.6294	604657.8687
7628	1981394.5384	601395.4336	7677	1977834.8952	604507.8494
7629	1981394.4940	601411.9335	7678	1977967.1551	604357.8251
7630	1981394.5708	601428.4338	7679	1978598.3906	604942.7259
7631	1981395.0761	601536.9321	7680	1978661.1403	605236.2869
7632	1981750.0748	601537.8883	7681	1978426.4004	605334.4783
7633	1984570.6434	601405.7256	7682	1979218.2206	605541.1135
7634	1985361.0400	601408.5971	7683	1979199.9154	605558.1405
7635	1984606.2495	601438.8552	7684	1979388.8547	605727.2448
7636	1985361.0242	601441.5972	7685	1979109.4975	606052.1296
7637	1985065.3897	601866.0600	7686	1979387.6481	606064.2294
7638	1985362.2304	602123.5226	7687	1979556.7719	605915.8308
7639	1981865.9992	601651.7825	7688	1979823.7192	605992.1253
7639a	1981868.0675	601885.9119	7689	1979604.9279	606008.6143
7640	1981620.0739	602739.6886	7690	1974777.8646	606698.9560
7640a	1981746.8205	602459.7544	7691	1974777.8373	606731.9560
7641	1981862.6842	602740.2456	7692	1977405.1772	606701.6762
7641a	1982405.6766	602232.3974	7693	1977405.2402	606734.6763
7642	1982673.0909	601905.4178	7694	1977438.1779	606701.7038
7642a	1982519.5262	602119.8596	7695	1977438.2402	606734.7039
7643	1982673.7385	602075.1165	7696	1979108.6348	606702.7682
7644	1982693.7384	602075.1624	7697	1979108.6132	606719.2682
7645	1982131.2046	602424.1783	7698	1979763.2404	606719.6853
7646	1983765.3543	600656.4483	7699	1979777.7270	606736.1945
7649	1982696.2820	602742.1598	7700	1980214.6565	606703.4729
7650	1982701.3416	604068.8021	7701	1980229.1432	606719.9822
7652a	1977400.1082	629669.3810	7702	1980758.6128	606720.3195
7653	1982747.8423	604069.0032	7703	1980758.4455	606736.8194
7653a	1977399.0830	629318.6812	7704	1982712.2342	606705.0643
7654	1982723.7389	602075.2313	7705	1982712.3024	606721.5644
7655	1982740.2388	602075.1684	7707	1982725.6907	606738.0729
7656	1982773.7385	602075.0406	7708	1980752.5662	607316.4853
7658	1982875.1470	601756.3120	7709	1981450.8711	608112.2872
7660	1983157.5252	601609.9464	7710	1981413.2886	608145.2653
7661	1984651.8843	602066.0368	7711	1982378.4985	609245.2374
7662	1985362.9695	602541.3502	7713	1982489.7849	609374.3319
7663	1974773.7854	601609.1308	7714	1982153.0036	609443.1060
7664	1974774.6684	602009.8511	7716	1982248.3609	609553.4933
7665	1976091.7409	603171.0138	7717	1982707.8446	609374.4502
7666	1976091.8675	603405.7976	7718	1973726.7125	605763.2524
7667	1976282.7193	603406.0419	7719	1973667.9156	605844.1407
7668	1976812.7454	603406.7268	7720	1973620.8781	605908.8514
7669	1976850.6052	603406.7764	7721	1974370.7625	607144.8492
7670	1977391.0389	603883.2357	7722	1974449.8830	607133.0194

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PT NO.	EASTING	NORTHING	PT NO.	EASTING	NORTHING
7723	1974548.7836	607118.2321	7772	1970574.4069	617777.5532
7724	1974689.5096	608059.4392	7773	1970624.4069	617777.6221
7725	1974590.6090	608074.2265	7774	1970624.4382	617360.2221
7726	1974511.4885	608086.0563	7775	1970833.1380	617360.5054
7727	1975042.3265	609049.1520	7776	1970833.1405	617327.0054
7728	1974956.3742	609100.2618	7778	1972137.9032	617328.7766
7729	1974887.6124	609141.1497	7779	1972170.9032	617328.7647
7730	1975320.2915	609516.6104	7780	1974771.7874	617323.3571
7731	1975234.3393	609567.7203	7781	1972137.4605	619949.9265
7732	1975165.5775	609608.6081	7782	1972170.4605	619949.8946
7733	1975602.4788	610146.1112	7783	1969511.9765	622576.2250
7734	1975507.1353	610176.2711	7784	1972137.0178	622571.0763
7735	1975430.8806	610200.3991	7785	1972170.0178	622571.0829
7736	1977400.7540	609370.7399	7786	1974766.1836	622577.2100
7737	1977433.7540	609370.7870	7787	1969511.9657	622609.2251
7738	1972135.0600	609360.2095	7788	1972136.9937	622604.0764
7739	1972168.0600	609360.2025	7789	1972169.9937	622604.0829
7740	1969512.4938	611993.7083	7790	1974766.0840	622610.2099
7741	1969512.4860	612026.7087	7791	1972133.6025	625238.6121
7742	1972135.6235	611981.0157	7792	1972166.6025	625238.6302
7743	1972135.6341	612014.0160	7793	1969508.4251	627865.9449
7744	1972168.6235	611981.0259	7794	1972130.2113	627873.1477
7745	1972168.6341	612014.0264	7795	1972163.2113	627873.1800
7746	1974438.9295	611993.4299	7796	1974739.7790	627871.1520
7747	1974438.9713	611985.0828	7797	1976059.1688	627870.1619
7748	1974647.6687	611986.1272	7798	1976059.2079	627861.6619
7749	1974697.6681	611986.3775	7799	1977353.4986	627860.6907
7750	1974771.8428	612028.2493	7800	1977364.4867	625241.4657
7751	1974771.8437	612044.7494	7801	1977405.9867	625241.5445
7752	1975997.8757	611992.8847	7802	1977394.9635	627869.1291
7753	1976065.7966	612017.9246	7803	1977394.9422	627902.1292
7754	1976089.8368	612018.3452	7804	1977513.1467	625241.1701
7755	1976016.2521	612050.9774	7805	1977841.1457	625240.3606
7756	1976194.8870	612018.8710	7806	1977959.0787	626244.3199
7757	1976860.9212	614721.2007	7807	1978084.2626	626516.0727
7758	1976932.5377	614682.3468	7808	1978582.2263	626907.4644
7759	1977027.8812	614652.1868	7809	1978784.9000	627293.2282
7760	1972136.7665	614654.8893	7810	1978949.5913	627551.6034
7761	1972169.7665	614654.8980	7811	1979201.0963	627880.9552
7762	1969511.8832	617258.7117	7812	1978433.3455	627345.8324
7763	1972137.8845	617262.2765	7814	1978493.3692	627501.4314
7764	1972170.8889	617295.7647	7815	1978560.0330	627866.1141
7765	1974771.8061	617290.3570	7816	1978560.3989	627882.6132
7766	1969511.8784	617358.7118	7817	1978561.3773	627899.1107
7767	1970107.0386	617359.5183	7818	1979188.5216	627864.4877
7768	1970107.0073	617776.9183	7819	1979760.5002	627879.5076
7769	1970157.0110	617776.9876	7820	1979787.6891	627862.9371
7770	1970157.0423	617359.5876	7821	1979997.4512	627735.0970
7771	1970574.4382	617360.1532	7822	1979998.4431	625235.0367

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PT NO.	EASTING	NORTHING	PT NO.	EASTING	NORTHING
7823	1980038.4430	625234.9380	7872	1981661.3088	629143.1796
7824	1980037.4607	627710.7130	7873	1980241.6040	629141.7299
7825	1982421.7373	626257.6077	7874	1980240.5068	630161.3075
7826	1982078.1015	626257.9435	7875	1980190.4952	630172.0951
7827	1982094.1334	626207.9278	7876	1981661.7618	627924.6797
7828	1982228.1334	626207.7969	7877	1980641.7651	627927.2614
7829	1982228.2451	626032.7970	7878	1980242.4542	628351.7415
7830	1982288.2452	626032.7383	7879	1980241.7116	629041.7300
7831	1982288.1334	626207.7382	7880	1981661.4109	629043.1797
7832	1982407.6791	626207.6214	7881	1982627.6752	628853.8348
7833	1982638.2228	626067.1157	7882	1982200.9614	629474.7264
7834	1982638.2450	626032.3962	7883	1981802.7007	629754.0603
7835	1982678.2766	626452.5835	7884	1981300.3821	629973.6096
7836	1981861.0755	626950.6295	7885	1981291.9479	629934.5089
7837	1981804.8385	627002.4696	7886	1980190.4919	630175.1649
7838	1980417.2330	627848.1504	7887	1980034.8867	630208.7293
7839	1980448.4581	627899.3851	7888	1980034.9010	630195.4272
7840	1980192.7732	628055.2131	7889	1978632.0257	630498.0311
7841	1980153.7449	627991.1678	7890	1978643.2009	630549.8395
7842	1979536.6234	628367.2746	7891	1977403.4349	630817.2603
7843	1979577.7642	628642.9492	7892	1977386.9449	630820.8172
7844	1979540.7539	628893.7160	7893	1982678.1977	629761.3396
7845	1979529.2522	629012.4891	7894	1977387.1760	630902.6073
7846	1979585.3834	629392.4060	7895	1982678.1476	629863.6309
7847	1979832.7571	630239.0302	7896	1977387.4648	631004.8449
7848	1979461.3004	630319.1544	7897	1982661.6490	629867.1897
7849	1979292.6424	629670.8935	7898	1982661.9040	630520.1414
7850	1979102.4758	629222.8892	7899	1982663.9412	633151.6318
7851	1978818.8318	628804.7351	7900	1980176.3602	633150.5439
7852	1977383.6374	629679.4192	7901	1979884.6255	630466.2009
7853	1977382.6123	629328.7193	7902	1979890.8552	630494.6895
7854	1978802.0827	628585.5090	7903	1979897.0276	630523.1906
7855	1982628.2574	626483.0679	7904	1980034.5485	630523.0395
7856	1982627.3807	627855.7355	7905	1980033.4892	631507.3921
7857	1980425.2527	627861.3092	7906	1980167.6965	633542.1863
7858	1982627.3799	627897.2355	7907	1980168.7081	633924.5599
7859	1982327.3801	627897.9949	7908	1982663.9660	633184.6318
7860	1982327.3898	627922.9950	7909	1980177.3033	633183.5444
7861	1981761.7619	627924.4266	7910	1979513.1691	630546.3250
7862	1981761.4234	629003.2818	7912	1979633.3413	631156.7348
7863	1982124.8232	629003.6529	7913	1979792.3350	631982.2288
7864	1982211.4768	628953.7413	7915	1979876.7123	633166.9129
7865	1982411.4767	628953.9456	7916	1979886.7167	633166.9173
7866	1982411.3306	629193.9455	7917	1979892.6974	633542.9139
7867	1982211.3308	629193.7413	7918	1979893.7091	633925.2875
7868	1982124.7793	629143.6529	7919	1979876.2210	633150.4127
7869	1981761.3795	629143.2818	7920	1977410.0225	633149.3342
7870	1981761.1791	629782.0745	7921	1979887.1884	633183.4175
7871	1981661.1606	629841.1341	7922	1977410.1254	633182.3342

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PT NO.	EASTING	NORTHING	PT NO.	EASTING	NORTHING
7923	1977419.1075	635813.4687	8022	1981397.1100	599427.3915
7924	1984046.6432	596128.8750	8023	1981769.6805	599427.1215
7925	1981404.2264	596128.5966	8024	1982032.5298	599426.9310
7926	1978210.6255	601420.0514	8025	1982032.4856	599460.1109
7927	1977468.5455	601418.1300	8026	1982599.0977	599456.8255
7928	1977426.4722	601941.5223	8027	1982601.8297	599426.5184
7929	1981420.3563	606737.2412	8028	1982723.0628	599426.4305
7930	1977432.9863	609821.8766	8029	1982722.4495	600089.4560
7931	1977431.4955	610697.8802	8030	1982542.0819	600089.3363
7932	1977431.3830	610763.9752	8031	1983316.0344	596111.3679
7933	1977429.2370	612024.9941	8032	1983516.0342	596111.6436
7934	1977396.2370	612024.9379	8033	1983000.5647	599426.9728
7935	1970832.3100	612020.3224	8034	1983475.5638	599427.9011
7936	1970434.6647	611989.2462	8035	1983471.5373	600091.3387
7937	1972170.3363	615983.5814	8036	1983299.9527	600090.9074
7938	1975399.5215	627870.6569	8037	1984043.5355	600092.7763
7939	1977397.2158	628679.9259	8038	1984704.0785	600094.4364
7940	1977403.9548	631001.2880	8039	1984701.0520	601422.8995
7941	1982662.6368	631466.6426	8040	1983516.9405	596128.1449
7942	1982662.9260	631844.1424	8041	1985364.6215	600096.0965
7943	1982663.0118	631951.1321	8042	1984042.0620	601761.6950
7944	1982663.1837	632173.1321	8043	1984043.1785	602161.6935
7945	1977414.5883	634489.6514	8044	1984043.8924	602417.4325
7946	1982665.8755	635808.6061	8045	1984386.7939	602418.6782
7947	1973419.8746	627872.1909	8046	1984813.4866	602629.2215
			8047	1984977.7435	602283.8521
Property Corners			8048	1984537.2749	602419.2249
8000	1981404.2655	596112.0995	8049	1984352.3967	602201.1791
8001	1982654.9149	596110.6384	8050	1984351.9474	601892.2662
8002	1982725.6252	596773.7675	8051	1984401.9494	602207.5068
8003	1982061.1599	596771.6558	8052	1984101.5276	601917.5303
8004	1982063.6048	597106.3200	8053	1984589.6563	602231.4761
8005	1982725.3004	597105.3738	8054	1982653.7265	597105.4761
8006	1982724.9755	597436.9800	8055	1981272.0944	601411.6038
8007	1982063.0496	597437.9843	8056	1981107.0942	601411.1594
8008	1981401.1238	597438.9885	8057	1981275.9790	602245.7948
8009	1981399.5529	598102.4330	8058	1981822.5506	602247.2669
8010	1982289.9266	598100.9272	8059	1981113.2753	602738.5253
8011	1982724.3258	598100.1925	8060	1981741.1651	602739.9666
8012	1982289.2768	598764.2152	8061	1981742.0082	602961.0550
8013	1983318.9461	596127.8709	8062	1982727.1256	602963.3164
8014	1984046.6475	596112.3750	8063	1982726.2825	602742.2280
8015	1984046.3047	597438.8128	8064	1982695.7100	602592.1602
8016	1983173.3301	597437.6019	8065	1984638.2770	602057.0005
8017	1982853.3304	597437.1580	8066	1981807.8291	631327.7646
8018	1982853.0915	597637.1579	8067	1981808.2292	631844.4244
8019	1983173.0912	597637.6017	8068	1984589.3566	602025.4763
8020	1984045.9620	598765.2505	8069	1978772.5121	606060.5170
8021	1981398.0057	598765.8775	8070	1981875.8279	630036.7113

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PT NO.	EASTING	NORTHING	PT NO.	EASTING	NORTHING
8071	1981743.8578	630065.1522	8120	1982652.5381	598100.3139
8072	1981775.5698	630272.5085	8121	1982378.4985	609245.2374
8073	1981937.6511	630247.7206	8122	1982714.2001	610873.1355
8074	1981975.1723	630238.2555	8123	1982664.2001	610873.1132
8075	1982678.3068	630271.1305	8124	1982658.1953	610778.1816
8076	1982283.1368	631466.7678	8125	1982222.1900	610776.1523
8077	1982283.0290	631327.6078	8126	1982111.5321	610471.0179
8078	1977580.1707	606059.7466	8127	1982115.5753	610344.7026
8079	1977596.0082	606718.3044	8128	1982630.0197	610347.0969
8080	1977623.0160	608044.6351	8129	1982607.5683	610003.0204
8081	1978761.3797	609371.9094	8130	1982385.6581	609718.7018
8082	1982679.5118	631951.1393	8131	1982588.3478	599456.8878
8083	1982363.5119	631951.0012	8132	1981591.8993	609389.6073
8084	1982363.6837	632173.0011	8133	1981582.7496	610466.2086
8085	1982679.6837	632173.1393	8134	1981838.4534	611038.9805
8086	1978020.6472	631845.6785	8135	1982033.2371	611369.5074
8087	1980075.0665	602736.1420	8136	1982029.7020	611785.4634
8088	1974776.2859	602743.8241	8137	1981937.0819	611945.2473
8089	1976092.6270	602743.2789	8138	1981936.3871	612026.9903
8090	1977408.9682	602742.7336	8139	1982281.3871	612027.1446
8091	1977500.3952	602742.5059	8140	1982283.1514	611766.5073
8092	1977532.6336	604083.0471	8141	1982708.1514	611766.6975
8093	1978061.5447	634489.3825	8142	1981403.3224	609350.0431
8094	1977408.1278	603413.3604	8143	1980113.3225	609349.3434
8095	1976092.9416	603411.9958	8144	1980117.7252	608674.0078
8096	1976093.2561	604080.7127	8145	1981407.4919	608710.4922
8097	1978717.4833	634489.0663	8146	1981510.1963	608710.5504
8098	1977414.5278	605401.0903	8147	1981408.2490	608594.3692
8099	1977564.3209	605400.6758	8148	1981407.7252	608674.7074
8100	1978768.7048	605396.4449	8149	1980118.8864	608495.8815
8101	1978761.1216	604073.8334	8150	1980436.9456	608271.5165
8102	1979109.4819	606060.7348	8151	1981125.2770	608271.8888
8103	1977418.1480	606059.6419	8152	1980127.7575	607135.0961
8104	1978722.1975	635811.6645	8153	1977419.5111	608044.4832
8105	1978776.2880	606719.0564	8154	1978768.8338	608045.4832
8106	1981420.4638	606720.7412	8155	1982570.7443	599757.8372
8107	1982733.3238	608048.0213	8156	1981403.0672	609389.1962
8108	1981411.6830	608067.6276	8157	1973454.8605	609362.8214
8109	1981411.8159	608047.2419	8158	1973457.8614	606719.2348
8110	1982728.8343	608711.2402	8159	1975901.8015	611821.7766
8111	1982520.0839	608711.1221	8160	1973451.8617	612004.5372
8112	1982311.3339	608711.0039	8161	1973453.3611	610683.6809
8113	1981909.5166	608710.7764	8162	1972151.8435	610678.8210
8114	1982309.9214	608919.7491	8163	1975889.7317	611783.6408
8115	1982518.6713	608919.8673	8164	1974230.1501	612008.7894
8116	1982727.4213	608919.9854	8165	1974231.3197	611775.0924
8117	1982725.4904	609205.2289	8166	1974440.0153	611776.3854
8118	1982675.4904	609205.2006	8167	1974438.8470	612009.9297
8119	1978078.7592	635812.5554	8168	1982532.3361	600089.3771

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PT NO.	EASTING	NORTHING	PT NO.	EASTING	NORTHING
8169	1981107.1709	601427.6597	8218	1976289.7344	603412.2001
8170	1981272.1713	601428.1041	8219	1970157.0267	617568.2876
8171	1974441.0251	611308.9859	8220	1975053.9228	623126.0860
8172	1975292.6600	611313.2481	8221	1970365.7371	617777.2698
8173	1975041.5504	610519.4239	8222	1970365.7228	617568.5698
8174	1975486.9016	610377.5598	8223	1970365.7384	617359.8698
8175	1984588.4464	601422.2904	8224	1975054.6582	622976.0878
8176	1975927.8696	611771.5769	8225	1970574.4226	617568.8532
8177	1975939.9336	611809.7143	8226	1974764.2390	622975.4025
8178	1975742.0578	611991.6044	8227	1972154.0720	619289.9215
8179	1975088.6522	612046.3350	8228	1970624.4225	617568.9221
8180	1974771.8437	612044.7494	8229	1975095.4363	622594.4872
8181	1974771.8513	612194.7494	8230	1976730.9448	625571.3301
8182	1975088.6598	612196.3350	8231	1970833.1223	617569.2054
8183	1974771.9093	613335.7300	8232	1970833.1067	617777.9054
8184	1973451.9203	613330.9029	8233	1970833.0428	618630.4128
8185	1972152.6968	613326.1517	8234	1972154.1933	618631.1103
8186	1970832.5160	613330.2185	8235	1973450.3995	618628.7050
8187	1970832.3073	612026.9903	8236	1973449.6954	619288.2567
8188	1970832.6203	613993.4166	8237	1972789.2482	619289.4083
8189	1972152.9816	613990.5096	8238	1972154.0719	619290.5159
8190	1970832.7246	614656.6147	8239	1970900.0720	619290.3000
8191	1984701.0896	601406.1993	8240	1970900.0163	619620.2999
8192	1973451.9789	614657.2696	8241	1971164.0163	619620.2203
8193	1973451.8934	615983.4349	8242	1971163.9505	619950.2203
8194	1970832.9332	615983.5600	8243	1970832.9438	619950.3202
8195	1972153.5514	615319.2254	8244	1976729.4953	625901.4363
8196	1970832.8289	615320.0873	8245	1972788.5441	619948.8860
8197	1970832.8810	615651.8237	8246	1973448.9912	619947.8083
8198	1972153.6938	615651.4043	8247	1973447.5904	621269.2027
8199	1982697.1252	602983.2186	8248	1972153.7378	621268.7328
8200	1973451.8079	617309.6015	8249	1972153.6264	621928.1384
8201	1975608.7975	602743.4801	8250	1976728.0457	626231.5425
8202	1970833.1417	617310.5054	8251	1970832.7459	622590.1345
8203	1976060.2310	602743.2921	8252	1976726.5958	626561.6489
8204	1970701.1418	617310.3262	8253	1976725.1466	626891.7553
8205	1970701.0511	616732.8262	8254	1970831.4486	623914.1188
8206	1970833.0510	616733.0054	8255	1970171.2585	623914.6375
8207	1970434.8766	617309.9636	8256	1970170.1756	625237.8453
8208	1970434.9063	616791.3636	8257	1970830.1513	625238.1030
8209	1969933.6268	616790.6837	8258	1970723.6970	627221.8614
8210	1969923.8771	617309.2710	8259	1972151.8388	623913.0813
8211	1969511.9372	616790.1117	8260	1972783.3164	623914.0515
8212	1969898.3388	617359.2350	8261	1972787.4215	622589.0401
8213	1969898.3232	617567.9350	8262	1972799.8423	622589.0694
8214	1969898.3075	617776.6350	8263	1972935.9991	622589.3907
8215	1976092.6405	602771.8645	8264	1972800.2507	621929.0186
8216	1970107.0230	617568.2183	8265	1972936.1106	621929.2035
8217	1976092.9385	603405.7990	8266	1973166.1530	621929.5166

COORDINATE POINT LIST
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OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

PLS	JTB	
DRAWN	JTB	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SDS 11 OF 76

SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S11

COORDINATE POINT LIST

SWO 4380(1) J/P 24428(04)

PT NO.	EASTING	NORTHING	PT NO.	EASTING	NORTHING
8267	1973166.1029	622225.9331	8316	1976063.6634	626891.9737
8268	1973166.0415	622589.9336	8317	1977256.5643	626891.5821
8269	1973396.0898	622590.4765	8318	1977256.4848	626910.5414
8270	1973396.4781	622226.4768	8319	1977357.4848	626910.5080
8271	1973446.8751	621929.8987	8320	1977356.1798	627221.5623
8272	1973626.5174	622227.0197	8321	1978770.3612	605685.3443
8273	1973626.1292	622591.0195	8322	1976059.0930	627886.6620
8274	1974106.1678	622592.1524	8323	1977920.1353	625240.1657
8275	1974106.8735	621930.7974	8324	1977933.4184	626562.2322
8276	1973446.1697	622590.5947	8325	1977948.6321	627884.1963
8277	1973439.5757	623915.0599	8326	1978713.7429	625238.2072
8278	1974759.5890	623917.0880	8327	1978710.8361	626560.2493
8279	1975001.6888	623917.4199	8328	1978707.9295	627882.2314
8280	1974763.5235	623125.4006	8329	1979446.5248	625236.3988
8281	1975089.0188	623917.5397	8330	1979570.1006	625564.3733
8282	1974999.4524	624367.4144	8331	1979817.6801	625619.3497
8283	1974757.3526	624367.0824	8332	1979906.4016	625576.8627
8284	1973432.9818	625239.5291	8333	1979982.8154	625580.8930
8285	1973426.3870	626564.1082	8334	1980038.3210	625542.4280
8286	1972148.3963	626564.1557	8335	1980038.2787	625648.9580
8287	1976857.4237	603412.7890	8336	1980190.8479	625600.7640
8288	1977391.6278	603413.3455	8337	1980097.7087	606570.1968
8289	1977050.6659	604083.0985	8338	1980038.2058	624665.6480
8290	1973431.5129	625534.5254	8339	1980438.2057	624665.2570
8291	1973726.5129	625534.7348	8340	1980437.8932	623915.2571
8292	1973727.9815	625239.7385	8341	1981829.9724	623913.7304
8293	1977409.0191	604399.0112	8342	1982709.9081	625116.4274
8294	1977543.0744	604517.2012	8343	1982067.6888	625115.4933
8295	1978489.5602	605397.4025	8344	1982067.5035	625360.4932
8296	1975399.4425	627887.1570	8345	1982712.3340	608711.2309
8297	1976102.6148	627225.5473	8346	1982078.1091	626246.0735
8298	1976062.1321	627225.2392	8347	1982042.5851	626236.8851
8299	1976071.2494	625240.9706	8348	1981959.0121	626209.3952
8300	1976072.5678	625240.9711	8349	1981880.9430	626196.9752
8301	1976073.8954	624368.8881	8350	1981692.9598	626197.8730
8302	1976732.3944	625241.2237	8351	1981685.9323	626553.9736
8303	1977383.9402	626563.6343	8352	1981646.6301	626554.0426
8304	1976069.7322	625571.1712	8353	1981358.0658	626554.5488
8305	1977363.1022	625571.4818	8354	1981219.3430	626554.7921
8306	1976068.2150	625901.3719	8355	1981155.1779	626470.9094
8307	1977361.7178	625901.4979	8356	1980647.3518	626251.9993
8308	1976066.6978	626231.5725	8357	1980671.1256	626149.7262
8309	1977020.2833	626231.5294	8358	1980386.5295	625779.4640
8310	1977360.3333	626231.5140	8359	1980523.0831	625201.3643
8311	1977019.7459	626359.6282	8360	1980669.3705	625450.3732
8312	1977258.7959	626359.6174	8361	1981229.8629	625960.3821
8313	1977359.7959	626359.6129	8362	1981520.3686	626117.3487
8314	1977358.9488	626561.5301	8363	1981704.8685	626117.1684
8315	1976065.1805	626561.7731	8364	1981703.7565	625233.3103

COORDINATE POINT LIST

COORDINATE POINT LIST

SWO 4380(1) J/P 24428(04)

PT NO.	EASTING	NORTHING	PT NO.	EASTING	NORTHING
8365	1981703.9928	624932.7104	8414	1980680.1995	627318.9937
8366	1981685.4828	624932.7285	8415	1980594.8084	627371.0356
8367	1981685.9546	624332.7287	8416	1980454.2953	627140.4796
8368	1980751.1550	624333.6423	8417	1980358.4958	627175.4433
8369	1980750.8309	624758.6422	8418	1980509.4173	627423.0775
8370	1980523.4310	624758.8645	8419	1980411.2176	627482.9256
8371	1982710.9210	608919.9761	8420	1980329.5118	627348.8616
8372	1982677.9695	626933.5092	8421	1980240.8324	627203.3552
8373	1982177.6860	626943.9940	8422	1980037.6437	627249.4831
8374	1981861.0755	626950.6295	8423	1980244.1207	627400.9035
8375	1982708.9901	609205.2196	8424	1980141.0536	627463.7181
8376	1982092.4961	609374.1164	8425	1980325.8265	627534.9675
8377	1980098.2470	607099.1862	8426	1980171.9194	627534.1518
8378	1978776.1934	606702.5564	8427	1980216.7820	627601.4250
8379	1978776.1953	606735.5564	8428	1980037.4746	627675.5721
8380	1977595.6114	606701.8042	8429	1979702.6085	627879.6574
8381	1977596.3442	606734.8046	8430	1981310.9247	630022.4855
8382	1977436.0111	608044.4954	8431	1980192.9635	627878.3972
8383	1974505.1080	608043.3819	8432	1981586.9801	627135.2441
8384	1974585.5731	608040.5451	8433	1981583.6435	627874.8773
8385	1974568.9870	608371.6778	8434	1981860.8726	627874.1756
8386	1974651.5871	608371.6926	8435	1981910.9725	627874.0488
8387	1974775.8930	608444.2109	8436	1982177.3716	627873.3745
8388	1974674.5631	608702.8871	8437	1981911.0513	627641.0488
8389	1982094.2452	626032.9279	8438	1982627.3818	627902.2356
8390	1975021.2944	609365.9649	8439	1982327.3820	627902.9949
8391	1975114.4806	609366.1519	8440	1982327.4999	628202.9949
8392	1975230.9632	609366.3856	8441	1982627.4989	628202.2356
8393	1982177.4504	627640.3746	8442	1982327.6300	628537.9963
8394	1976110.3147	612348.3342	8443	1982627.6290	628537.2369
8395	1982077.9679	626167.1191	8444	1978283.9710	627883.3285
8396	1981173.8535	626783.9182	8445	1978334.9008	628748.3256
8397	1981205.0786	626835.1528	8446	1977870.7447	629031.2953
8398	1981277.9373	626954.7004	8447	1977869.7142	628678.7032
8399	1981013.4797	626905.0802	8448	1977380.7159	628679.9686
8400	1981107.1551	627058.7842	8449	1977381.5923	628979.9673
8401	1980928.0686	626957.1221	8450	1977431.5927	628979.8379
8402	1980937.6685	626953.6257	8451	1977631.5923	628979.3204
8403	1981030.3031	627105.6219	8452	1977632.1687	629176.6263
8404	1981021.7640	627110.8261	8453	1977381.9429	629099.7268
8405	1980858.1276	626992.7701	8454	1977382.2530	629205.8105
8406	1980953.4511	627152.4596	8455	1977432.5148	629298.3060
8407	1980936.3729	627162.8680	8456	1977382.6123	629328.7193
8408	1980837.4933	627000.6249	8457	1977483.8691	629267.0204
8409	1980741.6938	627035.5886	8458	1977973.2820	629204.7202
8410	1980850.9818	627214.9099	8459	1978709.1908	629203.3888
8411	1980765.5907	627266.9518	8460	1977603.5112	629545.4163
8412	1980651.0985	627079.0913	8461	1977433.8472	629751.0901
8413	1980552.6969	627109.7855	8462	1977433.5488	629649.0005

COORDINATE POINT LIST

COORDINATE POINT LIST

SWO 4380(1) J/P 24428(04)

PT NO.	EASTING	NORTHING	PT NO.	EASTING	NORTHING
8463	1977384.0235	629811.4886	8512	1982634.1226	596773.8904
8464	1977384.6227	630016.4812	8513	1982654.1226	596773.8635
8465	1977417.6228	630016.4449	8514	1982633.3303	597437.1190
8466	1977434.6228	630016.4262	8515	1982883.3184	597447.1996
8467	1977714.8857	630106.1183	8516	1982714.9755	597436.9952
8468	1977715.5872	630346.1172	8517	1982883.3304	597437.1996
8469	1977418.5874	630346.4435	8518	1982854.9141	596110.7323
8470	1980191.3502	629377.7675	8519	1982874.9149	596110.7599
8471	1977996.9660	630525.2779	8520	1981927.9269	598101.5394
8472	1978710.3494	630524.4942	8521	1981927.9438	598111.5394
8473	1978628.4824	630524.5842	8522	1982724.3159	598110.1925
8474	1978628.5304	630541.5941	8523	1981398.1359	598700.8775
8475	1977999.6901	630677.1681	8524	1981398.0649	598730.8773
8476	1979056.1671	630644.9015	8525	1981398.0175	598750.8774
8477	1979696.8549	629773.9118	8526	1981398.0057	598755.8799
8478	1979583.3193	629378.4354	8527	1981397.9556	598785.8775
8479	1983358.0651	596872.2079	8528	1981448.1358	598700.7843
8480	1983558.0649	596872.4835	8529	1981448.0174	598750.7842
8481	1980190.9253	629773.3672	8530	1982631.7875	598728.5763
8482	1980140.9252	629773.4239	8531	1982651.7637	598748.5391
8483	1979755.2737	629973.8473	8532	1982693.6761	598763.4610
8484	1980140.4813	630185.9523	8533	1982713.6289	598753.4238
8485	1980190.3961	630264.1865	8534	1982723.6575	598783.4050
8486	1979619.0047	630523.4960	8535	1982871.7459	598763.6117
8487	1979884.6255	630466.2009	8536	1982917.0595	598763.6749
8488	1979897.0276	630523.1906	8537	1982927.0733	598763.6889
8489	1974967.8437	612045.7304	8538	1981397.1364	599407.3915
8490	1981838.1401	629790.2761	8539	1981397.0968	599437.3915
8491	1981831.4118	629794.9952	8540	1981397.0705	599457.3915
8492	1982679.4290	631844.1370	8541	1982022.5165	599436.9382
8493	1980078.3077	631844.9952	8542	1982022.4722	599470.1692
8494	1978711.5591	631845.4491	8543	1982598.1958	599466.8309
8495	1977389.8405	631845.8880	8544	1982723.0350	599458.4305
8496	1978044.3289	633166.1116	8545	1982723.0812	599406.4305
8497	1978712.7689	633166.4039	8546	1983007.8526	599416.4264
8498	1979070.9288	633166.5605	8547	1983027.0460	599410.8033
8499	1980031.7033	633166.9807	8548	1983039.5071	599417.5730
8500	1981864.8300	629711.5627	8549	1983020.3133	599423.1961
8501	1981356.0786	633167.5598	8550	1981396.6674	599733.1485
8502	1981358.3071	634488.3899	8551	1981396.6806	599783.1485
8503	1980035.1995	634488.4112	8552	1982574.2176	599732.8362
8504	1982227.0921	629517.4712	8553	1982569.7104	599782.8374
8505	1982678.1038	629751.3866	8554	1981396.2512	600078.9055
8506	1982678.1277	629812.4853	8555	1982542.9793	600079.3815
8507	1981986.0451	629961.7693	8556	1983311.7592	600090.9371
8508	1982634.9148	596110.6617	8557	1983323.5658	600090.9668
8509	1982696.2750	596110.5900	8558	1980067.8750	601428.3604
8510	1982653.3303	597437.0887	8559	1974869.8425	612045.2399
8511	1982853.3184	597447.1580	8560	1981367.7554	601411.8615

COORDINATE POINT LIST

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SWO 4380(1) J/P 24428(04)

PT NO.	EASTING	NORTHING	PT NO.	EASTING	NORTHING
8561	1981378.7290	601412.0164	8610	1977400.4405	626563.5915
8562	1981394.4940	601411.9335	8611	1985362.2373	602127.4136
8563	1981394.6024	601431.9338	8612	1985362.3636	602198.7781
8564	1982691.2225	601415.4262	8613	1984088.9444	604087.4667
8565	1982701.2989	601435.4534	8614	1984059.7252	604059.2519
8566	1982741.2997	601435.5801	8615	1982804.2734	605020.5927
8567	1973451.8804	611988.0370	8616	1982764.1893	605000.3247
8568	1983026.6137	601416.6165	8617	1982805.8219	605395.3302
8569	1984041.1648	601440.3023	8618	1982765.8223	605395.5257
8570	1984041.1090	601420.3020	8619	1982813.3031	606721.8189
8571	1984042.0345	600913.8842	8620	1982773.3017	606721.6863
8572	1984042.0845	600886.6123	8621	1977417.0466	603588.0401
8573	1984650.2913	601452.5153	8622	1977407.8965	603597.9040
8574	1981380.7672	602759.1394	8623	1977159.5104	603865.6675
8575	1981400.6745	602739.1850	8624	1977119.9042	604164.8808
8576	1981380.6741	602739.1391	8625	1976997.7408	604297.1908
8577	1973451.8624	612021.0374	8626	1976737.0153	605248.0689
8578	1981400.7678	602759.1853	8627	1977024.0298	606717.7816
8579	1981534.3700	601797.0160	8628	1977049.4930	606717.8080
8580	1981543.6560	601793.0640	8629	1977182.7838	607400.2764
8581	1972136.1968	613326.2026	8630	1977157.7062	607402.2977
8582	1972169.1968	613326.2121	8631	1977160.2751	608103.4836
8583	1972136.4818	613990.5459	8632	1977135.2078	608105.1852
8584	1972137.0514	615319.2361	8633	1977364.6540	609311.8444
8585	1972137.1938	615651.4096	8634	1977339.6491	609313.9148
8586	1972137.3362	615983.5830	8635	1977362.1637	610381.9502
8587	1969924.8171	617259.2723	8636	1977337.1704	610379.0400
8588	1970434.8823	617259.9647	8637	1977336.8998	610490.0878
8589	1970701.1340	617260.3261	8638	1977311.8998	610487.2063
8590	1970833.1339	617260.5053	8639	1977311.8998	611988.9237
8591	1973451.8089	617293.1015	8640	1977336.8998	611984.1057
8592	1973451.7902	617326.1016	8641	1977353.1372	612024.6677
8593	1972137.6833	618631.1015	8642	1977326.1544	612024.5327
8594	1972170.6833	618631.0796	8643	1977397.6904	603645.6666
8595	1972137.5720	619289.9265	8644	1977407.7112	603745.7674
8596	1972170.5719	619290.4871	8645	1977443.3395	603850.6884
8597	1972170.2377	621268.7387	8646	1977709.2966	604081.7221
8598	1972170.1264	621928.1608	8647	1977705.5472	604081.7503
8599	1970832.7297	622606.6346	8648	1977668.0529	604082.0315
8600	1972787.3704	622605.5400	8649	1977664.3035	604082.0596
8601	1972799.8525	622572.5693	8650	1977654.4463	604082.1335
8602	1972936.0019	622572.8907	8651	1977978.5083	604079.7030
8603	1973166.0442	622573.4336	8652	1981374.4935	601411.8796
8604	1973396.1074	622573.9765	8653	1978661.2390	604094.5944
8605	1973446.0875	622607.0946	8654	1977677.0791	604102.0872
8606	1973626.1468	622574.5194	8655	1977980.1688	604369.3098
8607	1972168.3087	623913.1066	8656	1977989.5320	604368.6564
8608	1977929.5570	626177.9092	8657	1978000.2711	604387.0958
8609	1982751.3424	604069.0147	8658	1978203.0464	604523.8423

COORDINATE POINT LIST

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SWO 4380(1) J/P 24428(04)

PT NO.	EASTING	NORTHING	PT NO.	EASTING	NORTHING
8659	1978182.7546	604545.9477	8708	1978778.0199	609359.7725
8660	1978396.4855	604701.3230	8709	1978900.5972	610234.4987
8661	1978376.0125	604723.2530	8710	1978900.6321	610254.4987
8662	1978556.5291	604853.3474	8711	1978352.3178	610235.4557
8663	1978535.8579	604875.0986	8712	1978341.6139	610255.4744
8664	1978666.2813	605008.9722	8713	1978097.4841	610632.5201
8665	1978716.6287	605005.4060	8714	1978097.2733	610670.0279
8666	1978695.6873	605026.9100	8715	1978097.1830	610686.1027
8667	1978767.0579	605109.2081	8716	1978104.8274	610698.3158
8668	1978870.1709	605158.4257	8717	1978097.1144	610698.3108
8669	1978849.5431	605180.2223	8718	1977205.4342	608405.6848
8670	1979091.6978	605357.5025	8719	1977208.1342	608430.5386
8671	1979080.2262	605387.5275	8720	1975273.5980	608615.5494
8672	1979541.7445	605356.5261	8721	1975278.7167	608640.1404
8673	1979579.3741	605384.8116	8722	1974504.6890	608040.5799
8674	1979531.7555	605386.5479	8723	1974484.4680	608040.5886
8675	1979551.8179	605401.6284	8724	1974891.8056	608760.7733
8676	1979618.7086	605614.4344	8725	1974884.3643	608736.9064
8677	1979589.1394	605619.4986	8726	1974775.5572	608739.8766
8678	1979656.6920	605836.1695	8727	1974775.3373	608933.5787
8679	1979627.8120	605845.2585	8728	1974711.5389	608790.7907
8680	1979804.2140	606149.3992	8729	1974718.9802	608814.6576
8681	1979778.8740	606166.0048	8730	1974678.8354	608800.9871
8682	1980062.3826	606443.7244	8731	1974683.3815	608825.7567
8683	1980041.0474	606464.8956	8732	1974065.9604	608838.2932
8684	1980097.1240	606474.6760	8733	1974078.0373	608862.6044
8685	1980097.3713	606515.0754	8734	1973468.9404	609533.6194
8686	1974627.8566	606715.8854	8735	1973454.6639	609535.9914
8687	1981412.7416	606754.8093	8736	1973481.9933	609556.7933
8688	1981387.7421	606754.6463	8737	1973454.6351	609561.3389
8689	1981408.4012	607120.5727	8738	1975411.7919	610208.4310
8690	1981383.4739	607409.3420	8739	1977357.5643	626891.5462
8691	1981387.5473	607551.4880	8740	1982731.3420	604068.9490
8692	1981412.5468	607551.6510	8741	1978103.4995	626561.7984
8693	1981412.3150	607587.2060	8742	1978428.1985	626560.9702
8694	1981387.3880	607575.9317	8743	1978709.5399	627149.7898
8695	1980914.0370	608031.1555	8744	1977998.5073	604079.5530
8696	1980912.3880	608029.2763	8745	1978284.9423	627899.8261
8697	1980899.1964	608014.2429	8746	1977400.4653	629791.5571
8698	1980897.5474	608012.3637	8747	1979729.7975	627863.0869
8699	1980889.2830	608023.0754	8748	1979997.4651	627699.9560
8700	1980898.2892	608041.8379	8749	1980435.2932	627877.7839
8701	1980809.4599	607957.3433	8750	1982627.9691	626934.5571
8702	1980793.8585	607937.7548	8751	1978637.7511	630524.5740
8703	1980576.3174	608075.9160	8752	1979142.3131	630524.0197
8704	1980584.1305	608094.8799	8753	1980034.7546	630331.5177
8705	1978823.0157	609312.7342	8754	1980190.3598	630297.9533
8706	1978838.4177	609326.3448	8755	1980190.2497	630400.2770
8707	1978797.2724	609376.7857	8756	1980176.8412	633167.0441

COORDINATE POINT LIST

COORDINATE POINT LIST

SWO 4380(1) J/P 24428(04)

PT NO.	EASTING	NORTHING	PT NO.	EASTING	NORTHING
8757	1977046.7416	612023.1343	8806	1972130.0689	619308.0848
8758	1976209.6890	611970.8994	8807	1972129.9647	619924.9287
8759	1976207.0257	611990.9314	8808	1972217.4513	619949.8179
8760	1976186.0157	611990.8262	8809	1972178.6614	619949.8812
8761	1976179.6790	611970.7943	8810	1972149.9613	619944.9227
8762	1981396.2380	600088.9055	8811	1972121.8840	619949.9312
8763	1975984.7936	612017.8195	8812	1971923.9630	619924.9909
8764	1975649.0312	612016.0561	8813	1971923.9590	619944.9909
8765	1975625.0312	612016.0569	8814	1971948.4314	619949.9835
8766	1974871.8420	612012.2495	8815	1972376.4568	620208.2497
8767	1974871.8586	612338.7482	8816	1972350.4052	620226.8563
8768	1970832.9253	615933.5600	8817	1971686.9639	620823.4851
8769	1970832.9332	615983.5600	8818	1971687.0179	620504.1829
8770	1971493.3701	615933.5716	8819	1971959.4896	619949.9802
8771	1971493.3847	615983.5716	8820	1972652.9467	620483.8485
8772	1972153.8363	615983.5833	8821	1972700.2515	620515.1287
8773	1972153.8148	615933.5832	8822	1972677.7885	620539.8373
8774	1970833.0296	616597.0327	8823	1972631.9393	620509.5195
8775	1970833.0374	616647.0327	8824	1971696.9637	620625.1216
8776	1971493.5793	616647.4869	8825	1971697.0175	620506.4238
8777	1971493.5646	616597.4869	8826	1971498.2063	621416.4284
8778	1972154.0997	616597.9411	8827	1971488.7274	621413.2422
8779	1972154.1211	616647.9411	8828	1968633.0012	622574.4490
8780	1973451.7011	617409.6019	8829	1972799.8547	622569.0693
8781	1973451.7545	617359.6017	8830	1972799.8423	622589.0694
8782	1972154.3891	617412.2991	8831	1972936.1711	622589.4020
8783	1972154.3976	617362.2990	8832	1972946.1711	622589.4010
8784	1970833.1342	617410.5054	8833	1972941.2217	622321.9029
8785	1978708.8742	628871.7492	8834	1972936.2158	622324.4020
8786	1970833.1417	617310.5054	8835	1972941.2099	622326.9029
8787	1970813.1417	617310.4777	8836	1981789.2226	599771.5468
8788	1970798.1417	617310.4578	8837	1973041.2214	622322.1388
8789	1970624.4415	617310.2221	8838	1973041.2096	622327.1388
8790	1978163.0939	629204.3768	8839	1973446.1910	622570.5947
8791	1977975.3282	629318.8112	8840	1977401.1228	630016.4631
8792	1977968.9264	628971.3882	8841	1974726.1661	622593.6156
8793	1977584.8962	629205.4367	8842	1974706.4020	626564.0605
8794	1970574.4419	617310.1542	8843	1974746.4020	626564.0590
8795	1970157.0424	617309.5876	8844	1977398.5225	629126.9393
8796	1970157.0384	617359.5876	8845	1973399.5755	623914.9984
8797	1981396.6526	599774.3912	8846	1977398.0928	628979.9246
8798	1970107.0425	617309.5197	8847	1973439.4498	623940.3595
8799	1970798.0428	618630.3943	8848	1973399.5024	623929.6982
8800	1970813.0428	618630.4022	8849	1972150.7047	624770.7671
8801	1970630.5628	619900.3812	8850	1972150.6398	624821.2038
8802	1972121.8689	619899.9312	8851	1972594.6138	624830.1454
8803	1972125.9370	619290.5127	8852	1972565.4325	624876.6873
8804	1972146.4830	619290.5150	8853	1972663.4133	625238.9828
8805	1972150.0693	619305.7667	8854	1972708.1523	625239.0146

COORDINATE POINT LIST

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

PLS	JTB	
DRAWN	JTB	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SDS 12 OF 76

SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S12

COORDINATE POINT LIST

SWO 4380(1) J/P 24428(04)

PT NO.	EASTING	NORTHING	PT NO.	EASTING	NORTHING
8855	1972946.2158	622324.4037	8904	1976069.7783	624006.7792
8856	1972173.8464	626214.4647	8905	1976079.6571	624006.8206
8857	1972173.3963	626564.1542	8906	1977364.3639	625266.4698
8858	1972213.3963	626564.1532	8907	1976096.1348	625265.9802
8859	1972213.8353	626223.9610	8908	1976063.8308	626855.5323
8860	1972791.5734	625229.0738	8909	1976053.5059	627856.7448
8861	1972791.6045	625219.1137	8910	1976063.5058	627856.7868
8862	1972791.7300	625179.0739	8911	1976084.2082	627861.6431
8863	1972721.9229	625122.4154	8912	1977385.4382	626206.5638
8864	1978666.4840	605009.3916	8913	1977385.3335	626231.5092
8865	1974333.0242	625179.5303	8914	1977400.1765	629692.7610
8866	1973433.4110	625153.2915	8915	1977383.6572	629686.1820
8867	1973475.9992	625179.5561	8916	1982756.2750	596110.5964
8868	1974071.2072	624587.8088	8917	1977383.6110	629666.8034
8869	1974095.3331	624631.6031	8918	1978011.5320	629287.4736
8870	1974064.7138	624648.4710	8919	1978002.5561	629273.6245
8871	1974017.7414	624617.2626	8920	1978144.2089	629215.8864
8872	1974049.2102	624794.7503	8921	1978152.6930	629210.7157
8873	1973998.8859	624795.1676	8922	1978309.7964	629468.3956
8874	1973999.0982	625190.5907	8923	1978309.7964	629487.6123
8875	1973992.4405	625209.9262	8924	1978524.1931	629116.5746
8876	1974004.0617	625229.9344	8925	1978524.1931	629135.7913
8877	1974054.0621	625229.9699	8926	1978567.4913	629187.6261
8878	1974093.0118	625151.4863	8927	1978558.9520	629192.8299
8879	1974040.8704	625137.1038	8928	1978807.2605	628811.7873
8880	1974047.3957	625209.9652	8929	1978817.6689	628828.8655
8881	1974054.0077	625239.9699	8930	1978804.8142	628794.3397
8882	1974039.0123	625239.9592	8931	1978816.5907	628806.1010
8883	1974035.6412	625914.9936	8932	1978832.2033	628831.7183
8884	1974015.6414	625914.8938	8933	1979138.4089	628593.2434
8885	1974019.0571	625239.9451	8934	1979116.5008	628607.6281
8886	1974004.0120	625239.9344	8935	1979802.9221	628185.5262
8887	1974694.8569	623771.4999	8936	1979810.4680	628200.3791
8888	1974733.1233	623303.9935	8937	1980037.1588	628097.3541
8889	1974753.3102	625180.4662	8938	1980037.1966	628062.1986
8890	1974713.0121	625240.4252	8939	1980192.8626	627972.1295
8891	1978710.3114	630481.1447	8940	1980192.8424	627990.9498
8892	1974753.0616	625230.4660	8941	1978592.4145	628591.4013
8893	1975283.7187	625181.2754	8942	1978602.0827	628585.5090
8894	1975250.8790	625230.6566	8943	1978550.3829	627882.6391
8895	1975255.2999	625240.6583	8944	1978560.2880	627882.6135
8896	1975309.9113	625240.5338	8945	1979605.7071	627861.4960
8897	1975584.2303	625861.1615	8946	1979605.7151	627841.4960
8898	1975538.3312	625880.9933	8947	1978855.6600	627840.8492
8899	1975844.9379	626469.4956	8948	1978855.7063	627860.8490
8900	1975801.1941	626494.3564	8949	1979464.5110	627839.2058
8901	1976064.2190	626771.0492	8950	1979479.8052	627859.2340
8902	1976066.6978	626231.5725	8951	1979828.1720	627838.2647
8903	1976066.9749	626206.5725	8952	1979795.1042	627858.4180

COORDINATE POINT LIST

SWO 4380(1) J/P 24428(04)

PT NO.	EASTING	NORTHING	PT NO.	EASTING	NORTHING
8953	1979997.3944	627878.2168	8003a	1982382.1366	626202.6463
8954	1979998.4431	625235.0367	8004a	1979321.7650	628980.1987
8955	1980037.3571	627903.7910	8005a	1979321.7903	628990.1986
8956	1980313.6476	627868.0918	8006a	1980191.7622	628977.9966
8957	1980313.6476	627878.0918	8007a	1980191.7875	628987.9966
8958	1980422.4349	627856.6858	8008a	1977999.9837	630688.5832
8959	1978710.4343	630617.1771	8009a	1978001.3053	630770.1380
8960	1980436.0462	627836.7034	8010a	1977387.4424	630994.6198
8961	1980672.4361	627855.9575	8012a	1978710.3593	630535.3533
8962	1981643.6433	627864.7254	8013a	1978634.7903	630510.7337
8963	1981677.5111	627874.6397	8014a	1978632.0257	630498.0311
8964	1981645.3168	627874.5146	8015a	1979067.8906	630642.3727
8965	1981643.6433	627874.7023	8016a	1979075.7034	633166.5605
8966	1982677.3798	627897.1090	8017a	1979491.5489	630523.4443
8967	1982627.3702	627872.2356	8018a	1979491.5651	630493.6360
8968	1978710.5279	630719.4568	8019a	1980034.6555	630423.6090
8969	1980194.5708	627568.1185	8020a	1980034.6445	630433.8414
8970	1981088.0462	627076.2856	8022a	1980034.8867	630208.7293
8971	1981082.8420	627067.7465	8023a	1980034.8517	630195.4379
8972	1981088.3383	627024.6277	8024a	1980184.8694	630176.3776
8973	1981769.2443	599758.0497	8025a	1980200.2654	630169.9877
8974	1981258.8284	626972.2018	8026a	1981291.9479	629934.5089
8975	1981253.6242	626963.6627	8027a	1981300.3821	629973.6096
8976	1982694.6918	602325.1606	8029a	1980200.1002	630295.8522
8977	1981257.0878	626920.5639	8030a	1980184.7878	630299.1552
8978	1982010.9662	626946.2088	8031a	1980190.1507	630492.8686
8979	1982038.8987	626957.2039	8032a	1980190.1453	630497.8685
8980	1981936.1759	626553.5347	8033a	1980190.1177	630522.8686
8981	1982077.9128	626553.2860	8034a	1982678.3942	630495.1350
8982	1982694.8520	602367.1611	8035a	1980034.3316	630724.5841
8983	1982046.4512	626391.1812	8036a	1980034.2187	630829.1916
8984	1982044.3586	626403.9598	8037a	1982060.8413	631369.8139
8985	1981901.1244	626363.0855	8038a	1982679.0450	631369.1348
8986	1981899.6507	626372.9965	8039a	1982679.1387	631469.1347
8987	1981800.9054	626354.5950	8040a	1982045.3594	631469.8310
8988	1981799.4847	626364.5171	8041a	1980031.7883	633087.9806
8989	1981722.1612	626328.0905	8042a	1980031.7345	633137.9808
8990	1981718.6449	626337.4519	8043a	1979901.8724	633087.4087
8991	1982193.1662	626797.5809	8044a	1979913.6528	633137.4610
8992	1982241.7063	626551.8250	8045a	1979855.2164	633166.9035
8993	1982478.2651	626597.8788	8046a	1979744.1902	633166.8549
8994	1982477.8220	626852.9983	8047a	1982474.6924	602324.6556
8995	1982628.0025	626882.2358	8048a	1982474.5960	602366.6555
8996	1982678.1579	626638.6080	8049a	1982121.4923	602431.0714
8997	1982628.3082	626403.5815	8050a	1982081.5745	602461.7541
8998	1982678.4582	626168.4091	8051a	1982238.5587	602551.1107
8999	1982638.1365	626202.2398	8052a	1982168.5614	602550.9500
8001a	1982638.2067	626092.3961	8053a	1982144.8033	602550.8955
8002a	1982382.2068	626092.6552	8054a	1982144.7114	602590.8954

COORDINATE POINT LIST

SWO 4380(1) J/P 24428(04)

PT NO.	EASTING	NORTHING	PT NO.	EASTING	NORTHING
8055a	1982695.7100	602592.1602	8104a	1978712.7538	633149.9039
8056a	1982695.5575	602552.1598	8105a	1979070.8322	633150.0605
8057a	1984048.5145	604073.2745	8106a	1981356.1065	633184.0599
8058a	1977529.9725	603972.3944	8107a	1982754.9755	597437.0216
8059a	1977425.4682	602742.6925	8108a	1978760.2968	596114.9403
8060a	1977392.4682	602742.7404	8109a	1978756.6723	597439.2957
8061a	1977431.0277	605401.0337	8110a	1977431.4320	597437.6265
8062a	1977434.6483	606059.6525	8111a	1977428.0000	598097.4652
8063a	1982716.8235	608048.0116	8112a	1977436.0370	598758.8922
8064a	1974446.2909	606716.4052	8113a	1978753.0480	598763.6171
8065a	1974339.5450	606716.7108	8114a	1978749.4337	600084.3001
8066a	1974253.5692	606716.9569	8115a	1977452.0936	600080.3165
8067a	1974251.5496	608052.3210	8116a	1978745.8194	601404.9371
8068a	1974251.1871	608371.6208	8117a	1977468.1488	601401.6289
8069a	1973455.9858	608371.4781	8118a	1977481.1360	601941.6638
8070a	1973455.2356	609032.3736	8119a	1978209.9696	601943.5510
8071a	1974115.2293	609033.2961	8120a	1978753.4705	602739.3853
8072a	1974115.6049	608702.4463	8121a	1973453.3539	601414.4643
8073a	1972168.3435	610678.8826	8122a	1973454.4838	602744.3021
8074a	1975332.5775	610581.6785	8123a	1972151.6315	602744.7382
8075a	1975284.9366	610596.8543	8124a	1973455.6138	604074.1399
8076a	1975839.5707	611463.9892	8125a	1973456.7376	605396.6873
8077a	1975631.7156	611527.3334	8126a	1972151.2155	605396.8967
8078a	1975578.0228	611523.3776	8127a	1971505.7940	606721.8419
8079a	1974440.7349	611517.6857	8128a	1968632.5197	608041.2095
8080a	1974441.0603	611567.6880	8129a	1969513.8981	608041.3061
8081a	1974649.7577	611568.7325	8130a	1972151.2765	608041.5910
8082a	1974699.7570	611568.9827	8131a	1973456.3609	608041.0303
8083a	1975650.7604	611573.7422	8132a	1981403.1679	609373.7426
8084a	1975845.6507	611511.6610	8133a	1980113.1681	609373.0429
8085a	1974239.2327	611992.2866	8134a	1978104.5715	609371.3511
8086a	1972154.3846	617262.2989	8135a	1977650.0239	609370.9698
8087a	1972164.8963	626564.1551	8136a	1977659.0493	609821.9777
8088a	1977921.9639	625422.1657	8137a	1978102.0380	609822.1760
8089a	1977948.9401	627900.6956	8138a	1977676.5806	610698.0387
8090a	1977948.4422	627867.6968	8139a	1977677.9023	610764.0855
8091a	1977398.7530	629205.7801	8140a	1978096.7437	610764.2729
8092a	1981860.8762	627857.6756	8141a	1978753.9233	610698.7361
8093a	1981910.9780	627857.5487	8142a	1979907.5066	610699.4820
8094a	1982177.3772	627856.8745	8143a	1979939.5066	610699.5027
8095a	1982661.8065	630270.3590	8144a	1980073.6740	610699.5895
8096a	1981984.0164	630013.3568	8145a	1979931.5682	612026.0931
8097a	1981904.4340	630030.5229	8146a	1979899.5683	612026.0788
8098a	1981889.2884	629931.4900	8147a	1978746.4669	612025.5628
8099a	1981860.6797	629937.6609	8148a	1978089.6572	612025.2689
8100a	1977402.6120	630525.9309	8149a	1977703.1370	612025.0959
8101a	1977406.3406	631845.8825	8150a	1975640.0478	612342.5561
8102a	1978003.1850	630872.0325	8151a	1975624.5525	612542.5177
8103a	1978712.8277	633182.9039	8152a	1974871.8688	612538.7508

COORDINATE POINT LIST

SWO 4380(1) J/P 24428(04)

PT NO.	EASTING	NORTHING	PT NO.	EASTING	NORTHING
8153a	1974871.9093	613336.0728	8801a	1970613.1902	619950.3865
8154a	1970372.4043	609362.9473			
8155a	1970125.7830	609937.6419	**Cadastral Land Corners**		
8156a	1969512.9580	610687.2397	9000	1977438.3040	596116.4020
8157a	1968632.7247	610690.0465	9001	1980082.2560	596113.6440
8158a	1970437.1471	612005.7343	9002	1982726.2750	596110.5550
8159a	1968632.9295	613336.9950	9003	1985367.0200	596114.1950
8160a	1969512.3353	613334.2852	9004	1988006.2650	596118.5670
8161a	1968633.1343	615983.1220	9005	1977424.5600	598758.8510
8162a	1969512.0301	615983.5368	9006	1980072.2880	598768.3500
8163a	1974771.8903	615983.2840	9007	1982723.6760	598763.4050
8164a	1976092.1279	615983.9395	9008	1985368.2480	598767.0960
8165a	1977412.3650	615984.5950	9009	1988004.3490	598776.8300
8166a	1976092.0231	617304.1121	9010	1972151.8250	601418.6590
8167a	1968633.3220	618629.2515	9011	1974773.3470	601410.2100
8168a	1969511.9023	618629.7153	9012	1977410.6490	601401.4800
8169a	1968633.2027	621272.7165	9013	1980067.7650	601408.3600
8170a	1969511.9519	621271.7219	9014	1982721.2230	601415.5070
8171a	1969511.0884	623915.1963	9015	1985360.9650	601425.0970
8172a	1968632.7661	623915.8469	9016	1988002.4331	601434.6931
8173a	1968631.8603	626558.6399	9017	1972151.4380	604070.8900
8174a	1969509.3073	626560.0162	9018	1974779.2248	604077.4383
8175a	1974106.1854	622575.6524	9019	1977407.2874	604083.9872
8176a	1972757.1477	625141.3899	9020	1980082.3680	604063.9240
8177a	1972825.0925	625179.0976	9021	1982731.3420	604068.9490
8178a	1973419.7924	627888.6910	9022	1985365.6870	604077.6000
8179a	1978719.5575	622598.1905	9023	1987998.6250	604086.1420
8180a	1977893.5882	622599.2778	9024	1972150.9930	606722.9760
8181a	1978716.6502	623918.1988	9025	1974777.8560	606715.4560
8182a	1977906.8619	623919.7321	9026	1977421.7683	606718.1934
8183a	1977395.0278	623920.7013	9027	1980098.6250	606719.8990
8184a	1980542.5174	625234.4453	9028	1982742.3027	606721.5835
8185a	1982067.6000	625232.9547	9029	1985368.6550	606730.2940
8186a	1982078.6747	625360.5095	9030	1987994.8150	606738.9283
8187a	1978726.9215	637137.0010	9031	1972151.5600	609360.2060
8188a	1978095.9922	637137.1553	9032	1974774.8469	609365.4703
8189a	1977407.1268	637137.3238	9033	1977417.2540	609370.7730
8190a	1978731.6455	638462.3461	9034	1980081.9910	609373.0260
8191a	1978113.2257	638461.7885	9035	1982724.3449	609374.4591
8192a	1975625.0478	612342.5569	9036	1972152.1270	611997.4360
8193a	1975625.5535	612342.5202	9037	1974771.8420	612011.7490
8269a	1973406.1697	622590.5003	9038	1977412.7370	612024.9660
8574a	1984620.8157	601452.4082	9039	1980065.3570	612026.1530
8623a	1977183.2501	603876.8361	9040	1982706.3871	612027.3348
8624a	1977143.6481	604176.0176	9041	1972153.2665	614654.8675
8625a	1977020.2404	604309.6753	9042	1974771.9766	614659.7111
8626a	1976762.6749	605249.0285	9043	1977412.4890	614664.5950
8738a	1975586.2195	610691.5304	9044	1972154.4060	617312.2990
8739a	1975670.1969	610691.7521	9045	1974771.8050	617306.8570

COORDINATE POINT LIST

SWO 4380(1) J/P 24428(04)

PT NO.	EASTING	NORTHING	PT NO.	EASTING	NORTHING
9046	1977412.2413	617301.3671	9095	1968633.2368	617307.5190
9047	1972153.9605	619949.9215	9096	1969511.8774	617308.7117
9048	1974768.9904	619945.6544	9097	1968633.4260	619752.0860
9049	1977406.4254	619941.3507	9098	1968633.4300	619804.2260
9050	1972153.5150	622587.5440	9099	1968633.4073	619950.9840
9051	1974766.1560	622593.7100	9100	1969511.9271	619950.7188
9052	1977400.5587	622599.9273	9101	1968633.0283	622399.0890
9053	1980037.3437	622596.4536	9102	1968633.0215	622443.3090
9054	1982681.1310	622593.2390	9103	1968632.9981	622594.4490
9055	1972150.1025	625238.6185	9104	1969511.9768	622592.7250
9056	1974753.0120	625240.4660	9105	1968632.6204	625034.8720
9057	1977389.4869	625241.4753	9106	1968632.6130	625082.3920
9058	1980038.4430	625234.9380	9107	1968632.5341	625237.2448
9059	1982679.0560	625232.3570	9108	1969510.2000	625237.5875
9060	1972146.6900	627889.6930	9109	1968631.2921	627675.4350
9061	1974739.7920	627887.6520	9110	1968631.2680	627722.2950
9062	1977378.3940	627885.6720	9111	1968631.1870	627880.0350
9063	1980037.3940	627878.7910	9112	1969508.4140	627882.4450
9064	1982677.3700	627872.1090			
9065	1977368.1120	630525.9490			
9066	1980034.5485	630523.0395			
9067	1982678.4040	630520.1350			
9068	1977393.5690	633165.8270			
9069	1980031.7033	633166.9807			
9070	1982680.4540	633168.1390			
9071	1977402.6075	635813.4915			
9072	1980038.6957	635809.8418			
9073	1982682.3755	635808.5983			
9074	1977411.6460	638461.1560			
9075	1980033.6780	638463.5200			
9076	1982681.3090	638165.6540			
9077	1968632.4054	606543.8710			
9078	1968632.4090	606611.1910			
9079	1968632.4172	606716.7910			
9080	1969514.3682	606718.3413			
9081	1968632.6068	609166.6380			
9082	1968632.6132	609249.7980			
9083	1968632.6222	609365.6280			
9084	1969513.4280	609364.2708			
9085	1968632.8103	611796.6650			
9086	1968632.8174	611888.4050			
9087	1968632.8272	612014.4650			
9088	1969512.4879	612010.2085			
9089	1968633.0147	614437.9120			
9090	1968633.0216	614527.0120			
9091	1968633.0319	614659.5250			
9092	1969512.1828	614658.3618			
9093	1968633.2214	617108.8590			
9094	1968633.2258	617165.6190			

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

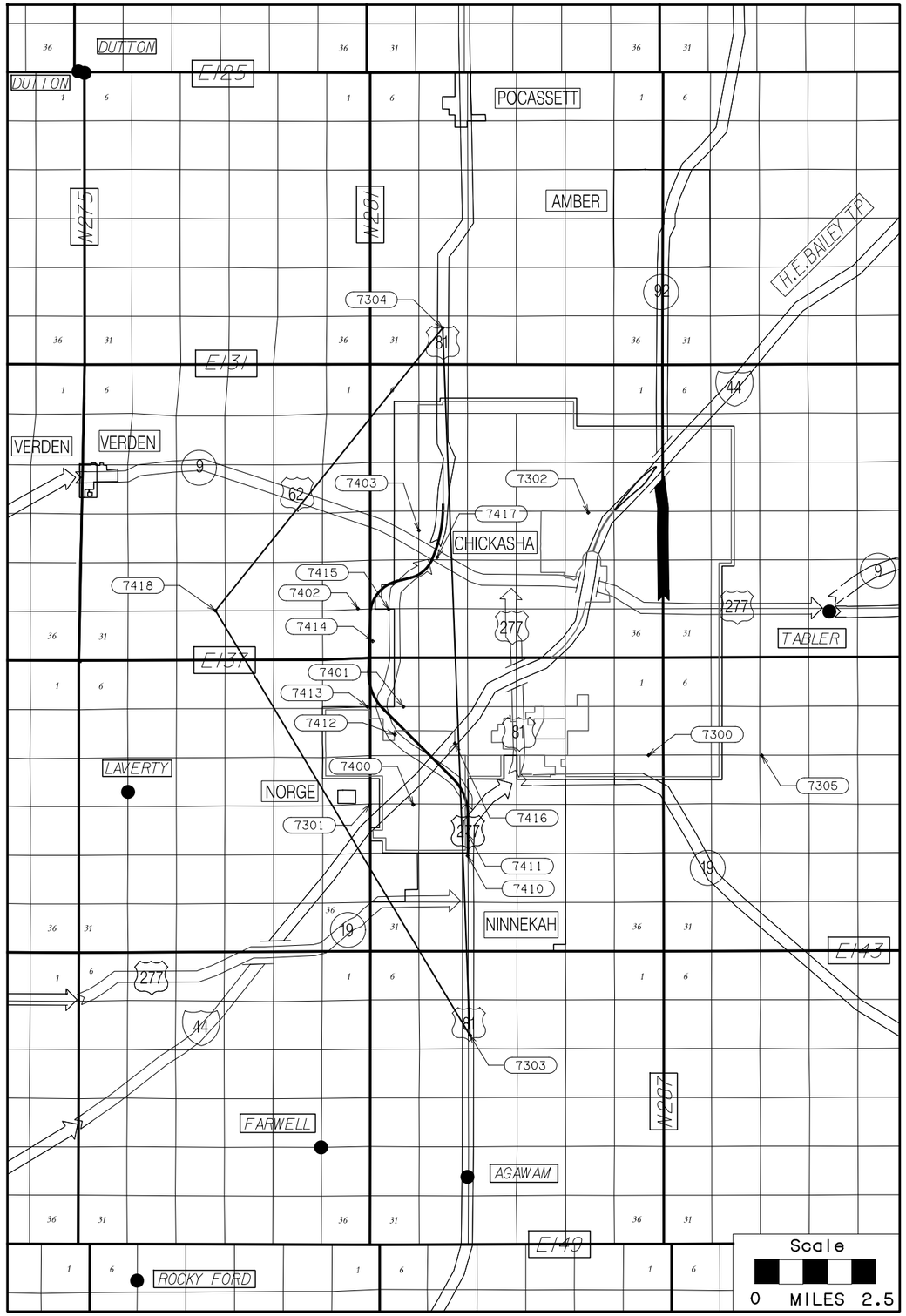
PLS	JTB	
DRAWN	JTB	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SDS 13 OF 76

SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S13



Network Adjustment for "D 214" (7303)

NGS OPUS-PROJECTS NETWORK ADJUSTMENT REPORT

All coordinate accuracies reported here are 1 times the formal uncertainties from the solution. For additional information: geodesy.noaa.gov/OPUS/Using_OPUS-Projects.html#accuracy

These positions were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

SUBMITTED BY:	bwebb
SOLUTION FILE NAME:	network-D214final.sum
SOLUTION SOFTWARE:	GPSCOM(1210.24)
SOLUTION DATE:	2015-05-13T10:31:17 UTC
STANDARD ERROR OF UNIT WEIGHT:	0.677
TOTAL NUMBER OF OBSERVATIONS:	60076
TOTAL NUMBER OF MARKS:	9
NUMBER OF CONSTRAINED MARKS:	8
START TIME:	2015-04-09T17:33:00 GPS
STOP TIME:	2015-04-09T23:32:00 GPS
FREQUENCY:	L1-ONLY TO ION-TREE [BY BASELINE LENGTH]
OBSERVATION INTERVAL:	30 s
ELEVATION CUTOFF:	15 deg
TROPO INTERVAL:	1800 s [STEP-OFFSET PARAMETERIZATION]
DD CORRELATIONS:	ON

INCLUDED SOLUTION	RMS	SOFTWARE	RUN DATE
1) 2015-099 D214A	1.2 cm	page5(1404.11)	2015-05-13T10:05 UTC
2) 2015-099 D214B	1.2 cm	page5(1404.11)	2015-05-13T10:15 UTC

BASELINE	LENGTH	RMS	OBS	OMITTED	FIXED IN SOLUTION(S)
7125-5978	13.342 km	1.8 cm	4110	4.7%	100.0% 1, 2
poca-5978	23.356 km	1.0 cm	7976	1.4%	100.0% 1, 2
okao-5978	32.132 km	1.3 cm	8248	1.3%	100.0% 1, 2
oklw-5978	56.750 km	1.2 cm	7298	10.6%	100.0% 1, 2
okdt-5978	75.334 km	1.1 cm	8098	2.2%	100.0% 1, 2
wmok-5978	78.382 km	1.0 cm	8256	1.1%	94.4% 1, 2
okar-5978	109.824 km	1.4 cm	8152	2.3%	95.0% 1, 2
okcl-5978	112.090 km	1.1 cm	7938	2.9%	100.0% 1, 2

UNCONSTRAINED MARKS

MARK: 5978 (5978 1)

	NAD_83(2011) (2010.0000)		IGS08 (2015.2710)	
REF FRAME:				
X:	-724344.945 m	0.001 m	-724345.753 m	0.001 m
Y:	-5185621.433 m	0.004 m	-5185620.031 m	0.004 m
Z:	3630542.442 m	0.004 m	3630542.292 m	0.004 m
LAT:	34 55 02.21320	0.002 m	34 55 02.23293	0.002 m
E LON:	262 02 53.46469	0.001 m	262 02 53.42551	0.001 m
W LON:	97 57 06.53531	0.001 m	97 57 06.57449	0.001 m
EL HGT:	343.311 m	0.005 m	342.179 m	0.005 m
ORTHO HGT:	369.539 m	0.010 m (H = h - N WHERE N = GEOID12A HGT)		

	UTM COORDINATES (UTM (Zone 14))	STATE PLANE COORDINATES (SPC (3502 OK S))
NORTHING (Y)	3864371.293 m	175699.868 m
EASTING (X)	595746.595 m	604402.901 m
CONVERGENCE	0.60001940 deg	0.02735040 deg
POINT SCALE	0.99971298	0.99993279
COMBINED FACTOR	0.99965911	0.99983891

US NATIONAL GRID DESIGNATOR: 14SND9574664371 (NAD 83)

Network Adjustment for "D 214" (7303)

CONSTRAINED MARKS

MARK: 7125 (7125 1)
CONSTRAIN: VER-ONLY NORMAL
ADJUST X: -0.004m (0.001m) Y: -0.045m (0.004m) Z: 0.042m (0.003m)
ADJUST N: 0.008m (0.002m) E: 0.002m (0.001m) H: 0.061m (0.005m)

	NAD_83(2011) (2010.0000)		IGS08 (2015.2710)	
REF FRAME:				
X:	-714059.069 m	0.001 m	-714059.878 m	0.001 m
Y:	-5181677.945 m	0.004 m	-5181676.544 m	0.004 m
Z:	3638070.518 m	0.003 m	3638070.370 m	0.003 m
LAT:	35 00 01.31683	0.002 m	35 00 01.33667	0.002 m
E LON:	262 09 13.66416	0.001 m	262 09 13.62501	0.001 m
W LON:	97 50 46.33584	0.001 m	97 50 46.37499	0.001 m
EL HGT:	297.023 m	0.005 m	295.892 m	0.005 m
ORTHO HGT:	323.343 m	0.010 m (H = h - N WHERE N = GEOID12A HGT)		

	UTM COORDINATES (UTM (Zone 14))	STATE PLANE COORDINATES (SPC (3502 OK S))
NORTHING (Y)	3873691.742 m	184926.481 m
EASTING (X)	605287.744 m	614039.121 m
CONVERGENCE	0.66185665 deg	0.08723695 deg
POINT SCALE	0.99973662	0.99991225
COMBINED FACTOR	0.99969061	0.99991563

US NATIONAL GRID DESIGNATOR: 14SPD0528773691 (NAD 83)

MARK: okao (okao a 2)
CONSTRAIN: HOR-ONLY NORMAL
ADJUST X: -0.010m (0.001m) Y: -0.042m (0.004m) Z: 0.027m (0.004m)
ADJUST N: -0.003m (0.002m) E: -0.004m (0.001m) H: 0.051m (0.005m)

	NAD_83(2011) (2010.0000)		IGS08 (2015.2709)	
REF FRAME:				
X:	-749498.255 m	0.001 m	-749499.090 m	0.001 m
Y:	-5171812.793 m	0.004 m	-5171811.389 m	0.004 m
Z:	3645002.517 m	0.004 m	3645002.390 m	0.004 m
LAT:	35 04 35.04542	0.002 m	35 04 35.06527	0.002 m
E LON:	261 45 14.79918	0.001 m	261 45 14.76038	0.001 m
W LON:	98 14 45.20022	0.001 m	98 14 45.23962	0.001 m
EL HGT:	340.497 m	0.005 m	339.370 m	0.005 m
ORTHO HGT:	367.304 m	0.010 m (H = h - N WHERE N = GEOID12A HGT)		

	UTM COORDINATES (UTM (Zone 14))	STATE PLANE COORDINATES (SPC (3502 OK S))
NORTHING (Y)	3881775.765 m	193378.324 m
EASTING (X)	568750.517 m	577574.765 m
CONVERGENCE	0.43338065 deg	-0.13957067 deg
POINT SCALE	0.99965815	0.99997275
COMBINED FACTOR	0.99960482	0.99991931

US NATIONAL GRID DESIGNATOR: 14SND6875081775 (NAD 83)

MARK: okar (okar a 3)
CONSTRAIN: HOR-ONLY NORMAL
ADJUST X: -0.007m (0.001m) Y: -0.039m (0.004m) Z: 0.027m (0.004m)
ADJUST N: 0.000m (0.002m) E: -0.002m (0.001m) H: 0.048m (0.005m)

	NAD_83(2011) (2010.0000)		IGS08 (2015.2709)	
REF FRAME:				
X:	-659318.976 m	0.001 m	-659319.782 m	0.001 m
Y:	-5241679.389 m	0.004 m	-5241677.972 m	0.004 m
Z:	3562055.730 m	0.004 m	3562055.575 m	0.004 m
LAT:	34 10 06.45066	0.002 m	34 10 06.47030	0.002 m
E LON:	262 49 50.74924	0.001 m	262 49 50.71110	0.001 m
W LON:	97 10 09.25076	0.001 m	97 10 09.28890	0.001 m
EL HGT:	236.971 m	0.005 m	235.804 m	0.005 m
ORTHO HGT:	263.065 m	0.010 m (H = h - N WHERE N = GEOID12A HGT)		

	UTM COORDINATES (UTM (Zone 14))	STATE PLANE COORDINATES (SPC (3502 OK S))

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

PLS	JTB	
DRAWN	JTB	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SDS 14 OF 76

SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S14

Network Adjustment for "D 214" (7303)

```
NORTHING (Y)      3782348.990 m          92950.122 m
EASTING (X)        668743.272 m         676594.319 m
CONVERGENCE          1.02845104 deg        0.47151532 deg
POINT SCALE          0.99995101            0.99999210
COMBINED FACTOR      0.99991381            0.99990490

US NATIONAL GRID DESIGNATOR: 14SPC6874382348 (NAD 83)
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
MARK:        okcl (okcl a  1)
CONSTRAIN: HOR-ONLY NORMAL
ADJUST  X:   -0 004m (0.001m)   Y:   -0.049m (0.004m)   Z:    0.030m (0.004m)
ADJUST  N:   -0 003m (0.002m)   E:    0.004m (0.001m)   H:    0.057m (0.005m)

REF FRAME:        NAD_83(2011) (2010.0000)                 IGS08 (2015.2709)
X:                  -810881.810 m    0.001 m          -810882.622 m    0.001 m
Y:                 -5136263.213 m    0.004 m         -5136263.819 m    0.004 m
Z:                  3681919.306 m    0.004 m          3681919.167 m    0.004 m
LAT:             35 28 59.34891      0.002 m       35 28 59.36880      0.002 m
E LON:          261 01 42.75365      0.001 m      261 01 42.71322      0.001 m
W LON:           98 58 17.24635      0.001 m       98 58 17.28678      0.001 m
EL HGT:                470.750 m     0.005 m                469.651 m    0.005 m
ORTHO HGT:             497.952 m     0.010 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3501 OK N)
NORTHING (Y)        3926625.352 m          54048.585 m
EASTING (X)          502589.165 m         511841.910 m
CONVERGENCE          0.01656799 deg       -0.57330269 deg
POINT SCALE          0.99960008            1.00001621
COMBINED FACTOR      0.99952623            0.99994233

US NATIONAL GRID DESIGNATOR: 14SNE0258926625 (NAD 83)
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
MARK:        okdt (okdt a  4)
CONSTRAIN: HOR-ONLY NORMAL
ADJUST  X:   -0 005m (0.001m)   Y:   -0.040m (0.004m)   Z:    0.032m (0.004m)
ADJUST  N:    0 002m (0.002m)   E:    0.000m (0.001m)   H:    0.051m (0.005m)

REF FRAME:        NAD_83(2011) (2010.0000)                 IGS08 (2015.2709)
X:                  -679342.228 m    0.001 m          -679343.043 m    0.001 m
Y:                 -5154773.611 m    0.004 m         -5154772.208 m    0.004 m
Z:                  3682488.902 m    0.004 m          3682488.747 m    0.004 m
LAT:             35 29 24.45381      0.002 m       35 29 24.47392      0.002 m
E LON:          262 29 32.33364      0.001 m      262 29 32.29433      0.001 m
W LON:           97 30 27.66636      0.001 m       97 30 27.70567      0.001 m
EL HGT:                366.628 m     0.005 m                365.492 m    0.005 m
ORTHO HGT:             393.628 m     0.010 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3501 OK N)
NORTHING (Y)        3928421.957 m          54494.520 m
EASTING (X)          635364.257 m         644673.366 m
CONVERGENCE          0.86651393 deg        0.29053820 deg
POINT SCALE          0.99982581            1.00001477
COMBINED FACTOR      0.99976828            0.99991723

US NATIONAL GRID DESIGNATOR: 14SPE3536428421 (NAD 83)
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
MARK:        oklw (oklw a  1)
CONSTRAIN: HOR-ONLY NORMAL
ADJUST  X:   -0 006m (0.001m)   Y:   -0.037m (0.004m)   Z:    0.032m (0.004m)
ADJUST  N:    0 005m (0.002m)   E:   -0.001m (0.001m)   H:    0.049m (0.005m)

REF FRAME:        NAD_83(2011) (2010.0000)                 IGS08 (2015.2709)
X:                  -768964.438 m    0.001 m          -768965.241 m    0.001 m
Y:                 -5201189.562 m    0.004 m         -5201188.165 m    0.004 m
Z:                  3599120.822 m    0.004 m          3599120.674 m    0.004 m
LAT:             34 34 21.98765      0.002 m       34 34 22.00698      0.002 m
E LON:          261 35 24.31094      0.001 m      261 35 24.27175      0.001 m
W LON:           98 24 35.68906      0.001 m       98 24 35.72825      0.001 m
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Network Adjustment for "Pocasset" (7304)

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                NGS OPUS-PROJECTS NETWORK ADJUSTMENT REPORT
                ==========================================

All coordinate accuracies reported here are 1 times the formal
uncertainties from the solution. For additional information:
geodesy.noaa.gov/OPUS/using_OPUS-Projects.html#accuracy

These positions were computed without any knowledge by the National
Geodetic Survey regarding the equipment or field operating procedures used.

SUBMITTED BY:                   bweb
SOLUTION FILE NAME:             network-PocaFinal.sum
SOLUTION SOFTWARE:              GPSCOM(1210.24)
SOLUTION DATE:                  2015-05-13T11:50:06 UTC
STANDARD ERROR OF UNIT WEIGHT: 0.671
TOTAL NUMBER OF OBSERVATIONS:  81106
TOTAL NUMBER OF MARKS:         9
NUMBER OF CONSTRAINED MARKS:   8

START TIME:                     2015-04-09T15:27:00 GPS
STOP TIME:                      2015-04-09T23:31:00 GPS
FREQUENCY:                      L1-ONLY TO ION-FREE [BY BASELINE LENGTH]
OBSERVATION INTERVAL:           30 s
ELEVATION CUTOFF:               15 deg
TROPO INTERVAL:                 1800 s [STEP-OFFSET PARAMETERIZATION]
DD CORRELATIONS:                ON

    INCLUDED SOLUTION              RMS    SOFTWARE          RUN DATE
-------------------------------------------------------------------------------
 1) 2015-099 POCAa                 1.2 cm  page5(1404.11)   2015-05-13T11:27 UTC
 2) 2015-099 POCAB                 1.2 cm  page5(1404.11)   2015-05-13T11:36 UTC

  BASELINE      LENGTH        RMS       OBS   OMITTED    FIXED IN SOLUTION(S)
-------------------------------------------------------------------------------
 7125-poca     17.609 km     1.9 cm     4380     2.2%   100.0%   1, 2
 poca-5978     23.356 km     1.0 cm     7992     1.2%   100.0%   1, 2
 okao-poca     26.544 km     1.1 cm    11896     0.6%    96.2%   1, 2
 okdt-poca     57.629 km     1.1 cm    11490     3.0%   100.0%   1, 2
 oklw-poca     73.968 km     1.2 cm    10392     9.9%    91.7%   1, 2
 wmok-poca     86.425 km     0.9 cm    11848     0.9%    96.2%   1, 2
 okcl-poca     99.966 km     1.0 cm    11346     3.5%   100.0%   1, 2
 okar-poca    128.836 km     1.4 cm    11762     1.3%    92.6%   1, 2
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
UNCONSTRAINED MARKS
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
MARK:        poca (poca    1)

REF FRAME:        NAD_83(2011) (2010.0000)                 IGS08 (2015.2708)
X:                  -723367.281 m    0.001 m          -723368.091 m    0.001 m
Y:                 -5172226.607 m    0.004 m         -5172225.208 m    0.004 m
Z:                  3649650.888 m    0.003 m          3649650.741 m    0.003 m
LAT:             35 07 39.52758      0.002 m       35 07 39.54745      0.002 m
E LON:          262 02 18.52037      0.001 m      262 02 18.48104      0.001 m
W LON:           97 57 41.47963      0.001 m       97 57 41.51896      0.001 m
EL HGT:                334.590 m     0.010 m                333.864 m    0.005 m
ORTHO HGT:             361.690 m     0.010 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3502 OK S)
NORTHING (Y)        3887692.146 m          199036.797 m
EASTING (X)          594617.194 m          603507.044 m
CONVERGENCE          0.59758450 deg        0.02184069 deg
POINT SCALE          0.99971033            0.99980082
COMBINED FACTOR      0.99965777            0.99992824

US NATIONAL GRID DESIGNATOR: 14SND9461787692 (NAD 83)
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
CONSTRAINED MARKS
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
```


Network Adjustment for "Pocasset" (7304)

```
POINT SCALE          0.99965825            0.99997275
COMBINED FACTOR      0.99960482            0.99991931

US NATIONAL GRID DESIGNATOR: 14SND6875081775 (NAD 83)
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
MARK:        okar (okar a  3)
CONSTRAIN: HOR-ONLY NORMAL
ADJUST  X:   -0.010m (0.001m)   Y:   -0.050m (0.004m)   Z:    0.036m (0.004m)
ADJUST  N:    0.001m (0.002m)   E:   -0.004m (0.001m)   H:    0.062m (0.005m)

REF FRAME:        NAD_83(2011) (2010.0000)                 IGS08 (2015.2707)
X:                  -659318.978 m    0.001 m          -659319.784 m    0.001 m
Y:                 -5241679.399 m    0.004 m         -5241677.982 m    0.004 m
Z:                  3562055.738 m    0.004 m          3562055.584 m    0.004 m
LAT:             34 10 06.45069      0.002 m       34 10 06.47034      0.002 m
E LON:          262 49 50.74921      0.001 m      262 49 50.71106      0.001 m
W LON:           97 10 09.25079      0.001 m       97 10 09.28894      0.001 m
EL HGT:                236.984 m     0.005 m                235.817 m    0.005 m
ORTHO HGT:             263.098 m     0.010 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3502 OK S)
NORTHING (Y)        3782348.990 m          92950.123 m
EASTING (X)          668743.271 m         676594.319 m
CONVERGENCE          1.02845104 deg        0.47151531 deg
POINT SCALE          0.99995101            0.99999210
COMBINED FACTOR      0.99991381            0.99997490

US NATIONAL GRID DESIGNATOR: 14SPC6874382348 (NAD 83)
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
MARK:        okcl (okcl a  1)
CONSTRAIN: HOR-ONLY NORMAL
ADJUST  X:   -0.006m (0.001m)   Y:   -0.061m (0.004m)   Z:    0.037m (0.004m)
ADJUST  N:   -0.005m (0.002m)   E:    0.004m (0.001m)   H:    0.071m (0.005m)

REF FRAME:        NAD_83(2011) (2010.0000)                 IGS08 (2015.2707)
X:                  -810881.812 m    0.001 m          -810882.623 m    0.001 m
Y:                 -5136265.225 m    0.004 m         -5136263.831 m    0.004 m
Z:                  3681919.313 m    0.004 m          3681919.174 m    0.004 m
LAT:             35 28 59.34887      0.002 m       35 28 59.36874      0.002 m
E LON:          261 01 42.75365      0.001 m      261 01 42.71323      0.001 m
W LON:           98 58 17.24635      0.001 m       98 58 17.28677      0.001 m
EL HGT:                470.764 m     0.005 m                469.665 m    0.005 m
ORTHO HGT:             497.966 m     0.010 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3501 OK N)
NORTHING (Y)        3926625.351 m          54048.584 m
EASTING (X)          502589.165 m         511841.910 m
CONVERGENCE          0.01656799 deg       -0.57330269 deg
POINT SCALE          0.99960008            1.00001621
COMBINED FACTOR      0.99952622            0.99994232

US NATIONAL GRID DESIGNATOR: 14SNE0258926625 (NAD 83)
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
MARK:        okdt (okdt a  4)
CONSTRAIN: HOR-ONLY NORMAL
ADJUST  X:   -0.006m (0.001m)   Y:   -0.052m (0.004m)   Z:    0.040m (0.003m)
ADJUST  N:    0.002m (0.002m)   E:    0.001m (0.001m)   H:    0.066m (0.005m)

REF FRAME:        NAD_83(2011) (2010.0000)                 IGS08 (2015.2707)
X:                  -679342.229 m    0.001 m          -679343.044 m    0.001 m
Y:                 -5154773.623 m    0.004 m         -5154772.221 m    0.004 m
Z:                  3682488.911 m    0.003 m          3682488.756 m    0.003 m
LAT:             35 29 24.45382      0.002 m       35 29 24.47390      0.002 m
E LON:          262 29 32.33366      0.001 m      262 29 32.29435      0.001 m
W LON:           97 30 27.66634      0.001 m       97 30 27.70565      0.001 m
EL HGT:                366.643 m     0.005 m                365.507 m    0.005 m
ORTHO HGT:             393.643 m     0.010 m  (H = h - N WHERE N = GEOID12A HGT)
```


Network Adjustment for "D 214" (7303)

```
EL HGT:               314.751 m    0.005 m                313.626 m    0.005 m
ORTHO HGT:            340.377 m    0.010 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3502 OK S)
NORTHING (Y)        3825825.192 m          137559.215 m
EASTING (X)          554125.069 m          562388.795 m
CONVERGENCE          0.33485415 deg       -0.23267381 deg
POINT SCALE          0.99963611            0.99991596
COMBINED FACTOR      0.99958672            0.99989656

US NATIONAL GRID DESIGNATOR: 14SND5412525825 (NAD 83)
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
MARK:        poca (poca    1)
CONSTRAIN: VER-ONLY NORMAL
ADJUST  X:   -0 005m (0.001m)   Y:   -0.043m (0.004m)   Z:    0.031m (0.003m)
ADJUST  N:    0 000m (0.002m)   E:    0.001m (0.001m)   H:    0.053m (0.005m)

REF FRAME:        NAD_83(2011) (2010.0000)                 IGS08 (2015.2709)
X:                  -723367.278 m    0.001 m          -723368.088 m    0.001 m
Y:                 -5172226.594 m    0.004 m         -5172225.195 m    0.004 m
Z:                  3649650.880 m    0.003 m          3649650.733 m    0.003 m
LAT:             35 07 39.52761      0.002 m       35 07 39.54748      0.002 m
E LON:          262 02 18.52041      0.001 m      262 02 18.48109      0.001 m
W LON:           97 57 41.47959      0.001 m       97 57 41.51891      0.001 m
EL HGT:               334.975 m     0.005 m                333.849 m    0.005 m
ORTHO HGT:            361.675 m     0.010 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3502 OK S)
NORTHING (Y)        3887692.147 m          199036.798 m
EASTING (X)          594617.195 m          603507.046 m
CONVERGENCE          0.59758451 deg        0.02184069 deg
POINT SCALE          0.99971033            0.99980082
COMBINED FACTOR      0.99965777            0.99992824

US NATIONAL GRID DESIGNATOR: 14SND9461787692 (NAD 83)
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
MARK:        wmok (wmok a  1)
CONSTRAIN: HOR-ONLY NORMAL
ADJUST  X:   -0 007m (0.001m)   Y:   -0.048m (0.004m)   Z:    0.034m (0.004m)
ADJUST  N:   -0 000m (0.002m)   E:    0.000m (0.001m)   H:    0.059m (0.005m)

REF FRAME:        NAD_83(2011) (2010.0000)                 IGS08 (2015.2709)
X:                  -801019.801 m    0.001 m          -801020.609 m    0.001 m
Y:                 -5185937.833 m    0.004 m         -5185936.433 m    0.004 m
Z:                  3614276.354 m    0.004 m          3614276.203 m    0.004 m
LAT:             34 44 16.39680      0.002 m       34 44 16.41609      0.002 m
E LON:          261 13 10.14602      0.001 m      261 13 10.10622      0.001 m
W LON:           98 46 49.85398      0.001 m       98 46 49.89378      0.001 m
EL HGT:               468.568 m     0.005 m                467.446 m    0.005 m
ORTHO HGT:            493.948 m     0.010 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3502 OK S)
NORTHING (Y)        3843998.397 m          156074.790 m
EASTING (X)          520092.044 m          528526.788 m
CONVERGENCE          0.12506804 deg       -0.44303333 deg
POINT SCALE          0.99960498            0.99993953
COMBINED FACTOR      0.99953146            0.99985599

US NATIONAL GRID DESIGNATOR: 14SND2009243998 (NAD 83)
```


Network Adjustment for "Pocasset" (7304)

```
MARK:        5978 (5978    1)
CONSTRAIN: VER-ONLY NORMAL
ADJUST  X:   -0.004m (0.001m)   Y:   -0.051m (0.004m)   Z:    0.043m (0.003m)
ADJUST  N:    0.006m (0.002m)   E:    0.003m (0.001m)   H:    0.066m (0.005m)

REF FRAME:        NAD_83(2011) (2010.0000)                 IGS08 (2015.2709)
X:                  -724344.947 m    0.001 m          -724345.755 m    0.001 m
Y:                 -5185621.442 m    0.004 m         -5185620.041 m    0.004 m
Z:                  3630542.449 m    0.003 m          3630542.300 m    0.003 m
LAT:             34 55 02.21322      0.002 m       34 55 02.23293      0.002 m
E LON:          262 02 53.46466      0.001 m      262 02 53.42549      0.001 m
W LON:           97 57 06.53534      0.001 m       97 57 06.57451      0.001 m
EL HGT:               343.322 m     0.005 m                342.191 m    0.005 m
ORTHO HGT:            369.550 m     0.010 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3502 OK S)
NORTHING (Y)        3864371.294 m          175699.869 m
EASTING (X)          595746.594 m          604402.900 m
CONVERGENCE          0.60001939 deg        0.02731040 deg
POINT SCALE          0.99971298            0.99991279
COMBINED FACTOR      0.99965911            0.99983890

US NATIONAL GRID DESIGNATOR: 14SND9574664371 (NAD 83)
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
MARK:        7125 (7125    1)
CONSTRAIN: VER-ONLY NORMAL
ADJUST  X:   -0.004m (0.001m)   Y:   -0.051m (0.004m)   Z:    0.047m (0.003m)
ADJUST  N:    0.010m (0.002m)   E:    0.003m (0.001m)   H:    0.069m (0.005m)

REF FRAME:        NAD_83(2011) (2010.0000)                 IGS08 (2015.2710)
X:                  -714059.069 m    0.001 m          -714059.878 m    0.001 m
Y:                 -5181677.951 m    0.004 m         -5181676.550 m    0.004 m
Z:                  3638070.524 m    0.003 m          3638070.375 m    0.003 m
LAT:             35 00 01.31688      0.002 m       35 00 01.33671      0.002 m
E LON:          262 09 13.66419      0.001 m      262 09 13.62506      0.001 m
W LON:           97 50 46.33581      0.001 m       97 50 46.37494      0.001 m
EL HGT:               297.032 m     0.005 m                295.900 m    0.005 m
ORTHO HGT:            323.352 m     0.010 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3502 OK S)
NORTHING (Y)        3873691.743 m          184926.483 m
EASTING (X)          605287.745 m          614039.122 m
CONVERGENCE          0.66185686 deg        0.08729695 deg
POINT SCALE          0.99973662            0.99992225
COMBINED FACTOR      0.99969001            0.99991563

US NATIONAL GRID DESIGNATOR: 14SPD0528773691 (NAD 83)
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
MARK:        okao (okao a  2)
CONSTRAIN: HOR-ONLY NORMAL
ADJUST  X:   -0.011m (0.001m)   Y:   -0.050m (0.004m)   Z:    0.033m (0.003m)
ADJUST  N:   -0.003m (0.002m)   E:   -0.004m (0.001m)   H:    0.060m (0.005m)

REF FRAME:        NAD_83(2011) (2010.0000)                 IGS08 (2015.2707)
X:                  -749498.287 m    0.001 m          -749499.091 m    0.001 m
Y:                 -5171812.800 m    0.004 m         -5171811.397 m    0.004 m
Z:                  3645002.543 m    0.003 m          3645002.396 m    0.003 m
LAT:             35 04 35.04544      0.002 m       35 04 35.06527      0.002 m
E LON:          261 45 14.79974      0.001 m      261 45 14.76037      0.001 m
W LON:           98 14 45.20026      0.001 m       98 14 45.23963      0.001 m
EL HGT:               340.506 m     0.005 m                339.379 m    0.005 m
ORTHO HGT:            367.313 m     0.010 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3502 OK S)
NORTHING (Y)        3881775.765 m          193378.325 m
EASTING (X)          568750.536 m          577574.764 m
CONVERGENCE          0.43338064 deg       -0.13957068 deg
```


Network Adjustment for "Pocasset" (7304)

```
                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3501 OK N)
NORTHING (Y)        3926421.957 m          54494.520 m
EASTING (X)          635364.257 m         644673.366 m
CONVERGENCE          0.86651394 deg        0.29053820 deg
POINT SCALE          0.99982581            1.00001477
COMBINED FACTOR      0.99976828            0.99991722

US NATIONAL GRID DESIGNATOR: 14SPE3536428421 (NAD 83)
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
MARK:        oklw (oklw a  1)
CONSTRAIN: HOR-ONLY NORMAL
ADJUST  X:   -0.008m (0.001m)   Y:   -0.048m (0.004m)   Z:    0.039m (0.004m)
ADJUST  N:    0.005m (0.002m)   E:   -0.001m (0.001m)   H:    0.062m (0.005m)

REF FRAME:        NAD_83(2011) (2010.0000)                 IGS08 (2015.2707)
X:                  -768964.441 m    0.001 m          -768965.244 m    0.001 m
Y:                 -5201189.573 m    0.004 m         -5201188.175 m    0.004 m
Z:                  3599120.829 m    0.004 m          3599120.681 m    0.004 m
LAT:             34 34 21.98763      0.002 m       34 34 22.00696      0.002 m
E LON:          261 35 24.31089      0.001 m      261 35 24.27172      0.001 m
W LON:           98 24 35.68911      0.001 m       98 24 35.72828      0.001 m
EL HGT:               314.765 m     0.005 m                313.639 m    0.005 m
ORTHO HGT:            340.391 m     0.010 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3502 OK S)
NORTHING (Y)        3825825.192 m          137559.215 m
EASTING (X)          554125.069 m          562388.795 m
CONVERGENCE          0.33485414 deg       -0.23267382 deg
POINT SCALE          0.99963611            0.99991596
COMBINED FACTOR      0.99958672            0.99989656

US NATIONAL GRID DESIGNATOR: 14SND5412525825 (NAD 83)
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
MARK:        wmok (wmok a  1)
CONSTRAIN: HOR-ONLY NORMAL
ADJUST  X:   -0.007m (0.001m)   Y:   -0.059m (0.004m)   Z:    0.040m (0.004m)
ADJUST  N:   -0.001m (0.002m)   E:    0.002m (0.001m)   H:    0.072m (0.005m)

REF FRAME:        NAD_83(2011) (2010.0000)                 IGS08 (2015.2707)
X:                  -801019.802 m    0.001 m          -801020.610 m    0.001 m
Y:                 -5185937.843 m    0.004 m         -5185936.441 m    0.004 m
Z:                  3614276.361 m    0.004 m          3614276.210 m    0.004 m
LAT:             34 44 16.39680      0.002 m       34 44 16.41608      0.002 m
E LON:          261 13 10.14604      0.001 m      261 13 10.10627      0.001 m
W LON:           98 46 49.85396      0.001 m       98 46 49.89373      0.001 m
EL HGT:               468.580 m     0.005 m                467.459 m    0.005 m
ORTHO HGT:            493.960 m     0.010 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3502 OK S)
NORTHING (Y)        3843998.397 m          156074.790 m
EASTING (X)          520092.045 m          528526.788 m
CONVERGENCE          0.12506804 deg       -0.44303332 deg
POINT SCALE          0.99960498            0.99993953
COMBINED FACTOR      0.99953146            0.99985599

US NATIONAL GRID DESIGNATOR: 14SND2009243998 (NAD 83)
```


OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

PLS	JTB	
DRAWN	JTB	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SDS 15 OF 76

SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S15

```
                NGS OPUS-PROJECTS NETWORK ADJUSTMENT REPORT
                ===========================================

All coordinate accuracies reported here are 1 times the formal
uncertainties from the solution. For additional information:
geodesy.noaa.gov/OPUS/using_OPUS-Projects.html#accuracy

These positions were computed without any knowledge by the national
Geodetic Survey regarding the equipment or field operating procedures used.

SUBMITTED BY:                   bwebb
SOLUTION FILE NAME:             network-115final.sum
SOLUTION SOFTWARE:              GPSCOM(1210.24)
SOLUTION DATE:                  2015-05-13T13:49:07 UTC
STANDARD ERROR OF UNIT WEIGHT: 0.687
TOTAL NUMBER OF OBSERVATIONS:  34926
TOTAL NUMBER OF MARKS:         10
NUMBER OF CONSTRAINED MARKS:   9

START TIME:                     2015-04-09T21:24:30 GPS
STOP TIME:                      2015-04-09T23:55:00 GPS
FREQUENCY:                      LI-ONLY TO ION-FREE [BY BASELINE LENGTH]
OBSERVATION INTERVAL:           30 s
ELEVATION CUTOFF:               15 deg
TROPO INTERVAL:                 1800 s [STEP-OFFSET PARAMETERIZATION]
DD CORRELATIONS:                ON

    INCLUDED SOLUTION              RMS     SOFTWARE          RUN DATE
-------------------------------------------------------------------------
 1) 2015-099 115a                  1.2 cm  page5(1404.11)    2015-05-13T13:28 UTC
 2) 2015-099 115b                  1.2 cm  page5(1404.11)    2015-05-13T13:37 UTC

  BASELINE      LENGTH        RMS       OBS   OMITTED    FIXED IN SOLUTION(S)
-------------------------------------------------------------------------------
 poca-0115      11.971 km     1.0 cm    3490     0.8%   100.0%    1, 2
 5978-0115       6.330 km     1.0 cm    3518     0.9%   100.0%    1, 2
 7125-0115       8.654 km     1.8 cm    4096     1.0%   100.0%    1, 2
 okao-0115       8.798 km     1.2 cm    4084     1.7%   100.0%    1, 2
 okjw-0115      82.051 km     1.2 cm    3644     8.6%    91.7%    1, 2
 okdt-0115      69.531 km     1.2 cm    3960     2.2%   100.0%    1, 2
 wmok-0115      75.406 km     0.9 cm    4082     1.5%   100.0%    1, 2
 okcl-0115      97.499 km     1.1 cm    3942     2.0%   100.0%    1, 2
 okar-0115     125.929 km     1.1 cm    4110     0.8%   100.0%    1, 2
********************************************************************************
UNCONSTRAINED MARKS
................................................................................
MARK:       0115 (0115    1)

REF FRAME:        NAD_83(2011) (2010.0000)              IGS08 (2015.2711)
X:                  -731540.693 m    0.001 m          -731541.502 m    0.001 m
Y:                 -5176505.319 m    0.004 m         -5176503.919 m    0.004 m
Z:                  3642021.900 m    0.003 m          3642021.752 m    0.003 m
LAT:             35 02 36.71782      0.002 m       35 02 36.73759      0.002 m
E LON:          261 57 22.53418      0.001 m      261 57 22.49487      0.001 m
W LON:           98 02 37.46582      0.001 m       98 02 37.50513      0.001 m
EL HGT:                348.132 m     0.004 m                347.005 m    0.004 m
ORTHO HGT:             374.685 m     0.009 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3502 OK S)
NORTHING (Y)       3878288.625 m          189705.466 m
EASTING (X)         587215.413 m          596009.253 m
CONVERGENCE          0.54911756 deg        -0.02487784 deg
POINT SCALE          0.99969374             0.99990799
COMBINED FACTOR      0.99963911             0.99991335

US NATIONAL GRID DESIGNATOR: 14SND8721578288 (NAD 83)
```



```
********************************************************************************
 CONSTRAINED MARKS
 ..............................................................................
MARK:       5978 (5978    1)
CONSTRAIN: VER-ONLY NORMAL
ADJUST  X:    0.002m (0.001m)   Y:   -0.022m (0.004m)   Z:    0.022m (0.003m)
ADJUST  N:    0.006m (0.002m)   E:    0.005m (0.001m)   H:    0.030m (0.004m)

REF FRAME:        NAD_83(2011) (2010.0000)              IGS08 (2015.2711)
X:                  -724344.941 m    0.001 m          -724345.749 m    0.001 m
Y:                 -5185621.413 m    0.004 m         -5185620.012 m    0.004 m
Z:                  3630542.428 m    0.003 m          3630542.279 m    0.003 m
LAT:             34 55 02.21321      0.002 m       34 55 02.23295      0.002 m
E LON:          262 02 53.46474      0.001 m      262 02 53.42556      0.001 m
W LON:           97 57 06.53526      0.001 m       97 57 06.57444      0.001 m
EL HGT:                343.286 m     0.004 m                342.155 m    0.004 m
ORTHO HGT:             369.514 m     0.009 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3502 OK S)
NORTHING (Y)       3864371.293 m          175699.868 m
EASTING (X)         595746.596 m          604402.902 m
CONVERGENCE          0.60001941 deg        0.02731041 deg
POINT SCALE          0.99971298            0.99991279
COMBINED FACTOR      0.99965911            0.99989891

US NATIONAL GRID DESIGNATOR: 14SND9574664371 (NAD 83)
********************************************************************************
MARK:       7125 (7125    1)
CONSTRAIN: VER-ONLY NORMAL
ADJUST  X:   -0.000m (0.001m)   Y:   -0.032m (0.004m)   Z:    0.033m (0.003m)
ADJUST  N:    0.008m (0.002m)   E:    0.004m (0.001m)   H:    0.045m (0.004m)

REF FRAME:        NAD_83(2011) (2010.0000)              IGS08 (2015.2711)
X:                  -714059.066 m    0.001 m          -714059.874 m    0.001 m
Y:                 -5181677.932 m    0.004 m         -5181676.531 m    0.004 m
Z:                  3638070.509 m    0.003 m          3638070.361 m    0.003 m
LAT:             35 00 01.31684      0.002 m       35 00 01.33667      0.002 m
E LON:          262 09 13.66421      0.001 m      262 09 13.62509      0.001 m
W LON:           97 50 46.33579      0.001 m       97 50 46.37491      0.001 m
EL HGT:                297.007 m     0.004 m                295.876 m    0.004 m
ORTHO HGT:             323.327 m     0.009 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3502 OK S)
NORTHING (Y)       3873691.742 m          184926.481 m
EASTING (X)         605287.745 m          614039.122 m
CONVERGENCE          0.66185686 deg        0.08729695 deg
POINT SCALE          0.99973662            0.99990225
COMBINED FACTOR      0.99969001            0.99991563

US NATIONAL GRID DESIGNATOR: 14SPD0528773691 (NAD 83)
********************************************************************************
MARK:       okao (okao a  2)
CONSTRAIN: HOR-ONLY NORMAL
ADJUST  X:   -0.006m (0.001m)   Y:   -0.027m (0.004m)   Z:    0.013m (0.003m)
ADJUST  N:   -0.006m (0.002m)   E:   -0.002m (0.001m)   H:    0.030m (0.004m)

REF FRAME:        NAD_83(2011) (2010.0000)              IGS08 (2015.2711)
X:                  -749498.282 m    0.001 m          -749499.087 m    0.001 m
Y:                 -5171812.778 m    0.004 m         -5171811.374 m    0.004 m
Z:                  3645002.523 m    0.003 m          3645002.376 m    0.003 m
LAT:             35 04 35.04533      0.002 m       35 04 35.06518      0.002 m
E LON:          261 45 14.79981      0.001 m      261 45 14.76043      0.001 m
W LON:           98 14 45.20019      0.001 m       98 14 45.23957      0.001 m
EL HGT:                340.476 m     0.004 m                339.349 m    0.004 m
ORTHO HGT:             367.283 m     0.009 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3502 OK S)
```



```
NORTHING (Y)       3881775.762 m          193378.321 m
EASTING (X)         568750.538 m          577574.766 m
CONVERGENCE          0.43338066 deg        -0.13957066 deg
POINT SCALE          0.99965825             0.99997275
COMBINED FACTOR      0.99960483             0.99991931

US NATIONAL GRID DESIGNATOR: 14SND6875081775 (NAD 83)
********************************************************************************
MARK:       okar (okar a  3)
CONSTRAIN: HOR-ONLY NORMAL
ADJUST  X:   -0.006m (0.001m)   Y:   -0.024m (0.004m)   Z:    0.016m (0.003m)
ADJUST  N:   -0.000m (0.002m)   E:   -0.003m (0.001m)   H:    0.030m (0.004m)

REF FRAME:        NAD_83(2011) (2010.0000)              IGS08 (2015.2711)
X:                  -659318.974 m    0.001 m          -659319.780 m    0.001 m
Y:                 -5241679.374 m    0.004 m         -5241677.957 m    0.004 m
Z:                  3562055.719 m    0.003 m          3562055.564 m    0.003 m
LAT:             34 10 06.45064      0.002 m       34 10 06.47028      0.002 m
E LON:          262 49 50.74924      0.001 m      262 49 50.71109      0.001 m
W LON:           97 10 09.25076      0.001 m       97 10 09.28891      0.001 m
EL HGT:                236.952 m     0.004 m                235.785 m    0.004 m
ORTHO HGT:             263.066 m     0.009 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3502 OK S)
NORTHING (Y)       3782348.989 m          92950.122 m
EASTING (X)         668743.272 m          676594.319 m
CONVERGENCE          1.02845104 deg        0.47151532 deg
POINT SCALE          0.99995101            0.99995210
COMBINED FACTOR      0.99991382            0.99991491

US NATIONAL GRID DESIGNATOR: 14SPC6874382348 (NAD 83)
********************************************************************************
MARK:       okcl (okcl a  1)
CONSTRAIN: HOR-ONLY NORMAL
ADJUST  X:   -0.001m (0.001m)   Y:   -0.036m (0.004m)   Z:    0.022m (0.003m)
ADJUST  N:   -0.003m (0.002m)   E:    0.005m (0.001m)   H:    0.042m (0.004m)

REF FRAME:        NAD_83(2011) (2010.0000)              IGS08 (2015.2711)
X:                  -810881.807 m    0.001 m          -810882.619 m    0.001 m
Y:                 -5136265.201 m    0.004 m         -5136263.806 m    0.004 m
Z:                  3681919.298 m    0.003 m          3681919.158 m    0.003 m
LAT:             35 28 59.34893      0.002 m       35 28 59.36880      0.002 m
E LON:          261 01 42.75370      0.001 m      261 01 42.71327      0.001 m
W LON:           98 58 17.24630      0.001 m       98 58 17.28673      0.001 m
EL HGT:                470.735 m     0.004 m                469.636 m    0.004 m
ORTHO HGT:             497.837 m     0.009 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3501 OK N)
NORTHING (Y)       3926625.353 m          54048.586 m
EASTING (X)         502589.166 m          511841.912 m
CONVERGENCE          0.01656799 deg        -0.57330269 deg
POINT SCALE          0.99960008             1.00001621
COMBINED FACTOR      0.99952623             0.99994233

US NATIONAL GRID DESIGNATOR: 14SNE0258926625 (NAD 83)
********************************************************************************
MARK:       okdt (okdt a  4)
CONSTRAIN: HOR-ONLY NORMAL
ADJUST  X:   -0.002m (0.001m)   Y:   -0.017m (0.004m)   Z:    0.012m (0.003m)
ADJUST  N:    0.000m (0.002m)   E:    0.001m (0.001m)   H:    0.021m (0.004m)

REF FRAME:        NAD_83(2011) (2010.0000)              IGS08 (2015.2711)
X:                  -679342.225 m    0.001 m          -679343.039 m    0.001 m
Y:                 -5154773.588 m    0.004 m         -5154772.185 m    0.004 m
Z:                  3682488.883 m    0.003 m          3682488.728 m    0.003 m
LAT:             35 29 24.45375      0.002 m       35 29 24.47384      0.002 m
E LON:          262 29 32.33364      0.001 m      262 29 32.29434      0.001 m
W LON:           97 30 27.66636      0.001 m       97 30 27.70566      0.001 m
```



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EL HGT:                366.598 m     0.004 m                365.462 m    0.004 m
ORTHO HGT:             393.598 m     0.009 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3501 OK N)
NORTHING (Y)       3928421.955 m          54494.518 m
EASTING (X)         635364.257 m          644673.365 m
CONVERGENCE          0.86651393 deg        0.29058820 deg
POINT SCALE          0.99982581            1.00001477
COMBINED FACTOR      0.99976828            0.99993723

US NATIONAL GRID DESIGNATOR: 14SPE3336428421 (NAD 83)
********************************************************************************
MARK:       okjw (okjw a  1)
CONSTRAIN: HOR-ONLY NORMAL
ADJUST  X:   -0.003m (0.001m)   Y:   -0.007m (0.004m)   Z:    0.012m (0.003m)
ADJUST  N:    0.006m (0.002m)   E:   -0.001m (0.001m)   H:    0.013m (0.005m)

REF FRAME:        NAD_83(2011) (2010.0000)              IGS08 (2015.2711)
X:                  -768964.435 m    0.001 m          -768965.238 m    0.001 m
Y:                 -5201189.532 m    0.004 m         -5201188.135 m    0.004 m
Z:                  3599120.802 m    0.003 m          3599120.654 m    0.003 m
LAT:             34 34 21.98767      0.002 m       34 34 22.00699      0.002 m
E LON:          261 35 24.31089      0.001 m      261 35 24.27172      0.001 m
W LON:           98 24 35.68911      0.001 m       98 24 35.72828      0.001 m
EL HGT:                314.715 m     0.005 m                313.590 m    0.005 m
ORTHO HGT:             340.341 m     0.009 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3502 OK S)
NORTHING (Y)       3825825.193 m          137559.217 m
EASTING (X)         554125.069 m          562386.795 m
CONVERGENCE          0.33485414 deg        -0.23267382 deg
POINT SCALE          0.99963611            0.99993596
COMBINED FACTOR      0.99958673            0.99983656

US NATIONAL GRID DESIGNATOR: 14SND5412525825 (NAD 83)
********************************************************************************
MARK:       poca (poca    1)
CONSTRAIN: VER-ONLY NORMAL
ADJUST  X:   -0.002m (0.001m)   Y:   -0.029m (0.004m)   Z:    0.016m (0.003m)
ADJUST  N:   -0.003m (0.002m)   E:    0.002m (0.001m)   H:    0.033m (0.004m)

REF FRAME:        NAD_83(2011) (2010.0000)              IGS08 (2015.2711)
X:                  -723367.276 m    0.001 m          -723368.085 m    0.001 m
Y:                 -5172226.580 m    0.004 m         -5172225.181 m    0.004 m
Z:                  3649650.866 m    0.003 m          3649650.718 m    0.003 m
LAT:             35 07 39.52750      0.002 m       35 07 39.54736      0.002 m
E LON:          262 02 18.52042      0.001 m      262 02 18.48111      0.001 m
W LON:           97 57 41.47958      0.001 m       97 57 41.51889      0.001 m
EL HGT:                334.955 m     0.004 m                333.829 m    0.004 m
ORTHO HGT:             361.655 m     0.009 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3502 OK S)
NORTHING (Y)       3887692.144 m          199036.794 m
EASTING (X)         594617.195 m          603507.046 m
CONVERGENCE          0.59758450 deg        0.02184069 deg
POINT SCALE          0.99971033            0.99993082
COMBINED FACTOR      0.99965777            0.99992825

US NATIONAL GRID DESIGNATOR: 14SND9461787692 (NAD 83)
********************************************************************************
MARK:       wmok (wmok a  1)
CONSTRAIN: HOR-ONLY NORMAL
ADJUST  X:   -0.001m (0.001m)   Y:   -0.025m (0.004m)   Z:    0.017m (0.003m)
ADJUST  N:   -0.000m (0.002m)   E:    0.002m (0.001m)   H:    0.030m (0.004m)

REF FRAME:        NAD_83(2011) (2010.0000)              IGS08 (2015.2711)
X:                  -801019.795 m    0.001 m          -801020.603 m    0.001 m
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Y:                 -5185937.809 m    0.004 m         -5185936.409 m    0.004 m
Z:                  3614276.338 m    0.003 m          3614276.187 m    0.003 m
LAT:             34 44 16.39683      0.002 m       34 44 16.41810      0.002 m
E LON:          261 13 10.14611      0.001 m      261 13 10.10630      0.001 m
W LON:           98 46 49.85389      0.001 m       98 46 49.89370      0.001 m
EL HGT:                468.538 m     0.004 m                467.416 m    0.004 m
ORTHO HGT:             493.918 m     0.009 m  (H = h - N WHERE N = GEOID12A HGT)

                UTM COORDINATES    STATE PLANE COORDINATES
                  UTM (Zone 14)          SPC (3502 OK S)
NORTHING (Y)       3843998.398 m          156074.790 m
EASTING (X)         520092.046 m          528526.790 m
CONVERGENCE          0.12506805 deg        -0.44303331 deg
POINT SCALE          0.99960498             0.99991953
COMBINED FACTOR      0.99953147             0.99986599

US NATIONAL GRID DESIGNATOR: 14SND2009243998 (NAD 83)
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OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

PLS	JTB	
DRAWN	JTB	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SDS 16 OF 76

SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S16

NGS OPUS SOLUTION FOR G-26-865 (7400)

FILE: 47050680.11o 000184978 (Session 1)

NGS OPUS SOLUTION REPORT
========================

All computed coordinate accuracies are listed as peak-to-peak values.
For additional information: http://www.ngs.noaa.gov/OPUS/about.html#accuracy

USER: john.t.birkhahn@saic.com DATE: March 21, 2011
RINEX FILE: 4705068r.11o TIME: 18:57:23 UTC

SOFTWARE: page5 1009.28 master50.pl 121510 START: 2011/03/09 17:27:00
EPHEMERIS: igr16263.eph [rapid] STOP: 2011/03/09 19:33:00
NAV FILE: brdc0680.11n OBS USED: 6122 / 6279 : 97%
ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 33 / 35 : 94%
ARP HEIGHT: 2.25 OVERALL RMS: 0.014(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2011.1857)

X:	-725592.234(m)	0.020(m)	-725592.975(m)	0.020(m)
Y:	-5181067.518(m)	0.051(m)	-5181066.124(m)	0.051(m)
Z:	3636785.113(m)	0.047(m)	3636784.950(m)	0.047(m)
LAT:	34 59 8.86732	0.031(m)	34 59 8.88676	0.031(m)
E LON:	262 1 39.92301	0.013(m)	262 1 39.88645	0.013(m)
W LON:	97 58 20.07699	0.013(m)	97 58 20.11355	0.013(m)
EL HGT:	364.667(m)	0.066(m)	363.527(m)	0.066(m)
ORTHO HGT:	391.009(m)	0.113(m)	[NAVD88 (Computed using GEOID09)]	

	UTM COORDINATES (UTM Zone 14)	STATE PLANE COORDINATES (SPC (3502 OK S)
Northing (Y) [meters]	3871950.360	183299.871
Easting (X) [meters]	593802.412	602534.168
Convergence [degrees]	0.58933113	0.01575499
Point Scale	0.99970844	0.99996043
Combined Factor	0.99965122	0.99990320

US NATIONAL GRID DESIGNATOR: 14SND9380271950(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DE8099	OKLW LANTON CORS ARP	N343421.987	W0982435.690	60865.8
DG9755	OKAO ANADARKO CORS ARP	N350435.045	W0981445.200	26919.8
DG9791	OKDN DUNCAN CORS ARP	N342845.501	W0975759.560	56193.1

NEAREST NGS PUBLISHED CONTROL POINT

EL1033	1 TF USGS 1957	N345909.072	W0975916.406	1427.1

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

NGS OPUS SOLUTION FOR G-26-865 (7400)

FILE: 47460741.11o 000184911 (Session 2)

NGS OPUS SOLUTION REPORT
========================

All computed coordinate accuracies are listed as peak-to-peak values.
For additional information: http://www.ngs.noaa.gov/OPUS/about.html#accuracy

USER: josn.t.birkhahn@saic.com DATE: March 21, 2011
RINEX FILE: 4746074s.11o TIME: 18:10:19 UTC

SOFTWARE: page5 1009.28 master2.pl 121510 START: 2011/03/15 18:23:00
EPHEMERIS: igr16272.eph [rapid] STOP: 2011/03/15 21:15:00
NAV FILE: brdc0740.11n OBS USED: 7308 / 7859 : 93%
ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 63 / 65 : 97%
ARP HEIGHT: 2.25 OVERALL RMS: 0.015(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2011.2023)

X:	-725592.239(m)	0.016(m)	-725592.980(m)	0.016(m)
Y:	-5181067.551(m)	0.028(m)	-5181066.157(m)	0.028(m)
Z:	3636785.132(m)	0.007(m)	3636784.969(m)	0.007(m)
LAT:	34 59 8.86721	0.014(m)	34 59 8.88665	0.014(m)
E LON:	262 1 39.92299	0.018(m)	262 1 39.88644	0.018(m)
W LON:	97 58 20.07701	0.018(m)	97 58 20.11356	0.018(m)
EL HGT:	364.705(m)	0.024(m)	363.565(m)	0.024(m)
ORTHO HGT:	391.047(m)	0.041(m)	[NAVD88 (Computed using GEOID09)]	

	UTM COORDINATES (UTM Zone 14)	STATE PLANE COORDINATES (SPC (3502 OK S)
Northing (Y) [meters]	3871950.356	183299.868
Easting (X) [meters]	593802.412	602534.167
Convergence [degrees]	0.58933113	0.01575499
Point Scale	0.99970844	0.99996043
Combined Factor	0.99965121	0.99990319

US NATIONAL GRID DESIGNATOR: 14SND9380271950(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DE8099	OKLW LANTON CORS ARP	N343421.987	W0982435.690	60865.8
DG9755	OKAO ANADARKO CORS ARP	N350435.045	W0981445.200	26919.8
DG9791	OKDN DUNCAN CORS ARP	N342845.501	W0975759.560	56193.1

NEAREST NGS PUBLISHED CONTROL POINT

EL1033	1 TF USGS 1957	N345909.072	W0975916.406	1427.1

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

NGS OPUS SOLUTION FOR G-26-865 (7400)

FILE: 48820770.11o 000184736 (Session 3)

NGS OPUS SOLUTION REPORT
========================

All computed coordinate accuracies are listed as peak-to-peak values.
For additional information: http://www.ngs.noaa.gov/OPUS/about.html#accuracy

USER: john.t.birkhahn@saic.com DATE: March 21, 2011
RINEX FILE: 4882077o.11o TIME: 16:08:53 UTC

SOFTWARE: page5 1009.28 master11.pl 121510 START: 2011/03/18 14:39:00
EPHEMERIS: igr16275.eph [rapid] STOP: 2011/03/18 17:51:30
NAV FILE: brdc0770.11n OBS USED: 8023 / 8553 : 94%
ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 48 / 50 : 96%
ARP HEIGHT: 2.25 OVERALL RMS: 0.014(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2011.2101)

X:	-725592.231(m)	0.016(m)	-725592.972(m)	0.015(m)
Y:	-5181067.535(m)	0.040(m)	-5181066.141(m)	0.040(m)
Z:	3636785.122(m)	0.020(m)	3636784.959(m)	0.020(m)
LAT:	34 59 8.86726	0.008(m)	34 59 8.88669	0.008(m)
E LON:	262 1 39.92322	0.014(m)	262 1 39.88666	0.014(m)
W LON:	97 58 20.07678	0.014(m)	97 58 20.11334	0.014(m)
EL HGT:	364.686(m)	0.046(m)	363.546(m)	0.045(m)
ORTHO HGT:	391.028(m)	0.078(m)	[NAVD88 (Computed using GEOID09)]	

	UTM COORDINATES (UTM Zone 14)	STATE PLANE COORDINATES (SPC (3502 OK S)
Northing (Y) [meters]	3871950.358	183299.869
Easting (X) [meters]	593802.417	602534.173
Convergence [degrees]	0.58933117	0.01575502
Point Scale	0.99970844	0.99996043
Combined Factor	0.99965122	0.99990320

US NATIONAL GRID DESIGNATOR: 14SND9380271950(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DE8099	OKLW LANTON CORS ARP	N343421.987	W0982435.690	60865.8
DG9755	OKAO ANADARKO CORS ARP	N350435.045	W0981445.200	26919.8
DG9791	OKDN DUNCAN CORS ARP	N342845.501	W0975759.560	56193.1

NEAREST NGS PUBLISHED CONTROL POINT

EL1033	1 TF USGS 1957	N345909.072	W0975916.406	1427.1

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

NGS OPUS SOLUTION FOR G-26-866 (7401)

FILE: 48820682.11o 000184732 (Session 1)

NGS OPUS SOLUTION REPORT
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All computed coordinate accuracies are listed as peak-to-peak values.
For additional information: http://www.ngs.noaa.gov/OPUS/about.html#accuracy

USER: john.t.birkhahn@saic.com DATE: March 21, 2011
RINEX FILE: 4882068s.11o TIME: 16:06:43 UTC

SOFTWARE: page5 1009.28 master.pl 121510 START: 2011/03/09 18:13:00
EPHEMERIS: igr16263.eph [rapid] STOP: 2011/03/09 20:23:00
NAV FILE: brdc0680.11n OBS USED: 5853 / 6121 : 96%
ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 39 / 40 : 98%
ARP HEIGHT: 2.25 OVERALL RMS: 0.013(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2011.1858)

X:	-725649.266(m)	0.015(m)	-725650.007(m)	0.015(m)
Y:	-5179165.634(m)	0.004(m)	-5179164.240(m)	0.004(m)
Z:	3639421.172(m)	0.011(m)	3639421.010(m)	0.011(m)
LAT:	35 0 53.84063	0.009(m)	35 0 53.86011	0.009(m)
E LON:	262 1 27.29177	0.015(m)	262 1 27.25520	0.015(m)
W LON:	97 58 32.70823	0.015(m)	97 58 32.74480	0.015(m)
EL HGT:	340.282(m)	0.007(m)	339.143(m)	0.007(m)
ORTHO HGT:	366.694(m)	0.015(m)	[NAVD88 (Computed using GEOID09)]	

	UTM COORDINATES (UTM Zone 14)	STATE PLANE COORDINATES (SPC (3502 OK S)
Northing (Y) [meters]	3875180.900	186534.611
Easting (X) [meters]	593449.004	602213.047
Convergence [degrees]	0.58774591	0.01376341
Point Scale	0.99970763	0.99996412
Combined Factor	0.99965423	0.99991072

US NATIONAL GRID DESIGNATOR: 14SND9344975180(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DE8099	OKLW LANTON CORS ARP	N343421.987	W0982435.690	63129.9
DG9755	OKAO ANADARKO CORS ARP	N350435.045	W0981445.200	25373.3
DG9791	OKDN DUNCAN CORS ARP	N342845.501	W0975759.560	59431.7

NEAREST NGS PUBLISHED CONTROL POINT

FJ1053	CHICKASHA KNDR RADIO MAST	N350037.113	W0975838.818	539.9

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

NGS OPUS SOLUTION FOR G-26-866 (7401)

FILE: 47050741.11o 000184982 (Session 2)

NGS OPUS SOLUTION REPORT
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All computed coordinate accuracies are listed as peak-to-peak values.
For additional information: http://www.ngs.noaa.gov/OPUS/about.html#accuracy

USER: josn.t.birkhahn@saic.com DATE: March 21, 2011
RINEX FILE: 4735074r.11o TIME: 18:57:44 UTC

SOFTWARE: page5 1009.28 master29.pl 121510 START: 2011/03/15 17:41:00
EPHEMERIS: igr16272.eph [rapid] STOP: 2011/03/15 20:48:30
NAV FILE: brdc0740.11n OBS USED: 8270 / 8727 : 95%
ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 63 / 65 : 97%
ARP HEIGHT: 2.25 OVERALL RMS: 0.013(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2011.2022)

X:	-725649.262(m)	0.012(m)	-725650.003(m)	0.012(m)
Y:	-5179165.655(m)	0.018(m)	-5179164.261(m)	0.018(m)
Z:	3639421.166(m)	0.014(m)	3639421.004(m)	0.014(m)
LAT:	35 0 53.84009	0.006(m)	35 0 53.85957	0.006(m)
E LON:	262 1 27.29204	0.014(m)	262 1 27.25547	0.014(m)
W LON:	97 58 32.70796	0.014(m)	97 58 32.74453	0.014(m)
EL HGT:	340.295(m)	0.021(m)	339.156(m)	0.021(m)
ORTHO HGT:	366.707(m)	0.036(m)	[NAVD88 (Computed using GEOID09)]	

	UTM COORDINATES (UTM Zone 14)	STATE PLANE COORDINATES (SPC (3502 OK S)
Northing (Y) [meters]	3875180.884	186534.594
Easting (X) [meters]	593449.011	602213.054
Convergence [degrees]	0.58774595	0.01376345
Point Scale	0.99970763	0.99996412
Combined Factor	0.99965423	0.99991071

US NATIONAL GRID DESIGNATOR: 14SND9344975180(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DE8099	OKLW LANTON CORS ARP	N343421.987	W0982435.690	63129.8
DG9755	OKAO ANADARKO CORS ARP	N350435.045	W0981445.200	25373.3
DG9791	OKDN DUNCAN CORS ARP	N342845.501	W0975759.560	59431.6

NEAREST NGS PUBLISHED CONTROL POINT

FJ1053	CHICKASHA KNDR RADIO MAST	N350037.113	W0975838.818	539.9

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

NGS OPUS SOLUTION FOR G-26-866 (7401)

FILE: 47050770.11o 000184983 (Session 3)

NGS OPUS SOLUTION REPORT
========================

All computed coordinate accuracies are listed as peak-to-peak values.
For additional information: http://www.ngs.noaa.gov/OPUS/about.html#accuracy

USER: john.t.birkhahn@saic.com DATE: March 21, 2011
RINEX FILE: 4705077o.11o TIME: 18:57:58 UTC

SOFTWARE: page5 1009.28 master.pl 121510 START: 2011/03/18 14:15:00
EPHEMERIS: igr16275.eph [rapid] STOP: 2011/03/18 17:23:00
NAV FILE: brdc0770.11n OBS USED: 7765 / 8315 : 93%
ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 45 / 48 : 94%
ARP HEIGHT: 2.25 OVERALL RMS: 0.014(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2011.2100)

X:	-725649.270(m)	0.010(m)	-725650.011(m)	0.010(m)
Y:	-5179165.617(m)	0.029(m)	-5179164.223(m)	0.029(m)
Z:	3639421.144(m)	0.032(m)	3639420.982(m)	0.031(m)
LAT:	35 0 53.84019	0.013(m)	35 0 53.85967	0.013(m)
E LON:	262 1 27.29152	0.006(m)	262 1 27.25495	0.005(m)
W LON:	97 58 32.70848	0.006(m)	97 58 32.74505	0.005(m)
EL HGT:	340.253(m)	0.043(m)	339.113(m)	0.043(m)
ORTHO HGT:	366.665(m)	0.073(m)	[NAVD88 (Computed using GEOID09)]	

	UTM COORDINATES (UTM Zone 14)	STATE PLANE COORDINATES (SPC (3502 OK S)
Northing (Y) [meters]	3875180.886	186534.597
Easting (X) [meters]	593448.998	602213.041
Convergence [degrees]	0.58774586	0.01376337
Point Scale	0.99970763	0.99996412
Combined Factor	0.99965424	0.99991072

US NATIONAL GRID DESIGNATOR: 14SND9344875180(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DE8099	OKLW LANTON CORS ARP	N343421.987	W0982435.690	63129.9
DG9755	OKAO ANADARKO CORS ARP	N350435.045	W0981445.200	25373.3
DG9791	OKDN DUNCAN CORS ARP	N342845.501	W0975759.560	59431.6

NEAREST NGS PUBLISHED CONTROL POINT

FJ1053	CHICKASHA KNDR RADIO MAST	N350037.113	W0975838.818	539.9

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

PLS	JTB	
DRAWN	JTB	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SDS 17 OF 76

SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S17

NGS OPUS SOLUTION FOR G-26-867 (7402)

FILE: 48820683.11o 000184734 (Session 1)

NGS OPUS SOLUTION REPORT
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All computed coordinate accuracies are listed as peak-to-peak values.
For additional information: http://www.ngs.noaa.gov/OPUS/about.html#accuracy

USER: john.t.birkhahn@saic.com DATE: March 21, 2011
RINEX FILE: 4882068v.11o TIME: 16:07:49 UTC

SOFTWARE: page5 1009.28 master28.pl 121510 START: 2011/03/09 21:06:00
EPHEMERIS: igr16263.eph [rapid] STOP: 2011/03/09 23:16:00
NAV FILE: brdc0680.11n OBS USED: 5816 / 6129 : 95%
ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 51 / 55 : 93%
ARP HEIGHT: 2.25 OVERALL RMS: 0.013(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2011.1861)

X:	-726879.951(m)	0.021(m)	-726880.692(m)	0.021(m)
Y:	-5177113.536(m)	0.025(m)	-5177112.142(m)	0.025(m)
Z:	3642070.762(m)	0.034(m)	3642070.600(m)	0.034(m)
LAT:	35 2 38.90696	0.016(m)	35 2 38.92646	0.016(m)
E LON:	262 0 27.97098	0.022(m)	262 0 27.93438	0.022(m)
W LON:	97 59 32.02902	0.022(m)	97 59 32.06562	0.022(m)
EL HGT:	337.032(m)	0.040(m)	335.893(m)	0.040(m)
ORTHO HGT:	363.528(m)	0.068(m)	[NAVD88 (Computed using GEOID09)]	

	UTM COORDINATES (UTM (Zone 14))	STATE PLANE COORDINATES (SPC (3502 OK S))
Northing (Y) [meters]	3878402.305	189772.089
Easting (X) [meters]	591912.871	600708.879
Convergence [degrees]	0.57870932	0.00441022
Point Scale	0.99970412	0.99996808
Combined Factor	0.99965123	0.99991518

US NATIONAL GRID DESIGNATOR: 14SND9191278402(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DG9755	OKAD ANADARKO CORS ARP	N350435.045	W0981445.200	23415.5
DG9791	OKDN DUNCAN CORS ARP	N342845.501	W0975759.560	62707.7
DE6009	OKDT OKLAHOMA CITY CORS ARP	N352924.454	W0973027.666	66276.2

NEAREST NGS PUBLISHED CONTROL POINT

FJ0783	R 214	N350350.	W0975737.	3312.8

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

NGS OPUS SOLUTION FOR G-26-867 (7402)

FILE: 47050740.11o 000184981 (Session 2)

NGS OPUS SOLUTION REPORT
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All computed coordinate accuracies are listed as peak-to-peak values.
For additional information: http://www.ngs.noaa.gov/OPUS/about.html#accuracy

USER: josn.t.birkhahn@saic.com DATE: March 21, 2011
RINEX FILE: 4735074o.11o TIME: 18:57:07 UTC

SOFTWARE: page5 1009.28 master.pl 121510 START: 2011/03/15 14:07:00
EPHEMERIS: igr16272.eph [rapid] STOP: 2011/03/15 17:20:00
NAV FILE: brdc0740.11n OBS USED: 7677 / 8241 : 93%
ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 52 / 57 : 91%
ARP HEIGHT: 2.25 OVERALL RMS: 0.012(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2011.2018)

X:	-726879.936(m)	0.027(m)	-726880.677(m)	0.027(m)
Y:	-5177113.505(m)	0.044(m)	-5177112.111(m)	0.044(m)
Z:	3642070.770(m)	0.052(m)	3642070.608(m)	0.052(m)
LAT:	35 2 38.90779	0.037(m)	35 2 38.92728	0.037(m)
E LON:	262 0 27.97140	0.028(m)	262 0 27.93480	0.028(m)
W LON:	97 59 32.02860	0.028(m)	97 59 32.06520	0.028(m)
EL HGT:	337.010(m)	0.051(m)	335.871(m)	0.051(m)
ORTHO HGT:	363.506(m)	0.086(m)	[NAVD88 (Computed using GEOID09)]	

	UTM COORDINATES (UTM (Zone 14))	STATE PLANE COORDINATES (SPC (3502 OK S))
Northing (Y) [meters]	3878402.330	189772.115
Easting (X) [meters]	591912.881	600708.890
Convergence [degrees]	0.57870939	0.00441029
Point Scale	0.99970412	0.99996808
Combined Factor	0.99965123	0.99991518

US NATIONAL GRID DESIGNATOR: 14SND9191278402(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DG9755	OKAD ANADARKO CORS ARP	N350435.045	W0981445.200	23415.5
DG9791	OKDN DUNCAN CORS ARP	N342845.501	W0975759.560	62707.7
DE6009	OKDT OKLAHOMA CITY CORS ARP	N352924.454	W0973027.666	66276.1

NEAREST NGS PUBLISHED CONTROL POINT

FJ0783	R 214	N350350.	W0975737.	3312.8

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

NGS OPUS SOLUTION FOR G-26-867 (7402)

FILE: 47050771.11o 000184984 (Session 3)

NGS OPUS SOLUTION REPORT
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All computed coordinate accuracies are listed as peak-to-peak values.
For additional information: http://www.ngs.noaa.gov/OPUS/about.html#accuracy

USER: john.t.birkhahn@saic.com DATE: March 21, 2011
RINEX FILE: 47050771.11o TIME: 18:58:23 UTC

SOFTWARE: page5 1009.28 master.pl 121510 START: 2011/03/18 18:07:00
EPHEMERIS: igr16275.eph [rapid] STOP: 2011/03/18 21:14:00
NAV FILE: brdc0770.11n OBS USED: 7425 / 7957 : 93%
ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 58 / 63 : 92%
ARP HEIGHT: 2.25 OVERALL RMS: 0.013(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2011.2105)

X:	-726879.932(m)	0.021(m)	-726880.673(m)	0.021(m)
Y:	-5177113.503(m)	0.028(m)	-5177112.109(m)	0.023(m)
Z:	3642070.767(m)	0.060(m)	3642070.605(m)	0.060(m)
LAT:	35 2 38.90775	0.036(m)	35 2 38.92725	0.035(m)
E LON:	262 0 27.97154	0.021(m)	262 0 27.93494	0.021(m)
W LON:	97 59 32.02846	0.021(m)	97 59 32.06506	0.021(m)
EL HGT:	337.006(m)	0.054(m)	335.867(m)	0.054(m)
ORTHO HGT:	363.502(m)	0.091(m)	[NAVD88 (Computed using GEOID09)]	

	UTM COORDINATES (UTM (Zone 14))	STATE PLANE COORDINATES (SPC (3502 OK S))
Northing (Y) [meters]	3878402.329	189772.114
Easting (X) [meters]	591912.885	600708.894
Convergence [degrees]	0.57870941	0.00441031
Point Scale	0.99970412	0.99996808
Combined Factor	0.99965124	0.99991518

US NATIONAL GRID DESIGNATOR: 14SND9191278402(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DG9755	OKAD ANADARKO CORS ARP	N350435.045	W0981445.200	23415.5
DG9791	OKDN DUNCAN CORS ARP	N342845.501	W0975759.560	62707.7
DE6009	OKDT OKLAHOMA CITY CORS ARP	N352924.454	W0973027.666	66275.1

NEAREST NGS PUBLISHED CONTROL POINT

FJ0783	R 214	N350350.	W0975737.	3312.8

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

NGS OPUS SOLUTION FOR G-26-868 (7403)

FILE: 47050681.11o 000184979 (Session 1)

NGS OPUS SOLUTION REPORT
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All computed coordinate accuracies are listed as peak-to-peak values.
For additional information: http://www.ngs.noaa.gov/OPUS/about.html#accuracy

USER: john.t.birkhahn@saic.com DATE: March 21, 2011
RINEX FILE: 4705068u.11o TIME: 18:56:52 UTC

SOFTWARE: page5 1009.28 master28.pl 121510 START: 2011/03/09 20:02:00
EPHEMERIS: igr16263.eph [rapid] STOP: 2011/03/09 22:17:00
NAV FILE: brdc0680.11n OBS USED: 5111 / 5798 : 88%
ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 49 / 51 : 96%
ARP HEIGHT: 2.25 OVERALL RMS: 0.014(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2011.1860)

X:	-724677.684(m)	0.038(m)	-724678.425(m)	0.038(m)
Y:	-5175901.598(m)	0.027(m)	-5175900.206(m)	0.027(m)
Z:	3644168.015(m)	0.033(m)	3644167.853(m)	0.033(m)
LAT:	35 4 2.68057	0.045(m)	35 4 2.70007	0.045(m)
E LON:	262 1 47.39127	0.034(m)	262 1 47.35468	0.034(m)
W LON:	97 58 12.60873	0.034(m)	97 58 12.64532	0.034(m)
EL HGT:	308.855(m)	0.015(m)	307.717(m)	0.015(m)
ORTHO HGT:	335.394(m)	0.026(m)	[NAVD88 (Computed using GEOID09)]	

	UTM COORDINATES (UTM (Zone 14))	STATE PLANE COORDINATES (SPC (3502 OK S))
Northing (Y) [meters]	3881003.022	192354.046
Easting (X) [meters]	593898.372	602720.896
Convergence [degrees]	0.59122212	0.01693252
Point Scale	0.99970866	0.99997141
Combined Factor	0.99966020	0.99992294

US NATIONAL GRID DESIGNATOR: 14SND9389881003(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DE8099	OKLW LAWTON CORS ARP	N343421.987	W0982435.690	68044.5
DG9755	OKAD ANADARKO CORS ARP	N350435.045	W0981445.200	25169.0
DE6009	OKDT OKLAHOMA CITY CORS ARP	N352924.454	W0973027.666	63009.4

NEAREST NGS PUBLISHED CONTROL POINT

FJ0784	S 214	N350423.	W0975739.	1057.5

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

NGS OPUS SOLUTION FOR G-26-868 (7403)

FILE: 47460740.11o 000184910 (Session 2)

NGS OPUS SOLUTION REPORT
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All computed coordinate accuracies are listed as peak-to-peak values.
For additional information: http://www.ngs.noaa.gov/OPUS/about.html#accuracy

USER: josn.t.birkhahn@saic.com DATE: March 21, 2011
RINEX FILE: 4746074o.11o TIME: 18:10:36 UTC

SOFTWARE: page5 1009.28 master40.pl 121510 START: 2011/03/15 14:42:00
EPHEMERIS: igr16272.eph [rapid] STOP: 2011/03/15 17:58:30
NAV FILE: brdc0740.11n OBS USED: 7964 / 8491 : 94%
ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 51 / 57 : 89%
ARP HEIGHT: 2.25 OVERALL RMS: 0.013(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2011.2019)

X:	-724677.699(m)	0.009(m)	-724678.440(m)	0.009(m)
Y:	-5175901.597(m)	0.056(m)	-5175900.204(m)	0.056(m)
Z:	3644167.995(m)	0.044(m)	3644167.833(m)	0.044(m)
LAT:	35 4 2.68003	0.016(m)	35 4 2.69953	0.016(m)
E LON:	262 1 47.39067	0.016(m)	262 1 47.35409	0.016(m)
W LON:	97 58 12.60933	0.016(m)	97 58 12.64591	0.016(m)
EL HGT:	308.843(m)	0.070(m)	307.705(m)	0.070(m)
ORTHO HGT:	335.382(m)	0.118(m)	[NAVD88 (Computed using GEOID09)]	

	UTM COORDINATES (UTM (Zone 14))	STATE PLANE COORDINATES (SPC (3502 OK S))
Northing (Y) [meters]	3881003.606	192354.030
Easting (X) [meters]	593898.357	602720.881
Convergence [degrees]	0.59122202	0.01693243
Point Scale	0.99970866	0.99997141
Combined Factor	0.99966020	0.99992294

US NATIONAL GRID DESIGNATOR: 14SND9389881003(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DE8099	OKLW LAWTON CORS ARP	N343421.987	W0982435.690	68044.1
DG9755	OKAD ANADARKO CORS ARP	N350435.045	W0981445.200	25169.0
DE6009	OKDT OKLAHOMA CITY CORS ARP	N352924.454	W0973027.666	63009.4

NEAREST NGS PUBLISHED CONTROL POINT

FJ0784	S 214	N350423.	W0975739.	1057.5

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

NGS OPUS SOLUTION FOR G-26-868 (7403)

FILE: 48820771.11o 000184737 (Session 3)

NGS OPUS SOLUTION REPORT
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All computed coordinate accuracies are listed as peak-to-peak values.
For additional information: http://www.ngs.noaa.gov/OPUS/about.html#accuracy

USER: john.t.birkhahn@saic.com DATE: March 21, 2011
RINEX FILE: 4882077s.11o TIME: 16:09:17 UTC

SOFTWARE: page5 1009.28 master10.pl 121510 START: 2011/03/18 18:21:00
EPHEMERIS: igr16275.eph [rapid] STOP: 2011/03/18 21:05:00
NAV FILE: brdc0770.11n OBS USED: 6401 / 6952 : 92%
ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 55 / 60 : 92%
ARP HEIGHT: 2.25 OVERALL RMS: 0.014(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2011.2105)

X:	-724677.712(m)	0.018(m)	-724678.453(m)	0.013(m)
Y:	-5175901.628(m)	0.041(m)	-5175900.235(m)	0.041(m)
Z:	3644168.016(m)	0.038(m)	3644167.854(m)	0.033(m)
LAT:	35 4 2.67999	0.009(m)	35 4 2.69949	0.009(m)
E LON:	262 1 47.39033	0.024(m)	262 1 47.35375	0.024(m)
W LON:	97 58 12.60967	0.024(m)	97 58 12.64625	0.024(m)
EL HGT:	308.882(m)	0.053(m)	307.744(m)	0.053(m)
ORTHO HGT:	335.421(m)	0.090(m)	[NAVD88 (Computed using GEOID09)]	

	UTM COORDINATES (UTM (Zone 14))	STATE PLANE COORDINATES (SPC (3502 OK S))
Northing (Y) [meters]	3881003.604	192354.028
Easting (X) [meters]	593898.349	602720.872
Convergence [degrees]	0.59122197	0.01693237
Point Scale	0.99970866	0.99997141
Combined Factor	0.99966019	0.99992293

US NATIONAL GRID DESIGNATOR: 14SND9389881003(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DE8099	OKLW LAWTON CORS ARP	N343421.987	W0982435.690	68044.4
DG9755	OKAD ANADARKO CORS ARP	N350435.045	W0981445.200	25169.0
DE6009	OKDT OKLAHOMA CITY CORS ARP	N352924.454	W0973027.666	63009.4

NEAREST NGS PUBLISHED CONTROL POINT

FJ0784	S 214	N350423.	W0975739.	1057.5

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

PLS	JTB	
DRAWN	JTB	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SDS 18 OF 76

SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S18

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

SECTION 20
T-6-N, R-7-W

Station comparison
Station 87+22.42 on this survey.
Station 1082+61.52 on SW02737(11) survey.
Station 1082+61.52 on FAP No. F-162(10)XII) plans

33' STATUTORY R/W — 2644.02' — N 89°55'59.02" W — 33' STATUTORY R/W

2572.68' | 1322.01' | 1250.67'

POB Sta. 87+22.42
Set 1/2" I.P.
on EW-141 &
28.64' W. to sec. cor
2612.11' E. to 1/4 cor.

Morgan Cattle Company
Rec'd. Bk. 3116, Pg. 243

90+00

Southwestern Bell Telephone Co.
16.5' Right-of-Way Easement
(SE/4, SE/4, SEC 20
Obscure Description)
Bk. 569, Pg. 485
Filed 12/29/1953

Morgan Cattle Company
Warranty Deed
Rec'd. Bk. 3199, Pg. 551
Filed: May 23, 2000

Ninnekah Water Corp.
20' Right-of-Way Easement
Bk. 882, Pg. 887
Filed October 8, 1970

95+00

Danny Glass
Quit Claim Deed
Rec'd. Bk. 4785, Pg. 258
Filed: July 11, 2014

Public
30' Roadway Easement
Rec'd. Bk. 395, Pg. 199
Filed March 1, 1939

Ninnekah Water Corp.
20' Right-of-Way Easement
Bk. 882, Pg. 883
Filed October 8, 1970

100+00

CAN-OK Oil Field Services Co.
Rec'd. Bk. 4728, Pg. 112
Special Warranty Deed
Filed: February 27 2014

105+00

Southwestern Bell Telephone Co.
16.5' Right-of-Way Easement
(E/2, NE/4, SE/4, SEC 20
Obscure Description)
Bk. 569, Pg. 485
Filed 12/29/1953

Buck G. Hudson &
Carmen Hudson
Quit Claim Deed
Rec'd. Bk. 3028, Pg. 599
Filed: May 11, 1998

Ninnekah Water Corp.
20' Right-of-Way Easement
Bk. 882, Pg. 884
Filed 10/08/1970

7001 | 8003 | 8004 | 8007

N 00°05'45" W — 331.66' — 331.66'

66.93' | N 89°54'47" W | 1323.85'

66.47' S89°55'23"E | 66.70' S89°55'05"E | 66.93'

8508 | 8001 | 7605 | 7601 | 7607 | 8509 | 8512 | 8514 | 8510

7410 | BM #207 | 8513 | 8002 | 8005 | 8054 | 8006 | 8516

PRES. R/W — 646.73' — 331.61' — 331.61' — 331.61' — 663.23' — PRES. R/W

28.64' | 9002 | 100' | 663.21' | 331.61' | 331.61' | 2652.85' N 00°03'22.08" W | NS-283 | 663.21' | 100'

300 | A001 | 8916 | ℄ SURVEY - U.S.81 | N00°04'06.40"W

50' | 43.62' | 100' | 100' | 8107a | 100'

7002 | 7602 | 7606 | 8518 | 8519 | 7608 | 7004 | 8018 | 8517 | 8511 | 8515 | BM #209 | 8018

PRES. R/W — 1309.93' — 200.00' — 1126.43' — PRES. R/W

Ralph Morgan &
Evelyn E.
Rec'd. Bk. 4872, Pg. 226

Public
30' Roadway Easement
Rec'd. Bk. 395, Pg. 202
Filed March 1, 1939

Ninnekah Water Corp.
20' Right-of-Way Easement
Bk. 882, Pg. 887
Filed October 8, 1970

Morgan Cattle Co.
Warranty Deed
Rec'd. Bk. 3573, Pg. 69
Filed: January 13, 2004

Public Service Co. of Okla.
10' Right-of-Way Easement
Rec'd. Bk. 861, Pg. 695
Filed July 11, 1969

William M. Ellis
(Book & Page Not Found)

320.00' N 89°55'14" E

320.00' N89°55'14"E

William M. Ellis
Quit Claim Deed
Rec'd. Bk. 926, Pg. 238
Filed: September 5, 1972

1192.98' | 200.00' N00°04'06"W | 8016 | 8019

5892.76' W | 462.05'

2640.75' S 89°55'15.68" W

SECTION 21
T-6-N, R-7-W

762.00' N03°09'43"E

8013 | 8031 | 8479

33' | 2512.09' | 200.00' | 200.00' | 200.00' N89°55'16"E

Mark A. Smith &
Dana S. Smith
Warranty Deed
Rec'd. Bk. 3573, Pg. 69
Filed: January 13, 2004

8032 | 8040 | 7003 | 8480

762.00' N03°09'43"E

672.98'

STATUTORY R/W | EW-141 | 5706' | 529.70' | STATUTORY R/W | 33'

STA. 107+00

SCALE
1" = 100'

PLS	JTB	
DRAWN	CBM	
CHECKED	JTB	
APPROVED	JTB	
CREW	BDG	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S19

SDS 19 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

Station comparison

Mstr. PI Station 1127+31.95 on this survey*
Mstr. PI Station 1127+31.95 on SW02737(1) survey*
Mstr. PI Station 1127+31.95 on FAP No. F-162(10)(11) plans

CURVE #1

PI STA= 147+93.78
X= 1982747.6623
Y= 602181.9456
Δ= 44°48'32.01" LT
D= 1°00'00.00"
T= 2362.08'
L= 4480.89'
R= 5729.58'
E= 467.80'

Station comparison

Station 1107+80.13 on this survey*
Station 1107+80.13 on SW02737(1) survey*
Station 1107+80.13 on FAP No. F-162(10)(11) plans

SECTION 20
T-6-N, R-7-W

SECTION 21
T-6-N, R-7-W

N 89°53'35.30" W 2651.39'

2652.85' N 00°03'22.08" W NS-283

2652.10' N 00°03'10.78" W

2644.57' S 89°55'12.12" W 1138.91'

663.29' N00°03'22"W

663.23'

663.03' N00°04'06.40"W

663.03' N00°04'06.40"W

663.45' N00°20'52"W

1322.29'

434.40'

325.70'

216.69'

EW-140.5

EW-140.5

Ninnekah Water Corp.
20' Easement
Bk. 1048, Pg. 297
Filed February 15, 1977

Ninnekah Water Corp.
20' Right-of-Way Easement
Bk. 1048, Pg. 297
Filed February 15, 1977

Ninnekah Water Corp.
20' Right-of-Way Easement
Bk. 882, Pg. 884
Filed October 8, 1970

Scott E. Bradford &
Michael A Bradford
Warranty Deed
Rec'd. Bk. 4853, Pg. 314
Filed: December 22, 2014

POT Sta. 1113+75.27
Set PK nail w/tag
on EW-140.5 1/4 $
28.07' W. to 1/4 cor.
2616.50' E. to 1/4 cor.

Public
30' Roadway Easement
Rec'd. Bk. 395, Pg. 199
Filed March 1, 1939

Public Service Co. of Okla.
10' Right-of-Way Easement
Rec'd. Bk. 912, Pg. 758
Filed November 14, 1972

Ninnekah Water Corp.
20' Right-of-Way Easement
Bk. 882, Pg. 882
Filed October 8, 1970

William M. Ellis
Quit Claim Deed
Rec'd. Bk. 926, Pg. 238
Filed: September 5, 1972

Southwestern Bell Telephone Co.
16.5' Right-of-Way Easement
(S/2, SE/4, NE/4, SEC 20
Obscure Description)
Bk. 569, Pg. 485
Filed 12/29/1953

Carol Lister Living Trust
Rec'd. Bk. 3793, Pg. 220
Filed: November 22, 2005

Southwestern Bell Telephone Co.
16.5' Right-of-Way Easement
(N/2, SE/4, NE/4, SEC 20
Obscure Description)
Bk. 569, Pg. 484
Filed 12/29/1953

Patricia J. Rogstad
(F.K.A. Patricia J. LaForge)
Quit Claim Deed
Rec'd. Bk. 3375, Pg. 328
Filed: May 6, 2002
Stipulation of Insurance
& Cross Conveyance
Rec'd. Bk. 3793, Pg. 219
Filed: November 22, 2005

Jerry Chambers-Oil Producer
30' Easement
Bk. 995, Pg. 24
Filed May 19, 1975

Michael Joe Ersland
Affidavit by Surviving
Joint Tenant
Rec'd. Bk. 4446, Pg. 543
Filed: December 15, 2011

Tims Family Revocable Trust
Quit Claim Deed
Rec'd. Bk. 3909, Pg. 472
Filed: December 6, 2006

Ezra E. Flowers &
James W. Flowers
Quit Claim Deed
Bk. 1191, Pg. 603
Filed: May 12, 1980

Arkansas Louisiana Gas Co.
50' Pipeline Easement
(NE/4, NE/4, SEC 20
Obscure Description)
Rec'd. Bk. 1215, Pg. 21
Filed October 15, 1980

Southwestern Bell Telephone Co.
16.5' Right-of-Way Easement
(NE/4, NE/4, SEC 20
Obscure Description)
Bk. 569, Pg. 483
Filed 12/29/1953

SC Sta. 1112+63.02 &
Set 1/2" capped I.P.

POC Sta. 1122+15.52 &
POC Sta. 1126+74.70
Set 1/2" capped I.P.

POST Sta. 1122+20.71 &
POC Sta. 1126+80.00
Set PK nail w/tag

POC Sta. 1129+94.64
Set 1/2" capped I.P.
on NS-283 $
1033.63' N. to sec. cor.
1618.47' S. to 1/4 cor.

TS Sta. 1117+63.02
Set PK nail w/tag

PC Sta. 1124+31.69
Set 1/2" capped I.P.
on NS-283 $
1559.93' N. to sec. cor.
1092.18' S. to 1/4 cor.

POC Sta. 1120+06.97
Set 1/2" capped I.P.
on NS-283 $
1559.93' N. to sec. cor.
1092.18' S. to 1/4 cor.

PT Sta. 1120+29.96
Set 1/2" capped I.P.

POST Set PK nail w/tag
30.46' ahead of PI

TS Sta. 1117+63.02
50' Easement
N 89°55'54" E

SC Sta. 1121+63.02
50' Easement
S 89°55'52" E

PI Sta. 1120+29.70
Set 1/2" capped I.P.

PI Sta. 1126+88.74
Set 1/2" capped I.P.

CS Sta. 1131+70.73
Set PK nail w/tag

CS Sta. 1131+70.73
50' Easement
S 41°45'36" E

Master PI Sta. 1127+31.95
Set 1/2" capped I.P.

PI 103+15.30

PI 1127+31.95

PRES. R/W

C SURVEY - C.R.1405

C SURVEY - U.S.81

C SURVEY - S.B.U.S.81

C SURVEY - N.B.U.S.81

A001

A002

A003

A004

R=2744.79'
L=650.86'
Ch=649.34'
N09°32'09"E

R=5601.58'
C=890.23'
L=333.80'
L=891.17'
N04°37'34"W

R=5629.58'
L=1151.86'
Ch=1149.85'
N15°02'43"W

R=2764.79'
L=1463.37'
Ch=1446.09'
S51°41'46"W

L=301.50'
302.23'
N 05°08'03" W

L=169.91'

L=18.07'

L=85.95'

L=734.58'

L=730.44'

332.89'

523.35'

297.87'

299.32'

347.42'
330.93'
N 00°04'32" W

331.19'

331.37'

331.01'

314.51'

277.02'
S89°59'05"E

303.77'
S89°40'04"E

247.57'
N89°58'34"E

372.57'

262.85'

262.95'

262.85'

262.85'

262.85'

262.95'

262.85'

262.85'

262.85

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS	
DESCRIPTION	DATE

SECTION 20
T-6-N, R-7-W

SECTION 17
T-6-N, R-7-W

SECTION 16
T-6-N, R-7-W

STA. 101+00

STA. 137+00

STA. 167+00

STA. 118+00

POST Sta. 140+27.43 & POT Sta. 113+09.00 Set PK nail w/tag on EW-140 27.36' W. to sec. cor. 2612.43' E. to 1/4 cor.

POC Sta. 140+48.44 & POT Sta. 112+81.65 on EW-140 2454.23' W. to 1/4 cor. 199.24' E. to sec. cor.

PI 112+81.65 N.00°03'10.78" W. 2652.10' (326.05)

PI 115+87.04 S 89°47'30.57" W. 2639.79'

POB Sta. 100+00.00 I.P. on Fnd. 3/8" & NS-283 & A011 1326.73 & EW-140 & & SURVEY - CR1400 S 89°50'44.43" W. 2653.47'

POB STA 100+00.00

PRES. R/W R=5629.58' L=1151.86' Ch=1149.85' N15°02'43"W

297.4'

125'

853.82'

N89°50'44.43"E

355.00' PRES. R/W

162.51' N45°30'22"E

234.14' N00°30'22"E

L=365.30' PRES. R/W

R=1361.70' L=590.96' Ch=586.34' S11°55'36"E

L=225.66'

307.47' N24°21'35"W

PRES. R/W

N89°52'07"E 1666.00'

10382.21'

506.80'

N89°52'07"E 242.87'

N00°13'07"E 221.09'

N20°06'47"W 202.17'

N00°13'07"E 151.92'

N00°13'07"E 169.70'

S 44°52'38" 66.80'

S 55°37'25" E 179.58'

S35°36'25"E 263.76'

R=545.06' L=339.96' Ch=334.41' S17°38'57"E

R=348.85' L=330.55' Ch=318.32' S62°38'25"E

R=270.79' L=90.16' Ch=89.75' N7°01'39"E

R=473.84' L=160.85' Ch=160.08' S45°19'55"E

L=89.33'

N44°16'54"E 167.67'

N25°37'33"W 325'

N44°31'23"W 91.21'

S 44°39'16" E 50'

S 89°44'43" W. 1326.73

S89°50'44"W 546.57'

N89°52'07"E 985.12'

S 89°53'28.73" W. 2648.98'

POE STA 115+87.04

POE Sta. 100+00.00 Fnd. 3/8" & NS-283 & EW-140 & & SURVEY - CR1400 & A011

115+87 Set PK nail w/tag 305.39' W. to sec. cor. 2334.40' E. to 1/4 cor.

ST Sta. 1135+70.73 Set PK nail w/tag

PI Sta. 112+81.65 Fnd. 3/8" I.P. on EW-140 & & NS-283 & POE Sta. 100+00.00

PI Sta. 147+93.78 Set 1/2" capped I.P. PI 147+93.78

STATUTORY R/W N 00°13'06.60" E 2653.46'

STATUTORY R/W

PRES. R/W

100+00 105+00 110+00 115+00 145+00 150+00 155+00 160+00 165+00 167+00

BM #216 CHICKASHA CITY LIMITS

BM #215 BM #13 BM #12

8507 8059 8508 7011 7632 7639 7639a 7640a 7640 7641 8601 7018 8579 8580 8574 8576 8578 8575 8060 8053a 8054a 8051a 8052a 8641a 7642 7642a 7643 7644 8047a 8048a 8056a 8055a 8050a 8049a 7645 7649 8063 8199 8602 7619 307 8564 8565 9104 308 464 8566 399 7668 7654 7655 7656 7660 310 8976 8982 8564

C-1 A001 8 SURVEY - U.S. 81 A012 SURVEY - 16th AVE. EW-140 NS-283

Public Service Co. of Okla. 10' Right-of-way Easement Bk. 1207, Pg. 342 Filed August 27, 1980

William C. Thompson Living Trust Bk. 4304, Pg. 435

Ninnekah Water Corp. 20' Water Line Easement Bk. 1022, Pg. 14 Filed May 13, 1976

Ninnekah Water Corp. 20' Water Line Easement Bk. 1047, Pg. 450 Filed February 7, 1977

Pike, Rhonda Revocable Trust Quit Claim Deed Bk. 4789, Pg. 480 Filed 07/23/2014

Pike, Rhonda Revocable Trust Quit Claim Deed Bk. 4789, Pg. 480 Filed 07/23/2014

Southwestern Bell Telephone Co. 16.5' Right-of-Way Easement (E/2, NE/4 & NE/4, SE/4 & SE/4, SEC 17 Obscure Description) Bk. 569, Pg. 481, 482 Filed 12/29/1953

State of Oklahoma Bk. 659, Pg. 639

Public 30' Roadway Easement Rec'd. Bk. 395, Pg. 200 Filed March 1, 1939

Public 30' Roadway Easement Rec'd. Bk. 395, Pg. 203 Filed March 1, 1939

Arkansas Louisiana Gas Co. 50' Pipeline Easement (W/2, SW/4, SEC 16 Obscure Description) Rec'd. Bk. 1196, Pg. 367 Filed June 12, 1980

Arkansas Louisiana Gas Co. 50' Pipeline Easement (W/2, SW/4, SEC 16 Obscure Description) Rec'd. Bk. 1206, Pg. 864 Filed August 22, 1980

Briggett Inc. Warranty Deed Rec'd. Bk. 2485, Pg. 219 Filed: October 28, 1992

Bobby M. Kizzia & Leslie B. Kizzia Warranty Deed Rec'd. Bk. 3928, Pg. 274 Filed: February 8, 2007

William C. Thompson Living Trust Bk. 4304, Pg. 435

PHILIP LANE GLENDA WAY CREEK HAVEN ESTATES

CURVE #1

PI STA= 147+93.78
X= 1982747.6623
Y= 602181.9456
Δ= 44°48'32.01" LT
D= 1°00'00.00"
T= 2362.08'
L= 4480.89'
R= 5729.58'
E= 467.80'

SCALE 1" = 100'

SDS 21 OF 76

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	CBM		SURVEY DATA SHEET
CHECKED	JTB		
APPROVED	JTB		
CREW	BDG		SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S21

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

SECTION 17
T-6-N, R-7-W

1327.80'
N 00°18'54.24" E
2655.60'

BM # 217

NS-2825

FW-1395

S 89°34'13.03" W
2675.16'
1321.28'

9020

7019

Pike, Rhonda Revocable Trust
Quit Claim Deed
Bk. 4789, Pg. 480
Filed 07/23/2014

POT Sta. 172+08.46
(Calculated, not set)
on FW-139.5 1/4 $
789.87' W. to 1/4 cor.
1859.11' E. to 1/4 cor.

PT Sta. 169+12.58
(Calculated, not set)

POT Sta. 183+21.04
Set 1/2" capped I.P.
on NS-282.5 1/4 $
1866.11' N. to 1/4 cor.
789.91' S. to 1/4 cor.

170+00

175+00

180+00

185+00

190+00

195+00

STA. 167+00

STA. 197+00

STA. 297+00

100' 50' 50' PT 169+12.58
S 45°07'22" W

100' 50' 50'
S 45°07'22" W

100' 50' 50'
N 45°07'22" E

311

312

313

A001
℄ SURVEY - U.S.81
N44°52'38.41"W

2648.98'
S 89°53'28.73" W

EW-1395

2656.02'
N 00°21'02.51" E

NS-2825

Pike, Rhonda Revocable Trust
Quit Claim Deed
Bk. 4789, Pg. 480
Filed 07/23/2014

7020

Public Service Co. of Okla.
Right-of-way Easement (No width)
(SEC. 8, 9, & 17 within OTA R-O-W for 6400'.
Obscure Description)
Bk. 755, Pg. 265
Filed 07/25/1963

STA. 281+00

8667

PI 282+00.00

PI Sta. 282+00.00
(Calculated, not set)

8669

8668

200'
125'
S 45°04'01" E

7680

1097.64'

200.08'
S 44°57'57" E

125'
N 45°04'00" W

FND. 5/8" I.P.
SET IN CONC.

PRES. R/W

BM #220

8100

R=7388.73'
L=230.30'
CH=120.60'
S45°45'50"W

POT Sta. 196+48.20 &
POST Set PK nail w/tag
742.35' ahead of PI

CHICKASHA CITY LIMITS

8670

8671

L=623.66'

7027

7683

7682

25.00'

200'

225'

315

314

8672

8674

8673

8675

Reliance Pipeline Co.
30' Pipeline Easement
Rec'd. Bk. 1442, Pg. 125
Filed October 2, 1984

N 90°00'00" E
50'
100'

7684

8677

8676

R=7413.73'
L=508.02'
CH=505.01'
S42°05'50"W

225'

7686

8679

200'
S 48°44'01" E

124.92'

124.93'
S 48°47'48" E
N 48°40'19" W

A004

7688

7689

8678

7687

N 41°15'59" E
101.50'

200'

25.00'

747.13'

℄ SURVEY - I-44
T.E. BAILEY TPK.

8681

8680

PRES. R/W

SCALE
1" = 100'

SDS 22 OF 76

PLS	JTB	
DRAWN	CBM	
CHECKED	JTB	
APPROVED	JTB	
CREW	BDG	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S22

8-87

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

SECTION 17
T-6-N, R-7-W

SECTION 18
T-6-N, R-7-W

SECTION 7
T-6-N, R-7-W

SECTION 8
T-6-N, R-7-W

GOV'T. LOT 7

GOV'T. LOT 11

GOV'T. LOT 12

GOV'T. LOT 15

GOV'T. LOT 16

GOV'T. LOT II

280+00

285+00

290+00

295+00

200+00

205+00

210+00

215+00

220+00

225+00

STA. 197+00

STA. 227+00

PRES. R/W

STATUTORY R/W

EW-139

NS-282

A001

℄ SURVEY - U.S.81

N44°52'38.41"W

L-1000.08'

L-1402.21'

L-499.55'

R-6988.73'

CH-1980.72'

CH-1988.84'

N45°15'28"E

1204.39'

N89°48'12"W

125.' N 45°04'00" W

200.08' S 44°57'57" E FND. 5/8" I.P. SET IN CONC.

7681

8295

8321

BM #1

8069

8012

7685

7696

7697

7692

7694

7695

9029

8103

8062a

8078

8627

8628

8380

8079

8381

7034

BM #2

BM #3

316

317

8630

8629

BM #4

8631

8153

8382

8080

8378

8015

8379

7035

7693

John Harper Thomas II, Et al.
Warranty Deed
Rec'd. Bk. 2506, Pg. 268
Filed Date: December 31, 1992

Sisexua Trust
Quit Claim Deed
Rec'd. Bk. 4308, Pg. 438
Filed Date: September 29, 2010

POT Sta. 209+52.76
Set 1/2" capped I.P.
on EW-139 ℄
808.52' W. to sec. cor.
1868.34' E. to 1/4 cor.

POT Sta. 196+48.20 &
POST Set PK nail w/tag
742.35' ahead of PI

POT Sta. 221+00.59
Set 1/2" capped I.P.
on NS-282 ℄
1838.69' N. to 1/4 cor.
813.89' S. to sec. cor.

POC Sta. 289+39.57 &
POT Sta. 196+51.96
Set PK nail w/tag

PT Sta. 292+98.50
Set PK nail w/tag

124.93' PT STA. 292+98.50
N 48°40'19" W
FND. 5/8" I.P.

Reliance Pipeline Co.
25' Pipeline Easement
Rec'd. Bk. 1442, Pg. 120
Filed October 2, 1984

658.53'
162.02'
N 0°22'39" E
658.56'
642.06'
N 0°18'53.88" E
2634.25'
2643.91'
S 89°56'26.44" W
1627.40'
658.75'
S 0°22'39" W
157.43'
174.24'
158.10'
N 0°05'51.03" W
2652.58'
1326.68'
N 0°10'00" E
1326.72'
1309.79'
100' 50' S 44°47'15" W
180.58'
180.28'
111.98'
100' 50' S 45°25'00" W
1192.34'
N 89°57'41" E
664.08'
N 0°19'43" E
1322.63'
336.97'
658.55'
667.16'
N0°04'33"W
2676.86'
S 89°57'48.57" W
332.48'
332.33'
2652.89'
S 0°19'19" E
16.5'
654.63'
1322.34'
2339.49'
100.53'
1326.45'
1326.29'
203.50'
26.36.07'
145.82'
N 89°57'21" E
1326.61'
N 0°10'00" E

SCALE
1" = 100'

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	CBM		SURVEY DATA SHEET
CHECKED	JTB		
APPROVED	JTB		
CREW	BDG		SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S23

SDS 23 OF 76

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

SECTION 7
T-6-N, R-7-W

PI Sta. 105+62.94
Set PK nail w/tag

POC Sta. 105+66.03
Set PK nail w/tag
on ℄ & NS-281.5 1/4 ℄
768.22' N. to 1/4 cor.
1881.79' S. to 1/4 cor.

8720 — 8721

POST Set 1/2" capped I.P.
107.46' ahead of PI
on NS-281.5 1/4 ℄
667.04' N. to 1/4 cor.
1982.97' S. to 1/4 cor.

7037

110+00

Reliance Pipeline Co.
25' Pipeline Easement
Rec'd. Bk. 1534, Pg. 219
Filed April 17, 1985

John H. Thomas II, Etal
Warranty Deed
Rec'd. Bk. 2266, Pg. 185
Filed December 26, 1990

PT Sta. 111+11.72
Set 1/2" capped I.P.

230+00 | 235+00 | 240+00 | 245+00

BM #6 | BM #7 | BM #5

POT Sta. 246+90.18
Set 1/2" capped I.P.
on EW-138.5 1/4 ℄
818.35' W. to 1/4 cor.
1824.06' E. to 1/4 cor.

Southwestern Light & Power Co.
Right-of-Way (No width specified)
Bk. 259, Pg. 76, 86, 90
Filed March 15, 1927

POT Sta. 114+33.22
Set 1/2" capped I.P.
on EW-138.5 1/4 ℄
397.88' W. to 1/4 cor.
2244.54' E. to 1/4 cor.

8725 | 8724 | 425 | 426 | 8727 | BM #8 | 7412

CHICKASHA CITY LIMITS

John H. Thomas II, Etal
Warranty Deed
Rec'd. Bk. 2266, Pg. 184
Filed December 26, 1990

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

PT Sta. 173+92.76
Set PK nail w/tag

L=662.55' R=2724.79' Ch=661.07' S19°37'13"W
L=403.55' R=2724.79' Ch=402.19' S19°37'13"W
L=1120.13' R=2824.79' Ch=1117.26' S19°37'13"W
L=236.06' R=2824.79' Ch=235.99' S19°37'13"W

7728 | PRES. R/W | 7727 | 7729 | 427 | 417

PT STA.111+11.72 50' 50' E S 59°15'46" E

369.08'

00°03'54.22" W 2650.02'

PT STA.173+92.76

S 89°56'08" W 2623.29'

EW-138.5

Chester Stanton Thomas, Etal
Warranty Deed
Rec'd. Bk. 2506, Pg. 270
Filed December 31, 1992

9032

POT Sta. 176+78.23
Set PK nail w/tag
on EW-138.5 1/4 ℄
293.04' W. to 1/4 cor.
2349.37' E. to 1/4 cor.

N 00°03'54.22" W 2646.28'

256+00

246.45'

A005 | 8390 | 428 | 8391 | 418 | 8392

N30°44'13.22"E 2345.1'

282.30'

Public
80' Roadway Easement
Rec'd. Bk. 498, Pg. 377
Filed Augus 13, 1947

7732 | PC STA.179+36.62 | 429 | 7731 | 321 | 322

PC Sta. 179+36.62
Set PK nail w/tag

180+00

POC Sta. 180+64.05 &
POT Sta. 251+58.67
Set 1/2" capped I.P.
POST Sta. 180+63.28
POT Sta. 251+55.75
Set PK nail w/tag

PC STA.116+48.25 50' 50' E S 59°15'47" E

115+00

419 | 7730 | 318 | 319 | 320

S 45°07'22" W 100'

N44°52'38.41"W

℄ SURVEY - U.S.81

A001

7036

STA. 227+00

8632

8718 | 8719

33' STATUTORY R/W
33' STATUTORY R/W N 00°05'51.03" W 2652.58'
2636.07'
1326.29'
1326.29'

GOV'T. LOT 15

Sisexua Trust
Quit Claim Deed
Rec'd. Bk. 4308, Pg. 438
Filed Date: September 29, 2010

SDS 24 OF 76

PC Sta. 179+36.62
Set 1/2" capped I.P.

POC Sta. 117+41.85 &
POT Sta. 250+64.41
Set 1/2" capped I.P.

POST Sta. 117+41.44 &
POT Sta. 250+62.84
Set 1/2" capped I.P.

CHICKASHA CITY LIMITS

EW-138.5

2642.41'
S 89°53'08" W 2636.30'

Chester Stanton Thomas, Etal
Warranty Deed
Rec'd. Bk. 2506, Pg. 270
Filed December 31, 1992

7038

PT Sta. 123+07.45
Set 1/2" capped I.P.

SECTION 7
T-6-N, R-7-W

SCALE
1" = 100'

PI Sta. 119+79.31
Set 1/2" capped I.P.

120+00

PI 119+79.31 50' S 65°51'17" E

420 | 100'

L=668.96' R=2824.79' Ch=667.43' N24°08'43"E
L=669.37' R=2904.79' Ch=667.96' N24°08'43"E
L=669.38' R=3004.79' Ch=668.86' N24°08'43"E

185+00

Norge Water and Sewer Co. Inc.
20' Easement
Bk. 1020, Pg. 429
Filed April 23, 1976

PI 182+67.67
Fnd. 1/2" I.P.

STA. 257+00

A006 | A005 | 430 | 90.60' | FND. 1/2" I.P.

PT STA.185+95.79

N 72°26'47" W 50' 50'

8738 | 7735 | 431 | 8174

185.91'

S 72°19'52" E 54.35'

233.70'

R=50' ④

6

PT STA.123+07.45 50' 50' S 72°26'47" E

7733 | 421 | 7734

BM #90

208.70' | 208.70' | 208.70'

PRES. R/W | PRES. R/W | PRES. R/W

1932.04'

Public Service Co. of Okla.
Right-of-way Easement
(No width specified)
(SW/4, NE/4, Sec. 7
Obscure Description)
Bk. 818, Pg. 691
Filed August 8, 1966

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	CBM		SURVEY DATA SHEET
CHECKED	JTB		
APPROVED	JTB		SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S24
CREW	BDG		

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

SECTION 7
T-6-N, R-7-W

CHICKASHA CITY LIMITS — 1320.86'

8641.72'

8161

N 00°03'54" W

PT Sta. 275+17.98
Set 1/2" capped I.P.

7040

275+00

270+00

265+00

260+00

280+00

285+00

GOV'T. LOT 5

Chester Stanton Thomas, Etal
Warranty Deed
Rec'd. Bk. 2506, Pg. 270
Filed December 31, 1992

POT Sta. 258+51.31
Set 1/2" capped I.P.
on NS-2815 1/4 $
1821.84' N. to 1/4 cor.
824.44' S. to 1/4 cor.

POC Sta. 283+51.69 &
POT Sta. 109+02.53
Set PK nail w/tag
on EW-138 $
902.53' W. to sec. cor.
1717.22' E. to 1/4 cor.

POST Sta. 284+08.38 &
POT Sta. 108+17.55
Set PK nail w/tag
on EW-138 $
817.55' W. to sec. cor.
1802.20' E. to 1/4 cor.

STA. 103+00

16.5' STATUTORY R/W

STATUTORY R/W 16.5'

2619.75'
S 89°41'13.07" W

EW-138

Y283.28'
R300.00'
T283.25'

N 60°00'00" W
100' 50'

BM #16

326

325

S 65°00'00" E
50' 150'

STA. 257+00

50' 50' S 45°47'28" W 100'

7039

N44°52'38.41"W

A001

℄ SURVEY - U.S.81

324

PC 275+17.98

BM #9

PT Sta. 185+95.79
Set PK nail w/tag

NS-2815

N 00°03'54.22" W 2646.28'

BM #10

BM #14

CHICKASHA CITY LIMITS

N00°03'54"W 1320.86'

8567
8160
8577

GOV'T. LOT 11

STA. 287+00

110+00

Sharon K. Powell Living Trust
Quit Claim Deed
Bk. 4342, Pg. 258
Filed 01/18/2011

8173

S 72°19'52" E 233.70'

54.35'

9
8074a
8075a

61.05'

61.05'

EMERALD STREET

208.70'

208.70'

208.70'

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

SECTION 1
T-6-N, R-8-W

SECTION 6
T-6-N, R-7-W

GOV'T. LOT 11

GOV'T. LOT 10

GOV'T. LOT 9

1303.34' STATUTORY R/W
33'
7045
50.36'
S 59°44'34" W
7743
466
9036
1320.14' STATUTORY R/W
33'
16.5'
16.5'
28.32'
N 00°34'29" E
7745
31.30'
S 43°59'29" E
1283.25' STATUTORY R/W
POB Sta. 100+00.00
Fnd. 1" I.P. on EW-138 & NS-281
POB STA.100+00.00
33' STATUTORY R/W
33' STATUTORY R/W
1312.19'
1328.72'
1312.19'
327
290+00
2657.43'
N 00°01'28.45" E
NS-281
8185
8581
8582
105+00
664.34'
664.36'
A001
℄ SURVEY - U.S.81
C-2
287+00
STA. 287+00.00
BM #17
BM #18
CURVE #2
PI STA= 299+85.58
X= 1971856.8057
Y= 613119.5346
Δ= 46°36'02.96" RT
D= 1°00'00.00"
T= 2467.60'
L= 4660.08'
R= 5729.58'
E= 508.78'
Public Service Co. of Okla.
Right-of-Way (No width specified)
(SE/4, SE/4, Sec. 1,
Obscure Description)
Rec'd. Bk. 522, Pg. 409
Filed October 8, 1948
7044
Sharon K. Powell Living Trust
Quit Claim Deed
Bk. 4342, Pg. 258
Filed 01/18/2011
POB Sta. 100+00.00
Fnd. 1" I.P. on EW-138 & NS-281 ℄
1312.19'
S 64°47'48" W
295+66.53
POST Sta. capped I.P.
Set 1/2" capped I.P.
on NS-281 ℄
1832.28' N. to 1/4 cor.
825.15' S. to sec. cor.
50'
50'
328
50'
50'
S 68°25'23" W
PI Sta. 299+85.58
Set 1/2" capped I.P.
PI 299+85.58
300+00
1320.18'
S89°49'25"E
Sharon K. Powell Living Trust
Quit Claim Deed
Bk. 4342, Pg. 258
Filed 01/18/2011
Public Service Co. of Okla.
Right-of-Way (No width specified)
(S/2, NE/4, SE/4, Sec. 1,
Obscure Description)
Rec'd. Bk. 522, Pg. 409
Filed October 8, 1948
POC Sta. 303+96.57
Set 1/2" capped I.P.
on NS-281 ℄
829.25' N. to 1/4 cor.
1828.18' S. to sec. cor.
305+00
1320.36'
S89°52'26"E
Catherine T. Rempe
Surviving Joint Tenant
Bk. 3920, Pg. 370
Filed 01/09/2007
POC Sta. 312+44.89
Set 1/2" capped I.P.
on EW-137.5 1/4 ℄
2466.69' W. to 1/4 cor.
174.40' E. to sec. cor.
310+00
1320.54'
POST
Set 1/2" capped I.P.
1536.36' ahead of PI
on EW-137.5 1/4 ℄
2390.83' W. to 1/4 cor.
250.25' E. to sec. cor.
EW-137.5
315+00
Catherine T. Rempe
Surviving Joint Tenant
Bk. 3920, Pg. 370
Filed 01/09/2007
2641.09'
N 89°55'27.10" W
7048
331
735.86'
330
100'
174.40'
664.34'
664.36'
1328.69'
BM #19
BM #20
7760
9041
7761
2657.43'
N 00°01'28.45" E
664.35'
664.36'
1328.68'
N 01°28" E
33' STATUTORY R/W
NS-281
STATUTORY R/W
318+00
STA. 318+00.00
2618.71'
S 89°53'38.49" W
EW-137.5
1298.71'
Carl J. Rempe &
Catherine T. Rempe
Affdt. of Surviving Joint Tenant
Rec'd. Bk. 2966, Pg. 520
Filed July 31, 1997
Carl J. Rempe &
Catherine T. Rempe
Affdt. of Surviving Joint Tenant
Rec'd. Bk. 2966, Pg. 520
Filed July 31, 1997
1326.37'
N 00°00'09" E
1320.00'
S 89°41'26" W
1326.37'
663.18'
N 00°00'09" E
8184
1299.23'
S89°41'26"W
7047
SCALE
1" = 100'

SDS 26 OF 76

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	CBM		SURVEY DATA SHEET
CHECKED	JTB		
APPROVED	JTB		
CREW	BDG		SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S26

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

SECTION 1
T-6-N, R-8-W

SECTION 36
T-7-N, R-8-W

SECTION 6
T-6-N, R-7-W

SECTION 31
T-7-N, R-7-W

STA. 318+00

STA. 348+00

STA. 110+00

320+00

325+00

330+00

335+00

340+00

345+00

115+00

120+00

125+00

STA. 128+00

A001
℄ SURVEY - U.S.81
N01°43'24.55"E

PT Sta. 321+78.07
Set 1/2" capped I.P.

PT 321+78.07

POT Sta. 339+04.90 &
POT Sta. 119+53.38
Set 1/2" capped I.P.
on EW-137 ℄
247.08' W. to 1/4 cor.
171.45' E. to sec. cor.

7049
Catherine T. Rempe
Surviving Joint Tenant
Bk. 3920, Pg. 370
Filed 01/09/2007

1320.72'
S89°57'45"E

100'
N 88°42'27" W
50'
50'

1320.81'
S89°58'55"E

1320.90'
N89°59'56"E

Robert W. Larson Jr.
Lynn G. Larson
Warranty Deed (1/2 Interest)
Bk. 1973, Pg. 49
Filed 07/11/1988

Kuhlman, Arthur & Gari & Mona
Quit Claim Deed (1/2 Interest)
Bk. 3107, Pg. 463
Filed 04/07/1999

7770
7771

Public
50' Roadway Easement
Rec'd. Bk. 919, Pg. 645
Filed May 23, 1971

Public
50' Roadway Easement
Rec'd. Bk. 919, Pg. 645
Filed May 23, 1971

7777
7776

Public
50' Roadway Easement
Rec'd. Bk. 919, Pg. 645
Filed May 23, 1971

Robert W. Larson Jr.
Lynn G. Larson
Warranty Deed (1/2 Interest)
Bk. 1973, Pg. 49
Filed 07/11/1988

Kuhlman, Arthur & Gari & Mona
Quit Claim Deed (1/2 Interest)
Bk. 3107, Pg. 463
Filed 04/07/1999

Public
50' Roadway Easement
Rec'd. Bk. 919, Pg. 638, 645
Filed May 23, 1971

PRES. R/W
1304.75'
EW-137
1321.27'
1304.76'
STATUTORY R/W

BM #91

Southwestern Bell Telephone Co.
50' Right-of-Way Easement
Rec'd. Bk. 984, Pg. 281
Filed December 30, 1974

7058

Livingston Family Revocable Trust
Warranty Deed
Bk. 4277, Pg. 133
Filed June 4, 2010

Phillips Petroleum Co.
20' Right-of-Way
(SE/4, SE/4, Sec. 36
Obscure Description)
Rec'd. Bk. 1049, Pg. 890
Filed March 3, 1977

2642.53'
S 89°55'19.99" W

7051

16.5'

333

50'

7778
S 44°51'42" W
36.87'
FND. 60D NAIL
IN 6" FENCE POST

468
7763

100'
N 60°00'00" E
50'

8782

2637.62'
N 00°00'34.84" W
PI Sta. 121+24.83
Fnd. 5/8" I.P. on
EW-137 ℄ & NS-281 ℄

1302.32'
1318.81'
1302.31'
33'
NS-281
STATUTORY R/W

BM #25

8783
FND. 5/8" I.P.

9044
7779
BM #24
7764

8086a
FND. 60D NAIL
IN 6" FENCE POST
SET 40D NAIL
IN 6" FENCE POST
S 02°32'50" E
25.99'
S 17°11'20" E
26.86'

PI 121+24.83

1280.91'
℄ SURVEY - GRAND AVE.
A014
1280.89'

2617.40'
N 89°52'51.4" W
1291.40'

Southwestern Bell Telephone Co.
50' Right-of-Way Easement
Rec'd. Bk. 984, Pg. 281
Filed December 30, 1974

Phillips Petroleum Co.
20' Right-of-Way
(W. 19.18 ac. Lot 9, Sec. 31
Obscure Description)
Rec'd. Bk. 1049, Pg. 890
Filed March 3, 1977

Livingston Family
Revocable Trust
Warranty Deed
Bk. 4277, Pg. 133
Filed June 4, 2010

GOV'T.
LOT 9

GOV'T.
LOT 8

GOV'T.
LOT 9

8584
664.35'
STATUTORY R/W
33'
332.17'
332.18'
1328.68'
STATUTORY R/W
N 01°28" E

8195

8585
332.18'

BM #21

8773

8586
8772

8198

7937

PT 321+78.07

2657.43'
NS-281
N 00°01'28.45" E

S89°59'36"E
1296.06

8778
278.69'
1328.77'
1312.18'

8779

BM #23

Carl J. Rempe &
Catherine T. Rempe
Affdt. of Surviving Joint Tenant
Rec'd. Bk. 2966, Pg. 520
Filed July 31, 1997

7050

Carl J. Rempe &
Catherine T. Rempe
Affdt. of Surviving Joint Tenant
Rec'd. Bk. 2966, Pg. 520
Filed July 31, 1997

7057

SCALE
1" = 100'

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	CBM		SURVEY DATA SHEET
CHECKED	JTB		
APPROVED	JTB		
CREW	BDG		SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S27

SDS 27 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

SECTION 36
T-7-N, R-8-W

SECTION 31
T-7-N, R-7-W

GOV'T. LOT 9

GOV'T. LOT 8

GOV'T. LOT 7

Livingston Family Revocable Trust
Warratny Deed
Bk. 4277, Pg. 133
Filed June 4, 2010

Mid Continent Pipe Line Co.
20' Right-of-Way
(S/2, NE/4, SE/4, Sec. 36
Obscure Description)
Rec'd. Bk. 1032, Pg. 425
Filed September 13, 1976

Mid Continent Pipe Line Co.
20' Right-of-Way
(S/2, NE/4, SE/4, Sec. 36
Obscure Description)
Rec'd. Bk. 1046, Pg. 364
Filed January 27, 1977

Phillips Petroleum Co.
20' Right-of-Way
(S/2, N/2, SE/4, Sec. 36
Obscure Description)
Rec'd. Bk. 1049, Pg. 890
Filed March 3, 1977

Livingston Family Revocable Trust
Warratny Deed
Bk. 4277, Pg. 133
Filed June 4, 2010

Phillips Petroleum Co.
20' Right-of-Way
(N/2, NE/4, SE/4, Sec. 36
Obscure Description)
Rec'd. Bk. 1054, Pg. 579
Filed April 21, 1977

David L. Perryman &
Gwendolyn Jo Perryman
Trustee's Deed
Rec'd. Bk. 2078, Pg. 284
Filed May 19, 1989

POT Sta. 365+43.98
Set 1/2" capped I.P.
on EW-136.5 1/4 §
2550.40' W. to 1/4 cor.
9163' E. to 1/4 cor.

Public
50' Roadway Easement
Rec'd. Bk. 1353, Pg. 177
Filed April 7, 1983

SCHENK, DON
SCHENK, ELIZABETH
REVOCABLE TRUST
Quit Claim Deed
Rec'd. Bk. 2889, Pg. 507
Filed October 8, 1996

Phillips Petroleum Co.
Right-of-Way
(NE/4, Sec. 36
Obscure Description)
Rec'd. Bk. 1051, Pg. 155
Filed March 16, 1977

Phillips Petroleum Co.
50' Pipeline Right-of-Way
(E/2, NE/4, Sec. 36
Obscure Description)
Rec'd. Bk. 2968, Pg. 275
Filed Jun 7, 1994

Public Service Co. of Okla.
10' Right-of-Way Easement
Rec'd. Bk. 2348, Pg. 57
Filed August 19, 1991

Mid Continent Pipe Line Co.
20' Pipeline Easement
(Lot 8, Sec. 31
Obscure Description)
Rec'd. Bk. 1032, Pg. 425
Filed September 7, 1976

Phillips Petroleum Co.
20' Right-of-Way
(W. 19.5 ac. Lot 8, Sec. 31
Obscure Description)
Rec'd. Bk. 1049, Pg. 890
Filed March 3, 1977

Livingston Family Revocable Trust
Warratny Deed
Bk. 4277, Pg. 133
Filed June 4, 2010

Mid Continent Pipe Line Co.
20' Easement
Rec'd. Bk. 1046, Pg. 851
Filed January 31, 1977

Mid Continent Pipe Line Co.
20' Easement
(N. 10 ac. Lot 8, Sec. 31
Obscure Description)
Rec'd. Bk. 1030, Pg. 734
Filed August 25, 1976

David L. Perryman &
Gwendolynn Jo Perryman
Warranty Deed
Rec'd. Bk. 4259, Pg. 13
Filed March 23, 2010

Phillips Petroleum Co.
33' Right-of-Way
(S/2, NW/4, & S/2, N/2, NW/4,
Sec. 31, Obscure Description)
Rec'd. Bk. 1293, Pg. 890
Filed March 22, 1982

COMMISSIONER'S LAND OFFICE
(Book & Page Not Found)

SCALE
1" = 100'

PLS	JTB	
DRAWN	CBM	
CHECKED	JTB	
APPROVED	JTB	
CREW	BDG	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S28

SDS 28 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

CURVE #3

PI STA= 413+90.54
X= 1972208.0949
Y= 624794.3170
Δ= 74°34'44.76" RT
D= 1°30'00.00"
T= 2908.75'
L= 4971.94'
R= 3819.72'
E= 981.43'

SECTION 36
T-7-N, R-8-W

SECTION 25
T-7-N, R-8-W

SECTION 31
T-7-N, R-7-W

SECTION 30
T-7-N, R-7-W

Raw Crude, LLC.
25' Pipeline Easement
(NE/4, Sec. 36
Obscure Description)
Rec'd. Bk. 3451, Pg. 386
Filed Jun 22, 2003

UMC Petroleum Corporation
Pipeline Right-of-Way
(No width specified)
(NE/4, Sec. 36
Obscure Description)
Rec'd. Bk. 2857, Pg. 556
Filed May 3, 1996

Public Service Co. of Okla.
10' Right-of-Way Easement
Rec'd. Bk. 2348, Pg. 57
Filed August 19, 1991

Mid Continent Pipe Line Co.
50' Right-of-Way
(NE/4, Sec. 36
Obscure Description)
Rec'd. Bk. 1046, Pg. 366
Filed January 27, 1977

Koch Industries Inc.
Right-of-Way
(No width specified)
(NE/4, Sec. 6,
Obscure Description)
Rec'd. Bk. 896, Pg. 23
Filed May 10, 1971

Rural Water, Sewer and
Solid Waste Mgt. Dist. No. 6
20' Right-of-Way Easement
(NE/4, Sec. 36
Obscure Description)
Bk. 1018, Pg. 314
Filed April 1, 1976

SCHENK, DON
SCHENK, ELIZABETH
REVOCABLE TRUST
Quit Claim Deed
Rec'd. Bk. 2889, Pg. 507
Filed October 8, 1996

Rural Water, Sewer and
Solid Waste Mgt. Dist. No. 6
20' Right-of-Way Easement
Bk. 1323, Pg. 545
Filed 09/28/1982

Ariana Alford
Trustee Deed
Bk. 3875, Pg. 301
Filed 08/15/2006

SCHENK, JEFFREY WADE
Rec'd. Bk. 3848, Pg. 262
Filed: Not Found

Rural Water, Sewer and
Solid Waste Mgt. Dist. No. 6
20' Right-of-Way Easement
Bk. 1323, Pg. 539, 542
Filed 09/28/1982

COMMISSIONER'S LAND OFFICE
(Book & Page Not Found)
Rural Water, Sewer and
Solid Waste Mgt. Dist. No. 6
20' Easement
(W/2 Lot 6, Sec. 31
Obscure Description)
Bk. 1018, Pg. 279
Filed April 1, 1976

COMMISSIONER'S LAND
OFFICE (Book & Page Not
Found)

COMMISSIONER'S LAND OFFICE
(Book & Page Not Found)

Dry Creek Development, L.L.C.
Warranty Deed
Rec'd. Bk. 3206, Pg. 354
Filed June 26, 2000

Gary Don Whitaker &
Donna Fay Whitaker
Quit Claim Deed
Rec'd. Bk. 4329, Pg. 590
Filed December 16, 2010

Rural Water, Sewer and
Solid Waste Mgt. Dist. No. 6
20' Right-of-Way Easement
Bk. 1323, Pg. 538
Filed 09/28/1982

Johnny Paul Franklin &
Holly F. Franklin
Warranty Deed
Rec'd. Bk. 3171, Pg. 165
Filed January 28, 2000

Phillips Petroleum Co.
33' Right-of-Way
(S/2, NW/4, & S/2, N/2, NW/4,
Sec. 31, Obscure Description)
Rec'd. Bk. 1293, Pg. 890
Filed March 22, 1982

POC Sta. 427+15.26
Set 1/2 capped I.P.
on NS-281 ℄ sec. cor.
301.97' N. to 1/4 cor.
2335.65' S. to 1/4 cor.

POST Sta. 391+82.79
POT Sta. 110+88.19
Set 1/2" capped I.P.
on EW-136 ℄
2629.72' W. to 1/4 cor.
11.82' E. to sec. cor.

POC Sta. 391+88.89 &
POT Sta. 111+53.48
Set 1/2" capped I.P.
on EW-136 ℄
53.47' W. to sec. cor.
2559.18' E. to 1/4 cor.

POST Sta. 395+59.68
Set 1/2" capped I.P.
on NS-281 ℄
2274.34' N. to 1/4 cor.
376.74' S. to sec. cor.

PC Sta. 384+81.79
Set 1/2" capped I.P.

PI Sta. 111+00.01
Fnd. 3/8" I.P. on
EW-136 ℄ & NS-281 ℄

FND. 3/8" I.P.

PC 384+81.79

POE STA. 122+00.01

PI 122+00.01

STA. 378+00
STA. 380+00
STA. 385+00
STA. 390+00
STA. 395+00
STA. 400+00
STA. 105+00
STA. 110+00
STA. 115+00
STA. 120+00
STA. 122+00

BM #30
BM #31
BM #33

GOV'T. LOT 9
GOV'T. LOT 6

CHICKASHA CITY LIMITS

SCALE
1" = 100'

PLS	JTB	
DRAWN	CBM	
CHECKED	JTB	
APPROVED	JTB	
CREW	BDG	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S29

SDS 29 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

SECTION 25
T-7-N, R-8-W

SECTION 30
T-7-N, R-7-W

STA. 102+00

8849 — 50' 50' — 8850 — S 63°44'16" W 75' 50' 50' — 340

STATUTORY R/W 33'

1325.54'
1325.52' STATUTORY R/W

PI 413+90.54

442

50' 50' 50' S 42°29'48" W

PT STA 103+65.42

8863
8860
8861
8862

8852 — 8176a

BM #69 — 8177a

8851

1282.88' RW-1355

105+00

Ariana Alford
Trustee Deed
Bk. 3875, Pg. 301
Filed 08/15/2006

PT Sta. 103+65.42
Set 1/2" capped I.P.

POST &
POT Sta. 104+05.78
351.09' ahead of PI
(Calculated, not set)

Reliance Pipeline Co.
50' Pipeline Easement
(NW/4, SW/4 SEC 30
Obscure Description)
Rec'd. Bk. 1651, Pg. 342
Filed January 21, 1986

S 89°57'33.60" W 2602.91'

2634.54'

N 00°04'25.51" W 2651.08'

8259
8607

STATUTORY R/W
33' 1325.54'
1309.02' STATUTORY R/W

405+00

CURVE #3

PI STA= 413+90.54
X= 1972208.0949
Y= 624794.3170
Δ= 74°34'44.76" RT
D= 1°30'00.00"
T= 2908.75'
L= 4971.94'
R= 3819.72'
E= 981.43'

410+00

POC Sta. 412+00.00 &
POT Sta. 111+82.99
Set 1/2" capped I.P.

℄ SURVEY - IOWA AVE. A016

GOV'T.
LOT 8

415+00

8865
8866
8867
8284

Reliance Pipeline Co.
50' Pipeline Easement
(E/2, NW/4, SW/4 SEC 30
Obscure Description)
Rec'd. Bk. 1442, Pg. 47
Filed October 2, 1984

SCHENK, JEFFREY WADE
Rec'd. Bk. 3848, Pg. 262
Filed: Not Found

110+00

CHICKASHA CITY LIMITS

SCHENK, JEFFREY WADE
Rec'd. Bk. 3848, Pg. 262
Filed: Not Found

1287.77' N 89°54'43" E

A001
℄ SURVEY - U.S.81 C-3

341

8260

STA. 400+00

CHICKASHA CITY LIMITS

1324.48' N 00°17'07" W

50' 50' 50' N 86°41'29" W 100'

Arkansas Louisiana Gas Co.
40' Pipeline Easement
Rec'd. Bk. 871, Pg. 441
Filed February 16, 1970

S 47°30'20.2" E

Dry Creek Development, L.L.C.
Warranty Deed
Rec'd. Bk. 3206, Pg. 354
Filed June 26, 2000

1324.49' N 00°17'07" W

STA. 420+00

115+00

BM #34

1325.02' N00°10'39" W

BM #35
7070

BM #36

Dry Creek Development, L.L.C.
Warranty Deed
Rec'd. Bk. 3206, Pg. 354
Filed June 26, 2000

PC Sta. 116+27.03
Set 1/2" capped I.P.

Arkla Energy Resourses
50' Pipeline Easement
(E/2, SW/4, SW/4, SEC 30
Obscure Description)
Rec'd. Bk. 1521, Pg. 101
Filed March 18, 1985

8848
8845

50' 50' 50' S 42°29'48" W

PC STA 116+27.03

443

GOV'T.
LOT 9

8847

120+00

SECTION 30
T-7-N, R-7-W

1320.06' N 89°54'43" E

PT STA 120+14.16

BM #70

PI 118+30.03 50' 50' 50' S 21°12'15" W

PI Sta. 118+30.03
Set 1/2" capped I.P.

445

50' 50' 50' S 00°04'56" E

SECTION 30
T-7-N, R-7-W

STA. 122+00

SCALE
1" = 100'

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	CBM		SURVEY DATA SHEET
CHECKED	JTB		
APPROVED	JTB		
CREW	BDG		SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S30

SDS 30 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

CURVE #3
PI STA= 413+90.54
X= 1972208.0949
Y= 624794.3170
Δ= 74°34'44.76" RT
D= 1°30'00.00"
T= 2908.75'
L= 4971.94'
R= 3819.72'
E= 981.43'

SECTION 25
T-7-N, R-8-W I.P.

8290
N89°57'34"E 295.00'
295.00' N 00°17'07" W
8291
RAWSON, REBECCA KATHLEEN
724 COUNTY ROAD 1355
CHICKASHA, OK 73018
NORTH 295.00'

Reliance Pipeline Co.
20' Pipeline Easement
Rec'd. Bk. 1442, Pg. 62
Filed October 2, 1984
8883
8884

POST Set 1/2 capped I.P.
1881.97' ahead of PI
on EW-135.5 1/4 &
1886.44' W. to 1/4 cor.
716.47' E. to 1/4 cor.

POC Sta. 427+15.26
Set 1/2 capped I.P.
on EW-135.5 1/4 &
2187.85' W. to 1/4 cor.
415.06' E. to 1/4 cor.

POC Sta. 431+60.54 &
POT Sta. 1117+82.54
Set 1/2 capped I.P.
on NS-2815 1/4 &
2484.88' N. to 1/4 cor.
162.34' S. to 1/4 cor.

RAWSON, DAVID DALE & JO EDYTHA
(BK. & PG. NOT FOUND)

295.00'
EW-135.5
S 89°57'33.60" W
2602.91'
8292
8885
8886
7072
343
8882
8881
8877
50' 50' 50' N 28°44'36" W
328.05'
1025.03'
100' 50' 50' N 24°46'28" W
342
8880
8878
8875
8876
8874
8879
Reliance Pipeline Co.
50' Pipeline Easement
Rec'd. Bk. 1442, Pg. 49
Filed October 2, 1984
A001
℄ SURVEY - U.S.81
C-3

Chickasha Municipal Authority
40' Easement
Rec'd. Bk. 3537, Pg. 151
Filed September 18, 2003

CHICKASHA CITY LIMITS

50' 50' 100' N 44°59'59" W
345
344
100' 50' 50' N 13°41'51" W
346

SIMMONS, GLORIA MARCELLA VANDEVENTER
(W/2, NE/4, Less NE/4,
NW/4, NE/4, Sec. 30)
5329 26TH ST
ARLINGTON, VA 22207
(No Bk. & Pg. Found)

3" STL.
FENCE POST
8890
29.22'
N 59°38'02" W
9056
FND. 5/8"
CAPPED I.P.
471
8892
39.94'
S 48°24'42" W
FND. 60D NAIL IN
5" FENCE POST
BM #233
39.06'
S 36°01'51" W
8889

CHICKASHA CITY LIMITS

8873
8872
BM #37
Reliance Pipeline Co.
50' Pipeline Easement
Rec'd. Bk. 2490, Pg. 25-39
Filed November 12, 1992
8871
8870
8868
8869

Dry Creek Development, L.L.C.
Warranty Deed
Rec'd. Bk. 3206, Pg. 354
Filed June 26, 2000

Chickasha Municipal Authority
40' Easement
Rec'd. Bk. 3534, Pg. 270
Filed September 10, 2003

Reliance Pipeline Co.
50' Pipeline Easement
(Obscure Description)
Rec'd. Bk. 1442, Pg. 60
Filed October 2, 1984
8894
8895
8893
8896

PT Sta. 434+53.73
Set 1/2" capped I.P.

BM #39

EW-135.5
1318.24'
1319.56'
S 89°58'41.04" W
2636.48'
POST Sta. 1174+94.11
Set 1/2 capped I.P.
on NS-2815 1/4 &
2613.32' N. to 1/4 cor.
1173.90' S. to 1/4 cor.
Pl Sta. 1176+20.20
Fnd. 5/8" capped I.P.
at sec. cor.

NS-2822.5
W 00°17'10.07" W
2647.22'

Dan S. Winham &
Kathy R. Winham
Warranty Deed
Rec'd. Bk. 3361, Pg. 195
Filed March 15, 2002

℄ SURVEY - C.S.2815
1323.39'
8283
N89°55'17"E
2412.10'
8282
450.00'
N 00°17'05" W
450.00'
1317.89'
John A. Soos & Ramona G. Soos
Warranty Deed
Rec'd. Bk. 4140, Pg. 478
Filed December 1, 2008
BM #71

SECTION 25
T-7-N, R-8-W

STA. 420+00
STA. 425+00
STA. 430+00
STA. 435+00
STA. 440+00
STA. 105+00
STA. 110+00
STA. 115+00
STA. 120+00
STA. 125+00
STA. 126+00

SCALE
1" = 100'

SDS 31 OF 76

OKLAHOMA DEPARTMENT OF TRANSPORTATION						
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
	OKLA.					
REVISIONS						
DESCRIPTION					DATE	

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	CBM		SURVEY DATA SHEET
CHECKED	JTB		
APPROVED	JTB		
CREW	BDG		SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S31

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

SECTION 25
T-7-N, R-8-W

SECTION 29
T-7-N, R-7-W

HARDEN'S ACRES

LEDBETTER, DICK & DONNA
3103 FRISCO (HARDENS ACRES)
CHICKASHA, OK 73018
BK. 4270, PG. 102

SIMMONS, GLORIA MARCELLA VANDEVENTER
(W/2, NE/4, Less NE/4, NW/4, NE/4, Sec. 30)
5329 26TH ST
ARLINGTON, VA 22207
(No Bk. & Pg. Found)

Reliance Pipeline Co.
50' Pipeline Easement
(Obscure Description)
Rec'd. Bk. 1442, Pg. 58
Filed October 2, 1984

Grady County
10' Gas Line Easement
Rec'd. Bk. 324, Pg. 555
Filed February 5, 1931

Reliance Pipeline Co.
25' Pipeline Easement
Rec'd. Bk. 1506, Pg. 15-29
Filed February 11, 1985

BROWN, CHARLES A. (1/5)
PO BOX 595 (HARDENS ACRES)
CHICKASHA, OK 73023
BK. 4343, PG. 536
GREEN, KIMBERLY J. (4/5)
PO BOX 1973
BLANCHARD, OK 73010
BK. 4343, PG. 536

BROWN, DANIEL & PHYLLIS
317 N. 29TH ST.
(HARDENS ACRES)
CHICKASHA OK 73018
BK. 3252, PG. 435

SMITH, SHELDON R.
115 N. 29TH ST.
(HARDENS ACRES)
CHICKASHA, OK 73018
BK. 3766, PG. 1

SCHENK, DON
SCHENK, ELIZABETH
REVOCABLE TRUST
Quit Claim Deed
Rec'd. Bk. 2889, Pg. 507
Filed October 8, 1996
Govt. LOTS 6-7-10-11 & E/2, NW/4.
LESS 22.93 AC OF ROW

Dan S. Winham &
Kathy R. Winham
Warranty Deed
Rec'd. Bk. 3361, Pg. 195
Filed March 15, 2002

Reliance Gas Marketing Co.
50' Right-of-way Agreement
(Govt. LOTS 7 and 11, SEC. 29
Obscure Description)
Bk. 1884, Pg. 11 and 13
Filed 10/08/1987

CURVE #4
PI STA= 466+28.63
X= 1978118.7183
Y= 626234.8890
Δ= 52°20'18.72" LT
D= 1°40'57.84"
T= 1673.16'
L= 3110.33'
R= 3404.93'
E= 388.88'

GOV'T. LOT 10
GOV'T. LOT 11
GOV'T. LOT 6
GOV'T. LOT 7

POE Sta. 113+99.84
Set PK nail w/tag
on NS-282 &
993.71' N. to sec. cor.
1650.51' S. to 1/4 cor.

POC Sta. 459+19.84 &
POT Sta. 107+03.67
Set PK nail w/tag
on NS-282 &
1689.88' N. to sec. cor.
954.34' S. to 1/4 cor.

POST Sta. 107+03.67
& Sta. 458+74.54
Set PK nail w/tag
on NS-282 &
1829.36' N. to sec. cor.
250.67' S. to 1/4 cor.

PC Sta. 449+55.47
Set 1/2" capped I.P.

POB Sta. 100+00.00
Set PK nail w/tag
on NS-282 &
2393.55' N. to sec. cor.
250.67' S. to 1/4 cor.

BM #41 — BM #40 — BM #42 — BM #43 — BM #235

SCALE 1" = 100'

PLS	JTB	
DRAWN	CBM	
CHECKED	JTB	
APPROVED	JTB	
CREW	BDG	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S32

SDS 32 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

SECTION 29
T-7-N, R-7-W

SECTION 20
T-7-N, R-7-W

GOV'T. LOT 10

GOV'T. LOT 13

GOV'T. LOT 9

GOV'T. LOT 8

GOV'T. LOT 6

33'

55400 5700.21

553.48'

STATUTORY R/W

8089a

8090a

8325

1322.05' N00°39'34" E

336.00' 339.30' 61.59'

SCHENK, DON
SCHENK, ELIZABETH
REVOCABLE TRUST
Quit Claim Deed
Rec'd. Bk. 2889, Pg. 507
Filed October 8, 1996
Govt. LOTS 6-7-10-11 & E/2, NW/4,
LESS 22.93 AC OF ROW

1320.75' N 0°04'10" E

Frac Tech Services, LTD.
Warranty Deed
Rec'd. Bk. 3955, Pg. 473
Filed May 16, 2007

BM #60

8445

PRES. R/W 428.62'

S58°38'22.7"E

STA. 395+00

150' 150'

PRES. R/W 639.5'

S 89°53'47" E 735.91'

395+00

Public Service Co. of Okla.
10' Right-of-way Easement
Rec'd. Bk. 1006 Pg. 946
Filed October 29, 1975

8924
8925
8927
8926

Southwestern Bell Telephone Co.
16.5' Right-of-Way Easement
Bk. 664, Pg. 442
Filed 06/12/1958

City of Chickasha
20' Easement
Rec'd. Bk. 2840, Pg. 595
Filed February 20, 1996

8459

1321.11' N 00°03'01" E

Industrial Compounding, LLC
Warranty Deed
Rec'd. Bk. 3950, Pg. 34
Filing date not listed

Hadson Gas Systems
50' Right-of-Way Easement
(E/2, SW/4, Sec. 20
N. of Hwy 62, E. of Hwy 81,
Obscure Description)
Rec'd. Bk. 1988, Pg. 299
Filed August 25, 1988

866.50' S03°22'18" W

Andra McNeil
Deed (Type not found)
Bk. & Pg. (Not found)
Filed (Not found)

POC Sta. 488+24.58 &
POT Sta. 405+43.89
Set 1/2" capped I.P.

312.86'

8941

8942

7854

8785

400+00

8928
8929
8932
8931
8851
8930

1282.17'

PRES. R/W

505.28' S34°09'00" W

7850

486.69' PRES. R/W S23°00'00" W

495+00

490+00

485+00

480+00

475+00

470+00

500+00

STA. 500+00

STA. 470+00

8444
8745
7090

POC Sta. 480+65.80
Set 1/2" capped I.P.

276.44' 423.56'

8943
7816

704.13' S03°23'38" W

PRES. R/W

14.66' N01°16'00" E

7815
8945

7817

R=1183.20'
L=374.10'
Ch=372.54'
N10°18'53" E

PRES. R/W

8946

EW-135 47.53'

8328

7814

7812

R=2774.80'
L=166.80'
Ch=166.77'
N2°05'40" E

PRES. R/W 850.59' N 22°49'00" E

State of Oklahoma
Report of Commissioners
Bk. 842, Pg. 240
Filed 02/21/1968

N 89°59'16" W 150'

50' 50' N 45°00'00" W 100'

354
353

SET 1/2" CAPPED I.P.

PI 405+43.89

355

BM #237

8933
8934

20.27'

PI STA. 405+43.89

405+00

8005a
8004a

7098

℄ SURVEY - U.S.81

A001

PCC 480+65.80

100'

50' 50' S 66°02'10" E

SET 1/2" CAPPED I.P.

352

Public Service Co. of Okla.
20' Right-of-Way Easement
Rec'd. Bk. 852, Pg. 306
Filed December 9, 1968

8948
8947

493.17' S89°51'06" E

1200.11'

356

150' N 60°02'50" E 50'

State of Oklahoma
Report of Commissioners
Bk. 842, Pg. 240
Filed 02/21/1968

POT Sta. 405+64.16 &
POST Sta. 488+21.62
Set 1/2" capped I.P.

14.12' N08°24'16" E

N 16°17'16" E 397.46'

7846
8478

369.92' N 08°24'16" E PRES. R/W

BM #48

7845

7844

R=1193.20'
L=119.33'
Ch=119.33'
N05°31'52" W

253.48' N 8°23'4" W

7843

City of Chickasha
Easement & Right-of-Way Agreement
Rec'd. Bk. 1004, Pg. 407
Filed September 22, 1975

Arkansas Louisiana Gas Co.
10' Pipeline Easement
Rec'd. Bk. 1014, Pg. 132
Filed February 9, 1976

S89°59'15" E 6080.27'

R=480.00'
L=282.80'
Ch=278.73'
N08°29'17" E

PRES. R/W

7842

410+00

City of Chickasha
Warranty Deed
Rec'd. Bk. 3921, Pg. 135
Filed November 11, 2007

2644.25' N 00°03'41.97" W

115.282.5

1322.56'

1019.58' N 0°3'42" W

379.19' PRES. R/W N 23°58'0" E

273.73' N 27°43'0" E

7808

BM #44

7743

162.03' N 27°43'0" E

7809

R=1819.90'
L=306.76'
Ch=306.40'
N32°30'50" E

7810

BM #45

PRES. R/W 414.40' S37°22'00" W

7818
7811

N00°01'34"W 2644.03'

8327

2659.01' N89°51'06"W

1329.47' 599.41'

8949
8950

STATUTORY R/W

PRES. R/W

16.5'

8429

STA. 414+00

SCHENK, DON
SCHENK, ELIZABETH
REVOCABLE TRUST
Quit Claim Deed
Rec'd. Bk. 2889, Pg. 507
Filed October 8, 1996
Govt. LOTS 6-7-10-11 & E/2, NW/4,
LESS 22.93 AC OF ROW

POC Sta. 481+94.71
Set 1/2" capped I.P.
on EW-135 ℄
1471.74' W. to sec. cor.
1187.27' E. to 1/4 cor.

POST Sta. 481+94.97
Set 1/2" capped I.P.
on EW-135 ℄
1472.37' W. to sec. cor.
1186.64' E. to 1/4 cor.

Public Service Co. of Okla.
20' Right-of-Way Easement
Rec'd. Bk. 852, Pg. 306
Filed December 9, 1968

7417
BM #47

150' 722.70' PRES. R/W

8935
8936

Reliance Pipeline Co.
50' Right-of-way Agreement
(Govt. LOTS 6-7-10-11 & E/2, NW/4,
SEC. 29 Obscure Description)
Bk. 1506, Pg. 9
Filed 02/11/1985

1321.99' N 00°07'34" W

8743

8325

SCALE 1" = 100'

SECTION 29
T-7-N, R-7-W

SECTION 20
T-7-N, R-7-W

SDS 33 OF 76

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

PLS	JTB	
DRAWN	CBM	
CHECKED	JTB	
APPROVED	JTB	
CREW	BDG	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S33

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

SECTION 20
T-7-N, R-7-W

POB Sta. 100+00.00
Set 1/2" capped I.P.

1320.96'
N 00°03'09" E

1321.11'
N00°03'01" E

8473 8014a 7889 8013a 8474 8751 8891 8472 8968 7890 8959

Public Service Co. of Okla.
100' Right-of-Way Easement
Rec'd. Bk. 814, Pg. 173
Filed April 22, 1966

BM #73

Industrial Compounding, LLC
Warranty Deed
Rec'd. Bk. 3950, Pg. 34
Filing date not listed

POT Sta. 104+44.92
Set PK nail w/tag
on EW-134.5 1/4 &
1598.89' W. to 1/4 cor.
1049.54' E. to 1/4 cor.

105+00 &

Hadson Gas Systems
50' Right-of-Way Easement
(E/2, SW/4, Sec. 20
N. of Hwy 62, E. of Hwy 81,
Obscure Description)
Rec'd. Bk. 1988, Pg. 299
Filed August 25, 1988

POC Sta. 508+24.23
POT Sta. 111+45.40
Set 1/2" capped I.P.
768.26'

State of Oklahoma
120' Right-of-Way Easement
Rec'd. Bk. 187, Pg. 60
Filed September 5, 1929

State of Oklahoma
13' Right-of-Way Easement
Rec'd. Bk. 334, Pg. 248
Filed December 5, 1936

PRES. R/W
A009 ℄ SURVEY - OLD U.S.62
A008 ℄ SURVEY - U.S.81
PRES. R/W
2644.81'
N 89°56'13.40" W
341.81'
353.59'
℄ SURVEY - UNION PACIFIC RAILROAD
PRES. R/W

State of Oklahoma
80' Right-of-Way Easement
Rec'd. Bk. 187, Pg. 591
Filed August 6, 1929

Intersearch Gas Corp.
Right-of-Way Easement
(No width specified)
Rec'd. Bk. 2169, Pg. 173
Filed February 26, 1990

2521.70'
S00°20'07" W

Marlbeth Smith
Decree of Distribution & Discharge
Rec'd. Bk. 3247, Pg. 533
Filed December 20, 2000

Hadson Gas Systems
50' Right-of-Way Easement
(Lots 6 & 7, &
E/2, NW/4, Sec. 20
Obscure Description)
Rec'd. Bk. 1988, Pg. 301
Filed August 25, 1988

Louise Turley
Warranty Deed
Rec'd. Bk. 700, Pg. 530
Filed November 17, 1960

Public Service Co. of Okla.
Right-of-Way Easement
(Blanket Easement E/2, NW/4, Sec. 20)
Rec'd. Bk. 810, Pg. 402
Filed March 4, 1966

7103 8475 456 8015a 8752

POC Sta. 509+07.23
POT Sta. 111+46.26
Set 1/2" capped I.P.
on ℄ US 81 & ℄ UP RR

POC Sta. 509+74.78
Set 1/2" capped I.P.
on EW-134.5 1/4 &
2316.54' W. to 1/4 cor.
331.90' E. to 1/4 cor.

105+00

POT Sta. 108+31.77
Set 1/2" capped I.P.
on EW-134.5 1/4 &
1994.55' W. to 1/4 cor.
653.89' E. to 1/4 cor.

505+00
510+00
515+00
520+00
525+00

460 8018a 8017a 7910 8486 360 359 8754 8482 8481 8470 8483 362 7847 363 8477 8888 366 9066 7904 8020a 8036a 8035a 8031a 8032a 8033a 8019a 8755 8030a 8029a 8485 8487 7901 361 7902 7903 7912 7913 7905 7106 8493 BM #51 BM #52

City of Chickasha
10' Waterline Easement
Rec'd. Bk. 751, Pg. 581
Filed May 8, 1963

R=14130.85'
L=622.18'
Ch=622.13'
N11°08'15"W

669.84'
S14°35'00"W

840.67'
N10°54'07" E

R=14170.85'
L=1188.03'
Ch=1187.69'
N04°04'26" E

PRES. R/W

State of Oklahoma
Report of Commissioners
Bk. 860, Pg. 880
Filed 06/03/1969

City of Chickasha
30' Easement
Rec'd. Bk. 745, Pg. 37
Filed January 4, 1963

N77°49'40"W
271.73'

A001 ℄ SURVEY - U.S.81

State of Oklahoma
Quitclaim Deed
Bk. 864, Pg. 491
Filed 09/08/1969

278.02'
S89°56'13" E

State of Oklahoma
Report of Commissioners
Bk. 842, Pg. 240
Filed 02/21/1968

BM #49

N 16°17'16" E
208.30'

397.46'
276.27'

POST Sta. 508+62.49 &
POT Sta. 114+15.95
Set PK nail w/tag

POST Sta. 114+15.95
Set PK nail w/tag
3603.10' ahead of Mstr. PI

Allen, Beverly Rev. Trust
Warranty Deed
Bk. 4462, Pg. 142
Filed 02/06/2012

Johnson-Beck Properties, LLC
Quit Claim Deed
Bk. 4773, Pg. 171
Filed 06/11/2014

Orange Oil, LLC
Warranty Deed
Bk. 4777, Pg. 493
Filed 06/20/2014

POST Sta. 509+47.28 &
POT Sta. 114+33.28
Set PK nail w/tag
984.35'
N00°03'42"W

POST Sta. 114+90.26
Set PK nail w/tag
3687.97' ahead of Mstr. PI

POT Sta. 115+00.85
Set 1/2" capped I.P.
on NS-282.5 1/4 &
140.36' N. to 1/4 cor.
2503.89' S. to 1/4 cor.

POT Sta. 115+18.85
Set PK nail w/tag
on NS-282.5 1/4 &
1225.29' N. to 1/4 cor.
2418.96' S. to 1/4 cor.

2644.25'
N 00°03'41.97" W

2643.94'
N 00°03'41.97" W

CURVE #5

PI STA= 510+85.30
X= 1980024.7080
Y= 630523.0503
Δ= 23°48'44.87" LT
D= 0°24'00.31"
T= 3019.50'
L= 5951.83'
R= 14320.85'
E= 314.86'

Station comparison (UP RR)
Station 115+00.85 on this survey
Station 86+00.00 on SW02737(1) survey

PI Sta. 510+85.30
Set 1/2" capped I.P.
on EW-134.5 1/4 &
2638.60' W. to 1/4 cor.
9.84' E. to 1/4 cor.

2643.86'
N 89°56'13.40" W

Henry and Jo Ann
Hoffman Rev. Trust
Warranty Deed
Bk. 3972, Pg. 56
Filed 07/05/2007

Gerdes, Steven & Barbara
Warranty Deed
Bk. 3002, Pg. 72
Filed 01/29/1998

Smith Commercial Holdings LLC
Rec'd. Bk. 3918, Pg. 597
Filed January 4, 2007

State of Oklahoma
Right-of-Way Easement
Rec'd. Bk. 187, Pg. 590
Filed August 6, 1929

Public Service Co. of Okla.
100' Right-of-Way Easement
Rec'd. Bk. 814, Pg. 173
Filed April 22, 1966

SECTION 20
T-7-N, R-7-W

SCALE
1" = 100'

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	CBM		SURVEY DATA SHEET
CHECKED	JTB		
APPROVED	JTB		
CREW	BDG		SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S34

SDS 34 OF 76

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UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS	
DESCRIPTION	DATE

SECTION 20
T-7-N, R-7-W

SECTION 17
T-7-N, R-7-W

33'

358.08'
358.16'

8105a
8498
8016a

252.70'
S00°20'07"W

Intersearch Gas Corp.
Right-of-Way Easement
(No width specified)
Rec'd. Bk. 2169, Pg. 173
Filed February 26, 1990

STATUTORY R/W

STATUTORY R/W

805.39'
900.77'
1383.93'
1174.36'

EW-134

2638.13'
S 89°58'29.80" W

POST Set 5/8" capped I.P. on EW-134 & NS-282.5 1/4 &
2643.94' ahead of PI

POC Sta. 536+42.01
Set 1/2" capped I.P.
on EW-134 &
2633.21' W. to sec. cor.
4.93' E. to 1/4 cor.

PT Sta. 540+17.63
Set 1/2" capped I.P.
on NS-282.5 1/4 &
375.56' S. to 1/4 cor.
2267.31' N. to 1/4 cor.

EOP Sta. 543+00.00
Set 1/2" capped I.P.
on NS-282.5 1/4 &
657.94' S. to 1/4 cor.
1984.93' N. to 1/4 cor.

Louise Turley
Warranty Deed
Rec'd. Bk. 700, Pg. 530
Filed November 17, 1960

535+00

540+00

543+00

Cities Service Gas Co.
50' Easement
Rec'd. Bk. 1181, Pg. 279
Filed February 25, 1980

8046a
8045a
7915
7916
7921
7919
8044a
8043a

TRANSOK Pipeline Co.
50' Pipeline Easement
(E/2, SW/4, Sec. 17
Obscure Description)
Rec'd. Bk. 1264, Pg. 761
Filed September 28, 1981

R=14170.85'
L=1188.03'
Ch=1187.69'
N04°04'26"E

PRES. R/W

R=14180.85'
L=376.06'
Ch=376.04'
N00°54'41"E

PRES. R/W

7917

PRES. R/W

7918

PT 540+17.63

POE 543+00.00

State of Oklahoma
Report of Commissioners
Bk. 860, Pg. 880
Filed 06/03/1969

150'

140'

367
9069

7107

NS-282.5

2643.94'
N 00°03'41.97" W

A001

℄ SURVEY - U.S.81

N00°09'05.73"E

1321.44'

369

2642.87'
N 00°09'05.73" E

NS-282.5

CHICKASHA CITY LIMITS

7109
8503

7108

Do-Be Holstein Farms Company
Warranty Deed
Bk. 2695, Pg. 301
Filed 5/27/1994

8041a
8042a

368

100'

N 44°59'59" E

50'

50'

100'

135'

100'

50'

50'

N 90°00'00" E

STA. 530+00

R=14470.85'
L=1683.26'
Ch=1682.31'
N04°54'14"E

PRES. R/W

L=1326.18'

358.77'
N01°32'04"W

PRES. R/W

7907

7900

7909

7906

BM #53

8756

L=16.51'

BM #54

Rural Water, Sewer and
Solid Waste Mgt. Dist. No. 6
20' Right-of-Way Easement
(SW/4, SE/4, Sec. 17
Obscure Description)
Bk. 941, Pg. 897
Filed 05/23/1973

TRANSOK Pipeline Co.
50' Pipeline Easement
(SW/4, SE/4, Sec. 17
Obscure Description)
Rec'd. Bk. 1269, Pg. 579
Filed October 27, 1981

Mike D. Bevill
Easement for Rectifier Unit
(SE/4, Sec. 17
Obscure Description)
Rec'd. Bk. 1027, Pg. 817
Filed July 26, 1976

Station comparison
Station 540+17.63 on this survey*
Station 1481+80.81 on SW02737(1) survey*
Station 1481+80.81 on FAP No. F-162(37) plans

Gerdes, Steven & Barbara
Warranty Deed
Bk. 3002, Pg. 72
Filed 01/29/1998

2648.75'
S 89°58'29.80" W

CHICKASHA CITY LIMITS

Bevill, Michael & Paula
Warranty Deed
Bk. 977, Pg. 692
Filed 09/26/1974

1323.11'
S89°59'57"E

STATUTORY R/W

STATUTORY R/W

848.58'
1324.38'
1178.80'

33'

SCALE
1" = 100'

			OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
PLS	JTB		SURVEY DATA SHEET
DRAWN	CBM		
CHECKED	JTB		
APPROVED	JTB		
CREW	BDG		SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S35

SDS 35 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

SECTION 20
T-6-N, R-7-W

SECTION 21
T-6-N, R-7-W

OKLAHOMA DEPARTMENT OF TRANSPORTATION						
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
	OKLA.					
REVISIONS						
DESCRIPTION					DATE	

Ninnekah Water Corp.
20' Right-of-Way Easement
Bk. 882, Pg. 884
Filed October 8, 1970

POT Sta. 113+75.27
Set PK nail w/tag on EW-140.5 1/4 $
28.07' W. to 1/4 cor.
2616.50' E. to 1/4 cor.

2651.39' N 89°53'35.30" W

Ninnekah Water Corp.
20' Easement
Bk. 1048, Pg. 297
Filed February 15, 1977

POB Sta. 1109+14.73
Set PK nail w/ 1/4 $ on EW-140.5
2647.46' W. to 1/4 cor.
3.93' E. to 1/4 cor.

Ninnekah Water Corp.
20' Right-of-Way Easement
Bk. 1048, Pg. 297
Filed February 15, 1977

Jerry Chambers-OII Producer
30' Easement
Bk. 995, Pg. 24
Filed May 19, 1975

Carol Lister Living Trust
Rec'd. Bk. 3793, Pg. 220
Filed: November 22, 2005

Scott E. Bradford & Michael A Bradford
Warranty Deed
Rec'd. Bk. 4853, Pg. 314
Filed: December 22, 2014

POB Sta. 100+00.00
Set 1/2" capped I.P. on EW-140.5 1/4 $
2519.46' W. to 1/4 cor.
131.93' E. to sec. cor.
PI Sta. 101+31.93
Fnd. 5/8" I.P. on EW-140.5 1/4 $ & NS-283 $

Public Service Co. of Okla.
10' Right-of-Way Easement
Rec'd. Bk. 912, Pg. 758
Filed November 14, 1972

Public
30' Roadway Easement
Rec'd. Bk. 395, Pg. 199
Filed March 1, 1939

POE Sta. 103+15.30
Set 1/2" capped I.P. on EW-140.5 1/4 $
183.37' W. to 1/4 cor.
2461.20' E. to 1/4 cor.

Ninnekah Water Corp.
20' Right-of-Way Easement
Bk. 882, Pg. 882
Filed October 8, 1970

William M. Ellis
Quit Claim Deed
Rec'd. Bk. 926, Pg. 238
Filed: September 5, 1972

POST Sta. 1109+14.72
Set PK nail w/tag on EW-140.5 1/4 $
60.07' W. to 1/4 cor.
2584.50' E. to 1/4 cor.

POC Sta. 1109+14.77
Set PK nail w/tag on EW-140.5 1/4 $
63.23' W. to 1/4 cor.
2581.34' E. to 1/4 cor.

POB/PC Sta. 1107+80.13
Set PK nail w/tag

S 89°55'12.12" W 2644.57'

Station comparison
Station 1107+80.13 on this survey"
Station 1107+80.13 on SW02737(1) survey"
Station 1107+80.13 on FAP No. F-162(10)XII) plans

TS Sta. 1117+63.02
Set PK nail w/tag

Patricia J. Ragsdale (F.K.A. Patricia J. LaForge)
Quit Claim Deed
Rec'd. Bk. 3375, Pg. 328
Filed: May 6, 2002

Stipulation of Insurance & Cross Conveyance
Rec'd. Bk. 3793, Pg. 219
Filed: November 22, 2005

PC Sta. 1124+31.69
Set 1/2" capped I.P.

Southwestern Bell Telephone Co.
16.5' Right-of-Way Easement
(S/2, SE/4, NE/4, SEC 20
Obscure Description)
Bk. 569, Pg. 485
Filed 12/29/1953

Southwestern Bell Telephone Co.
16.5' Right-of-Way Easement
(N/2, SE/4, NE/4, SEC 20
Obscure Description)
Bk. 569, Pg. 484
Filed 12/29/1953

POST Sta. 1120+06.97
Set 1/2" capped I.P. on NS-283 $
1559.93' N. to sec. cor.
1092.18' S. to 1/4 cor.

PI Sta. 1120+29.96
Set 1/2" capped I.P.

POST Sta. 1121+63.02 & 30.46' ahead of PI
Set PK nail w/tag

POC Sta. 1122+14.70
Set 1/2" capped I.P.

POST Sta. 1122+20.71 & 1126+80.00
Set PK nail w/tag

POC Sta. 1126+87.00
Set 1/2" capped I.P. on NS-283 $
1033.63' N. to sec. cor.
1618.47' S. to 1/4 cor.

POST Sta. 1125+75.86 & POC Sta. 1130+37.53
Set 1/2" capped I.P.

POC Sta. 1129+94.64
Set 1/2" capped I.P. on NS-283 $
1559.93' N. to sec. cor.
1092.18' S. to 1/4 cor.

R=5629.58'
L=1161.86'
Ch=1149.85'
N15°02'43"W

Master PI Sta. 1127+31.95
Set 1/2" capped I.P.

POST Set 1/2" capped 5.31' ahead of PI on NS-283 $
831.93' N. to sec. cor.
1820.17' S. to 1/4 cor.

Arkansas Louisiana Gas Co.
50' Pipeline Easement
(NE/4, NE/4, SEC 20
Obscure Description)
Rec'd. Bk. 1215, Pg. 21
Filed October 15, 1980

Southwestern Bell Telephone Co.
16.5' Right-of-Way Easement
(NE/4, NE/4, SEC 20
Obscure Description)
Bk. 569, Pg. 483
Filed 12/29/1953

Tims Family Revocable Trust
Quit Claim Deed
Rec'd. Bk. 3909, Pg. 472
Filed: December 6, 2006

Michael Joe Ersland
Affidavit by Surviving Joint Tenant
Rec'd. Bk. 4446, Pg. 543
Filed: December 15, 2011

PI Sta. 1120+29.70
Set 1/2" capped I.P.

Tims Family Revocable Trust
Quit Claim Deed
Rec'd. Bk. 3909, Pg. 472
Filed: December 6, 2006

Arkansas Louisiana Gas Co.
50' Pipeline Easement
(NE/4, NE/4, SEC 20
Obscure Description)
Rec'd. Bk. 1215, Pg. 21
Filed October 15, 1980

PI Sta. 1133+04.31
Set 1/2" capped I.P.

CS Sta. 1131+70.73

CURVE #9
PI STA= 1126+88.74
X= 1982809.3905
Y= 600531.6306
Δ= 40°18'30.01" RT
D= 4°00'00.00"
T= 525.72'
L= 1007.71'
R= 1432.39'
E= 93.43'

CURVE #8
PI STA= 1120+29.96
X= 1982718.4138
Y= 599878.6383
Δ= 8°00'00.00" RT
Ls=400.00'
Sc=756.94

CURVE #6
PI STA= 1120+29.70
X= 1982782.4140
Y= 599878.4680
Δ= 47°07'55.00" RT
D= 2°00'00.00"
T= 1249.57'
L= 2356.60'
R= 2864.79'
E= 260.66'

SCALE 1" = 100'

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	CBM		SURVEY DATA SHEET
CHECKED	JTB		
APPROVED	JTB		
CREW	BDG		SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S36

SDS 36 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

SECTION 21
T-6-N, R-7-W

SECTION 16
T-6-N, R-7-W

OKLAHOMA DEPARTMENT OF TRANSPORTATION						
FED. ROAD DIST. NO.	STATE	PROJ. NO.		FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.					
REVISIONS						
DESCRIPTION			DATE			

CURVE #10
PI STA= 1133+04.31
X= 1983301.1883
Y= 600970.7327
Δ= 8°00'00.00" RT
Ls=400.00'
Sc=756.94

CURVE #7
PI STA= 1153+72.27
X= 1985333.8969
Y= 602252.4828
Δ= 9°10'35.00" RT
D= 1°00'00.00"
T= 459.80'
L= 917.64'
R= 5729.58'
E= 18.42'

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	CBM		SURVEY DATA SHEET
CHECKED	JTB		
APPROVED	JTB		
CREW	BDG		SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S37

SCALE 1" = 100'

SDS 37 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

SECTION 16
T-6-N, R-7-W

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS	
DESCRIPTION	DATE

CHICKASHA CITY LIMITS

NS-283.5

1536.25'

2652.51'
N 00°06'04.86" E

Briggett Inc.
Warranty Deed
Rec'd. Bk. 2256, Pg. 165
Filed: November 16, 1990

POT Sta. 1157+83.36
Set PK nail w/tag
on NS-283.5 1/4 &
1728.93' N. to 1/4 cor.
923.57' S. to 1/4 cor.

1160+00

1165+00

1170+00

S 89°48'50.82" W
2632.95'

EW-1395

1174+28 POE Sta. 1174+28.12
Set PK nail w/tag

N. 33°45'36" W. POE STA. 1174+28.12
100' 50' 50'

397

STA. 1158+00

PRES. R/W

7662

A001

STA. 1155+00

A002
℄ SURVEY - N.B. U.S.81

382

S. 33°45'36" E.
100' 50' 50'

PT STA. 1158+30.11

A003
℄ SURVEY - S.B. U.S.81
N56°14'23.61" E

1158+30 POE/PT Sta. 1158+30.11
Set PK nail w/tag

POST Set PK nail w/tag
34.40' ahead of PI
on NS-283.5 1/4 &
1806.01' N. to 1/4 cor.
846.50' S. to 1/4 cor.

SCALE
1" = 100'

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	CBM		SURVEY DATA SHEET
CHECKED	JTB		
APPROVED	JTB		
CREW	BDG		SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S38

SDS 38 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

SECTION 18
T-6-N, R-7-W

1329.84'

POB Sta. 224+16.63
Set PK nail w/tag
on EW-140 &
217.17' W. to sec. cor.
450.37' E. to 1/4 cor.

224+17

225+00

230+00 POT Sta. 230+18.20
Set PK nail w/tag
on NS-2815 1/4 &
2267.95' N. to 1/4 cor.
399.28' S. to 1/4 cor.

235+00

240+00

245+00

249+00

STA. 249+00

2662.54'
N 89°48'55.22" W

EW-140

1320.00'

POB STA. 224+16.63

1333.62'

8088

2667.23'
N 00°07'34.55" E

7021

1316.34'

7663

PRES. R/W

1109.35'

646.49'

8201

PRES. R/W

150'

401

A004
℄ SURVEY - I-44 H.E.BAILEY TPK.

N48°35'59.38"E

400

100'
50'
50'
S 41°24'01" E

100'
50'
S 41°24'01" E

150'

7022

N00°01'37" E
666.72'

S89°58'35" E
1337.43'

8203

43.21'

8215

8089

PRES. R/W

960.00'

1715.01'

BM #85

FND. 5/8" I.P.
199.71'
S 41°23'57" E
SET 1/2" I.P.

Thomas Adolph Meyers
Warranty Deed
Rec'd. Bk. 1017, Pg. 255
Filed Date: March 18, 1976

2632.68'

9011

NS-2815

380.37'
S 66°45'32" E

PRES. R/W

7623
7622
7621

50.00'

N 89°48'37.22" W
2637.39'

2271.00'

STATUTORY R/W

7023

Thomas Adolph Meyers
Warranty Deed
Rec'd. Bk. 1017, Pg. 255
Filed Date: March 18, 1976

John Harper Thomas II, Et al.
Warranty Deed
Rec'd. Bk. 2032, Pg. 245
Filed Date: December 21, 1988

SECTION 18
T-6-N, R-7-W

SECTION 19
T-6-N, R-7-W

SCALE
1" = 100'

PLS	JTB	
DRAWN	CBM	
CHECKED	JTB	
APPROVED	JTB	
CREW	BDG	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S39

SDS 39 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

SECTION 18
T-6-N, R-7-W

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

8096 — 1314.04' — N 89°51'26.00" W 2628.07' — EW-139.5 — 1314.04'

8095 — 8666 — 8217 — 1337.43' — N0°01'37"E 668.72' — PRES. R/W 234.78' — 7665

8667 — 8218 — 190.25' N89°55'35"E — PRES. R/W 1023.80'

8289 — 477.71' — 8625a — 8625 — 8624a — 8624

ROT Sta. 264+57.36
Set PK nail w/tag
on EW-139.5, 1/4 S
2574.75' W. to 1/4 cor.
53.32' E. to 1/4 cor.

POT Sta. 265+28.79
Set PK nail w/tag
on NS-282 ℄
2587.14' N. to 1/4 cor.
47.10' S. to 1/4 cor.

John Harper Thomas II, Et al.
Warranty Deed
Rec'd. Bk. 2032, Pg. 245
Filed Date: December 21, 1988

Reliance Pipeline Co.
25' Pipeline Easement
Rec'd. Bk. 1442, Pg. 120
Filed October 2, 1984

8675 — 8674 — 8293 — 178.71' — 8294 — 212.71' — 7676

STATUTORY R/W — 33' — STATUTORY R/W — 1317.91' N 0°22'39" E — 7025

PC Sta. 270+98.50
Set PK nail w/tag

John Harper Thomas II, Et al.
Warranty Deed
Rec'd. Bk. 2506, Pg. 268
Filed Date: December 31, 1992

PC STA. 270+98.50 — PRES. R/W — R=16988.73' L=1981.84 Ch=1980.72' N45°15'28"E — L=1080.08'

8098 — 8061a — 2317.31' — 33' — 658.56' — 658.63'

659.36' N 0°22'39" E — 149.79' — 8099

-2634.25' N 00°18'53.88" E — NS-282 — 1317.12' — 987.42'

GOV'T. LOT 12

1320.4.39' N89°48'12"W

STA. 249+00 — STA. 279+00

200' — 150' — 200' — 125' N 41°24'01" W — 125' S 41°24'01" E — 75' S 41°24'01" E

N48°35'59.38"E — ℄ SURVEY - I-44 H.E.BAILEY TPK. — N48°35'59.38"E

A004

402 — 403 — 9019 — 8623 — 8623a — 7672 — 7673 — 7670 — 8645 — 7671 — 8092 — 8650 — 8649 — 8648 — 8654 — 8647 — 8646 — 8058a — 404 — 7677

100' — 125.35' — 2636.02' S0°22'39"W — 50' S 41°24'49" E — 50' S 41°24'34" E — 163.19' — 165.94' PRES. R/W — 416.88

BM #84 — PRES. R/W 960.00' — BM #83 — PRES. R/W 742.45' — BM #219 — PRES. R/W L=1097.64'

R=17388.73' L=1721.30' Ch=1720.50' S45°45'50"W

7024 — 1315.9 N89°56'26"E — 1321.86' N 89°55'35" E — 7668 — 7669 — 8287

8659 — 8658 — 8657 — 8656 — 8655 — 7678 — 8663 — 8661 — 8662 — 8660

BM #82 — 8644 — 8643 — 8622 — 8621 — 33' — 1152.82' — 469.89' — 670.63' — 670.63' — 136.31'

Reliance Pipeline Co.
25' Pipeline Easement
Rec'd. Bk. 1442, Pg. 127
Filed October 2, 1984

Reliance Pipeline Co.
30' Pipeline Easement
Rec'd. Bk. 1442, Pg. 125
Filed October 2, 1984

Ninnekah Water Corp.
20' Water Line Easement
Bk. 1021, Pg. 746
Filed May 11, 1976

Ninnekah Water Corp.
100' Water Line Easement
Bk. 1021, Pg. 746
Filed May 11, 1976

Ninnekah Water Corp.
20' Water Line Easement
Bk. 1047, Pg. 543
Filed February 8, 1977

344.07' — 1330.55' N 89°59'43" E — 7026

8651 — 8744 — 1228.52' S 89°34'13.03" W — 2675.16' — CHICKASHA CITY LIMITS — 1035.39' N 0°19'43" E

Station comparison
PI Station 282+00.00 on this survey*
PI Station 282+00.00 on SW02737(1) survey*
PI Station 282+00.00 on Sec. 1-B, No. 206 plans

Thomas Adolph Meyers
Warranty Deed
Rec'd. Bk. 1017, Pg. 255
Filed Date: March 18, 1976

8288 — 8094 — 1152.82' — 670.63' — 670.63' — 136.31' — 1340.93' N 0°22'39" E

S89°56'35"E 2632.68' — 1316.34'

2682.51' N 0°04'18.48" W — 33' — STATUTORY R/W — STATUTORY R/W

GOV'T. LOT 13

Mike & Darlene Crawford
Warranty Deed
Rec'd. Bk. 2906, Pg. 196
Filed Date: December 13, 1996

GOV'T. LOT 9

Pike, Rhonda Revocable Trust
Quit Claim Deed
Bk. 4789, Pg. 480
Filed 07/23/2014

SECTION 17
T-6-N, R-7-W

SCALE 1" = 100'

PLS	JTB	
DRAWN	CBM	
CHECKED	JTB	
APPROVED	JTB	
CREW	BDG	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S40

SDS 40 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

STA. 207+00

SECTION 17
T-6-N, R-7-W

BM #2

1192.34'
N 89°57'47" E

205+00

Sisexua Trust
Quit Claim Deed
Rec'd. Bk. 4308, Pg. 438
Filed Date: September 29, 2010

GOV'T.
LOT 7

N44°52'38.41"W

POC Sta. 289+39.57 &
POT Sta. 196+51.96
Set PK nail w/tag

658.55'

1326.45'

1179.85' STATUTORY R/W
1180.58' STATUTORY R/W
33'

2652.89'
S00°19'03" E

8105
8378

8379

2617.86'
S 89°57'48.57" W

33'

332.44'

7697
7696

EW-139

16.5'

PRES. R/W

100.53'

1322.34'

ST'ATUTORY R/W

PRES. R/W

16.5'

Lottie F. Dickenson, Trustee
of the Dickenson Family Trust
Quit Claim Deed
Rec'd. Bk. 2699, Pg. 104
Filed Date: Not Found

POT Sta. 301+70.69
Set PK nail w/tag
on EW-139 & sec. cor.
2541.15' W. to sec. cor.
135.71' E. to 1/4 cor.

7028

POT Sta. 303+74.99
(Calculated, not set)
on NS-282.5 1/4 &
2499.70' N. to 1/4 cor.
153.48' S. to 1/4 cor.

305+00

John Harper Thomas II, Et al.
Warranty Deed
Rec'd. Bk. 2506, Pg. 268
Filed Date: December 31, 1992

8069

1326.45'
N 00°19'43" E

PT Sta. 292+98.50
Set PK nail w/tag

280+00

285+00

200+00

295+00

300+00

1204.39'
N65°48'12"W

8295

200.08'
S 44°57'57" E
FND. 5/8" I.P.
SET IN CONC.

R=16988.73'
L=1080.08' L=1981.84 PRES. R/W
Ch=1980.72'
N45°15'28"E

L=402.21'

8231

L=499.55'

PRES. R/W

8.61'

8102
8685

7681

BM #1

FND. 5/8" I.P.

PT STA.292+98.50

124.93'
S 48°40'19" W

7686
407

315

A004

N4°15'59.38"E

200'
N 48°44'01" W

FND. 5/8" I.P.
504.89'

124.91'
S 48°44'28" W

150'

125'
N 48°44'01" W

47.77'

PRES. R/W

1512.40'

2653.18'
N 00°21'33.18" W

1360.81'

8152
8376

409

408

STA. 279+00

CALCULATED
(NOT SET)

125'
N 45°04'00" W

8100

7680
406

POT Sta. 196+48.20 &
POST Set PK nail w/tag
742.35' ahead of PI

BM #220

7027

314

200'

100'
N 90°00'00" E

50'
50'

℄ SURVEY - I-44 H.E.BAILEY TPK.

124.92'
S 48°47'48" E

FND. 5/8" I.P.
200'
S 48°44'01" E

7687

200'

CHICKASHA CITY LIMITS

BM #76

7689
7688

FND. 5/8" I.P.

124.94'
S 48°42'57" E

8337

199.28'

9027

7700

7701

STA. 309+00

8667
8664
8666

R=17388.73'
L=1721.30'
L=1097.64' Ch=1720.66'
S45°45'50"W

PRES. R/W

L=623.86'

PRES. R/W

R=17413.73'
L=505.02'
Ch=505.01'
S42°05'50"W

101.50'
N 41°15'59" E

25'

747.13'

PRES. R/W

7029

8685
8684

8682
8683

STATUTORY R/W

16.5'

Public Service Co. of Okla.
Right-of-way Easement (No width)
(SEC. 8, 9, & 17 within OTA R-O-W for
6400', Obscure Description)
Bk. 755, Pg. 265
Filed 07/25/1963

BM #77

7679

8665

PI Sta. 282+00.00

8669
8668

8671
8670

7683
7682

7684

8681
8680

Reliance Pipeline Co.
30' Pipeline Easement
Rec'd. Bk. 1442, Pg. 125
Filed October 2, 1984

SECTION 8
T-6-N, R-7-W

S 89°57'48.57" W
2643.68'

N00°34'5"W
5296.20'

PRES. R/W

5280.47'

2491.58'

7703
7702

STATUTORY R/W

661.91'
661.91'
33'

1035.39'
N 00°19'43" E

Ninnekah Water Corp.
100' Water Line Easement
Bk. 1021, Pg. 746
Filed May 11, 1976

PI Sta. 282+00.00
(Calculated, not set)

Public Service Co. of Okla.
Right-of-way Easement (No width)
(SEC. 8, 9, & 17 within OTA R-O-W for 6400',
Obscure Description)
Bk. 755, Pg. 265
Filed 07/25/1963

8679
8678

8677
8676

NS-2825

Pike, Rhonda Revocable Trust
Quit Claim Deed
Bk. 4789, Pg. 480
Filed 07/23/2014

8674
8675
8672
8673

Pike, Rhonda Revocable Trust
Quit Claim Deed
Bk. 4789, Pg. 480
Filed 07/23/2014

190+00

CURVE #11
PI STA= 282+00.00
X= 1978661.1403
Y= 605236.2869
Δ= 7°20'00.00" LT
D= 0°20'00.00"
T= 1101.50'
L= 2200.00'
R= 17188.73'
E= 35.26'

2656.02'
N 00°21'02.51" E

STA. 188+00

SECTION 17
T-6-N, R-7-W

SCALE
1" = 100'

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	CBM		SURVEY DATA SHEET
CHECKED	JTB		
APPROVED	JTB		
CREW	BDG		SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S41

SDS 41 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

SECTION 8
T-6-N, R-7-W

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

2653.18'
N 00°21'33.18" W
NS 282.5
2237.99'
1360.81'

389.23'
S5°48'00" E

1239.00'
N89°58'08" E

8150

8704
8703

8701
8702

8699
8700
8695
8696
8697
8698

8151

689.33'
N89°58'08" E

James E. Parker
Revocable Trust
Quit Claim Deed
Bk. 4214, Pg. 436
Filed Date: October 1, 2009

Arkla Energy Resources
20' Pipeline Easement
Rec'd. Bk. 1869, Pg. 196
Filed August 27, 1987

310+00
315+00
320+00
325+00
330+00
335+00

PRES. R/W
1512.40'
429.03'
1037.38'

309+00
STA. 308+87.60

150'
200'
A004
℄ SURVEY - I-44 H.E.BAILEY TPK.
N41°15'59.38" E

Public Service Co. of Okla.
Right-of-way Easement (No width)
(SEC. 8, 9, & 17 within OTA R-O-W for
6400', Obscure Description)
Bk. 755, Pg. 265
Filed 07/25/1963

7030

7416
BM #99

BM #78
7708

PRES. R/W
999.32'

BM #79
PRES. R/W
752.36'

7710
7709
8108
8109

59.41'
20.39'
0.00'

Arkla Energy Resources
25' Pipeline Easement
Rec'd. Bk. 1866, Pg. 206
Filed August 19, 1987

N 00°34'51" W
596.20'
PRES. R/W

Arkansas Louisiana Gas Co.
25' Pipeline Easement
Rec'd. Bk. 871, Pg. 416
Filed Febuary 16, 1970

Pike, Rhonda Revocable
Trust
Quit Claim Deed
Bk. 4789, Pg. 480
Filed 07/23/2014

8694
8693
8692
8691

8689
8690

1346.92'
1326.53'
N 00°22'25" W

Reliance Pipeline Co.
25' Pipeline Easement
(W/2, SE/4, Sec. 8, SE of
H.E. Bailey Tpk.
Obscure Description)
Rec'd. Bk. 1539, Pg. 328
Filed April 29, 1985

2643.68'
S 89°57'48.57" W
661.91'
1981.77'
2491.58'

SDS 42 OF 76

James E. Parker
Revocable Trust
Quit Claim Deed
Bk. 4214, Pg. 436
Filed Date: October 1, 2009

8148
8147
80.34'
8145
8146

Duffie, Ileta
Quit Claim Deed
Bk. 4130, Pg. 513
Filed 10/27/2008

Reliance Pipeline Co.
25' Pipeline Easement
(SE/4, Sec. 8.
Obscure Description)
Rec'd. Bk. 1539, Pg. 325
Filed April 29, 1985

3 865 156BM
1512.21'

SECTION 8
T-6-N, R-7-W

SCALE
1" = 100'

3236.00'
EW-1385
15.45'
20.39'
8142
8156

1239.00'
N89°58'08" E

1288.83'
N89°58'53" E

8132

N 00°22'25" W
675.35'
709.39'

CHICKASHA CITY LIMITS

James E. Parker
Revocable Trust
Quit Claim Deed
Bk. 4214, Pg. 436
Filed Date: October 1, 2009

City of Chickasha
Vacating Order
Bk. 2600, Pg. 25
Filed 03/21/1993

S 89°58'8.13" W
2642.35'
689.30'

City of Chickasha
Vacating Order
Bk. 2600, Pg. 25
Filed 03/21/1993

336+62 POE Sta. 336+62.15
Set PK nail w/tag

POC Sta. 337+02.06
Set PK nail w/tag
on EW-138.5 1/4 ℄
2210.02' W. to 1/4 cor.
432.33' E. to 1/4 cor.

7031

7714
7716

R=9399.30'
L=721.38'
Ch=721.20'
N39°04'17" E

8376
PRES. R/W
91.78'
POE STA.336+62.15
EW-1385

150'
410

Reliance Pipeline Co.
20' Pipeline Easement
(SE/4, NE/4, Sec. 8,
Obscure Description)
Rec'd. Bk. 1984, Pg. 312
Filed August 15, 1988

411
412

N41°15'59.38" E

150'
100'
50'
S 48°44'01" E

N41°15'59" E
413.45'

BM #80
8113

711.05'
PRES. R/W

7711
8121
BM #81
7713

Geneva Conrad &
Traca LaDon Gonzales
Quit Claim Deed
Bk. 3089, Pg. 598
Filed 01/27/1999

401.82'

POST Sta. 337+02.13
Set PK nail w/tag
on EW-138.5 1/4 ℄
2210.13' W. to 1/4 cor.
432.22' E. to 1/4 cor.

8114
N00°23'16" W
208.75'

N 89°58'03" E
208.75'

Traca LaDon Conrad
Quit Claim Deed
Bk. 4191, Pg. 585
Filed 06/25/2009

8112
N 89°58'03" E
208.75'

8115
208.75'
S00°23'16" E
208.75'

8111

Geneva Conrad &
Traca LaDon Gonzales
Quit Claim Deed
Bk. 3089, Pg. 598
Filed 01/27/1999

N03°57'43" W
351.65'

50.00'
N89°58'03" E

8118
7033
8375
8117

STATUTORY R/W
285.25'

8116
8371

663.23'
2655.94'
N 00°23'16.22" W

8345
8110

STATUTORY R/W
663.23'
NS 283
663.23'

Duffie, Ileta
Quit Claim Deed
Bk. 4130, Pg. 513
Filed 10/27/2008

SECTION 9
T-6-N, R-7-W

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	CBM		SURVEY DATA SHEET
CHECKED	JTB		
APPROVED	JTB		
CREW	BDG		SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S42

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

Station comparison
Station 162+81.10 on this survey=
Station 162+81.10 on SW02737(1) survey=
Station 162+81.10 on FAS No. 2191(1) plans

SECTION 7
T-6-N, R-7-W

CURVE #14
PI STA= 168+44.01
X= 1974634.2886
Y= 608636.8678
Δ= 22°13'59.66" RT
D= 2°00'00.00"
T= 562.91'
L= 1111.66'
R= 2864.79'
E= 54.78'

CURVE #15
PI STA= 182+67.67
X= 1975369.1550
Y= 609872.7050
Δ= 13°11'00.00" LT
D= 2°00'00.00"
T= 331.05'
L= 659.17'
R= 2864.79'
E= 19.06'

CURVE #12
PI STA= 105+62.94
X= 1974720.6841
Y= 608606.0692
Δ= 22°14'00.00" RT
D= 1°59'59.64"
T= 562.94'
L= 1111.72'
R= 2864.93'
E= 54.78'

CURVE #13
PI STA= 119+79.31
X= 1975451.8275
Y= 609835.6453
Δ= 13°11'00.00" LT
D= 1°59'59.64"
T= 331.06'
L= 659.20'
R= 2864.93'
E= 19.06'

Bertha B. Thomas
Warranty Deed
Rec'd. Bk. 2831, Pg. 482
Filed January 4, 1996

Chester Stanton Thomas, Etal
Warranty Deed
Rec'd. Bk. 2506, Pg. 270
Filed December 31, 1992

John H. Thomas II, Etal
Warranty Deed
Rec'd. Bk. 2266, Pg. 184
Filed December 26, 1990

Cowboy Country Church Inc.
Warranty Deed
Rec'd. Bk. 4275, Pg. 545
Filed May 27, 2010

Public
80' Roadway Easement
Rec'd. Bk. 498, Pg. 377
Filed Augus 13, 1947

Reliance Pipeline Co.
25' Pipeline Easement
Rec'd. Bk. 1534, Pg. 219
Filed April 17, 1985

Norge Water and Sewer Co.
20' Easement
Bk. 1020, Pg. 429
Filed April 23, 1976

Public Service Co. of Okla.
Right-of-way Easement
(No width specified)
(SW/4, NE/4, Sec. 7
Obscure Description)
Bk. 818, Pg. 691
Filed August 8, 1966

Southwestern Light & Power Co.
Right-of-Way (No width specified)
Bk. 259, Pg. 76, 86, 90
Filed March 15, 1927

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	CBM		SURVEY DATA SHEET
CHECKED	JTB		
APPROVED	JTB		
CREW	BDG		SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S43

SCALE 1" = 100'

SDS 43 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

SECTION 7
T-6-N, R-7-W

NS-28.15
2646.28'
N 00°03'54.22" W

Chester Stanton Thomas, Etal
Warranty Deed
Rec'd. Bk. 2506, Pg. 270
Filed December 31, 1992

SECTION 6
T-6-N, R-7-W

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

HILLSBORO HEIGHTS 2ND REVISED ADDITION

Public Service Co. of Okla.
200' Utility Easement as per
Warranty Deed
Rec'd. Bk. 930, Pg. 885
Filed November 14, 1972

Perdue Housing Ind. Inc.
Warranty Deed
Rec'd. Bk. 930, Pg. 885
Filed November 14, 1972

Public Service Co. of Okla.
15' Utility Easement as per
Warranty Deed
Rec'd. Bk. 930, Pg. 885
Filed November 14, 1972

Public Service Co. of Okla.
15' Utility Easement as per
Warranty Deed
Rec'd. Bk. 930, Pg. 885
Filed November 14, 1972

POE Sta. 205+14.96
Set PK nail w/tag
on EW-138 &
1275.99' W. to 1/4 cor.
1364.94' E. to 1/4 cor.

Norge Water and Sewer Co. Inc.
20' Easement
Bk. 1020, Pg. 429
Filed April 23, 1976

Station comparison
Station 142+65.97 on this survey*
Station 7106+52.42 on SW02737(1) survey

POE Sta. 142+65.97
Set PK nail w/tag
on EW-138 &
1370.54' W. to 1/4 cor.
1270.39' E. to 1/4 cor.

Chester Stanton Thomas, Etal
Warranty Deed
Rec'd. Bk. 2506, Pg. 270
Filed December 31, 1992

Southwestern Light & Power Co.
Right-of-Way (No width specified)
Bk. 259, Pg. 76, 86, 90
Filed March 15, 1927

SECTION 7
T-6-N, R-7-W

SECTION 6
T-6-N, R-7-W

SCALE
1" = 100'

PLS	JTB	
DRAWN	CBM	
CHECKED	JTB	
APPROVED	JTB	
CREW	BDG	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S44

SDS 44 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

SECTION 20
T-7-N, R-7-W

GOV'T. LOT 8

GOV'T. LOT 12

GOV'T. LOT 9

GOV'T. LOT 13

SECTION 19
T-7-N, R-7-W

SECTION 20
T-7-N, R-7-W

N 89°56'13.40" W 2648.44'

N 00°10'02.95" W 2640.29'

N 00°03'01" E 1321.11'

N 01°07'39" E 1320.77'

N 00°03'11" E 1321.61'

N 01°04'10" E 1320.75'

S 89°53'47" E 7359.91'

STATUTORY R/W

EW-1345

POB Sta. 385+47.57
Set 1/2" capped I.P.
on NS-282 & E 1/4 cor.
102.88' N. to sec. cor.
1618.40' S. to sec. cor.

POB STA. 385+47.37

385+00 390+00 395+00 400+00 STA. 401+00

PRES. R/W

Public Service Co. of Oklahoma
Central & South West Corp.
Deed (Type not found)
Bk. & Pg. (Not found)
Filed (Not found)

Public Service Co. of Okla.
100' Right-of-Way Easement
Rec'd. Bk. 814, Pg. 173
Filed April 22, 1966

Industrial Compounding, LLC
Warranty Deed
Rec'd. Bk. 3950, Pg. 34
Filing date not listed

City of Chickasha
17' Right-of-Way Easement
Rec'd. Bk. 2592, Pg. 48
Filed August 30, 1993

Chickasha Municipal Auth.
Special Warranty Deed
Rec'd. Bk. 2609, Pg. 139
Filed October 19, 1993

State of Oklahoma
Warranty Deed
Rec'd. Bk. 3200, Pg. 547
Filed May 26, 2000

Public Service Co. of Okla.
10' Right-of-way Easement
Rec'd. Bk. 1006 Pg. 946
Filed October 29, 1975

City of Chickasha
20' Easement
Rec'd. Bk. 2840, Pg. 595
Filed February 20, 1996

Southwestern Bell Telephone Co.
16.5' Right-of-Way Easement
Bk. 664, Pg. 442
Filed 06/12/1958

No ownership
Information found
for this area.

State of Oklahoma
Report of Commissioners
Bk. 842, Pg. 240
Filed 02/21/1968

Ken D. Ledford and
Leslie Ann Ledford
Warranty Deed
Rec'd. Bk. 4335, Pg. 576
Filed: January 4, 2011

Frac Tech Services, LTD.
Warranty Deed
Rec'd. Bk. 3955, Pg. 473
Filed May 16, 2007

Morgan Well Service, Inc.
Warranty Deed
Rec'd. Bk. 1905, Pg. 52
Filed December 10, 1987

Andra McNeil
Deed (Type not found)
Bk. & Pg. (Not found)
Filed (Not found)

Public Service Co. of Okla.
10' Right-of-Way Easement
Rec'd. Bk. 894, Pg. 100
Filed April 12, 1971

BM #61

BM #62

BM #63

BM #60

7089

7097 9065 8100a 8468 8469 8467 8466 8465 8840 8464 8746 8463 8461 8914 8915 7852 8917 8916 7852a 8462 451 8455 8456 7853 7853a 8454 8091a 8844 8453 8449 8846 8460 8458 8457 8452 8793 8451 8450 8791 8790 8792 8446 8447 8448 8844 7939 8923 8922 8459 8926 8927 8925 8924 8921 8920 8918 8919 8785 8445 7854 8942 8941

Station comparison
Station 385+47.57 on this survey
Station 385+47.57 on SW02738(1) survey

SCALE 1" = 100'

PLS	JTB	
DRAWN	CBM	
CHECKED	JTB	
APPROVED	JTB	
CREW	BDG	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S45

SDS 45 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

SECTION 20
T-7-N, R-7-W

Lot 1

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

Ride Control, LLC
Warranty Deed
Bk. 4195, Pg. 289
Filed 07/09/2009

Public
25' Roadway Easement
Rec'd. Bk. 739, Pg. 672
Filed September 26, 1962

H & P Construction, Inc.
10' Sewage Easement
Rec'd. Bk. 3325, Pg. 196
Filed October 30, 2001

Public Service Company of Oklahoma
Warranty Deed
Bk. 1308, Pg. 718
Filed 06/21/1982

Public Service Co. of Okla.
Right-of-Way Easement
Rec'd. Bk. 852, Pg. 305
Filed December 9, 1968

Public
40' Roadway Easement
Rec'd. Bk. 944, Pg. 627
Filed July 2, 1973

Arkansas Louisiana Gas Co.
10' Pipeline Easement
Rec'd. Bk. 1014, Pg. 132
Filed February 9, 1976

State of Oklahoma
Report of Commissioners
Bk. 842, Pg. 240
Filed 02/21/1968

City of Chickasha
Warranty Deed
Rec'd. Bk. 3921, Pg. 135
Filed November 11, 2007

City of Chickasha
Easement & Right-of-Way Agreement
Rec'd. Bk. 1004, Pg. 407
Filed September 22, 1975

Public Service Co. of Okla.
10' Right-of-Way Easement
Rec'd. Bk. 894, Pg. 100
Filed April 12, 1971

Grady County
40' Roadway Easement
Rec'd. Bk. 1040, Pg. 612
Filed December 9, 1976

Public Service Co. of Okla.
10' Right-of-Way Easement
Rec'd. Bk. 1097, Pg. 846
Filed May 25, 1978

Johnson-Beck Properties
Quit Claim Deed
Rec'd. Bk. 4773, Pg. 171
Filed June 11, 2014

No ownership information found for this area.

POT Sta. 416+55.73
Set 1/2" capped I.P.
on NS-282.5 1/4 $
2636.62' N. to 1/4 cor.
7.63' S. to sec. cor.

POT Sta. 416+70.45
Set 1/2" capped I.P.
on EW-135 $
12.56' W. to 1/4 cor.
2627.42' E. to sec. cor.

POST Sta. 481+94.97
Set 1/2" capped I.P.
on EW-135 $
1472.37' W. to sec. cor.
1186.64' E. to 1/4 cor.

POC Sta. 481+94.71
Set 1/2" capped I.P.
on EW-135 $
1471.74' W. to sec. cor.
1187.27' E. to 1/4 cor.

POST Sta. 416+32.75
Set 1/2" capped I.P.
1201.42' ahead of Mstr. PI

POST Set PK nail w/tag
1181.89' ahead of Mstr. PI
on EW-135 $
2639.33' W. to sec. cor.
19.68' E. to 1/4 cor.

POST Sta. 405+64.16
POST Sta. 488+21.62
Set 1/2" capped I.P.

SECTION 29
T-7-N, R-7-W

SCALE
1" = 100'

PLS	JTB	
DRAWN	CBM	
CHECKED	JTB	
APPROVED	JTB	
CREW	BDG	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S46

SDS 46 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

SECTION 29
T-7-N, R-7-W

SECTION 28
T-7-N, R-7-W

SECTION 29
T-7-N, R-7-W

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

50.10'
277.23'
277.16'
8092a
8434
7100
8393
N89°51'16"W 266.40'
8437
S00°01'10"E 1323.00'
50'
921.18' PRES. R/W
N 00°02'11.74" W 2639.75' NS-283
7101
929.38' S00°01'10"E
923.55' S00°00'43"E
N00°15'30"W 739.54'
City of Chickasha 30' Storm Sewer Easement Rec'd. Bk. 1291, Pg. 410 Filed March 11, 1982
H & P Construction, Inc. Warranty Deed Bk. 3219, Pg. 228 Filed 06/27/2000
Harlow, Jonas Warranty Deed Bk. 4400, Pg. 536 Filed 07/20/2011
Standridge Real Estate Investments Warranty Deed Bk. 4334, Pg. 241 Filed 12/30/2010
8372
8750
8995
8994
8996
8373
8979
8978
8836
8974
8432
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8992
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8980
8999
8998
8001a
7833
7834
8002a
7830
7829
8389
7827
8348
8349
8990
8989
8988
8987
8352
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UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

SECTION 20
T-7-N, R-7-W

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

Station comparison (UP RR)
Station 115+00.85 on this survey"
Station 86+00.00 on SW02737(1) survey

Intersearch Gas Corp.
Right-of-Way Easement
(No width specified)
Rec'd. Bk. 2169, Pg. 173
Filed February 26, 1990

Louise Turley
Warranty Deed
Rec'd. Bk. 700, Pg. 530
Filed November 17, 1960

POT Sta. 108+31.77
Set 1/2" capped I.P.
on EW-134.5 1/4 §
1994.55' W. to 1/4 cor.
653.89' E. to 1/4 cor.

POT Sta. 509+47.28 &
POT Sta. 114+33.28
Set PK nail w/tag

POST Sta. 509+47.28 &
POST Sta. 114+33.28
Set PK nail w/tag

State of Oklahoma
Report of Commissioners
Bk. 860, Pg. 880
Filed 06/03/1969

ROST Sta. 114+90.26
Set PK nail w/tag
368.79' ahead of Mstr. PI

POT Sta. 115+00.85
Set 1/2" capped I.P.
on NS-282.5 1/4 §
140.36' N. to 1/4 cor.
2503.89' S. to 1/4 cor.

Henry and Jo Ann
Hoffman Rev. Trust
Warranty Deed
Bk. 3972, Pg. 56
Filed 07/05/2007

Public Service Co. of Okla.
100' Right-of-Way Easement
Rec'd. Bk. 814, Pg. 173
Filed April 22, 1966

POE Sta. 124+00.00
Set 1/2" capped I.P.

Maribeth Smith
Decree of Distribution & Discharge
Rec'd. Bk. 3247, Pg. 533
Filed December 20, 2000

POB Sta. 100+00.00
Set 1/2" capped I.P.

GOV'T.
LOT 7

POC Sta. 509+74.78
Set 1/2" capped I.P.
on EW-134.5 1/4 §
2316.54' W. to 1/4 cor.
331.90' E. to 1/4 cor.

POC Sta. 509+07.23 &
POT Sta. 111+46.26
Set 1/2" capped I.P.
on ℄ US 81 & ℄ UP RR

City of Chickasha
10' Waterline Easement
Rec'd. Bk. 751, Pg. 581
Filed May 8, 1963

State of Oklahoma
80' Right-of-Way Easement
Rec'd. Bk. 187, Pg. 591
Filed August 6, 1929

City of Chickasha
30' Easement
Rec'd. Bk. 745, Pg. 37
Filed January 4, 1963

State of Oklahoma
Quitclaim Deed
Bk. 864, Pg. 491
Filed 09/08/1969

No ownership information found for this area.

Henry and Jo Ann
Hoffman Rev. Trust
Warranty Deed
Bk. 3972, Pg. 56
Filed 07/05/2007

City of Chickasha
25' Easement
Rec'd. Bk. 748, Pg. 155
Filed February 27, 1963

State of Oklahoma
Right-of-Way Easement
Rec'd. Bk. 187, Pg. 590
Filed August 6, 1929

POE Sta. 124+00.00
Set PK nail w/tag

POB Sta. 100+00.00
Set PK nail w/tag

Public Service Co. of Okla.
100' Right-of-Way Easement
Rec'd. Bk. 814, Pg. 173
Filed April 22, 1966

Industrial Compounding, LLC
Warranty Deed
Rec'd. Bk. 3950, Pg. 34
Filing date not listed

GOV'T.
LOT 8

Hadson Gas Systems
50' Right-of-Way Easement
(E/2, SW/4, Sec. 20
N. of Hwy 62, E. of Hwy 81,
Obscure Description)
Rec'd. Bk. 1988, Pg. 299
Filed August 25, 1988

POT Sta. 104+44.92
Set PK nail w/tag
on EW-134.5 1/4 §
1598.89' W. to 1/4 cor.
1049.54' E. to 1/4 cor.

State of Oklahoma
13' Right-of-Way Easement
Rec'd. Bk. 334, Pg. 248
Filed December 5, 1936

State of Oklahoma
120' Right-of-Way Easement
Rec'd. Bk. 187, Pg. 601
Filed September 5, 1929

Johnson-Beck
Properties, LLC
Quit Claim Deed
Bk. 4773, Pg. 171
Filed 06/11/2014

State of Oklahoma
Report of Commissioners
Bk. 842, Pg. 240
Filed 02/21/1968

Allen, Beverly Rev. Trust
Warranty Deed
Bk. 4462, Pg. 142
Filed 02/06/2012

POST Sta. 508+62.49 &
POST Sta. 114+15.95
Set PK nail w/tag

POST Sta. 114+15.95
Set PK nail w/tag
360.3.0' ahead of Mstr. PI

POST Sta. 115+15.85
Set PK nail w/tag
on NS-282.5 1/4 §
225.29' N. to 1/4 cor.
2418.96' S. to 1/4 cor.

Orange Oil, LLC
Warranty Deed
Bk. 4777, Pg. 493
Filed 06/20/2014

Smith Commercial Holdings LLC
Rec'd. Bk. 3918, Pg. 597
Filed January 4, 2001

Lot 2

SECTION 20
T-7-N, R-7-W

SCALE
1" = 100'

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	CBM		SURVEY DATA SHEET
CHECKED	JTB		
APPROVED	JTB		
CREW	BDG		SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S48

SDS 48 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

Bernt John Rogstad III
Warranty Deed
Rec'd. Bk. 3835, Pg. 223
Filed: April 11, 2006

Patricia J. Rogstad
(F.K.A. Patricia J. LaForge)
Quit Claim Deed
Rec'd. Bk. 3375, Pg. 328
Filed: May 6, 2002
Stipulation of Insurance
& Cross Conveyance
Rec'd. Bk. 3793, Pg. 219
Filed: November 22, 2005

TS Sta. 1117+63.02
Set PK nail w/tag

Jerry Chambers-Oil Producer
30' Easement
Bk. 995, Pg. 24
Filed May 19, 1975

SECTION 20
T-6-N, R-7-W

Ninnekah Water Corp.
20' Right-of-Way Easement
Bk. 1048, Pg. 297
Filed February 15, 1977

Carol Lister Living Trust
Rec'd. Bk. 3793, Pg. 220
Filed: November 22, 2005

Southwestern Bell Telephone Co.
16.5' Right-of-Way Easement
(N/2, SE/4, NE/4, SEC 20
Obscure Description)
Bk. 569, Pg. 484
Filed 12/29/1953

Southwestern Bell Telephone Co.
16.5' Right-of-Way Easement
(S/2, SE/4, NE/4, SEC 20
Obscure Description)
Bk. 569, Pg. 485
Filed 12/29/1953

POB Sta. 1109+14.73
Set PK nail w/tag
on EW-140.5 1/4 ℄
2647.46' W. to 1/4 cor.
3.93' E. to 1/4 cor.

Ninnekah Water Corp.
20' Right-of-Way Easement
Bk. 882, Pg. 884
Filed October 8, 1970

POT Sta. 113+75.27
Set PK nail w/tag
on EW-140.5 1/4 ℄
28.07' W. to 1/4 cor.
2616.50' E. to 1/4 cor.

Ninnekah Water Corp.
20' Easement
Bk. 1048, Pg. 297
Filed February 15, 1977

Rural Water, Sewer, Gas, and Solid
Waste Management District No. 7
50' Easement
Bk. 2431, Pg. 89
Filed May 12, 1992

POB Sta. 100+00.00
Set 1/2" capped I.P.
on EW-140.5 1/4 ℄
2519.46' W. to 1/4 cor.
131.93' E. to sec. cor.
PI Sta. 101+31.93
Fnd. 5/8" I.P.
on EW-140.5 1/4
& NS-283 ℄

PI 100+00.00

℄ SURVEY
N89°55'12.5"E
FND. 5/8" I.P.

Buck G. Hudson &
Carmen Hudson
Quit Claim Deed
Rec'd. Bk. 3028, Pg. 599
Filed: May 11, 1998

Southwestern Bell Telephone Co.
16.5' Right-of-Way Easement
(E/2, NE/4, SE/4, SEC 20
Obscure Description)
Bk. 569, Pg. 485
Filed 12/29/1953

Scott E. Bradford &
Michael A Bradford
Warranty Deed
Rec'd. Bk. 4853, Pg. 314
Filed: December 22, 2014

Public Service Co. of Okla.
10' Right-of-Way Easement
Rec'd. Bk. 1230, Pg. 574
Filed February 19, 1981

Ninnekah Water Corp.
20' Right-of-Way Easement
Bk. 882, Pg. 884
Filed 10/08/1970

SECTION 20
T-6-N, R-7-W

Public Service Co. of Okla.
10' Right-of-Way Easement
Bk. 870, Pg. 468
Filed January 16, 1970

Michael Joe Ersland
Affidavit by Surviving
Joint Tenant
Rec'd. Bk. 4446, Pg. 543
Filed: December 15, 2011

PI Sta. 1120+29.70
Set 1/2" capped I.P.

Ninnekah Water Corp.
20' Right-of-Way Easement
Bk. 882, Pg. 885
Filed October 8, 1970

Tims Family Revocable Trust
Quit Claim Deed
Rec'd. Bk. 3909, Pg. 472
Filed: December 6, 2006

POST Sta. 1109+14.72
Set PK nail w/tag
on EW-140.5 1/4 ℄
60.07' W. to 1/4 cor.
2584.50' E. to 1/4 cor.

POC Sta. 1109+14.77
Set PK nail w/tag
on EW-140.5 1/4 ℄
63.23' W. to 1/4 cor.
2581.34' E. to 1/4 cor.

POB/PC Sta. 1107+80J3
Set PK nail w/tag

Public
30' Roadway Easement
Rec'd. Bk. 395, Pg. 199
Filed March 1, 1939

Public Service Co. of Okla.
10' Right-of-Way Easement
Rec'd. Bk. 912, Pg. 758
Filed November 14, 1972

PI Sta. 103+15.30

POE Sta. 103+15.30
Set 1/2" capped I.P.
on EW-140.5 1/4 ℄
183.37' W. to 1/4 cor.
2461.20' E. to 1/4 cor.

William M. Ellis
Quit Claim Deed
Rec'd. Bk. 926, Pg. 238
Filed: September 5, 1972

Ninnekah Water Corp.
20' Right-of-Way Easement
Bk. 882, Pg. 882
Filed October 8, 1970

SECTION 21
T-6-N, R-7-W

Station comparison

Station 1107+80J3 on this survey•
Station 1107+80J3 on SW02737(1) survey•
Station 1107+80J3 on FAP No. F-162(10)(11) plans

SCALE
1" = 100'

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	CBM		SURVEY DATA SHEET
CHECKED	JTB		
APPROVED	JTB		
CREW	BDG		SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S49

SDS 49 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

SECTION 17
T-6-N, R-7-W

SECTION 16
T-6-N, R-7-W

SECTION 20
T-6-N, R-7-W

SECTION 21
T-6-N, R-7-W

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

POT Sta. 114+33.28 & POST Set 1/2" capped I.P. 33.20' ahead of PI on NS-283 ℄ 1863.49' N. to 1/4 cor. 789.97' S. to sec. cor.

PI Sta. 147+93.78 Set 1/2" capped I.P.

PI Sta. 147+93.78

POB Sta. 100+00.00 Set PK nail w/tag on EW-140 ℄ 1371.82' W. to 1/4 cor. 1281.65' E. to sec. cor.

POE Sta. 100+00.00 Set PK nail w/tag on EW-140 ℄ 305.39' W. to sec. cor. 2334.40' E. to 1/4 cor.

POB Sta. 100+00.00 Fnd. 3/8" I.P. on EW-140 ℄ & NS-283 ℄

POC Sta. 140+48.44 & POT Sta. 112+81.65 Set PK nail w/tag on EW-140 ℄ 2454.23' W. to 1/4 cor. 199.24' E. to sec. cor.

POST Sta. 140+27.43 & POT Sta. 113+09.00 Set PK nail w/tag on EW-140 ℄ 27.36' W. to sec. cor. 2612.43' E. to 1/4 cor.

POST Set 1/2" capped I.P. 5.31' ahead of PI on NS-283 ℄ 8.31.93' N. to sec. cor. 1820.17' S. to 1/4 cor.

Master PI Sta. 1127+31.95 Set 1/2" capped I.P.

POST Sta. 1125+75.86 POC Sta. 130+37.53 Set 1/2" capped I.P.

PI STA. 112+81.65

PI STA. 115+87.04

POE STA. 115+87.04

ST Sta. 1135+70.73 Set PK nail w/tag

CS Sta. 1137+07.73 Set PK nail w/tag

ST STA. 1137+07.73

CS STA. 1137+07.73

ST STA. 1137+04.31

1" pipe top Set 1/2" CAPPED I.P.

SET 1/2" CAPPED I.P.

Station comparison
Mstr. PI Station 1127+31.95 on this survey*
Mstr. PI Station 1127+31.95 on SW02737(1) survey*
Mstr. PI Station 1127+31.95 on FAP No. F-162(10)(11) plans

Briggett Inc.
Warranty Deed
Rec'd. Bk. 2485, Pg. 219
Filed: October 28, 1992

William C. Thompson Living Trust
Bk. 4304, Pg. 435

Ninnekah Water Corp.
20' Water Line Easement
Bk. 1047, Pg. 545
Filed February 8, 1977

Public Service Co. of Okla.
10' Right-of-way Easement
Bk. 1207, Pg. 342
Filed August 27, 1980

State of Oklahoma
Bk. 659, Pg. 639

Public
30' Roadway Easement
Rec'd. Bk. 395, Pg. 200
Filed March 1, 1939

Ninnekah Water Corp.
20' Water Line Easement
Bk. 1022, Pg. 14
Filed May 13, 1976

Ninnekah Water Corp.
20' Right-of-Way Easement
Bk. 882, Pg. 894
Filed October 8, 1970

Arkansas Louisiana Gas Co.
50' Pipeline Easement
(W/2, SW/4, SEC 16
Obscure Description)
Rec'd. Bk. 1196, Pg. 367
Filed June 12, 1980

Arkansas Louisiana Gas Co.
50' Pipeline Easement
(W/2, SW/4, SEC 16
Obscure Description)
Rec'd. Bk. 1206, Pg. 864
Filed August 22, 1980

Arkansas Louisiana Gas Co.
50' Pipeline Easement
(NE/4, NE/4, SEC 20
Obscure Description)
Rec'd. Bk. 1215, Pg. 21
Filed October 15, 1980

Southwestern Bell Telephone Co.
16.5' Right-of-Way Easement
(NE/4, NE/4, SEC 20
Obscure Description)
Bk. 569, Pg. 483
Filed 12/29/1953

Ezra E. Flowers & James W. Flowers
Quit Claim Deed
Bk. 1191, Pg. 603
Filed: May 12, 1980

Glenn McConnell & Charlotte McConnell
Sherriff's Deed
Rec'd. Bk. 3550, Pg. 38
Filed: October 27, 2003

PLS	JTB	
DRAWN	CBM	
CHECKED	JTB	
APPROVED	JTB	
CREW	BDG	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S50

SCALE 1" = 100'

SDS 50 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

SECTION 20
T-6-N, R-7-W

SECTION 17
T-6-N, R-7-W

SECTION 21
T-6-N, R-7-W

SECTION 16
T-6-N, R-7-W

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

125'
853.82' PRES. R/W
N89°50'44.43"E
EW-140
℄ 792.21
125'
POB Sta. 100+00.00
Fnd. 3/8" I.P. on
EW-140 ℄ & NS-283 ℄
2653.47'
S 89°50'44.43" W
BM #12
R=5629.58'
L=1151.86'
Ch=1149.85'
N15°02'43"W
7619
307
SURVEY - C.R.1400
POB STA.100+00.00
50'
20'
100'
8564
49.24'
8565
FND. 3/8" I.P.
2652.10'
1326.05'
N 00°03'10.78" W
NS-283
PI STA.112+81.65
9104
27.36'
8566
464
308
PI 100+00.00
EW-140
2639.79'
S 89°47'30.67" W
℄
50'
S 44°39'16" E
50'
399
1135+00
ST Sta. 1135+70.73
Set PK nail w/tag
7013
7660
PRES. R/W
L=901.63'
R=2704.79'
L=1584.99'
Ch=1562.41'
N7°30'39"E
Ninnekah Water Corp.
20' Right-of-Way Easement
Bk. 882, Pg. 894
Filed October 8, 1970
SDS 51 OF 76

William C. Thompson
Living Trust
Bk. 4304, Pg. 435
7640a
8058
R=1361.70'
L=590.96'
Ch=586.34'
S11°55'36"E
7639
PRES. R/W
L=365.30'
7639a
150+00
105+00
Ninnekah Water Corp.
20' Water Line Easement
Bk. 1022, Pg. 14
Filed May 13, 1976
145+00
State of Oklahoma
Bk. 659, Pg. 639
140+00
110+00
105+00
7641a
R=1413.84'
L=1089.55'
Ch=1063.08'
S15°19'55"E
7642a
229.46'
160'
7642
PRES. R/W
7643
7644
8976
8
9
7
100'
150'
PHILLIPS AVE.
8056a
8982
PRES. R/W
42'
90'
94'
8048a
185'
8047a
185.00'
S00°13'07"W
7641
PRES. R/W
8060
8061
N00°13'07"E
221.09'
N89°52'07"E
242.64'
8059
8049a
7645
8053a
8054a
8052a
8051a
GLENDA WAY
N00°13'07"E
N02°50'07"W
150.16'
N02°37'33"W
N44°37'29"W
90.71'
N55°56'36"E
150.25'
N89°52'07"E
985.12'
Bobby M. Kizzia &
Lasile B. Kizzia
Warranty Deed
Rec'd. Bk. 3928, Pg. 274
Filed: February 8, 2007
Pike, Rhonda Revocable Trust
Quit Claim Deed
Bk. 4789, Pg. 480
Filed 07/23/2014
℄ SURVEY - U.S. 81
N20°06'47"W
202.11'
R=817.37'
L=424.58'
Ch=419.78'
S40°21'07"E
N44°16'54"E
161.81'
N89°52'07"E
985.12'
40.00'
N09°15'11"W
151.92'
115+00
120+00
125+00
Southwestern Bell Telephone Co.
16.5' Right-of-Way Easement
(E/2, NE/4 & NE/4, SE/4 & SE/4, SE/4, SEC 17
Obscure Description)
Bk. 569, Pg. 481, 482
Filed 12/29/1953
Public
30' Roadway Easement
Rec'd. Bk. 395, Pg. 203
Filed March 1, 1939
1105.65'
1105.64'
112.39'
S 05°20'58" W
NE COR. HDWL.
PRES. R/W
WS-283
30'
16.5'
STATUTORY R/W
NW COR. HDWL.
S 10°11'58" E
113.58'
2653.46'
N 00°13'06.60" E
℄ SURVEY - 16th AVE.
1993.85'
N00°13'06.60"E
CHICKASHA CITY LIMITS
8199
7649
221.09'
8063
7012
8062
7650
9021
465
8740
7653
8609
102.88'
N 44°01'14" E
49.97'
FND. 1/2" I.P.
POE Sta. 126+53.46
Set PK nail w/tag on
EW-139.5 1/4 ℄ & NS-283 ℄
2648.98'
S 89°53'28.73" W
EW-139.5
POE STA.126+53.46
PI 126+53.46
2634.36'
S 89°48'42.64" W
1317.18'
PI 112+81.65
Fnd. 3/8" I.P. on
EW-140 ℄ & NS-283 ℄
R=545.06'
L=339.96'
Ch=334.47'
S17°38'57"E
7654
7655
7656
7686
PRES. R/W
115+00
PI 115+87.04
POE STA.115+87.04
115+87
R=348.85'
L=310.55'
Ch=318.32'
S62°38'25"E
POE Sta. 100+00.00
Set PK nail w/tag
on EW-140 ℄
305.39' W. to sec. cor.
2334.40' E. to 1/4 cor.
Arkansas Louisiana Gas Co.
50' Pipeline Easement
(W/2, SW/4, SEC 16
Obscure Description)
Rec'd. Bk. 1196, Pg. 367
Filed June 12, 1980
Arkansas Louisiana Gas Co.
50' Pipeline Easement
(W/2, SW/4, SEC 16
Obscure Description)
Rec'd. Bk. 1206, Pg. 864
Filed August 22, 1980
Briggett Inc.
Warranty Deed
Rec'd. Bk. 2485, Pg. 219
Filed: October 28, 1992
POT Sta. 114+33.28 &
POST Set 1/2" capped I.P.
33.20' ahead of PI
on NS-283 ℄
1863.49' N. to 1/4 cor.
789.97' S. to sec. cor.
PI Sta. 147+93.78
Set 1/2" capped I.P.
S 08°58'28" E
50'
310
309
STATUTORY R/W
PI 147+93.78

SCALE
1" = 100'

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	CBM		SURVEY DATA SHEET
CHECKED	JTB		
APPROVED	JTB		
CREW	BDG		SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S51

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

SECTION 1
T-6-N, R-8-W

SECTION 6
T-6-N, R-7-W

SECTION 12
T-6-N, R-8-W

SECTION 7
T-6-N, R-7-W

GOV'T. LOT 11

GOV'T. LOT 5

Public Service Co. of Okla.
Right-of-Way (No width specified)
(Lot 11, Sec. 6,
Obscure Description)
Rec'd. Bk. 522, Pg. 409
Filed October 8, 1948

Public Service Co. of Okla.
Right-of-Way (No width specified)
(SE/4, SE/4, Sec. 1,
Obscure Description)
Rec'd. Bk. 522, Pg. 409
Filed October 8, 1948

Sharon K. Powell Living Trust
Quit Claim Deed
Bk. 4342, Pg. 258
Filed 01/18/2011

Doris D. Lyons Rothe
Warranty Deed
Rec'd. Bk. 1806, Pg. 184
Filed March 11, 1987

Southwestern Light & Power Co.
Right-of-Way (No width specified)
(SE/4, SW/4, Sec. 6,
Obscure Description)
Rec'd. Bk. 284, Pg. 75
Filed November 7, 1928

Kevin Lynn Whitener
Warranty Deed
Rec'd. Bk. 2705, Pg. 122
Filed June 24, 1994

Chester Stanton Thomas, Etal
Warranty Deed
Rec'd. Bk. 2506, Pg. 270
Filed December 31, 1992

Randal S. Harwell
Bonnie D. Harwell
Warranty Deed
Rec'd. Bk. 3999, Pg. 49
Filed September 27, 2007

Public Service Co. of Okla.
100' Utility Easement as per
Warranty Deed
Rec'd. Bk. 930, Pg. 885
Filed November 14, 1972

Vicki Gail Crowell
Warranty Deed
Rec'd. Bk. 4224, Pg. 258
Corrective Warranty Deed
Rec'd. Bk. 4229, Pg. 406
Filed November 9, 2009

David Dale Crowell &
Carmelita Irene
Crowell
Warranty Deed
Rec'd. Bk. 4229, Pg. 406
Filed November 9, 2009

POB Sta. 100+00.00
Fnd. 1" I.P. on
EW-138 ℄ & NS-281 ℄

POB STA. 100+00.00

POE Sta. 126+19.75
Fnd. 1/2" I.P.
on EW-138 ℄ &
NS-281.5 1/4 ℄

POE STA. 126+19.75

POT Sta. 284+08.38 & 285+00
POT Sta. 108+17.55
Set PK nail w/tag
on EW-138 ℄
87.55' W. to sec. cor.
1802.20' E. to 1/4 cor.

POC Sta. 283+51.69 &
POT Sta. 109+02.53
Set PK nail w/tag
on EW-138 ℄
902.53' W. to sec. cor.
1717.22' E. to 1/4 cor.

PT Sta. 275+17.98
Set 1/2" capped I.P.

PC 275+17.98

CHICKASHA CITY LIMITS

HILLSBORO HEIGHTS REVISED ADDITION

VINE STREET

HILL STREET

℄ SURVEY - U.S. 81

℄ SURVEY - COUNTRY CLUB RD.

STATUTORY R/W

SET 40D NL. IN 9" WD. F.P.

28.32' N 00°34'29" E

31.30' S 43°59'29" E

FND. 60D NL. IN P.P.

FND. 1" I.P.

3" STEEL FNC. COR. POST 50.36' S 59°44'34" W

FND. 60D NL. IN 8" WD. FNC. POST

73.68' N 71°46'59" W FND. 60D NL. IN P.P.

FND. 1/2" I.P.

BM #16

BM #17

BM #14

BM #224

BM #225

7042 7045 7046 7047 7040 7041 7742 7743 7744 7745 7746 7747 7748 7749 7751 7766 8152a 8559 8560 8561 8562 8563 8564 8565 8566 8567 8577 8160 8164 8167 8085a 8165 8166 8080a 8081a 8079a 8082a 8171 8180 8181 8767 9036 9037 466 467 326 325 324

2657.43' N 00°01'28.45" E

2637.23' N 00°04'44.35" E

2647.96' N 00°00'10.48" E

2646.28' N 00°03'54.22" W

2619.75' S 89°41'13.07" W

1326.37' N 00°00'09" E

1320.86' N 00°03'54" W

316.81' S89°42'48"W

98.00' PRES. R/W 98.00'

208.88' PRES. R/W 208.88'

NS-281

EW-138

STATUTORY R/W 2620.81'

STATUTORY R/W 1302.4'

1283.25' 1299.75' 1283.28'

1303.34' 1319.83' 1715.00' 1700.98'

1320.00' 1320.00' 1318.36' 208.70'

208.70' 208.88' 208.88' 208.88'

417.40'

N 89°38'42" E

N 89°42'48" E

N 00°17'12" W

N 00°17'12" E

N 00°10'10" E

N 00°04'41" W

N 44°52'38.41" W

S 64°47'48" W 50' 50' 50' 50'

S 59°44'34" W

S 45°07'29" W 100' 50' 50'

S 60°00'00" E 50'

N 60°00'00" W 106'

N 28°41'30" E

SCALE 1" = 100'

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	CBM		SURVEY DATA SHEET
CHECKED	JTB		
APPROVED	JTB		
CREW	BDG		SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S52

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

SDS 52 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

SECTION 36
T-7-N, R-8-W

GOV'T. LOT 4

98TH MERIDIAN

132.73'

N 00°00'03.88" E

2642.01'

NS-280.5

132.00'

POB Sta. 100+00.00
Set 1/2" capped I.P.
on EW-137 ℄
5177.70' W. to 1/4 cor.
2124.83' E. to sec. cor.

Southwestern Bell Telephone Co.
16.5' Right-of-Way Easement
(SW/4, SE/4, SEC 36
Obscure Description)
Bk. 985, Pg. 32
Filed 1/8/1975

Mid Continent Pipe Line Co.
20' Right-of-Way
(SW/4, SE/4, Sec. 36
Obscure Description)
Rec'd. Bk. 1032, Pg. 411
Filed September 13, 1976

Phillips Petroleum Co.
20' Right-of-Way
(W/2, SE/4, Sec. 36
Obscure Description)
Rec'd. Bk. 1054, Pg. 579
Filed April 21, 1977

N 00°00'15" W 2172.41'
1319.91'

Public
15' Roadway Easement
Rec'd. Bk. 400, Pg. 187
Filed September 18, 1939

Livingston Family Revocable Trust
Warratny Deed
Bk. 4277, Pg. 133
Filed June 4, 2010

Phillips Petroleum Co.
20' Right-of-Way
(SE/4, SE/4, Sec. 36
Obscure Description)
Rec'd. Bk. 1049, Pg. 890
Filed March 3, 1977

100+00

105+00

110+00

115+00

116+00

STA. 116+00

Palmer, Don & Sandra
Warranty Deed
Bk. 3411, Pg. 113
Filed 09/13/2002

Little, Allen & LaNell
Warranty Deed
Bk. 1415, Pg. 239
Filed 04/18/1984

POB STA. 100+00.00

Miller, Karl
Warranty Deed
Bk. 3830, Pg. 553
Filed 03/27/2006

Mona Michelle Powell & Phillip R. Powell
Warranty Deed
Bk. 4684, Pg. 271
Filed 11/05/2013

Maluf, Billie A.
Warranty Deed
Bk. 3302, Pg. 380
Filed 08/01/2001

Maluf, Billie A.
Warranty Deed
Bk. 3302, Pg. 380
Filed 08/01/2001

Stumpf, Sharon K.
Warranty Deed
Bk. 4761, Pg. 196
Filed 05/16/2014

Taylor, Kenneth
Quit Claim Deed
Bk. 4063, Pg. 280
Filed 04/18/2008

POT Sta. 339+04.90 &
POT Sta. 119+53.38
Set 1/2" capped I.P.
on EW-137 ℄
2471.08' W. to 1/4 cor.
171.45' E. to sec. cor.

Southwestern Bell Telephone Co.
50' Right-of-Way Easement
Rec'd. Bk. 984, Pg. 281
Filed December 30, 1974

878.64'
S 89°55'19.99" W

EW-137

S89°55'20"W

208.70'

PRES. R/W

386.46'

412.00'

412.93'

100'

50'

S 78°06'41" W

511.00'

510.07'

266.27'

266.25'

132.00'

1304.76' STATUTORY R/W

1304.75'

2642.53'

N89°55'19.99"E 1321.27'

S 89°55'19.99" W

16.5'

50'

℄ SURVEY - GRAND AVE.

Public
50' Roadway Easement
Rec'd. Bk. 1353, Pg. 177
Filed April 7, 1983

Public
50' Roadway Easement
Rec'd. Bk. 919, Pg. 635
Filed May 23, 1971

Public
50' Roadway Easement
Rec'd. Bk. 919, Pg. 638, 645
Filed May 23, 1971

Public
50' Roadway Easement
Rec'd. Bk. 1408, Pg. 797
Filed March 15, 1984

141.90'
N 00°00'15.96" E
(M.P. TO C.C.)

1324.00'

GOV'T. LOT 1

2650.35'
N 00°00'23.76" W

1325.17' NS-280.5

N01°04'37"W
518.68'

518.60'

PI 100+00.00

S00°00'24"E

577.50'

S00°00'32"W

N00°00'32"E
1326.95'

2076.39'

Quillin, Rick
Warranty Deed
Bk. 4794, Pg. 459
Filed 08/04/2014

Crawford, Kent & Victory
Warranty Deed
Bk. 4794, Pg. 132
Filed 08/01/2014

Catherine T. Rempe
Surviving Joint Tenant
Bk. 3920, Pg. 370
Filed 01/09/2007

Mary Catherine Rempe
Warranty Deed
Bk. 1438, Pg. 297
Filed 09/11/1984

Robert W. Larson Jr.
Lynn G. Larson
Warranty Deed (1/2 Interest)
Bk. 1973, Pg. 49
Filed 07/11/1988

Kuhlman, Arthur & Carl & Mona
Quit Claim Deed (1/2 Interest)
Bk. 3107, Pg. 463
Filed 04/07/1999

421.69'

501.31'

N 89°55'20" E 923.00'

SECTION 1
T-6-N, R-8-W

SCALE
1" = 100'

7058 7052 7053 7054 7766 9096 9095 7762 8567 433 9094 9093 8214 7768 8213 8212 8210 8211 7769 8221 7772 8222 8219 8216 8223 8207 A014 8209 8208 7771 7773 8228 8225 8232 8231 BM #91 8784 7775 7776 8202 8787 8590 8788 7767 7798 7770 8795 8588 7794 7774 8789 BM #92 8204 8589 8205 8206 8775 8774 8776 8777

SDS 53 OF 76

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	CBM		SURVEY DATA SHEET
CHECKED	JTB		
APPROVED	JTB		
CREW	BDG		SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S53

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

SECTION 36
T-7-N, R-8-W

SECTION 31
T-7-N, R-7-W

SECTION 1
T-6-N, R-8-W

SECTION 6
T-6-N, R-7-W

GOV'T. LOT 9

GOV'T. LOT 8

Livingston Family Revocable Trust
Warratny Deed
Bk. 4277, Pg. 133
Filed June 4, 2010

Phillips Petroleum Co.
20' Right-of-Way
(W. 19.18 ac. Lot 9, Sec. 31
Obscure Description)
Rec'd. Bk. 1049, Pg. 890
Filed March 3, 1977

Phillips Petroleum Co.
20' Right-of-Way
(SE/4, SE/4, Sec. 36
Obscure Description)
Rec'd. Bk. 1049, Pg. 890
Filed March 3, 1977

Southwestern Bell Telephone Co.
50' Right-of-Way Easement
Rec'd. Bk. 984, Pg. 281
Filed December 30, 1974

Public
50' Roadway Easement
Rec'd. Bk. 919, Pg. 638, 645
Filed May 23, 1971

Public
50' Roadway Easement
Rec'd. Bk. 919, Pg. 645
Filed May 23, 1971

Carl J. Rempe &
Catherine T. Rempe
Affdt. of Surviving Joint Tenant
Rec'd. Bk. 2966, Pg. 520
Filed July 31, 1997

STATUTORY R/W

N01°43'24.55"E

N 00°00'34.84" W 2637.62'

N 00°01'28.45" E 2657.43'

S89°55'19.99" W 2642.53'

N 89°52'51.14" W 2617.40'

S89°52'51.14" E 1280.91'

1302.32'
1318.81'
1302.31'

1319.10'
N 00°03'40" W

1326.17'
N 00°00'13" W

1304.76'
1321.27'

1304.75'

1280.89'
1291.40'

1278.69'
1328.72'
1312.8'

NS-281

A001 ℄ SURVEY - U.S.81

A014 ℄ SURVEY - GRAND AVE.

PRES. R/W

16.5' EW-137

50' 100' 50'

S 44°51'42" W 36.87'

26.86'
S 17°11'20" E
25.99'
S 02°32'50" E

SET 40D NAIL
IN 6" FENCE POST

FND. 60D NAIL
IN 6" FENCE POST

FND. 5/8" I.P.

120+00
125+00
130+00
335+00
340+00
345+00
330+00

STA. 1+16.00

P.I. Sta. 121+24.83
Fnd. 5/8" I.P. on
EW-137 ℄ & NS-281 ℄

P.I. 130+53.40

POE Sta. 130+53.40
Set 1/2" capped I.P.
on EW-137 ℄
928.57' W. to sec. cor.
1688.84' E. to 1/4 cor.

50' POE STA. 130+53.40

N 00°07'09" E 100'

BM #25
BM #24
BM #23
BM #22

333
8783
8782
7778
FND. 5/8" I.P.
468
9044
7779
7764
7763
8086a
7051
8779
8778
7056
434
8200
8780
8781
8592
8591
7055
7057

660.00'
660.00'
33'
1320.00'
1320.00'
STATUTORY R/W

SCALE
1" = 100'

SDS 54 OF 76

DESCRIPTION	REVISIONS	DATE

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

PLS	JTB	
DRAWN	CBM	
CHECKED	JTB	
APPROVED	JTB	
CREW	BDG	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S54

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

SECTION 25
T-7-N, R-8-W

SECTION 30
T-7-N, R-7-W

SECTION 36
T-7-N, R-8-W

SECTION 31
T-7-N, R-7-W

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

POB Sta. 100+00.00
Set 1/2" capped I.P.
on EW-136 ℄
1541.53' W. to 1/4 cor.
1100.01' E. to sec. cor.

POC Sta. 391+88.89 &
POT Sta. 111+53.48
Set 1/2" capped I.P.
on EW-136 ℄
53.47' W. to sec. cor.
2559.18' E. to 1/4 cor.

POST Sta. 391+82.79 &
POT Sta. 110+88.19
Set 1/2" capped I.P.
on EW-136 ℄
2629.72' W. to 1/4 cor.
11.82' E. to sec. cor.

POST Sta. 395+59.68
Set 1/2" capped I.P.
on NS-281 ℄
2274.34' N. to 1/4 cor.
376.74' S. to sec. cor.

POC Sta. 427+15.26
Set 1/2 capped I.P.
on NS-281 ℄
301.97' N. to sec. cor.
2335.65' S. to 1/4 cor.

PC Sta. 384+81.79
Set 1/2" capped I.P.

POE Sta. 122+00.00
Set 1/2" capped I.P.
on EW-136 ℄
1100.00' W. to sec. cor.
1512.66' E. to 1/4 cor.

PI Sta. 111+00.00
Fnd. 3/8" I.P. on
EW-136 ℄ & NS-281 ℄

Ariana Alford
Trustee Deed
Bk. 3875, Pg. 301
Filed 08/15/2006

SCHENK, JEFFREY WADE
Rec'd. Bk. 3848, Pg. 262
Filed: Not Found

SCHENK, DON
SCHENK, ELIZABETH
REVOCABLE TRUST
Quit Claim Deed
Rec'd. Bk. 2889, Pg. 507
Filed October 8, 1996

GOV'T. LOT 9

GOV'T. LOT 6

Arkla Energy Resourses
50' Pipeline Easement
(E/2, SW/4, SW/4, SEC 30
Obscure Description)
Rec'd. Bk. 1521, Pg. 101
Filed March 18, 1985

Dry Creek Development, L.L.C.
Warranty Deed
Rec'd. Bk. 3206, Pg. 354
Filed June 26, 2000

Rural Water, Sewer and Solid Waste Mgt. Dist. No. 6
20' Right-of-Way Easement
Bk. 1323, Pg. 545
Filed 09/28/1982

Rural Water, Sewer and Solid Waste Mgt. Dist. No. 6
20' Right-of-Way Easement
Bk. 1323, Pg. 538
Filed 09/28/1982

Rural Water, Sewer and Solid Waste Mgt. Dist. No. 6
20' Right-of-Way Easement
Bk. 1323, Pg. 539, 542
Filed 09/28/1982

Rural Water, Sewer and Solid Waste Mgt. Dist. No. 6
20' Easement
(W/2 Lot 6, Sec. 31
Obscure Description)
Bk. 1018, Pg. 279
Filed April 1, 1976

COMMISSIONER'S LAND OFFICE
(Book & Page Not Found)

Public Service Co. of Okla.
10' Right-of-Way Easement
Rec'd. Bk. 1743, Pg. 72
Filed Sept 25, 1986

Public Service Co. of Okla.
5' Right-of-Way Easement
Rec'd. Bk. 1743, Pg. 72
Filed Sept 25, 1986

Johnny Paul Franklin &
Holly F. Franklin
Warranty Deed
Rec'd. Bk. 3171, Pg. 165
Filed January 28, 2000

Laverne Nightingale &
Ada J. Nightingale
Quit Claim Deed
Rec'd. Bk. 2741, Pg. 86
Filed October 11, 1994

Gary Don Whitaker &
Donna Fay Whitaker
Quit Claim Deed
Rec'd. Bk. 4329, Pg. 590
Filed December 16, 2010

D. L. Smith & LaVera Smith
Warranty Deed
Rec'd. Bk. 830, Pg. 103
Filed May 17, 1967

CHICKASHA CITY LIMITS

BM #68 · BM #34 · BM #33 · BM #31

PLS	JTB	
DRAWN	CBM	
CHECKED	JTB	
APPROVED	JTB	
CREW	BDG	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S55

SCALE 1" = 100'

SDS 55 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

SECTION 25 T-7-N, R-8-W

SECTION 30 T-7-N, R-7-W

GOV'T. LOT 7

GOV'T. LOT 8

GOV'T. LOT 9

2651.08' N 00°04'25.5" W

2647.22' N 00°17'10.07" W

2636.48' 1318.24' S 89°58'41.04" W

2602.91' S 89°57'33.60" W

2646.79' N 00°17'05.10" W

1319.95' 47.28

POB Sta. 100+00.00
POT Sta. 102+98.42
Set 1/2" capped I.P. on EW-135.5 1/4 § 2511.14' W. to sec. cor. 2351.77' E. to 1/4 cor.

PC Sta. 101+15.64
Set 1/2" capped I.P.

PI 100+00.00

PI 100+41.28

STATUTORY R/W

POB STA 100+00.00

℄ SURVEY - C.R. 1355

N89°57'33.60"E

2.10' N 66°17'30" E

1282.88'

EW-135.5

1319.56'

39.94' S 48°24'42" W

39.06' S 36°01'51" W

FND. 5/8" CAPPED I.P.

FENCE POST

FND. 60D NAIL IN 5" FENCE POST

29.22' N 59°38'02" W

3" ST'L.

1025.03' 1320.03'

N76°18'09.32"E

EW-135.5 PI STA 116+20.20

295.00'

N 00°17'07" W 1029.60'

N 00°17'07" W 295.00'

RAWSON, REBECCA KATHLEEN
724 COUNTY ROAD 1355
CHICKASHA, OK 73018

RAWSON, DAVID DALE & JO EDYTHA
(BK. & PG. NOT FOUND)

Wheeler Family Farms, L.L.C.
Warranty Deed
Rec'd. Bk. 3372, Pg. 61
Filed April 23, 2002

Arkansas Louisiana Gas Co.
40' Pipeline Easement
Rec'd. Bk. 871, Pg. 443
Filed February 16, 1970

Reliance Pipeline Co.
50' Pipeline Easement
Rec'd. Bk. 1442, Pg. 62
Filed October 2, 1984

Reliance Pipeline Co.
50' Pipeline Easement
(E/2, NW/4, SW/4 SEC 30
Obscure Description)
Rec'd. Bk. 1442, Pg. 47
Filed October 2, 1984

Reliance Pipeline Co.
50' Pipeline Easement
Rec'd. Bk. 1442, Pg. 49
Filed October 2, 1984

Reliance Pipeline Co.
50' Pipeline Easement
(NW/4, SW/4 SEC 30
Obscure Description)
Rec'd. Bk. 1651, Pg. 342
Filed January 21, 1986

Reliance Pipeline Co.
50' Pipeline Easement
(E/2, SE/4 SEC 25
Obscure Description)
Rec'd. Bk. 1651, Pg. 340
Filed January 21, 1986

Arkansas Louisiana Gas Co.
40' Pipeline Easement
Rec'd. Bk. 871, Pg. 441
Filed February 16, 1970

Chickasha Municipal Authority
40' Easement
Rec'd. Bk. 3534, Pg. 270
Filed September 10, 2003

Reliance Pipeline Co.
50' Pipeline Easement
Rec'd. Bk. 2490, Pg. 25-39
Filed November 12, 1992

Dry Creek Development, L.L.C.
Warranty Deed
Rec'd. Bk. 3206, Pg. 354
Filed June 26, 2000

Dan S. Wirthm & Kathy R. Wirthm
Warranty Deed
Rec'd. Bk. 3361, Pg. 195
Filed March 15, 2002

Public Service Co. of Okla.
10' Right-of-Way Easement
Rec'd. Bk. 4210, Pg. 285
Filed September 11, 2009

John A. Soos & Ramona G. Soos
Warranty Deed
Rec'd. Bk. 4140, Pg. 478
Filed December 1, 2008

Marion Wayne Griswold & Evelyn Lynn Griswold
Warranty Deed
Rec'd. Bk. 3223, Pg. 552
Filed September 13, 2000

SCHENK, JEFFREY WADE
Rec'd. Bk. 3848, Pg. 262
Filed: Not Found

CHICKASHA CITY LIMITS

BM #233 — BM #37 — BM #36 — BM #69 — BM #70 — BM #71 — BM #35

PI Sta. 102+46.58
Set 1/2" capped I.P.

PI Sta. 413+90.54
Set 1/2" capped I.P.

PT Sta. 103+65.42
Set 1/2" capped I.P.

POST Sta. 104+05.78
351.09' ahead of PI
(Calculated, not set)

POC Sta. 412+00.00 & POT Sta. 411+82.99
Set 1/2 capped I.P.

PI STA 105+98.10

PT STA 105+65.42

PI STA 111+82.99

PC STA 116+27.03

PI STA 118+30.03

PT STA 120+14.16

PC STA 116+27.03
Set 1/2" capped I.P.

PI Sta. 118+30.03
Set 1/2" capped I.P.

PT Sta. 120+14.16
Set 1/2" capped I.P.

POE Sta. 129+71.43 & POT Sta. 102+96.81
Set 1/2" capped I.P. on NS-281.5 1/4 § 1323.39' N. to 1/4 cor. 1323.39' S. to 1/4 cor.

CURVE #16
PI STA= 102+46.58
X= 1972422.9049
Y= 624993.1717
Δ= 42°27'45.65" LT
D= 16°59'59.99"
T= 130.94'
L= 249.78'
R= 337.03'
E= 24.54'

CURVE #17
PI STA= 118+30.03
X= 1973599.3274
Y= 623915.3053
Δ= 42°35'04.90" LT
D= 11°00'00.00"
T= 203.00'
L= 387.13'
R= 520.87'
E= 38.16'

C-16 — C-17

S41°30'12.05"E ℄ SURVEY - IONA AVE. A006

N 00°04'25.5" W 2651.08'

℄ SURVEY - U.S. 81 A001

℄ SURVEY - C.S. 2815 A018

S 63°44'18" W — S 42°29'48" W — S 16°18'09" W — N 84°56'19" E — N 86°41'29" W — N 24°46'25" W — N 45°00'00" W — S 21°21'15" W — S 00°04'56" E

631.5' S89°54'43"W — 1287.77' 1287.77' N 89°54'43" E — 656.26' — 1320.01' N89°54'43"E — N89°54'43.08"E — 242.10' N 89°55'17" E 329.43'

N89°55'17"E 242.10'

N 00°10'39"W 1325.02'

NO0°17'07"W 1324.48'

NO0°17'07"W 1324.49'

NO0°17'05.10"W 2646.79'

NS-281.5

1323.39' 87.39'

1323.39' 39.10'

450.00'

1325.54' 1325.54' 1325.52' 1325.54' 1325.54' 1325.54

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

SECTION 25
T-7-N, R-8-W

SECTION 30
T-7-N, R-7-W

OKLAHOMA DEPARTMENT OF TRANSPORTATION						
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS	
DESCRIPTION	DATE

33'

STATUTORY R/W

8858
8856

Arkansas Louisiana Gas Co.
40' Pipeline Easement
Rec'd. Bk. 871, Pg. 443
Filed February 16, 1970

GOV'T. LOT 7

Wheeler Family Farms, L.L.C.
Warranty Deed
Rec'd. Bk. 3372, Pg. 61
Filed April 23, 2002

CURVE #16
PI STA= 102+46.58
X= 1972422.9049
Y= 624993.1717
Δ= 42°27'45.65" LT
D= 16°59'59.99"
T= 130.94'
L= 249.78'
R= 337.03'
E= 24.54'

POB Sta. 100+00.00
Set 1/2" capped I.P.
on EW-135.5 1/4 ℄
2639.90' W. to 1/4 cor.
47.28' E. to sec. cor.

PI Sta. 100+47.28
Set 5/8" capped I.P.
at sec. cor.

POE Sta. 105+98.10.00
Set 1/2" capped I.P.
on EW-135.5 1/4 ℄
550.82' W. to 1/4 cor.
2052.09' E. to sec. cor.

2634.54'
1325.54'
1325.53'

NS-281

100+00

265.08'

N 00°04'25.51" W

105+00

105+98

7069
7791
9055
7792
439
8853
8860
8861
8284
8867
8292
437
470
2.10'
438
8854
8862
8176a
8865
8866
440
8863
BM #69
441
442
340
8850
8852
8851
8849

FND 1/2" I.P.

50' 50' POB 100+00.00
N 00°01'20" W

50' 50' POE 105+98.10
N 00°02'26" W

50' 50'
N 00°00'01" E

2639.90'
S 89°58'39.45" W

1319.95'

47.28'

N89°57'33.60"E

POB Sta. 100+00.00 &
POT Sta. 102+98.42
Set 1/2" capped I.P.
on EW-135.5 1/4 ℄
2514' W. to sec. cor.
2351.77' E. to 1/4 cor.

PC Sta. 101+15.64
Set 1/2" capped I.P.

℄ SURVEY - C.R. 1355

POB STA 100+00.00
A017

1282.88'

EW-135.5

2602.91'
S 89°57'33.60" W

75' 50' 50' PC
N 84°56'19" E STA 101+15.64

C-16

PI STA 103+65.42

PI 102+46.58 75' 50' 50'
S 63°44'18" W

50' 50' 50'
S 42°29'48" W

50' 50'
S 76°18'09" W

PI Sta. 413+90.54
Set 1/2" capped I.P.

PI Sta. 102+46.58
Set 1/2" capped I.P.

PI 413+90.54

Arkansas Louisiana Gas Co.
40' Pipeline Easement
Rec'd. Bk. 871, Pg. 443
Filed February 16, 1970

Reliance Pipeline Co.
50' Pipeline Easement
(E/2, SE/4 SEC 25
Obscure Description)
Rec'd. Bk. 1651, Pg. 340
Filed January 21, 1986

Arlana Alford
Trustee Deed
Bk. 3875, Pg. 301
Filed 08/15/2006

Reliance Pipeline Co.
50' Pipeline Easement
(NW/4, SW/4 SEC 30
Obscure Description)
Rec'd. Bk. 1651, Pg. 342
Filed January 21, 1986

SCHENK, JEFFREY WADE
Rec'd. Bk. 3848, Pg. 262
Filed: Not Found

POC Sta. 412+00.00 &
POT Sta. 111+82.99
Set 1/2 capped I.P.

℄ SURVEY - IOWA AVE. S41°30'12.05" E

Reliance Pipeline Co.
50' Pipeline Easement
(E/2, NW/4, SW/4 SEC 30
Obscure Description)
Rec'd. Bk. 1442, Pg. 47
Filed October 2, 1984

Reliance Pipeline Co.
50' Pipeline Easement
Rec'd. Bk. 1442, Pg. 49
Filed October 2, 1984

Arkansas Louisiana Gas Co.
40' Pipeline Easement
Rec'd. Bk. 871, Pg. 441
Filed February 16, 1970

Dry Creek Development, L.L.C.
Warranty Deed
Rec'd. Bk. 3206, Pg. 354
Filed June 26, 2000

BM #36

CHICKASHA CITY LIMITS

RAWSON, DAVID DALE & JO EDYTHA
(BK. & PG. NOT FOUND)

RAWSON, REBECCA KATHLEEN
(BK. & PG. NOT FOUND)

POST Set 1/2 capped I.P.
1881.97' ahead of PI
on EW-135.5 1/4 ℄
1886.44' W. to 1/4 cor.
716.47' E. to 1/4 cor.

8290
8291

N89°57'34"E
295.00'

295.00'
N 00°17'07" W

N00°17'07"W
295.00'

1324.49'
N 00°17'07" W

1025.03'
1328.03'

105+00
110+00
115+00
120+00
415+00
410+00

GOV'T. LOT 8

SCALE
1" = 100'

33'

STATUTORY R/W

PT Sta. 103+65.42
Set 1/2" capped I.P.

POST &
POT Sta. 104+05.78
351.09' ahead of PI
(Calculated, not set)

SECTION 25
T-7-N, R-8-W

SECTION 30
T-7-N, R-7-W

PLS	JTB	
DRAWN	CBM	
CHECKED	JTB	
APPROVED	JTB	
CREW	BDG	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S57

SDS 57 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				
REVISIONS					
DESCRIPTION				DATE	

SECTION 30
T-7-N, R-7-W

BM #70

BM #37

BM #71

BM #233

BM #39 BM #39

POB Sta. 100+00.00
Set 1/2 capped I.P.
on NS-281.5 1/4 $
1620.20' N. to 1/4 cor.
1026.59' S. to 1/4 cor.

Dry Creek Development, L.L.C.
Warranty Deed
Rec'd. Bk. 3206, Pg. 354
Filed June 26, 2000

Reliance Pipeline Co.
50' Pipeline Easement
Rec'd. Bk. 1442, Pg. 49
Filed October 2, 1984

Reliance Pipeline Co.
50' Pipeline Easement
Rec'd. Bk. 2490, Pg. 25-39
Filed November 12, 1992

Reliance Pipeline Co.
20' Pipeline Easement
Rec'd. Bk. 1442, Pg. 62
Filed October 2, 1984

POST Set 1/2 capped I.P.
1881.97' ahead of PI
on EW-135.5
1886.44' W. to 1/4 $
716.47' E. to 1/4 cor.

POC Sta. 427+15.26
Set 1/2 capped I.P.
on EW-135.5 1/4 $
2187.85' W. to 1/4 cor.
415.06' E. to 1/4 cor.

POE Sta. 127+55.13
Set 1/2 capped I.P.
on NS-281.5 1/4 $
1134.93' S. to 1/4 cor.

POC Sta. 431+60.54 &
POT Sta. 117+82.54
Set 1/2 capped I.P.
on NS-281.5 1/4 $
2484.88' N. to 1/4 cor.
162.34' S. to 1/4 cor.

RAWSON, DAVID DALE & JO EDYTHA
(BK. & PG. NOT FOUND)

CHICKASHA CITY LIMITS

Chickasha Municipal Authority
40' Easement
Rec'd. Bk. 3534, Pg. 270
Filed September 10, 2003

Chickasha Municipal Authority
40' Easement
Rec'd. Bk. 3537, Pg. 151
Filed September 18, 2003

John A. Soos & Ramona G. Soos
Warranty Deed
Rec'd. Bk. 4140, Pg. 478
Filed December 1, 2008

Public Service Co. of Okla.
10' Right-of-Way Easement
Rec'd. Bk. 4210, Pg. 285
Filed September 11, 2009

Marlon Wayne Griswold &
Evelyn Lynn Griswold
Warranty Deed
Rec'd. Bk. 3223, Pg. 552
Filed September 13, 2000

Dan S. Winham &
Kathy R. Winham
Warranty Deed
Rec'd. Bk. 3361, Pg. 195
Filed March 15, 2002

SIMMONS, GLORIA MARCELLA VANDEVENTER
(W/2, NE/4, Less NE/4,
NW/4, NE/4, Sec. 30)
5329 26TH ST
ARLINGTON, VA 22207
(No Bk. & Pg. Found)

Reliance Pipeline Co.
50' Pipeline Easement
(Obscure Description)
Rec'd. Bk. 1442, Pg. 60
Filed October 2, 1984

PI Sta. 116+20.20
Fnd. 5/8" capped I.P.
at sec. cor.

POST Sta. 117+94.11
Set 1/2 capped I.P.
2618.51' ahead of PI
on NS-281.5 1/4 $
2473.32' N. to 1/4 cor.
173.90' S. to 1/4 cor.

FND. 6OD NAIL IN
5" FENCE POST

3" STL.
FENCE POST
FND. 5/8"
CAPPED I.P.

POB STA.100+00.00

POE STA.127+55.13

POE
STA.129+71.43

PI STA.116+20.20

PT Sta. 434+53.73
Set 1/2" capped I.P.

PT 434+53.73

8870 8871 8872 8873 8874 8875 8876 8877 8878 8879 8880 8881 8882 8883 8884 8885 8886 8889 8890 8891 8892 8893 8894 8895 8896 8897 8898 343 344 345 346 446 447 448 471 7071 7072 7075 9056

SECTION 30
T-7-N, R-7-W

SCALE
1" = 100'

PLS	JTB	
DRAWN	CBM	
CHECKED	JTB	
APPROVED	JTB	
CREW	BDG	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S58

SDS 58 OF 76

8-87

UNLESS OTHERWISE SPECIFIED, ALL RP'S ARE SET 1/2" IRON PINS.

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

SECTION 30
T-7-N, R-7-W

SECTION 29
T-7-N, R-7-W

HARDEN'S ACRES

PC 449+55.47

347

50' 50' 100'
S 13°41'51" E

450+00

455+00

460+00

465+00

470+00

105+00

110+00

100+00

POB Sta. 100+00.00
Set PK nail w/tag
on NS-282 &
2393.55' N. to sec. cor.
250.67' S. to 1/4 cor.

POB STA.100+00.00

POC Sta. 459+19.84
POT Sta. 107+03.67
Set PK nail w/tag
on NS-282 &
1689.88' N. to sec. cor.
954.34' S. to 1/4 cor.

POE Sta. 113+99.84
Set PK nail w/tag
on NS-282 &
993.71' N. to sec. cor.
1650.51' S. to 1/4 cor.

POST Sta. 107+03.67
& Sta. 458+74.54
Set PK nail w/tag
on NS-282 &
1829.36' N. to sec. cor.
250.67' S. to 1/4 cor.

8-
8302 8230 8244 8250 8252 8253 8258
8309 8311 8312 8317 8318
8305 BM #42 8307 349 8310 7084 8313 8739 8319 8320
BM #235
8906 7800 9057 7801 7804 7805 8323 8088a
8913 8912 348 8314 8303 8610 450
449
8608 7806 8324 7807 8741 350
BM #43

330.11' 330.02' 128.10' 201.92' 311.06' 309.12'
N00°14'25"W 128.10'
N00°14'25"W 550.93'
N00°14'25.3"W 1322.17' 1322.06'
N 00°14'25.31" W 2641.57' 2644.22' 1320.79' 1322.05' 1305.55'
S 89°58'22" E 2632.42' 2632.48'
S 89°57'53" E 2632.55'
S 89°59'21" E 2632.35'
S 89°59'51" E 2632.29'
N 89°59'40" E 2632.16' 2632.22'
N 89°59'10" E 2632.12'
N 89°58'41" E 2661.14'
S 89°58'22" E 2661.55'
S 89°57'53" E 2661.62'
S 89°59'21" E 2661.42'
S 89°59'51" E 2661.35'
N 89°59'40" E 2661.28'
S 89°57'25" E 458.50'
165.00' 309.20'
1316.92' EW-135.5 657.09'
N 89°58'41" E 1316.92'
S 89°57'31" E 328.00'
N 89°51'30.97" W 2648.96' EW-135.5 793.61'
S 89°51'14" E 549.48' 777.42'
1320.50' N 00°34'33" E
1322.13' N 00°34'32" E
1322.05' N 00°39'34" E
1025.12' N 23°58'00" E
198.96' N 23°58'00" E
1246.25' N 23°58'00" E
850.59' N 22°49'00" E
496.61'
PI Sta. 466+28.63
Set 1/2" capped I.P.
PI 466+28.63
S 00°25'49" E 529.48'
S 54°36'16" E 50.05'
N 89°45'35" E 50' 50' 50'
N 89°45'35" E 50' 50' 50'
53.65'
101.00' N89°54'25"E
POE STA.113+99.84
PRES. R/W 330.02'
NS-282 41.5' 25' 16.5'
STATUTORY R/W
PRES. R/W
PRES. R/W 309.12'
STATUTORY R/W 1305.55'
PRES. R/W
PRES. R/W
PRES. R/W
PRES. R/W
A019 ℄ SURVEY - 29th ST.
A001 ℄ SURVEY - U.S.81
℄ SURVEY - 29th ST.
340.05' S89°59'51"E
BROWN, DANIEL & PHYLLIS
317 N. 29TH ST.
(HARDENS ACRES)
CHICKASHA, OK 73018
BK. 3252, PG. 435

8
BROWN, CHARLES A. (II/5)
PO BOX 595 (HARDENS ACRES)
CHICKASHA, OK 73023
BK. 4343, PG. 536
GREEN, KIMBERLY J. (4/5)
PO BOX 1973
BLANCHARD, OK 73010
BK. 4343, PG. 536

6
BROWN, CHARLES A. (II/5)
PO BOX 595 (HARDENS ACRES)
CHICKASHA, OK 73023
BK. 4343, PG. 536
GREEN, KIMBERLY J. (4/5)
PO BOX 1973
BLANCHARD, OK 73010
BK. 4343, PG. 536

5
LEDBETTER, DICK & DONNA
3103 FRISCO (HARDENS ACRES)
CHICKASHA, OK 73018
BK. 4270, PG. 102

3
LEDBETTER, DICK & DONNA
3103 FRISCO (HARDENS ACRES)
CHICKASHA, OK 73018
BK. 4270, PG. 102

2
LEDBETTER, DICK & DONNA
3103 FRISCO (HARDENS ACRES)
CHICKASHA, OK 73018
BK. 4270, PG. 102

1
LEDBETTER, DICK & DONNA
3103 FRISCO (HARDENS ACRES)
CHICKASHA, OK 73018
BK. 4270, PG. 102

4
LEDBETTER, DICK & DONNA
3103 FRISCO (HARDENS ACRES)
CHICKASHA, OK 73018
BK. 4270, PG. 102

12
LEDBETTER, DICK & DONNA
3103 FRISCO (HARDENS ACRES)
CHICKASHA, OK 73018
BK. 4270, PG. 102

13
LEDBETTER, DICK & DONNA
3103 FRISCO (HARDENS ACRES)
CHICKASHA, OK 73018
BK. 4270, PG. 102

14
LEDBETTER, DICK & DONNA
3103 FRISCO (HARDENS ACRES)
CHICKASHA, OK 73018
BK. 4270, PG. 102

15
LEDBETTER, DICK & DONNA
3103 FRISCO (HARDENS ACRES)
CHICKASHA, OK 73018
BK. 4270, PG. 102

16
LINVILLE, JAMES EARL & WILDRED
3101 FRISCO (HARDENS ACRES)
CHICKASHA, OK 73018
BK. 4296, PG. 384

9
SMITH, SHELDON R.
115 N. 29TH ST.
(HARDENS ACRES)
CHICKASHA, OK 73018
BK. 3766, PG. 1

10
BROWN, CHARLES A. (1/5)
PO BOX 595 (HARDENS ACRES)
CHICKASHA, OK 73023
BK. 4343, PG. 536
GREEN, KIMBERLY J. (4/5)
PO BOX 1973
BLANCHARD, OK 73010
BK. 4343, PG. 536

11
Reliance Pipeline Co.
25' Pipeline Easement
Rec'd. Bk. 1506, Pg. 15-29
Filed February 11, 1985

DONNA KATHLEEN & DICK LEDBETTER
3103 FRISCO (HARDENS ACRES)
CHICKASHA, OK 73018
BK. 4270, PG. 102

SCHENK, DON
SCHENK, ELIZABETH
REVOCABLE TRUST
Quit Claim Deed
Rec'd. Bk. 2889, Pg. 507
Filed October 8, 1996
Govt. LOTS 6-7-10-11 & E/2, NW/4.
LESS 22.93 AC OF ROW

SCHENK, DON
SCHENK, ELIZABETH
REVOCABLE TRUST
Quit Claim Deed
Rec'd. Bk. 2889, Pg. 507
Filed October 8, 1996
Govt. LOTS 6-7-10-11 & E/2, NW/4.
LESS 22.93 AC OF ROW

Reliance Gas Marketing Co.
50' Right-of-way Agreement
(Govt. LOTS 7 and 11, SEC. 29 Obscure Description)
Bk. 1884, Pg. 11 and 13
Filed 10/08/1987

SCHENK, DON
SCHENK, ELIZABETH
REVOCABLE TRUST
Quit Claim Deed
Rec'd. Bk. 2889, Pg. 507
Filed October 8, 1996
Govt. LOTS 6-7-10-11 & E/2, NW/4.
LESS 22.93 AC OF ROW

SCHENK, DON
SCHENK, ELIZABETH
REVOCABLE TRUST
Quit Claim Deed
Rec'd. Bk. 2889, Pg. 507
Filed October 8, 1996
Govt. LOTS 6-7-10-11 & E/2, NW/4.
LESS 22.93 AC OF ROW

GOV'T. LOT 12
GOV'T. LOT 11
GOV'T. LOT 10
GOV'T. LOT 8
GOV'T. LOT 7
GOV'T. LOT 6

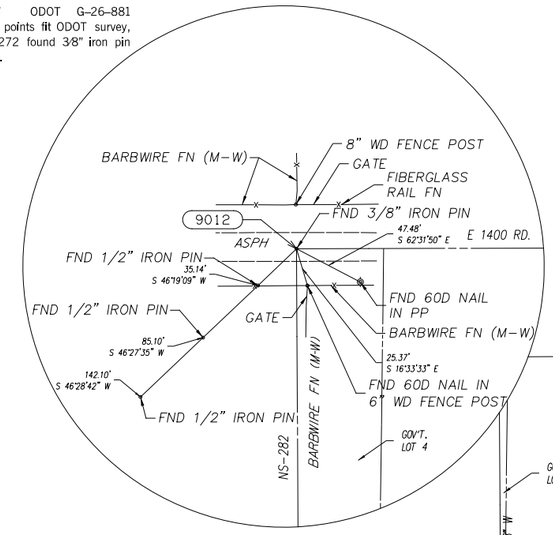
SCALE 1" = 100'

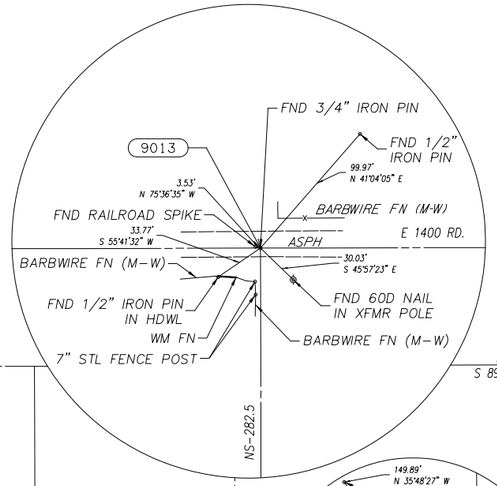
PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	CBM		SURVEY DATA SHEET
CHECKED	JTB		
APPROVED	JTB		
CREW	BDG		SWO 4925 (1) PROJECT NO. 28855(04) SHEET NO. S59

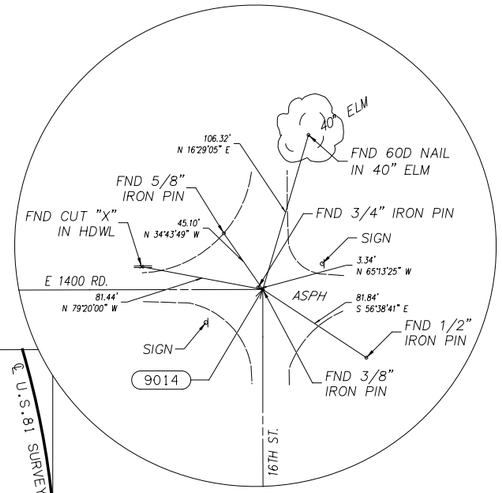
SDS 59 OF 76

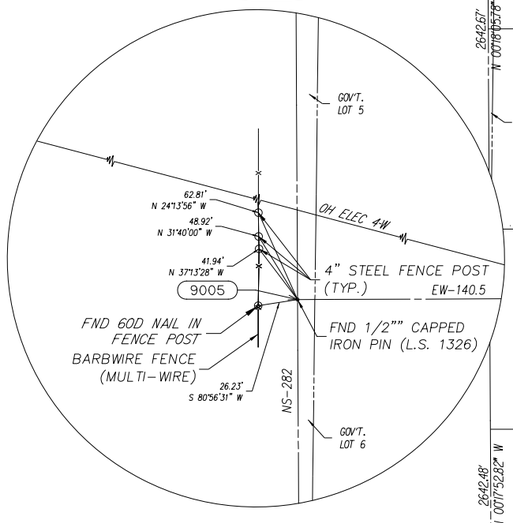
8-87

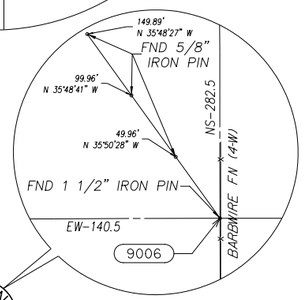
NW Corner of Section 20, T–6N, R–7W ODOT G–26–881
I found 3/8" iron pin. Monument and reference points fit ODOT survey, SWO 2737(1), and corner record in which L.S. 1272 found 3/8" iron pin in 1998 survey. Nothing set. I used 3/8" iron pin.

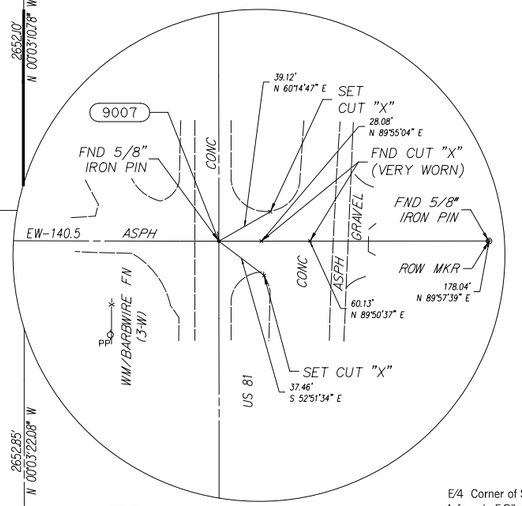


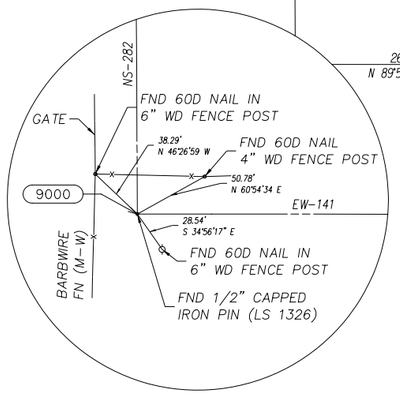


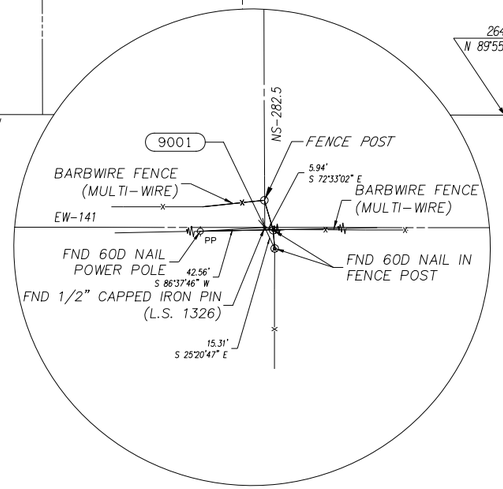


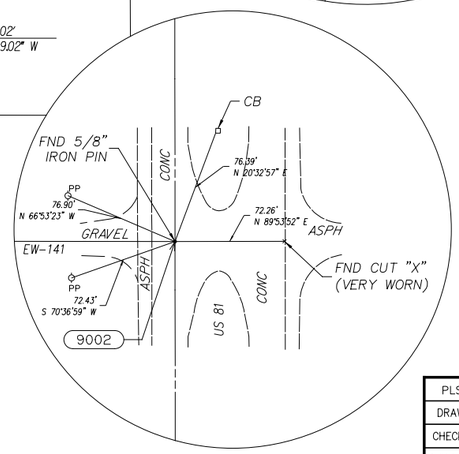












W/4 Corner of Section 20, T–6N, R–7W ODOT G–26–873
I found 1/2" capped iron pin. Monument fits corner record in which L.S. 1326 set 1/2" iron pin with cap in 2012 survey. Monument fits single proportionate method between the Northwest and Southwest corners of Section 20. Nothing set. I used 1/2" capped iron pin.

SW Corner of Section 20, T–6N, R–7W ODOT G–26–872
I found 1/2" capped iron pin. Monument and reference points fit corner record in which L.S. 1326 set 1/2" capped iron pin in 2007 survey. Nothing set. I used 1/2" iron pin.

S/4 Corner of Section 20, T–6N, R–7W ODOT G–26–871
I found 1/2" capped iron pin. Monument and reference points fit corner record in which L.S. 1326 set 1/2" iron pin with cap in 2012 survey. Monument fits single proportionate method between the southwest and southeast corners of Section 20. Nothing set. I used 1/2" capped iron pin.

GN TN θ

Angle Of Variance
At Sta. 9006 (C/4 Cor.)
X= 1980072.2880
Y= 598768.3500
Lat.= 34°58'43.06084"
Long.= 97°57'40.93182"
θ = 0°01'18.93742"

2657.12' S 89°51'05.93" W
2653.47' S 89°50'44.43" W
2642.67' N 00°18'05.78" W
2640.01' N 00°05'53.38" W
2652.01' N 00°03'10.28" W
2647.75' S 89°47'40.01" W
2651.39' N 89°53'35.30" W
2654.72' N 00°12'54.49" W
2642.48' N 00°17'52.82" W
2652.85' N 00°03'22.08" W
2643.95' N 89°56'24.84" W
2644.02' N 89°55'59.02" W

T–6–N
20
R–7–W

GOV'T. LOT 1
GOV'T. LOT 4
GOV'T. LOT 5
GOV'T. LOT 2
GOV'T. LOT 3
GOV'T. LOT 4

N/4 Corner of Section 20, T–6N, R–7W ODOT G–26–880
I found 3/4" iron pin and railroad spike. 3/4" iron pin and reference points fit ODOT survey, SWO 2737(1). Railroad spike and reference fit corner record in which L.S. 1326 found railroad spike in 2012 survey. The railroad spike had been set using the Southwest corner and one of two monuments at the Southeast corner of Section 17. Railroad spike was set by others for new fence line to the south in 2011. Nothing set. I used 3/4" iron pin.

NE Corner of Section 20, T–6N, R–7W ODOT G–26–879
I found 3/8" iron pin and 3/4" iron pin. The 3/4" iron pin does not fit ODOT survey, SWO 2737(1), but it does fit the following corner records:

L.S. 1272 found 3/4" iron pin in 1998 survey
L.S. 1384 found #6 rebar in 2008 survey.

The 3/8" iron pin and reference points fit said ODOT survey. Nothing set. I used 3/8" iron pin.

C/4 Corner of Section 20, T–6N, R–7W ODOT G–26–874
I found 1 1/2" iron pin. Monument and reference points fit ODOT survey, SWO 2737(1). Nothing set. I used 1 1/2" iron pin.

E/4 Corner of Section 20, T–6N, R–7W ODOT G–26–163
I found 5/8" iron pin. Monument and reference points fit ODOT survey, SWO 2737(1). Nothing set. I used 5/8" iron pin and set additional reference points.

SE Corner of Section 20, T–6N, R–7W ODOT G–26–162
I found 5/8" iron pin. Monument and reference point fit ODOT survey, SWO 2737(1). Nothing set. I used 5/8" iron pin.

SCALE:
1" = 500'
LAND CORNER DETAILS ARE SHOWN AT 1"=50'

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS	
DESCRIPTION	DATE

PLS	JTB	
DRAWN	JSO	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SDS 60 OF 76

SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S60

8–87

N/4 Corner of Section 21, T–6N, R–7W ODOT G–26–880
I found 3/4" iron pin and railroad spike. 3/4" iron pin and reference points fit ODOT survey, SWO 2737(1). Railroad spike and reference fit corner record in which L.S. 1326 found railroad spike in monuments at the Southeast corner of Section 17. Railroad spike was set by others for new fence line to the South in 2011. Nothing set. I used 3/4" iron pin.

GN TN θ

Angle Of Variance
At Sta. 9008 (C/4 Cor.)
X= 1985368.2480
Y= 598767.0960
Lat.= 34°58'43.02381"
Long.= 97°56'37.28846"
θ = 0°01'55.06245"

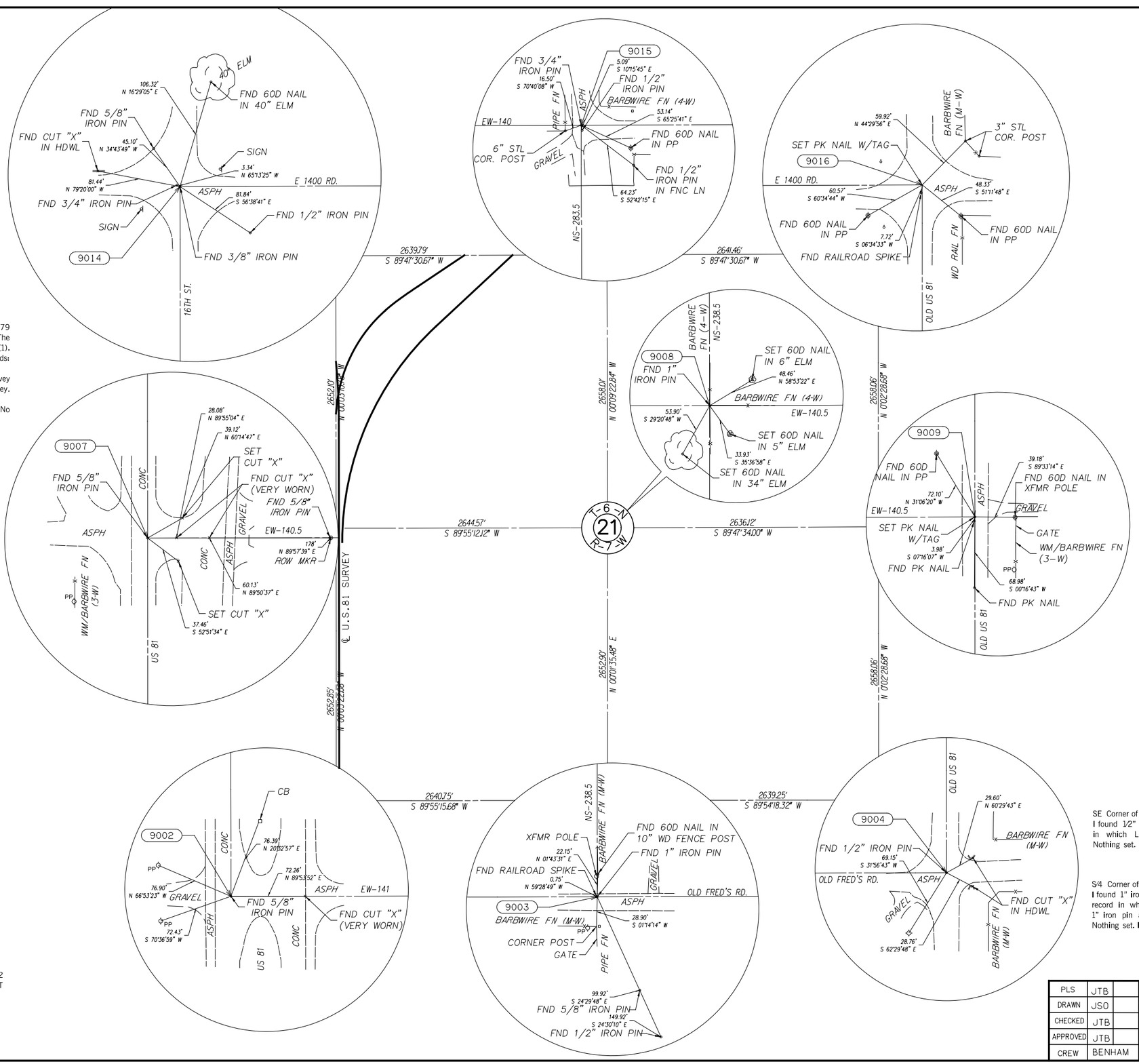
NW Corner of Section 21, T–6N, R–7W ODOT G–26–879
I found 3/8" iron pin and 3/4" iron pin. The 3/4" iron pin does not fit ODOT survey, SWO 2737(1). It does fit the following corner records:

L.S. 1272 found 3/4" iron pin in 1998 survey
L.S. 1384 found #6 rebar in 2008 survey.

The 3/8" iron pin and reference points fit said ODOT survey. No evidence set. I used 3/8" iron pin.

W/4 Corner of Section 21, T–6N, R–7W ODOT G–26–163
I found 5/8" iron pin. Monument and reference points fit ODOT survey, SWO 2737(1). Nothing set. I used 5/8" iron pin and set additional reference points.

SW Corner of Section 21, T–6N, R–7W ODOT G–26–162
I found 5/8" iron pin. Monument and reference point fits ODOT survey, SWO 2737(1). Nothing set. I used 5/8" iron pin.



OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

NE Corner of Section 21, T–6N, R–7W ODOT G–26–877
I found R.R. Spike. Monument and references do not fit ODOT survey, SWO 2028(1). Monument and references fit the following C.C.R.'s:

L.S. 1071 found PK nail in 1989 survey
L.S. 1272 found R.R. Spike in 1997 survey
L.S. 696 found R.R. Spike in 1999 survey.

I set PK nail with tag using measurements from said ODOT survey. I did not accept R.R. Spike since it did not fit G.L.O. Notes or ODOT survey.

C/4 Corner of Section 21, T–6N, R–7W ODOT G–26–875
I found 1" iron pin. Monument fits measurements from ODOT survey, SWO 2737(1). Monument position fits existing fence lines. Nothing set. I used 1" iron pin and set reference points

E/4 Corner of Section 21, T–6N, R–7W ODOT G–26–876
I found PK nail. Monument and reference points fit corner record in which L.S. 1326 set PK nail in 2001 survey. Monument had been set using single proportionate method using a questionable railroad spike at the Northeast corner of Section 21. Monument does not fit measurements from ODOT survey, SWO 2028(1), or existing fence lines. I set PK nail with tag. I set monument using single proportionate method using the northeast and southeast corners of Section 21. Monument location fits said ODOT survey and existing fence lines.

SE Corner of Section 21, T–6N, R–7W ODOT G–26–869
I found 1/2" iron pin. Monument and references fit corner record in which L.S. 1272 found 1/2" iron pin in 1997 survey. Nothing set. I used 1/2" iron pin.

S/4 Corner of Section 21, T–6N, R–7W ODOT G–26–870
I found 1" iron pin and railroad spike. The railroad spike fits corner record in which L.S. 1326 set railroad spike in 2001 survey. The 1" iron pin and reference points fit ODOT survey, SWO 2737(1). Nothing set. I used 1" iron pin.

SCALE:
1" = 500'

LAND CORNER DETAILS ARE SHOWN AT 1"=50'

PLS	JTB	
DRAWN	JSO	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SDS 61 OF 76

SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S61

8-87

NW Corner of Section 18, T–6N, R–7W ODOT G–26–897
I found 3/4" iron pin. Corner location and found reference points match the following corner records. L.S. 449 found iron pin in 1982 survey. L.S. 1272 found 3/8" iron pin in 1998 survey. L.S. 1272 found iron pin in 2001 survey. Nothing set. I used 3/4" iron pin.

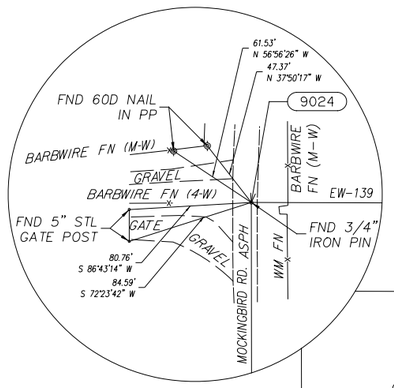
N/4 Corner of Section 18, T–6N, R–7W ODOT G–26–896
I found original stone. No certified corner records found, although monument is referenced on C.C.R.'s filed on the SW and N/4 corner of Section 7. No original reference points were found. The stone was marked "1/4" on the north face and looked undisturbed. Nothing set. I used original stone and set reference points.

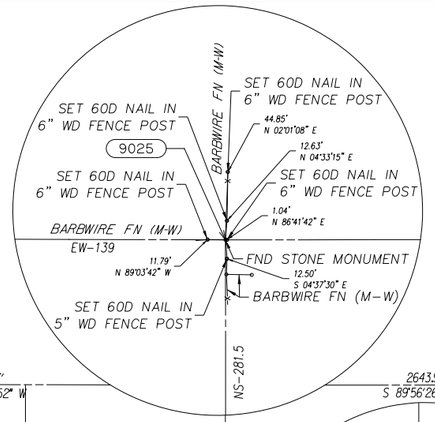
Angle Of Variance
At Sta. 9018 (C/4 Cor.)
X= 1974779.2248
Y= 604077.4383
Lat.= 34°59'35.58920"
Long.= 97°58'44.52714"
θ = 0°00'42.83966"

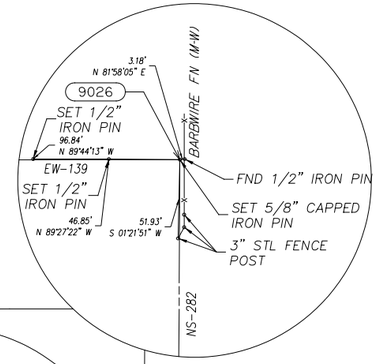
W/4 Corner of Section 18, T–6N, R–7W ODOT G–26–884
I found PK nail with tag set by L.S. 1326. Monument and reference points fit corner record in which L.S. 615 found a 1/2" iron pin and set another 1/2" iron pin in 2001 survey. Monument fits single proportionate method measurements to NW and SW corners of Section 18. Nothing set. I used PK nail with tag.

SW Corner of Section 18, T–6N, R–7W ODOT G–26–883
I found 1/2" iron pin. Monument and reference points fit the following corner records. L.S. 449 found iron pin in 1981 survey. L.S. 1082 found iron pin in 1994 survey. L.S. 1272 found 3/8" iron pin in 1998 survey. Monument also fits measurements from Oklahoma Turnpike Authority Plans, Contract 206. No Corner evidence found. I used 1/2" iron pin.

S/4 Corner of Section 18, T–6N, R–7W ODOT G–26–882
I found 1/2" capped iron pin. Monument and references fit corner record in which L.S. 1326 set 1/2" iron pin with cap in 2012 survey. Monument also fits single proportionate method from G.L.O. Notes. Nothing set. I used 1/2" capped iron pin.







NE Corner of Section 18, T–6N, R–7W ODOT G–26–895
I found 1/2" iron pin. This monument was set by others with no corner record filed. I did not find any supporting evidence for this corner location. This corner was used in the construction of a new barb–wire fence running north & south. New fence location deviates from the old fence location by approximately 4 feet to the east. I set 5/8" capped iron pin. I used measurements from ODOT survey, SWO 2737(1) to set corner. Corner location fits old fence line to the south.

C/4 Corner of Section 18, T–6N, R–7W ODOT G–26–885
No corner evidence found. I set 5/8" capped iron pin. I used measurements from Oklahoma Turnpike Authority Plans, Contract No. 206 to set monument. Position fits old fence line to the north.

2626.87'
N 89°50'09.52" W

2643.91'
S 89°56'26.44" W

GOV'T. LOT 5

GOV'T. LOT 6

GOV'T. LOT 7

GOV'T. LOT 8

2652.09'
N 00°00'34.26" W

2652.23'
N 00°00'30.00" W

2638.02'
N 00°01'47.03" E

2667.23'
N 00°07'34.55" E

2634.25'
N 00°18'53.88" E

2682.51'
N 00°04'18.48" W

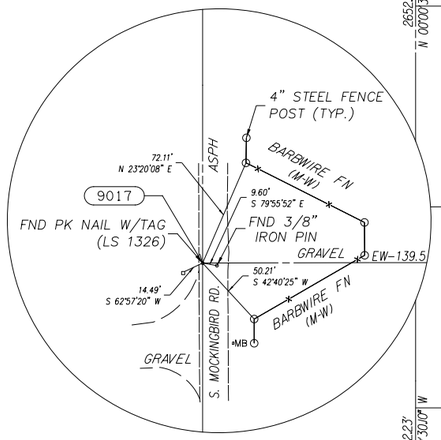
T-6-N
18
R-7-W

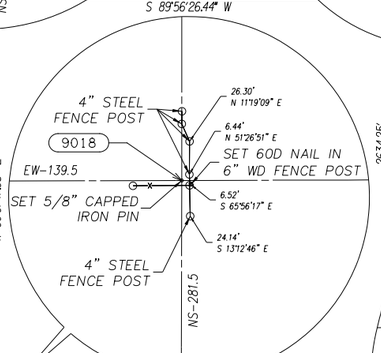
2627.80'
N 89°51'26.00" W

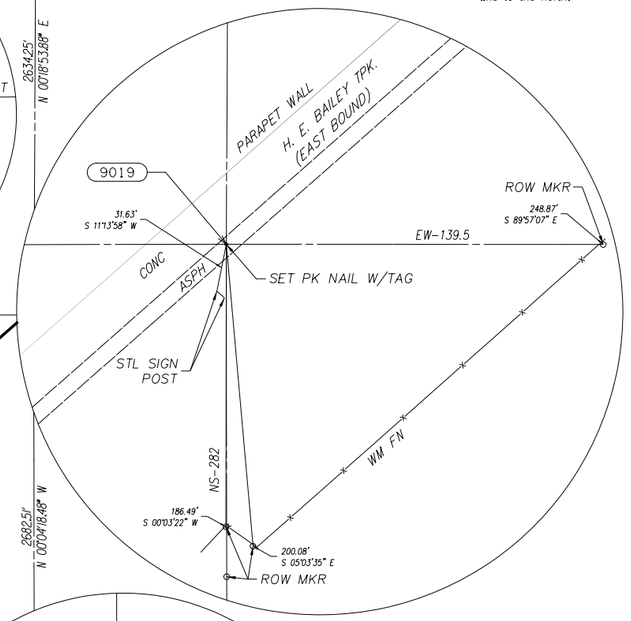
2628.07'
N 89°51'26.00" W

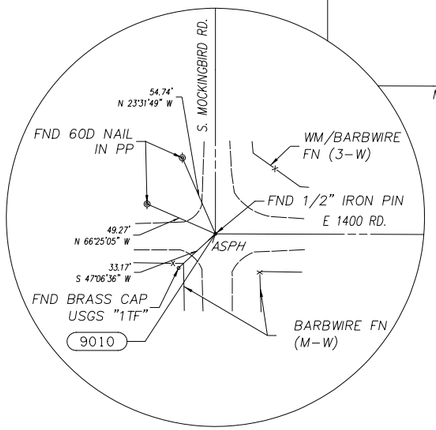
2621.54'
N 89°48'55.22" W

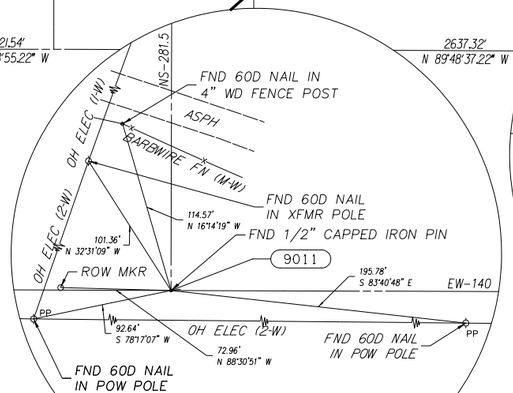
2637.32'
N 89°48'37.22" W

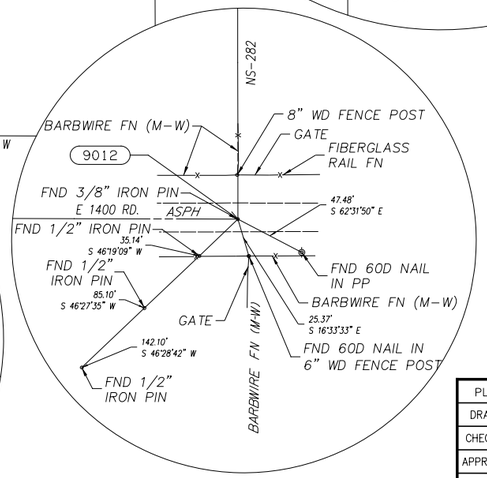












E/4 Corner of Section 18, T–6N, R–7W ODOT G–26–886
No corner evidence found. I set PK nail with tag. I used right of way markers, which were points on section lines and right of way lines. Also used measurements from Oklahoma Turnpike Authority Plans, Contract No. 206 to set monument.

SE Corner of Section 18, T–6N, R–7W ODOT G–26–881
I found 3/8" iron pin. Monument and reference points fit ODOT survey, SWO 2737(1) and corner record in which L.S. 1272 found 3/8" iron pin in 1998 survey. Nothing set. I used 3/8" iron pin.

SCALE:
1" = 500'
LAND CORNER DETAILS ARE SHOWN AT 1"=50'

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

PLS	JTB	
DRAWN	JSO	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SDS 62 OF 76

SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S62

8-87

N/4 Corner of Section 17, T–6N, R–7W ODOT G–26–892
I found 1/2" iron pin. Monument and references fit the following C.C.R.'s.:

L.S. 1326 found 1/2" iron pin in 2005 survey
L.S. 189 found #3 rebar in 2009 survey.

Nothing set. I used 1/2" iron pin.

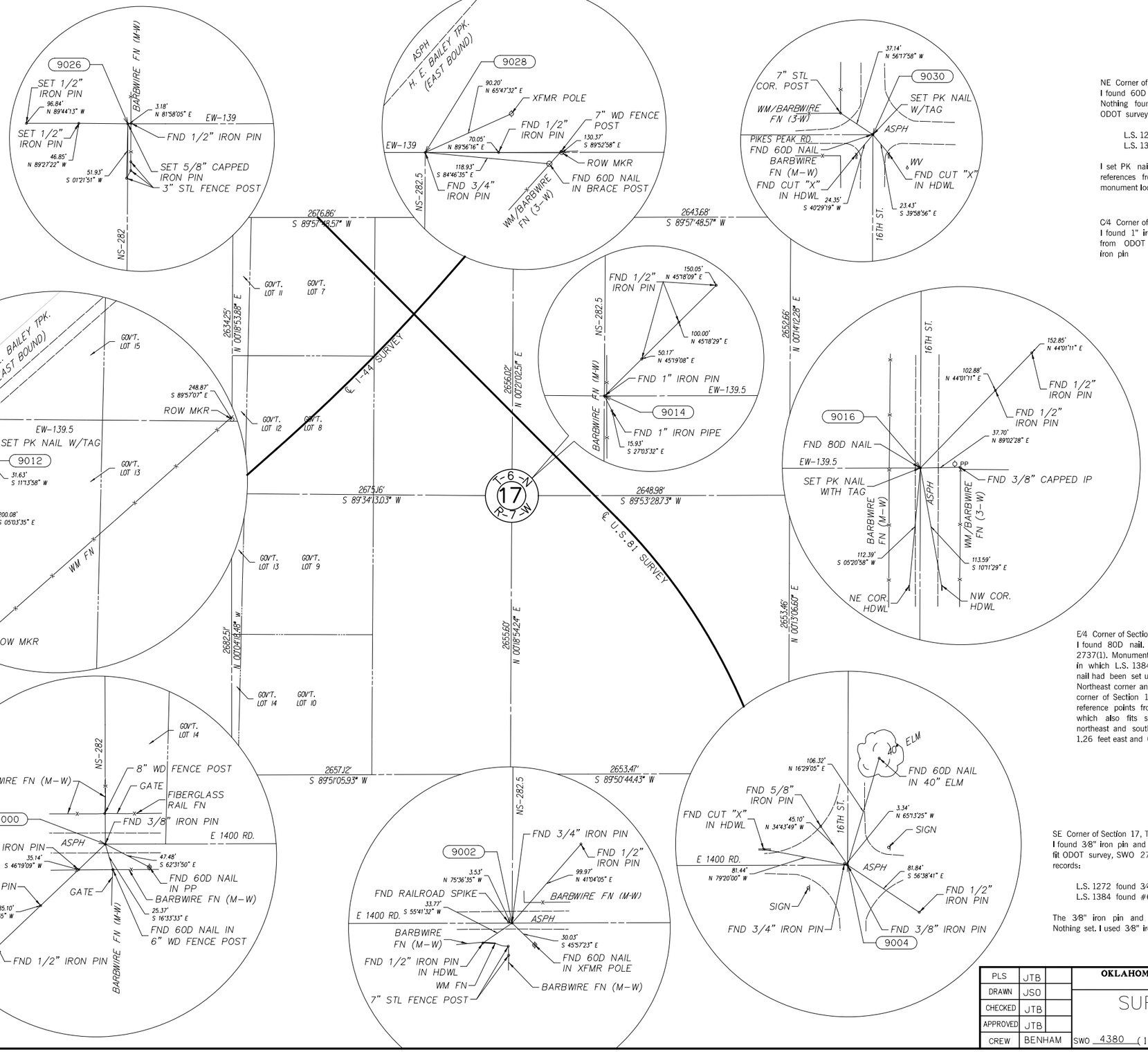
NW Corner of Section 17, T–6N, R–7W ODOT G–26–895
I found 1/2" iron pin. This monument was set by others with no corner record filed. I did not find any supporting evidence for this corner location. This corner was used in the construction of a new barbed–wire fence running north and south. New fence location deviates from the old fence location by approximately 4 feet to the east. I set 5/8" capped iron pin. I used measurements from ODOT survey, SWO 2737(1), to set corner. Corner location fits old fence line to the south

W/4 Corner of Section 17, T–6N, R–7W ODOT G–26–886
No corner evidence found. I set PK nail with tag. I used right of way markers, which were points on section lines and right of way lines. Also used measurements from Oklahoma Turnpike Authority Plans, Contract No. 206 to set monument.

Angle Of Variance
At Sta. 9020 (C/4 Cor.)
X= 1980082.3680
Y= 604063.9240
Lat.= 34°59'35.44004"
Long.= 97°57'40.78631"
θ = 0°01'19.02001"

SW Corner of Section 17, T–6N, R–7W ODOT G–26–881
I found 3/8" iron pin. Monument and reference points fit ODOT survey, SWO 2737(1) and corner record in which L.S. 1272 found 3/8" iron pin in 1998 survey. Nothing set. I used 3/8" iron pin.

S/4 Corner of Section 17, T–6N, R–7W ODOT G–26–880
I found 3/4" iron pin and railroad spike. 3/4" iron pin and reference points fit ODOT survey, SWO 2737(1). Railroad spike and reference fit corner record in which L.S. 1326 found railroad spike in 2012 survey. The railroad spike had been set using the southwest corner and one of two monuments at the southeast corner of Section 17. Railroad spike was set by others for new fence line to the south in 2011. Nothing set. I used 3/4" iron pin.



NE Corner of Section 17, T–6N, R–7W ODOT G–26–893
I found 60D nail. Removed 60D nail to look for iron pin. Nothing found below nail. Monument and references fit ODOT survey and the following C.C.R.'s:

L.S. 1272 found 3/8" iron pin in 1998 survey
L.S. 1384 found #3 rebar in 2008 survey.

I set PK nail with tag back in place of 60D nail. I used references from ODOT survey, SWO 2028(1), to check monument location.

C/4 Corner of Section 17, T–6N, R–7W ODOT G–26–887
I found 1" iron pin. Found monument and reference points from ODOT survey, SWO 2737(1). Nothing set. I used 1" iron pin

E/4 Corner of Section 17, T–6N, R–7W ODOT G–26–888
I found 80D nail. Monument does not fit ODOT survey, SWO 2737(1). Monument and reference points fit the corner record in which L.S. 1384 set 80D nail in 2008 survey. The 80D nail had been set using single proportionate method using the Northeast corner and one of two monuments at the southeast corner of Section 17. I set PK nail with tag. I used existing reference points from said ODOT survey to set monument, which also fits single proportionate method between the northeast and southeast corners of Section 17. Monument is 1.26 feet east and 0.48 feet south of found 80D nail.

SE Corner of Section 17, T–6N, R–7W ODOT G–26–879
I found 3/8" iron pin and 3/4" iron pin. The 3/4" iron pin does not fit ODOT survey, SWO 2737(1), but it does fit the following corner records:

L.S. 1272 found 3/4" iron pin in 1998 survey
L.S. 1384 found #6 rebar in 2008 survey.

The 3/8" iron pin and reference points fit said ODOT survey. Nothing set. I used 3/8" iron pin.

SCALE:
1" = 500'

LAND CORNER DETAILS ARE SHOWN AT 1"=50'

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

PLS	JTB	
DRAWN	JSO	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SDS 63 OF 76

SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S63

8–87

N/4 Corner of Section 16, T–6N, R–7W ODOT G–26–892
I found 1/2" iron pin. Monument and references fit the following C.C.R.'s:

L.S. 1326 found 1/2" iron pin in 2005 survey
L.S. 189 found #3 rebar in 2009 survey.

Nothing set. I used 1/2" iron pin.

NW Corner of Section 16, T–6N, R–7W ODOT G–26–893
I found 60D nail. Removed 60D nail to look for iron pin. Nothing found below nail. Monument and references fit ODOT survey and the following C.C.R.'s:

L.S. 1272 found 3/8" iron pin in 1998 survey
L.S. 1384 found #3 rebar in 2008 survey.

I set PK nail with tag back in place of 60D nail. I used references from ODOT survey, SWO 2028(1), to check monument location.

Angle Of Variance
At Sta. 9022 (C/4 Cor.)
X= 1985365.6870
Y= 604077.6000
Lat.= 34°59'35.55072"
Long.= 97°56'37.28364"
θ = 0°01'55.06519"

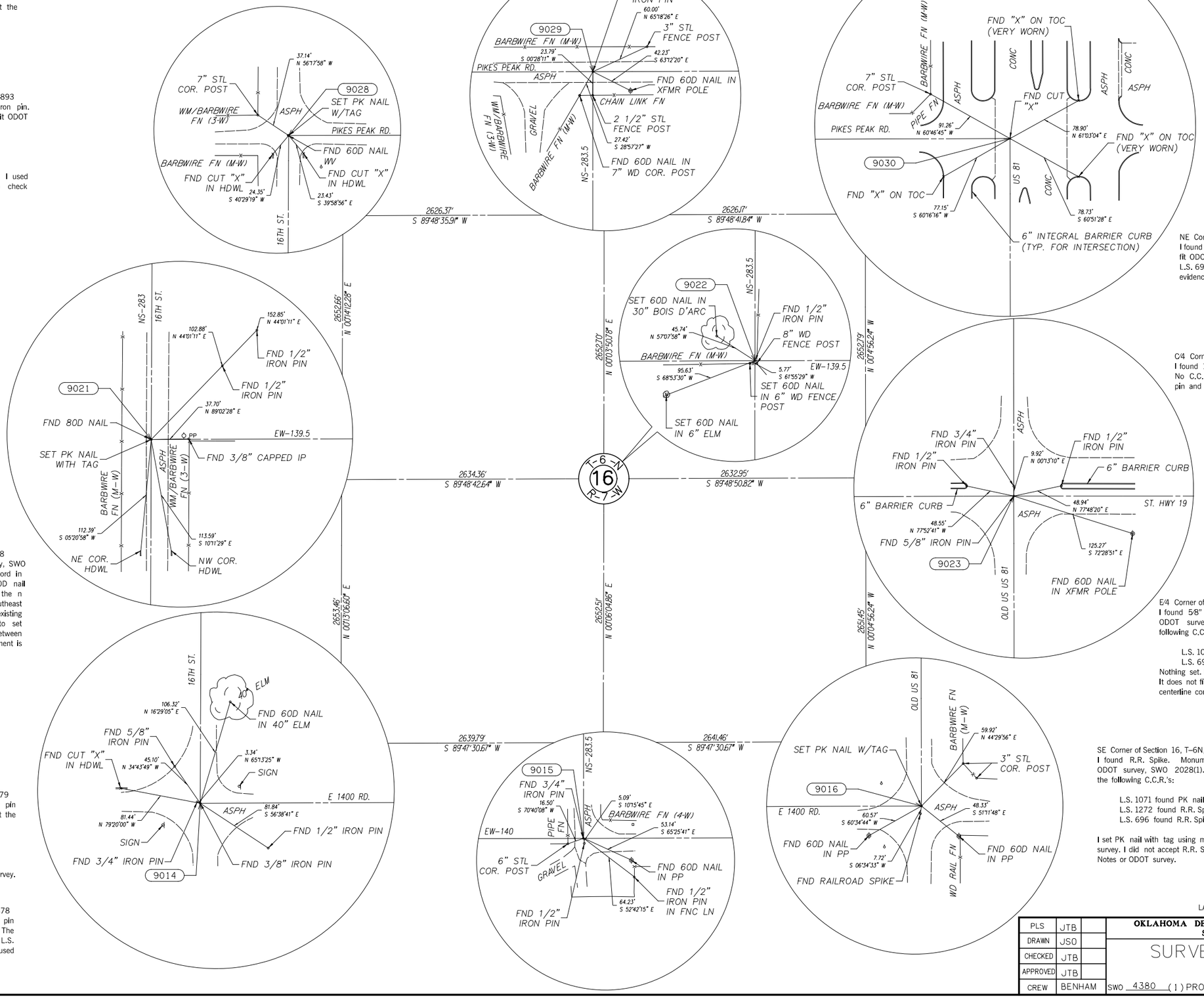
W/4 Corner of Section 16, T–6N, R–7W ODOT G–26–888
I found 80D nail. Monument does not fit ODOT survey, SWO 2737(1). Monument and reference points fit the corner record in which L.S. 1384 set 80D nail in 2008 survey. The 80D nail had been set using single proportionate method using the northeast corner and one of two monuments at the southeast corner of Section 17. I set PK nail with tag. I used existing reference points from ODOT survey, SWO 2737(1), to set monument, which also fits single proportionate method between the northeast and southeast corners of Section 17. Monument is 1.26 feet east and 0.48 feet south of found 80D nail.

SW Corner of Section 16, T–6N, R–7W ODOT G–26–879
I found 3/8" iron pin and 3/4" iron pin. The 3/4" iron pin does not fit ODOT survey, SWO 2737(1), but it does fit the following corner records:

L.S. 1272 found 3/4" iron pin in 1998 survey
L.S. 1384 found #6 rebar in 2008 survey.

The 3/8" iron pin and reference points fit said ODOT survey. Nothing set. I used 3/8" iron pin.

S/4 Corner of Section 16, T–6N, R–7W ODOT G–26–878
I found 3/4" iron pin and 1/2" iron pin. The 3/4" iron pin and reference point fit ODOT survey, SWO 2737(1). The 1/2" iron pin and reference points fit C.C.R. in which L.S. found 3/8" iron pin in 1997 survey. Nothing set. I used 3/4" iron pin.



NE Corner of Section 16, T–6N, R–7W ODOT G–26–891
I found cut "X" in concrete. Monument and references fit ODOT survey, SWO 2028(1), and the C.C.R. in which L.S. 696 found cut "X" in 1999 survey. No corner evidence set. I used cut "X".

C/4 Corner of Section 16, T–6N, R–7W ODOT G–26–889
I found 1/2" iron pin. Monument fits ODOT survey 2737 (1). No C.C.R.'s found for corner. Nothing set. I used 1/2" iron pin and set references.

E/4 Corner of Section 16, T–6N, R–7W ODOT G–26–890
I found 5/8" iron pin and 3/4" iron pin. The 5/8" iron pin fits ODOT survey, SWO 2028(1). The 3/4" iron pin fits the following C.C.R.'s:

L.S. 1071 found 5/8" iron pin in 1989 survey
L.S. 696 found R.R. spike in 1999 survey.

Nothing set. I used 5/8" iron pin. I did not accept 3/4" iron pin. It does not fit with G.L.O. notes or ODOT survey. It is possibly a centerline control point for S.H. 19.

SE Corner of Section 16, T–6N, R–7W ODOT G–26–877
I found R.R. Spike. Monument and references do not fit ODOT survey, SWO 2028(1). Monument and references fit the following C.C.R.'s:

L.S. 1071 found PK nail in 1989 survey
L.S. 1272 found R.R. Spike in 1997 survey
L.S. 696 found R.R. Spike in 1999 survey.

I set PK nail with tag using measurements from said ODOT survey. I did not accept R.R. Spike, since it did not fit G.L.O. Notes or ODOT survey.

SCALE:
1" = 500'
LAND CORNER DETAILS ARE SHOWN AT 1"=50'

OKLAHOMA DEPARTMENT OF TRANSPORTATION						
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
	OKLA.					
REVISIONS						
DESCRIPTION					DATE	

PLS	JTB	
DRAWN	JSO	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SDS 64 OF 76

SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S64

8-87

NW Corner of Section 7, T–6N, R–7W ODOT G–26–907
I found 1/2" iron pin, railroad spike, and 1" iron pin. 1/2" iron pin and found reference points fit corner record in which L.S. 1272 found 1/2" iron pin in 2001 survey with no supporting evidence listed. No corner record was found for railroad spike. 1" iron pin fits measurements from ODOT survey, SWO 2737(1). Nothing set. I used 1" iron pin.

N/4 Corner of Section 7, T–6N, R–7W ODOT G–26–908
I found 1/2" iron pin. Corner location and found reference points fit ODOT survey, SWO 2737(1), and corner record in which L.S. 1272 found 1/2" iron pin in 2001 survey. Nothing set. I used 1" iron pin.

GN TN θ

Angle Of Variance
At Sta. 9032 (C/4 Cor.)
X= 1974774.8469
Y= 609365.4703
Lat.= 35°00'27.89363"
Long.= 97°58'44.56656"
θ = 0°00'42.81728"

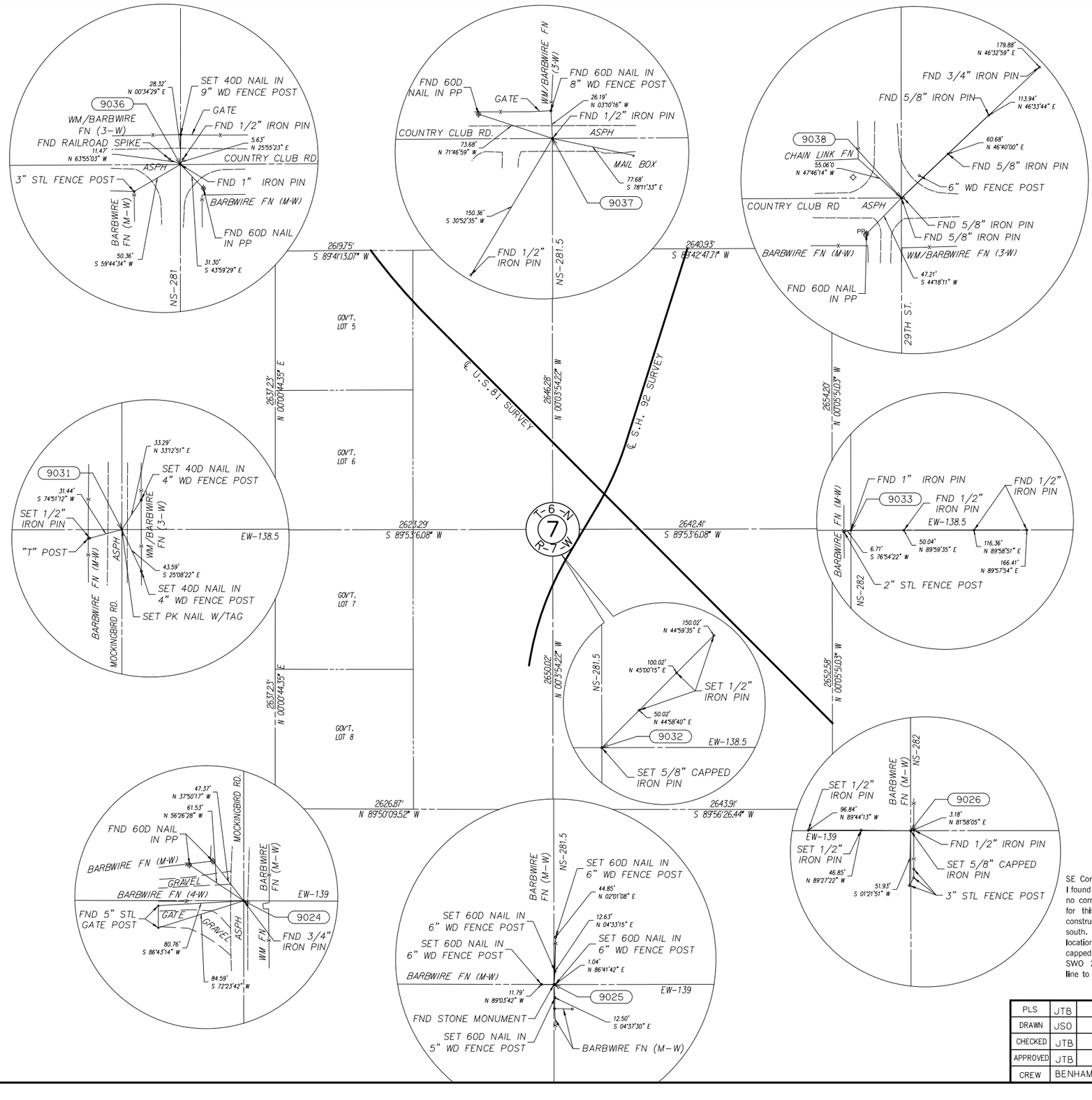
W/4 Corner of Section 7, T–6N, R–7W ODOT G–26–898
No corner evidence found. I set PK nail with tag. I used single proportion method to set the corner between the northwest and southwest corner of Section 7.

SW Corner of Section 7, T–6N, R–7W ODOT G–26–897
I found 3/4" iron pin. Corner location and found reference points match the following corner records:

L.S. 449 found iron pin (CCR filed June 8, 1982)
L.S. 1082 found 3/4" iron pin (CCR filed APR 18, 1994)
L.S. 1272 found 3/8" iron pin (CCR filed Dec 7, 1998)
L.S. 1272 found iron pin (CCR filed Aug 31, 2001).

Nothing set. I used 3/4" iron pin.

S/4 Corner of Section 7, T–6N, R–7W ODOT G–26–896
I found original stone. No certified corner records found, although monument is referenced on C.C.R.'s filed on the southwest and N/4 corner of Section 7. No original reference points were found. Stone was marked, "1/4" on n orth face, and looked undisturbed. Nothing set. I used original stone and set reference points.



NE Corner of Section 7, T–6N, R–7W ODOT G–26–905
I found 5/8" iron pin. Corner location and found reference points fit ODOT survey, SWO 2737(1). Also found 5/8" iron pin 2 feet east of corner, which is a P.O.T. point for Country Club Road Alignment from same survey. Corner location and found reference points do not fit the following corner records, in which supporting evidence was not listed:

L.S. 449 found 1/2" iron pin in 1981 survey
L.S. 1272 found R.R. spike in 1998 survey.

C/4 Corner of Section 7, T–6N, R–7W ODOT G–26–899
No corner evidence found. No corner records found. I set 5/8" iron pin. I used the intersection of lines between opposite quarter section corners to set center of section.

E/4 Corner of Section 7, T–6N, R–7W ODOT G–26–900
I found 1" iron pin. Monument and found reference points match ODOT survey, SWO 2737(1). Nothing set. I used 1" iron pin

SE Corner of Section 7, T–6N, R–7W ODOT G–26–895
I found 1/2" iron pin. This monument was set by others with no corner record filed. I did not find any supporting evidence for this corner location. This corner was used in the construction of a new barbed–wire fence running north and south. New fence location deviates from the old fence location by approximately 4 feet to the east. I set 5/8" capped iron pin. I used measurements from ODOT survey, SWO 2737(1), to set corner. Corner location fits old fence line to the south

SCALE: 1" = 500'

LAND CORNER DETAILS ARE SHOWN AT 1"=50'

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				
REVISIONS					
DESCRIPTION				DATE	

			OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
PLS	JTB		SURVEY DATA SHEET
DRAWN	JSO		SDS 65 OF 76
CHECKED	JTB		
APPROVED	JTB		
CREW	BENHAM		SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S65

8–87

NW Corner of Section 8, T–6N, R–7W ODOT G–26–905
I found 5/8" iron pin. Corner location and found reference points fit ODOT survey, SWO 2737(1). Also found 5/8" iron pin 2 feet east of corner which is a P.O.T. point for Country Club Road Alignment from same survey. Corner location and found reference points do not fit the following corner records, in which supporting evidence was not listed:

L.S. 449 found 1/2" iron pin (CCR filed Apr 23, 1981)
L.S. 1272 found railroad spike (CCR filed June 26, 1998).

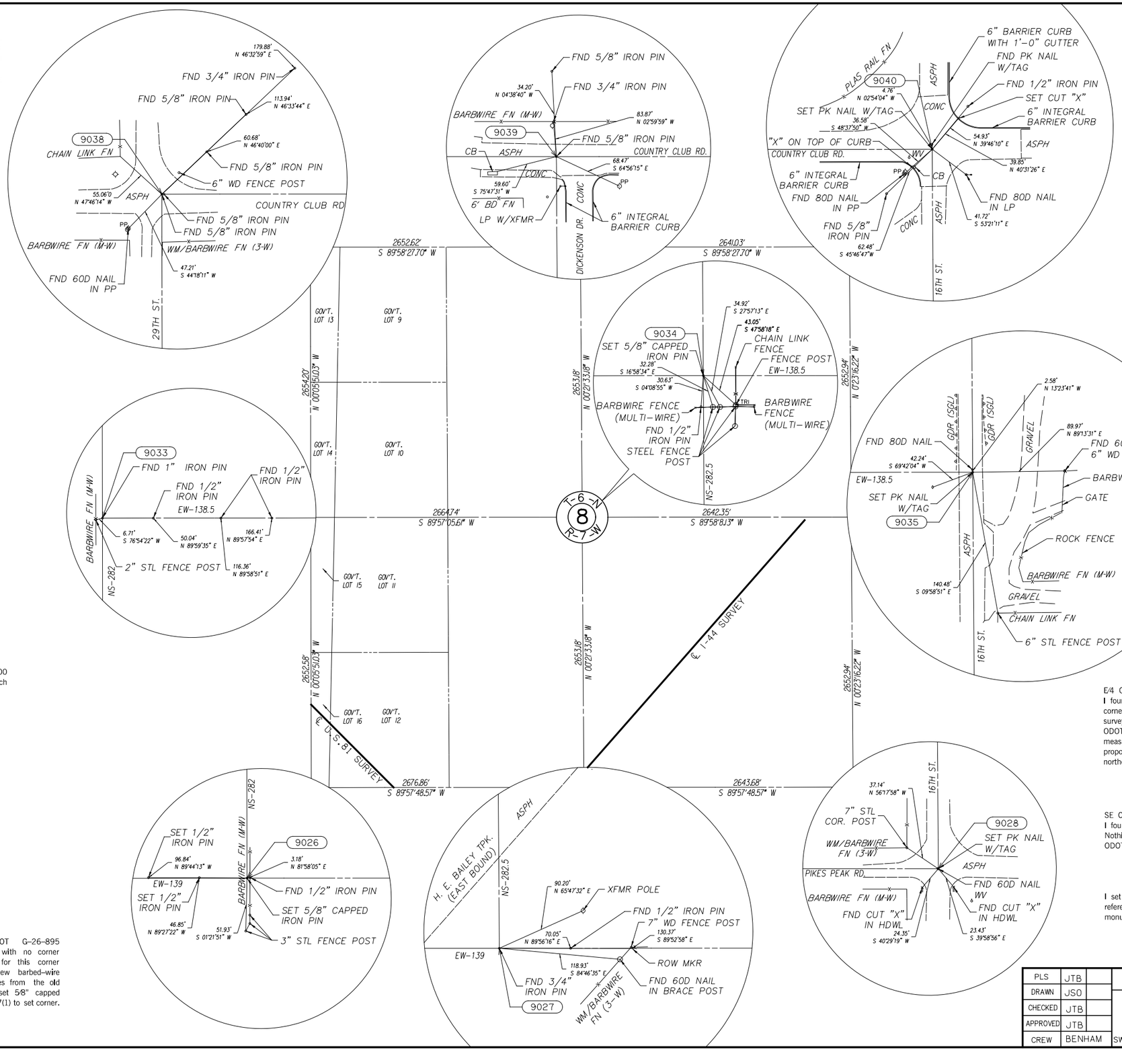
N/4 Corner of Section 8, T–6N, R–7W ODOT G–26–904
I found 5/8" iron pin. Corner and found reference points fit ODOT survey, SWO 2737(1). No previous corner records found. Nothing set. I used 5/8" iron pin.

Angle Of Variance
At Sta. 9034 (C/4 Cor.)
X= 1980081.9910
Y= 609373.0260
Lat.= 35°00'27.95285"
Long.= 97°57'40.76639"
θ = 0°01'19.03132"

W/4 Corner of Section 8, T–6N, R–7W ODOT G–26–900
I found 1" iron pin. Monument and found reference points match ODOT survey, SWO 2737(1). Nothing set. I used 1" iron pin.

S/4 Corner of Section 8, T–6N, R–7W ODOT G–26–894
I found 3/4" iron pin. Corner location and reference points fits ODOT survey, SWO 2737(1), and corner record in which L.S. 1706 found 3/4" iron pin in 2011 survey. Nothing set. I used 3/4" iron pin.

SW Corner of Section 8, T–6N, R–7W ODOT G–26–895
I found 1/2" iron pin. This monument was set by others with no corner record filed. I did not find any supporting evidence for this corner location. This corner was used in the construction of a new barbed–wire fence running north and south. New fence location deviates from the old fence location by approximately 4 feet to the east. I set 5/8" capped iron pin. I used measurements from ODOT survey, SWO 2737(1) to set corner. Corner location fits old fence line to the south



NE Corner of Section 8, T–6N, R–7W ODOT G–26–903
I found PK nail with tag (C.A. 3949). Monument was set during the course of this survey. No corner record had been filed at the time. Monument fit corner records listed below:

L.S. 449 found iron pin (CCR filed Aug 15, 1984)
L.S. 1272 found PK nail in 1998 survey
L.S. 1407 found PK nail in 2002 survey.

Corner records did not have any supporting evidence listed. Monument and corner records did not fit ODOT survey, SWO 2737(1). I set PK nail with tag. I used reference points and measurements from said ODOT survey to set corner.

C/4 Corner of Section 8, T–6N, R–7W ODOT G–26–901
No corner evidence found. I set 5/8" capped iron pin and references as shown. I used measurements from ODOT survey, SWO 2737(1), to set center of section.

E/4 Corner of Section 8, T–6N, R–7W ODOT G–26–902
I found 80D nail. Corner and found references matched corner record in which L.S. 1326 found 80D nail in 2005 survey. Corner location does not fit measurements from ODOT survey, SWO 2737(1). I set PK nail. I used measurements from said ODOT survey and used single proportion method to set corner between the southeast and northeast corner of Section 8.

SE Corner of Section 8, T–6N, R–7W ODOT G–26–893
I found 60D nail. Removed 60D nail to look for iron pin. Nothing was found below nail. Monument and references fit ODOT survey and the following CCR.'s:

L.S. 1272 found 3/8" iron pin in 1998 survey
L.S. 1384 found #3 rebar in 2008 survey.

I set PK nail with tag back in place of 60D nail. I used references from ODOT survey, SWO 2028(1), to check monument location.

SCALE:
1" = 500'

LAND CORNER DETAILS ARE SHOWN AT 1"=50'

OKLAHOMA DEPARTMENT OF TRANSPORTATION						
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				
REVISIONS					
DESCRIPTION				DATE	

PLS	JTB	
DRAWN	JSO	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SDS 66 OF 76

SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S66

8–87

N/4 Corner of Section 6, T–6N, R–7W ODOT G–26–912
I found 3/4" iron pin. Monument and reference points fit ODOT survey, SWO 2737(1), and corner record in which L.S. 1200 found 5/8" iron pin in 2012 survey. Nothing set. I used 3/4" iron pin.

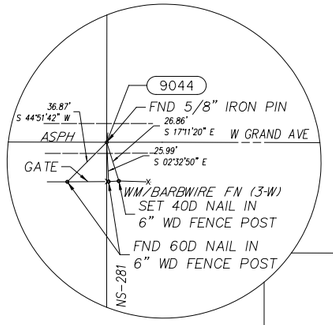
NW Corner of Section 6, T–6N, R–7W ODOT G–26–913
I found 5/8" iron pin. Corner location and found reference points fit ODOT survey, SWO 2737(1), and corner record in which L.S. 1378 found 5/8" iron pin in 1995 survey. Nothing set. I used 5/8" iron pin.

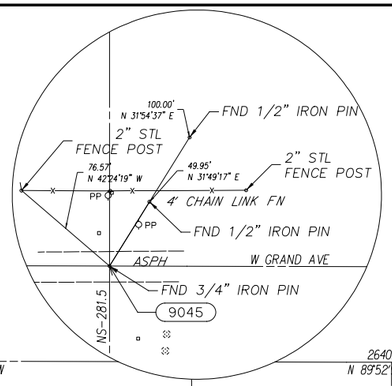
Angle Of Variance
At Sta. 9042 (C/4 Cor.)
X= 1974771.9766
Y= 614659.7111
Lat.= 35°01'20.25923"
Long.= 97°58'44.58786"
θ = 0°00'42.80519"

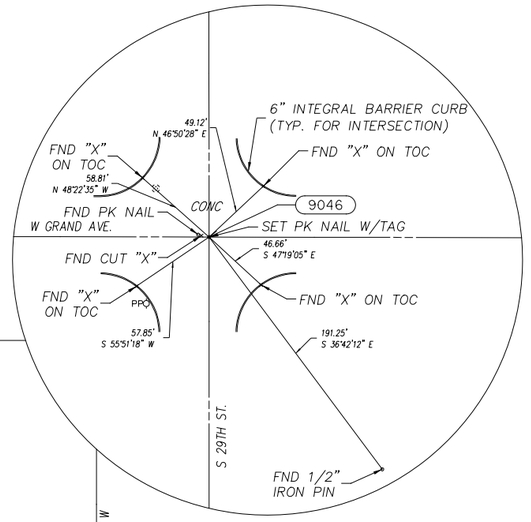
W/4 Corner of Section 6, T–6N, R–7W ODOT G–26–908
No corner evidence found. I set 5/8" iron pin and references. I set corner using single proportionate method.

SW Corner of Section 6, T–6N, R–7W ODOT G–26–907
I found 1/2" iron pin, railroad spike, and 1" iron pin. 1/2" iron pin and found reference points fit corner record in which L.S. 1272 found 1/2" iron pin in 2001 survey, with no supporting evidence listed. No corner record found for railroad spike. 1" iron pin fits measurements from ODOT survey, SWO 2737(1). Nothing set. I used 1" iron pin.

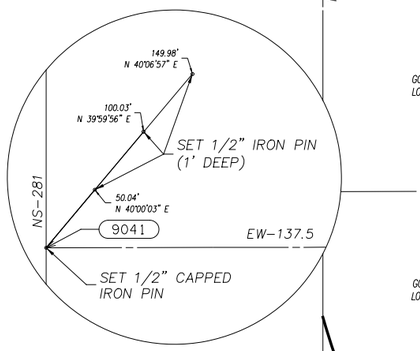
S/4 Corner of Section 6, T–6N, R–7W ODOT G–26–908
I found 1/2" iron pin. Corner location and found reference points fit ODOT survey, SWO 2737(1), and corner record in which L.S. 1272 found 1/2" iron pin in 2001 survey. Nothing set. I used 1" iron pin.

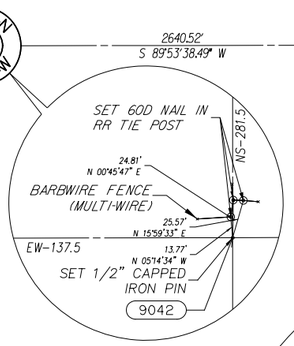


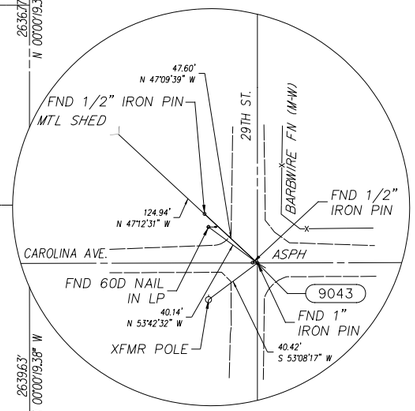




NE Corner of Section 6, T–6N, R–7W ODOT G–26–911
I found a chiseled "X" and nail. Monuments and reference points do not fit ODOT survey, SWO 2737(1), or the following corner records. L.S. 955 found 1" iron pin in 1985 survey. L.S. 1272 found an iron pin in 1988 survey. Monuments and reference points fit the following corner records. L.S. 1272 found a chiseled "X" in 1998 survey, with no supporting evidence listed. L.S. 1200 found a nail at an "X" in intersection in 2012 survey. I set a PK nail with tag. I used found reference points and measurements from said ODOT survey to set monument. I did not find supporting evidence for the chiseled "X", although it was used for subdivision surveys to the Southwest. I did not find supporting evidence for the nail that was found at the intersection of two paving joints, which was placed there by others during the course of this survey.

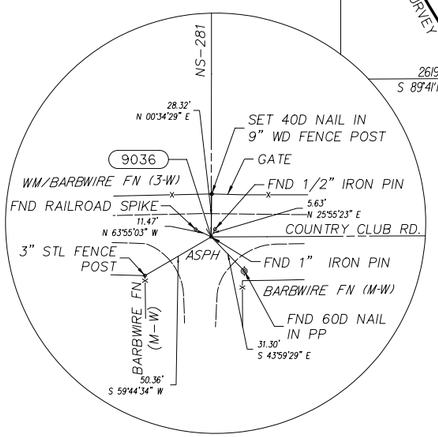


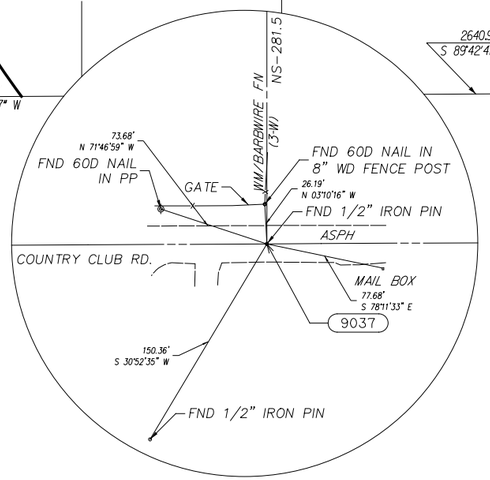


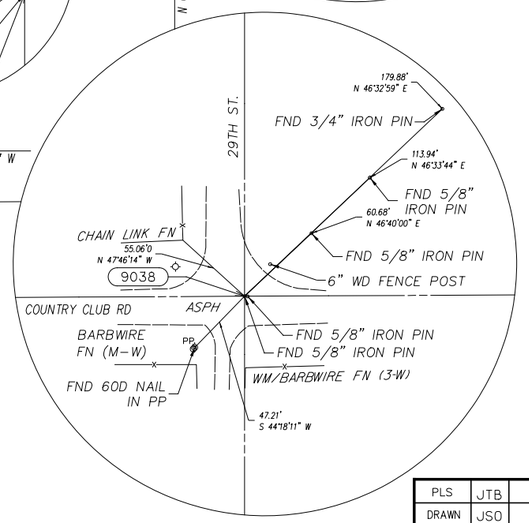


E/4 Corner of Section 6, T–6N, R–7W ODOT G–26–910
I found 1/2" iron pin & 1" iron pin. 1/2" iron pin and found reference points fit the following corner records. L.S. 449 found 1/2" rebar in 1981 survey. L.S. 1272 found iron pin in 1998 survey (C.C.R. filed June 26, 1998). These corner records did not have any supporting evidence listed. 1" iron pin and found reference points fit measurements from ODOT survey, SWO 2737(1). Nothing set. I used 1" iron pin.

C/4 Corner of Section 6, T–6N, R–7W ODOT G–26–909
No corner evidence found. I set 1/2" capped iron pin and references. I used the intersection of opposite quarter corners, and measurements from ODOT Survey, SWO 2737(1).







SE Corner of Section 6, T–6N, R–7W ODOT G–26–905
I found 5/8" iron pin. Corner location and found reference points fit ODOT survey, SWO 2737(1). Also found 5/8" iron pin 2 feet east of corner which is a P.O.T. point for Country Club Road alignment from same survey. Corner location and found reference points do not fit the following corner records, in which supporting evidence was not listed:

L.S. 449 found 1/2" iron pin (C.C.R. filed Apr 23, 1981)
L.S. 1272 found railroad spike (C.C.R. filed June 26, 1998).

SCALE:
1" = 500'
LAND CORNER DETAILS ARE SHOWN AT 1"=50'

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	JSO		SURVEY DATA SHEET
CHECKED	JTB		SDS 67 OF 76
APPROVED	JTB		SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S67
CREW	BENHAM		

8-87

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

OKLAHOMA DEPARTMENT OF TRANSPORTATION						
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
	OKLA.					
REVISIONS						
DESCRIPTION					DATE	

N/4 Corner of Section 31, T–7N, R–7W ODOT G–26–919
I found 3/4" iron pin. Corner location and found references fit ODOT survey, SWO 2737(1) and the following corner records: L.S. 1281 found 3/4" rebar in 1994 survey and L.S. 1378 found R.R. Spike in 1996 survey. Nothing set. I used 3/4" iron pin.

NW Corner of Section 31, T–7N, R–7W ODOT G–26–920
I found 3/8" iron pin. Monument and reference points fit ODOT survey, SWO 2737(1), and the following corner records:

L.S. 1378 found 1" iron pin in 1996 survey
L.S. 1272 found iron pin in 1998 survey
L.S. 1200 found 3/8" iron pin in 2012 survey.

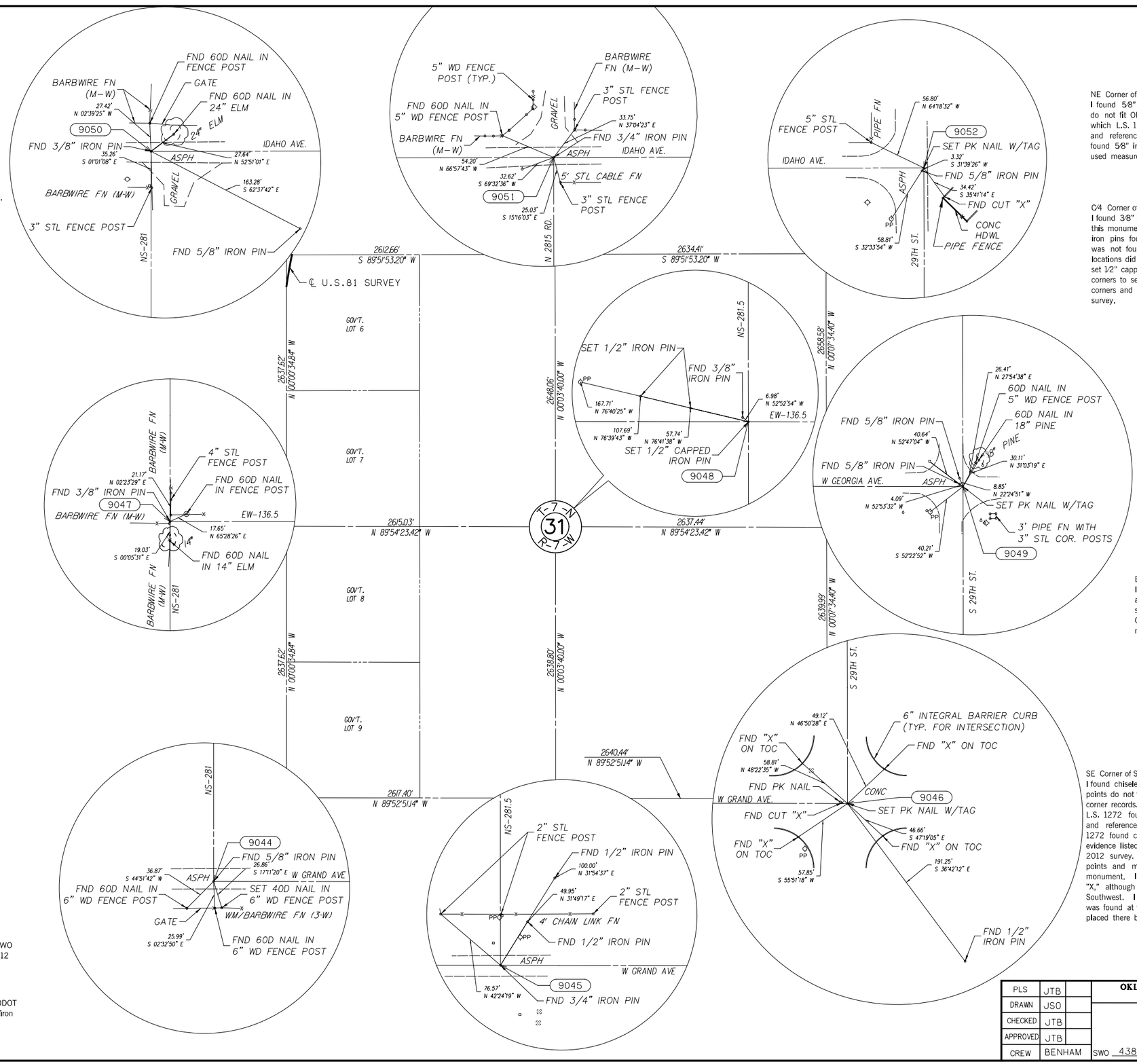
Nothing set. I used 3/8" iron pin

Angle Of Variance
At Sta. 9048 (C/4 Cor.)
X= 1974768.9904
Y= 619945.6544
Lat.= 35°02'12.54254"
Long.= 97°58'44.61058"
θ = 0°00'42.79229"

W/4 Corner of Section 31, T–7N, R–7W ODOT G–26–914
I found 3/8" iron pin. Monument and references fit corner record in which L.S. 1200 set 3/8" iron pin in 2012 survey. Nothing set. I used 3/8" iron pin.

S/4 Corner of Section 31, T–7N, R–7W ODOT G–26–912
I found 3/4" iron pin. Monument and reference points fit ODOT survey, SWO 2737(1), and corner record in which L.S. 1200 found 5/8" iron pin in 2012 survey. Nothing set. I used 3/4" iron pin.

SW Corner of Section 31, T–7N, R–7W ODOT G–26–913
I found 5/8" iron pin. Corner location and found reference points fit ODOT survey, SWO 2737(1), and corner record in which L.S. 1378 found 5/8" iron pin in 1995 survey. Nothing set. I used 5/8" iron pin.



NE Corner of Section 31, T–7N, R–7W ODOT G–26–918
I found 5/8" iron pin. This monument and found references do not fit ODOT survey, SWO 2737(1), or corner record in which L.S. 1272 found iron pin in 1988 survey. Monument and reference points fit corner record in which L.S. 1200 found 5/8" iron pin in 2012 survey. I set PK nail with tag. I used measurements from said ODOT survey to set corner.

C/4 Corner of Section 31, T–7N, R–7W ODOT G–26–915
I found 3/8" iron pin. No corner record or supporting evidence found for this monument. This iron pin appeared to be set from one of the two iron pins found at the E/4 corner of Section 31. Supporting evidence was not found for the iron pins at the said E/4 corner, and their locations did not fit measurements from ODOT survey, SWO 2737(1). I set 1/2" capped iron pin. I used the intersection of opposite 1/4 section corners to set center of section. The E–W 1/4 section line also fits 1/16 corners and P.O.T. iron pins (on Georgia Ave.) Found from said ODOT survey.

E/4 Corner of Section 31, T–7N, R–7W ODOT G–26–916
I found two 5/8" iron pins. One monument was set by others, and one was found by L.S. 449 in 1984 survey (no supporting evidence listed). These monuments do not fit ODOT survey, SWO 2737(1). I set PK nail with tag. I used measurements from said ODOT survey to set corner.

SE Corner of Section 31, T–7N, R–7W ODOT G–26–911
I found chiseled "X" and nail. Monuments and reference points do not fit ODOT survey, SWO 2737(1), or the following corner records. L.S. 955 found 1" iron pin in 1985 survey. L.S. 1272 found an iron pin in 1988 survey. Monuments and reference points fit the following corner records. L.S. 1272 found chiseled "X" in 1998 survey, with no supporting evidence listed. L.S. 1200 found nail at "X" in intersection in 2012 survey. I set PK nail with tag. I used found reference points and measurements from said ODOT survey to set monument. I did not find supporting evidence for the chiseled "X," although it was used for subdivision surveys to the Southwest. I did not find supporting evidence for the nail that was found at the intersection of two paving joints, which was placed there by others during the course of this survey.

SCALE:
1" = 500'
LAND CORNER DETAILS ARE SHOWN AT 1"=50'

PLS	JTB	
DRAWN	JSO	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

SDS 68 OF 76

SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S68

8–87

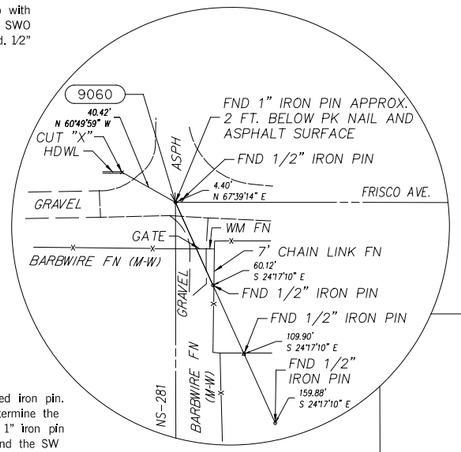
OKLAHOMA DEPARTMENT OF TRANSPORTATION						
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
	OKLA.					
REVISIONS						
DESCRIPTION					DATE	

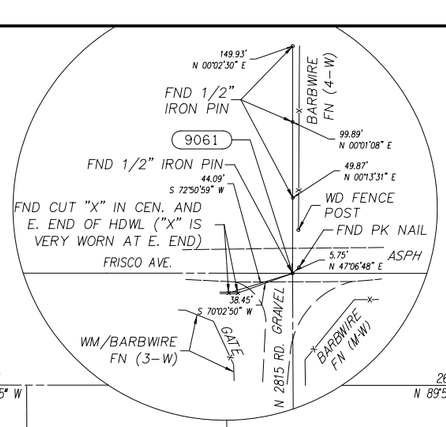
N/4 Corner of Section 30, T–7N, R–7W ODOT G–26–445
I found PK nail & 1/2" iron pin no corner record was found for PK nail (lines up with property fence to the north). 1/2" iron pin fits measurements from ODOT surveys, SWO 2737(1) and SWO 3609(1), and reference points from the following corner record. 1/2" iron pin set by L.S. 1155 in 1991 survey. Nothing set. I used 1/2" iron pin.

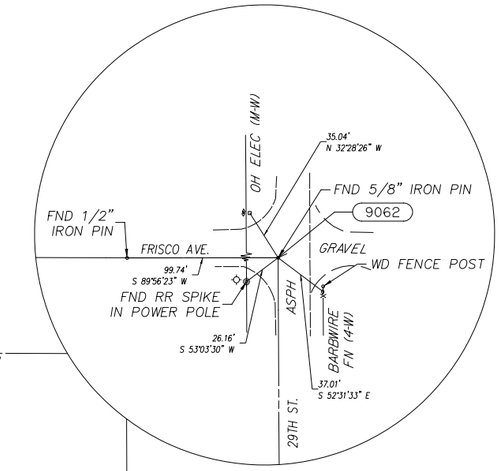
NW Corner of Section 30, T–7N, R–7W ODOT G–26–444
I found 1" iron pin, PK nail, & 1/2" iron pin. 1/2 iron pin was found by L.S. 189 in 1984 survey, with no supporting evidence listed. No corner record was filed for PK nail, which I removed to find 1" iron pin two feet below asphalt surface. 1" iron pin and found references fit measurements from ODOT survey, SWO 3609(1), and corner record which L.S. 1155 found 1" iron pin in 1991 survey. Nothing set. I used 1" iron pin.

W/4 Corner of Section 30, T–7N, R–7W ODOT G–26–921
I found 1/2" capped iron pin set by L.S. 1326 in 2005 survey. I set 5/8" capped iron pin. L.S. 1326 used a 1/2" iron pin, located at the NW corner of Section 30 to determine the W/4 corner. I did not find supporting evidence for that 1/2" iron pin. I used a 1" iron pin found at the NW corner of Section 30, which fits ODOT survey, SWO 3609(1), and the SW corner. I used single proportion method to set point on line and between said corners.

Angle Of Variance
At Sta. 9056 (C/4 Cor.)
X= 1974753.0120
Y= 625240.4660
Lat.= 35°03'04.91337"
Long.= 97°58'44.78955"
θ = 0°00'42.69070"







2593.10'
N 89°57'17.65" W

2638.60'
N 89°57'25.22" W

2651.08'
N 00°04'25.5" W

2641.22'
N 00°17'10.01" W

2644.22'
N 00°14'25.3" W

GOV'T. LOT 6

GOV'T. LOT 7

GOV'T. LOT 8

GOV'T. LOT 9

2602.91'
S 89°57'33.60" W

2636.48'
S 89°58'41.04" W

2655.08'
N 00°04'25.5" W

2646.79'
N 00°17'05.0" W

2641.57'
N 00°14'25.3" W

2612.66'
S 89°51'53.20" W

2634.41'
S 89°51'53.20" W

℄ U.S.81 SURVEY

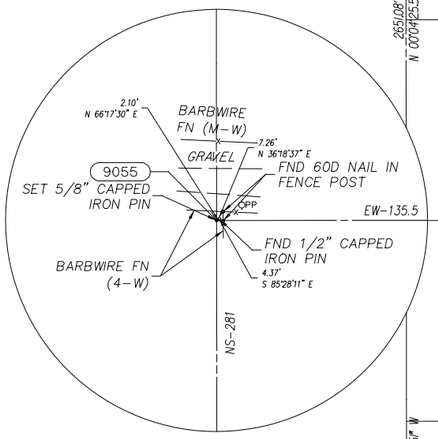
T-7-N
30
R-7-W

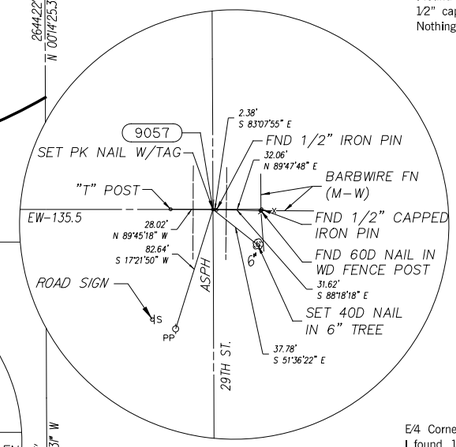
N 2815 RD.

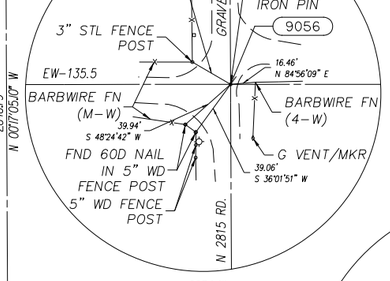
29TH ST.

NS-281

C/4 Corner of Section 30, T–7N, R–7W ODOT G–26–922
I found 5/8" capped iron pin. Corner location and reference points fit 1/2" capped iron pin set by L.S. 1326 in 2000 and 2001 survey. Nothing set. I used 5/8" capped iron pin.

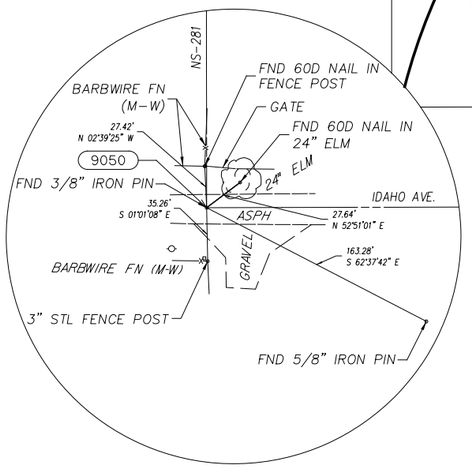


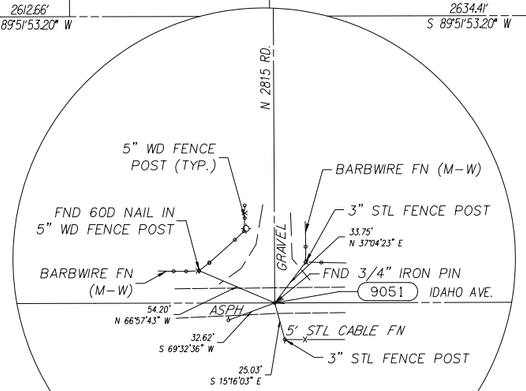


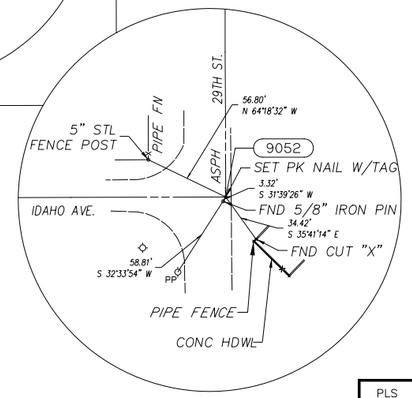


E/4 Corner of Section 30, T–7N, R–7W ODOT G–26–923
I found 1/2" iron pin. Monument and reference points do not fit measurements from ODOT survey, SWO 2737(1), or corner record in which L.S. 1089 set PK nail in 1994 survey. I set PK nail with tag. I used measurements from said ODOT survey to set corner. Corner location fits existing fence lines and reference points from corner record by L.S. 1089.

SW Corner of Section 30, T–7N, R–7W ODOT G–26–920
I found 3/8" iron pin. Monument and reference points fit ODOT survey, SWO 2737(1), and the following corner records. L.S. 1378 found 1" iron pin in 1996 survey. L.S. 1272 found iron pin in 1998 survey. L.S. 1200 found 3/8" iron pin in 2012 survey. Nothing set. I used 3/8" iron pin.







SE Corner of Section 30, T–7N, R–7W ODOT G–26–918
I found 5/8" iron pin. This monument and found references does not fit ODOT survey, SWO 2737(1), or corner record in which L.S. 1272 found iron pin in 1988 survey. Monument and reference points fit corner record in which L.S. 1200 found 5/8" iron pin in 2012 survey. I set PK nail with tag. I used measurements from said ODOT survey to set corner.

S/4 Corner of Section 30, T–7N, R–7W ODOT G–26–919
I found 3/4" iron pin. Corner location and found references fit ODOT survey, SWO 2737(1), and the following corner records. L.S. 1281 found 3/4" rebar in 1994 survey. L.S. 1378 found R.R. Spike in 1996 survey. Nothing set. I used 3/4" iron pin.

SCALE:
1" = 500'
LAND CORNER DETAILS ARE SHOWN AT 1"=50'

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	JSO		SURVEY DATA SHEET
CHECKED	JTB		SDS 69 OF 76
APPROVED	JTB		SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S69
CREW	BENHAM		

8-87

NW Corner of Section 29, T–7N, R–7W ODOT G–26–450
I found 5⁄8" iron pin. Monument fits measurements from ODOT survey, SWO 2737(1) and SWO 3609(1), and fits found reference points and measurements from the following corner records:

1⁄2" iron pin was recovered by L.S. 449 in 1979 survey
1" iron pin was recovered by L.S. 1155 in 1991 survey
1" iron pin was recovered by L.S. 696 in 1997 survey.

Nothing set. I used 5⁄8" iron pin.

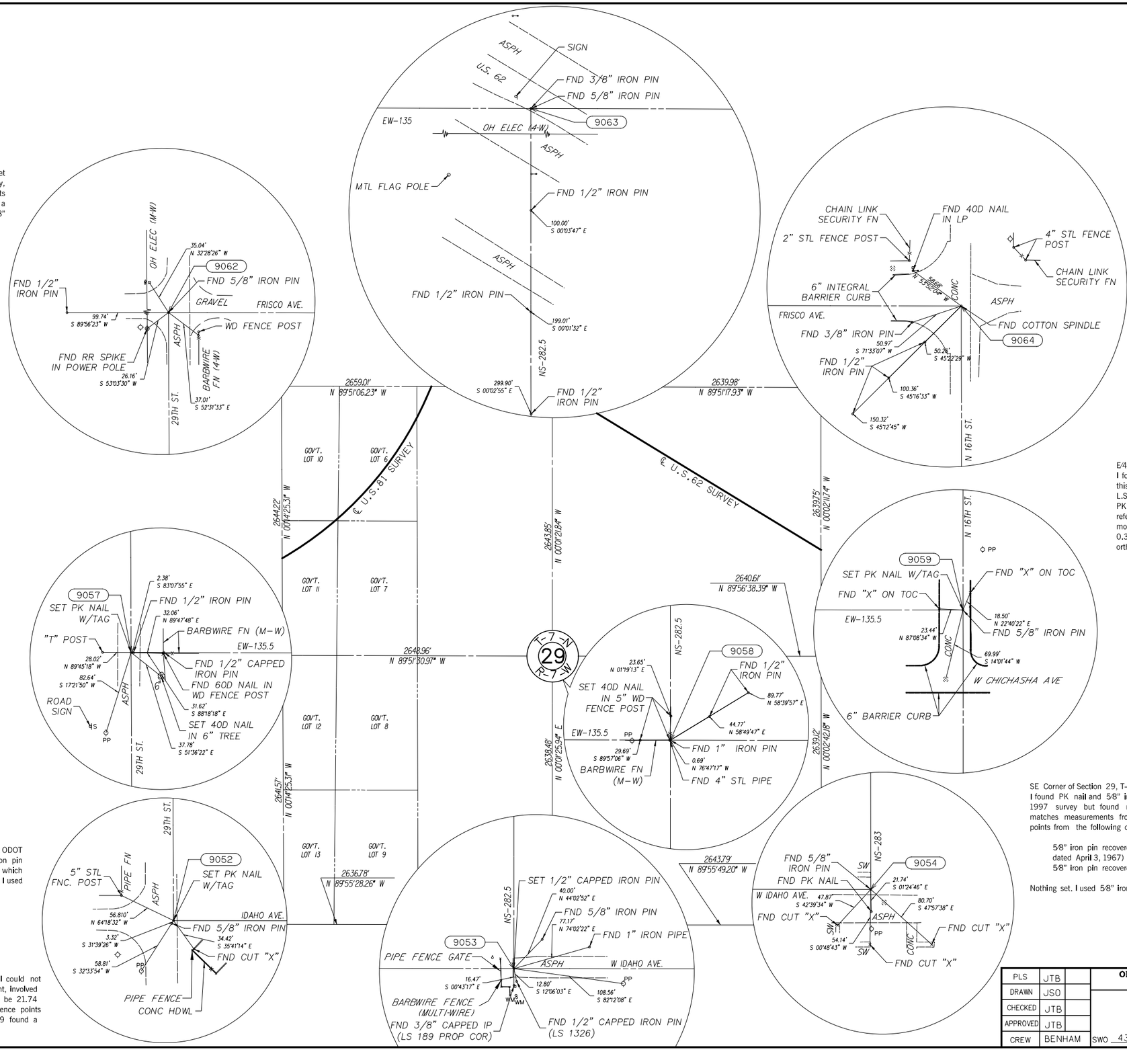
N/4 Corner of Section 29, T–7N, R–7W ODOT G–26–451
I found 5⁄8" iron pin and 3⁄8" iron pin. Monuments are only 0.2 feet apart. The 3⁄8" monument fits measurements from ODOT survey, SWO 2737(1) and SWO 3609(1), and fits found reference points and measurements from the following corner record: L.S. 1155 set a 5⁄8" capped iron pin in 1991 ODOT survey. Nothing set. I used 3⁄8" iron pin.

Angle Of Variance
At Sta. 9058 (C/4 Cor.)
X= 1980038.4430
Y= 625234.9380
Lat.= 35°03'04.84330"
Long.= 97°57'41.21708"
θ = 0°01'18.77550"

W/4 Corner of Section 29, T–7N, R–7W ODOT G–26–923
I found 1⁄2" iron pin. Monument and reference points do not fit measurements from ODOT survey, SWO 2737(1), or corner record in which L.S. 1089 set PK nail in 1994 survey. I set PK nail with tag. I used measurements from said ODOT survey to set corner. Corner location fits existing fence lines and reference points from corner record by L.S. 1089.

SW Corner of Section 29, T–7N, R–7W ODOT G–26–918
I found 5⁄8" iron pin. This monument and found references do not fit ODOT survey, SWO 2737(1), or corner record in which L.S. 1272 found iron pin in 1988 survey. Monument and reference points fit corner record in which L.S. 1200 found 5⁄8" iron pin in 2012 survey. I set PK nail with tag. I used measurements from said ODOT survey to set corner.

S/4 Corner of Section 29, T–7N, R–7W ODOT G–26–917
I found 1⁄2" capped iron pin, set by L.S. 1326 in 2004 survey. I could not accept this monument, because the method used to calculate this point, involved using a PK nail at the SE corner of Section 29, which was found to be 21.74 feet south of actual corner. I set PK nail with tag using found reference points from ODOT survey, SWO 2737(1), and a corner record where L.S. 189 found a car axle in 2006 survey.



NE Corner of Section 29, T–7N, R–7W ODOT G–26–48
I found cotton spindle. Monument was found inside an impression of concrete made by a brass cap, and it fits found references and measurements from ODOT surveys, SWO 2737(1) and SWO 3609(1). ODOT brass cap was recovered by L.S. 1155 in 1991 ODOT survey and by L.S. 1407 in 1997 survey. Nothing set. I used cotton spindle.

C/4 Corner of Section 29, T–7N, R–7W ODOT G–26–924
I found 1" iron pin monument. It fits found reference points and measurements from ODOT survey, SWO 2738(1). No C.C.R.'s found for this corner. Nothing set. I used 1" iron pin.

E/4 Corner of Section 29, T–7N, R–7W ODOT G–26–925
I found 5⁄8" iron pin. It was later obliterated during the course of this survey. I also found references from corner record in which L.S. 1326 set mag nail in 2012. Survey mag nail not found. I set PK nail with tag. I used previously measured coordinates and reference points to restore the location of the 5⁄8" iron pin. This monument fits ODOT survey, SWO 2738(1). Monument location is 0.32 feet south and 0.19 feet west of the mid–point between the n ortheast and southeast corner of Section 29.

SE Corner of Section 29, T–7N, R–7W ODOT G–26–154
I found PK nail and 5⁄8" iron pin. PK nail that was found was set by L.S. 1407 in 1997 survey but found none of the supporting evidence listed. 5⁄8" iron pin matches measurements from ODOT survey, SWO 2737(1) and found reference points from the following corner records:

5⁄8" iron pin recovered by Mr. J. P. Andrews, location engineer (SD 11 form dated April 3, 1967)
5⁄8" iron pin recovered by L.S. 189 in 2006 survey.

Nothing set. I used 5⁄8" iron pin.

SCALE:
1" = 500'

LAND CORNER DETAILS ARE SHOWN AT 1"=50'

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

PLS	JTB	
DRAWN	JSO	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

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SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S70

8–87

N/4 Corner of Section 20, T–7N, R–7W ODOT G–26–453
I found 3/8" iron pin set by others. No corner record or supporting evidence found for this iron pin. 1/2" iron pin and reference points that was set by L.S. 1155 were not found from 1991 survey. I set 5/8" capped iron pin. I applied single proportionate method between the northwest and northeast corners of Section 20. Monument fits measurements from ODOT surveys, SWO 2737(1) and SWO 3609(1).

NW Corner of Section 20, T–7N, R–7W ODOT G–26–448
I found 1" iron pin that was recovered by L.S. 1155 in 1991 ODOT survey. Reference points were not found. Monument fits measurements to other section corners, from ODOT surveys, SWO 2737(1) and 3609(1). Nothing set. I used 1" iron pin.

GN TN θ

Angle Of Variance
At Sta. 9066 (C/4 Cor.)
X= 1980034.5485
Y= 630523.0395
Lat.= 35°03'57.14750"
Long.= 97°57'41.23963"
θ = 0°01'18.76270"

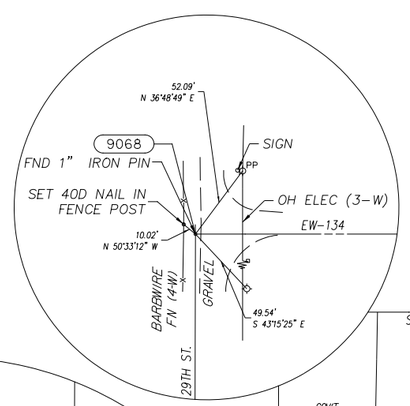
W/4 Corner of Section 20, T–7N, R–7W ODOT G–26–449
I found PK nail with tag that was set by others. No corner record was filed for this PK nail. Monument fits the found reference points and 3/4" iron pin that was recovered by L.S. 1155 in 1991 ODOT survey. Nothing set. I used PK nail with tag.

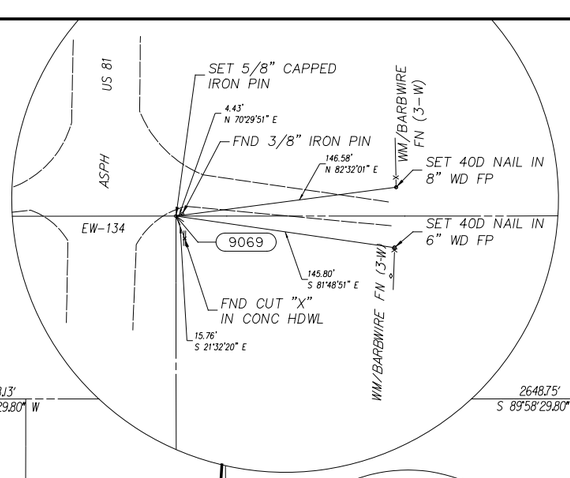
SW Corner of Section 20, T–7N, R–7W ODOT G–26–450
I found 5/8" iron pin. Monument fits measurements from ODOT survey SWO 2737(1) and SWO 3609(1) and fits found reference points and measurements from the following corner records:

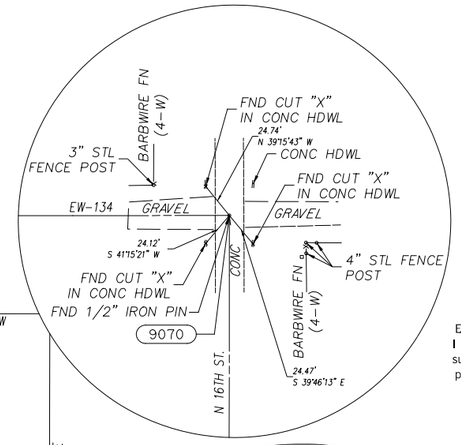
1/2" iron pin was recovered by L.S. 449 in 1979 survey
1" iron pin was recovered by L.S. 1155 in 1991 survey
1" iron pin was recovered by L.S. 696 in 1997 survey.

Nothing set. I used 5/8" iron pin.

S/4 Corner of Section 20, T–7N, R–7W ODOT G–26–451
I found 5/8" iron pin and 3/8" iron pin. Monuments are only 0.2 feet apart. The 3/8" monument fits measurements from ODOT surveys, SWO 2737(1) and SWO 3609(1). It also fits found reference points and measurements from the corner record in which L.S. 1155 set a 5/8" capped iron pin in 1991 ODOT survey. Nothing set. I used 3/8" iron pin.







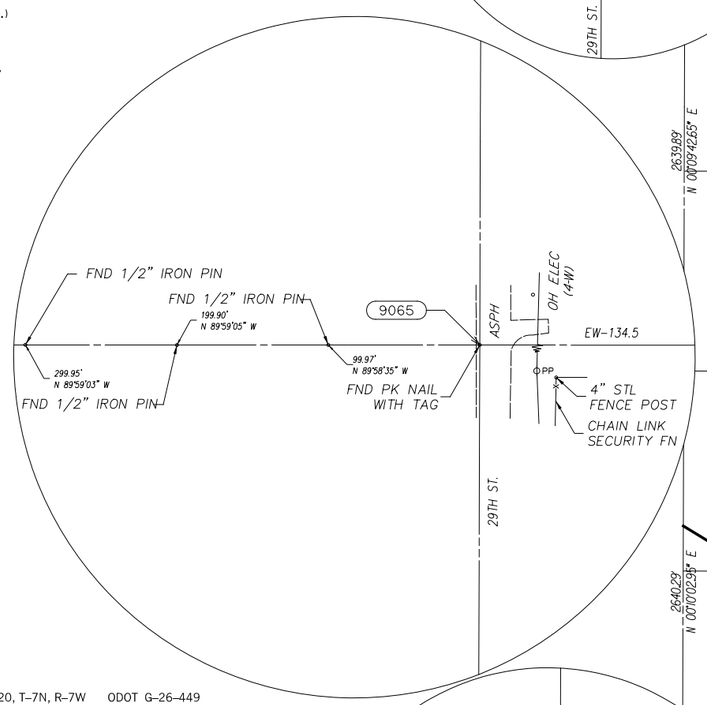
NE Corner of Section 20, T–7N, R–7W ODOT G–26–454
I found 1/2" iron pin that was set by L.S. 1155 in 1991 survey. Corner location and reference points fit ODOT surveys, SWO 2737(1) and SWO 3609(1). Nothing set. I used 1/2" iron pin.

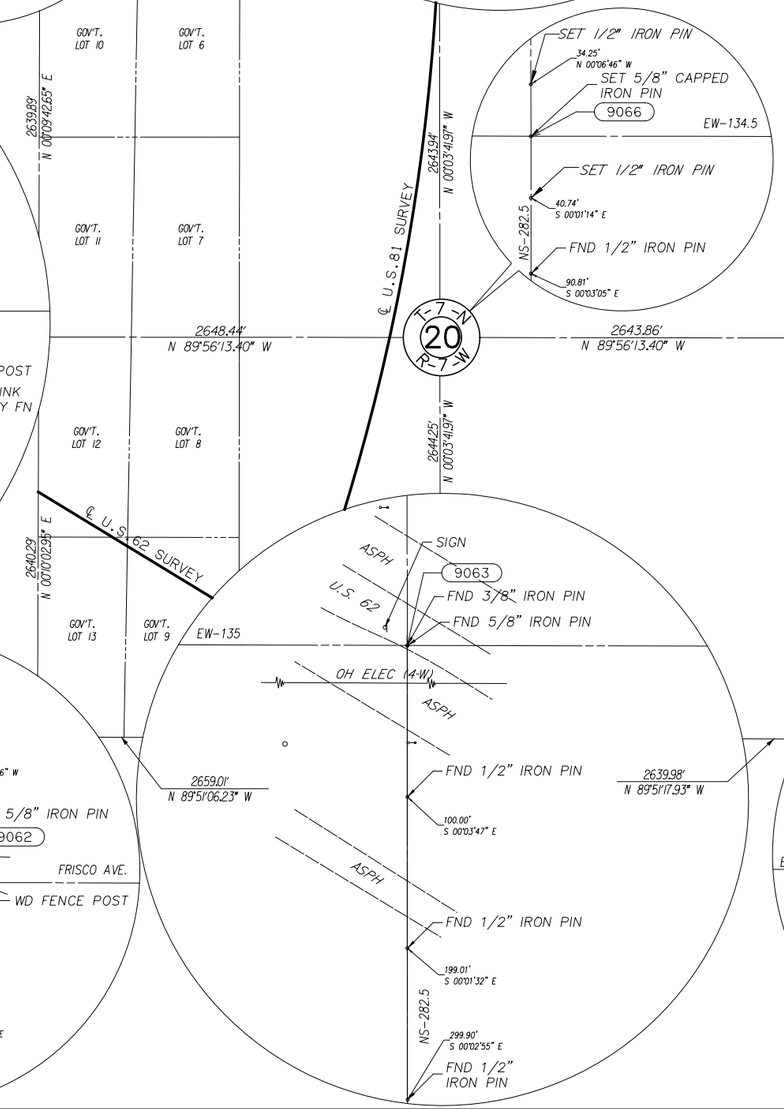
C/4 Corner of Section 20, T–7N, R–7W ODOT G–26–452
No corner evidence found. I set 5/8" iron pin using intersecting lines from 1/4 corners and measurements from ODOT surveys, SWO 2737(1) and SWO 3609(1). Calculated point fits found reference point and 5/8" iron pin that was set by L.S. 1155 in 1991 ODOT survey. Set reference points.

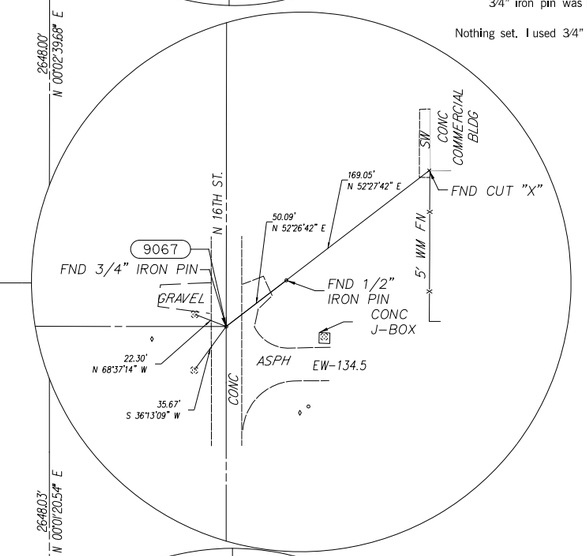
E/4 Corner of Section 20, T–7N, R–7W ODOT G–26–455
I found 3/4" iron pin. Current monument fits measurements from ODOT surveys, SWO 2737(1) and SWO 3609(1). It also fits found reference points and measurements from the following corner records:

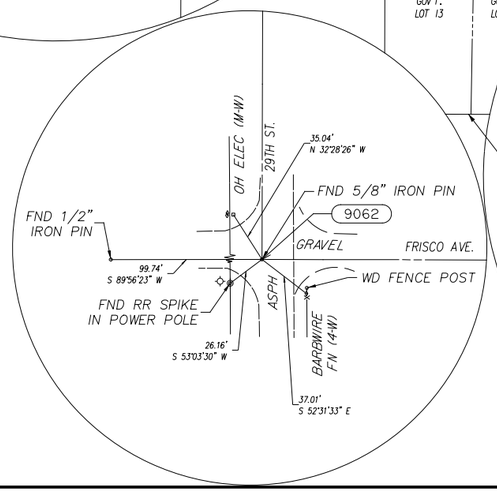
OHD brass MON recovered by Mr. J.P. Andrews, location engineer (SD form 11, dated Aug 10, 1966)
3/4" iron pin was recovered by L.S. 1155 1991 survey.

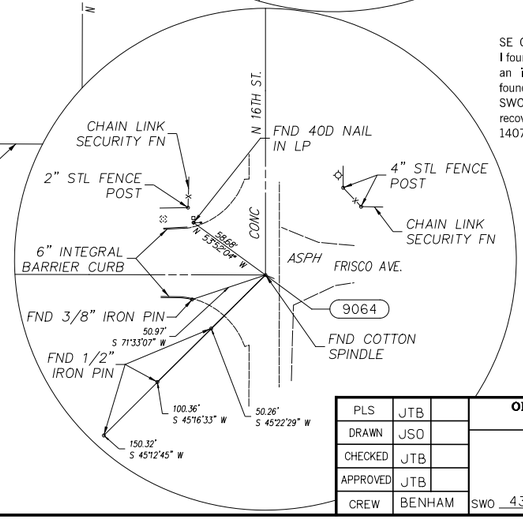
Nothing set. I used 3/4" iron pin.











SE Corner of Section 20, T–7N, R–7W ODOT G–26–48
I found cotton spindle. Monument was found inside an impression of concrete made by a brass cap, and fits found references and measurements from ODOT surveys, SWO 2737(1) and SWO 3609(1). ODOT brass cap was recovered by L.S. 1155 in 1991 ODOT survey and by L.S. 1407 in 1997 survey. Nothing set. I used cotton spindle.

N

SCALE:
1" = 500'
LAND CORNER DETAILS ARE SHOWN AT 1"=50'

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

PLS	JTB	
DRAWN	JSO	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

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SWO 4380 (I) PROJECT NO. 24428(04) SHEET NO. S71

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NW Corner of Section 17, T–7N, R–7W ODOT G–26–931
I found 1" iron pin. Monument and reference points fit corner record in which L.S. 1407 found a 1" iron pin in 1999 and 2001 surveys. Monument fits measurements from ODOT survey, SWO 2737(1). Nothing set. I used 1" iron pin.

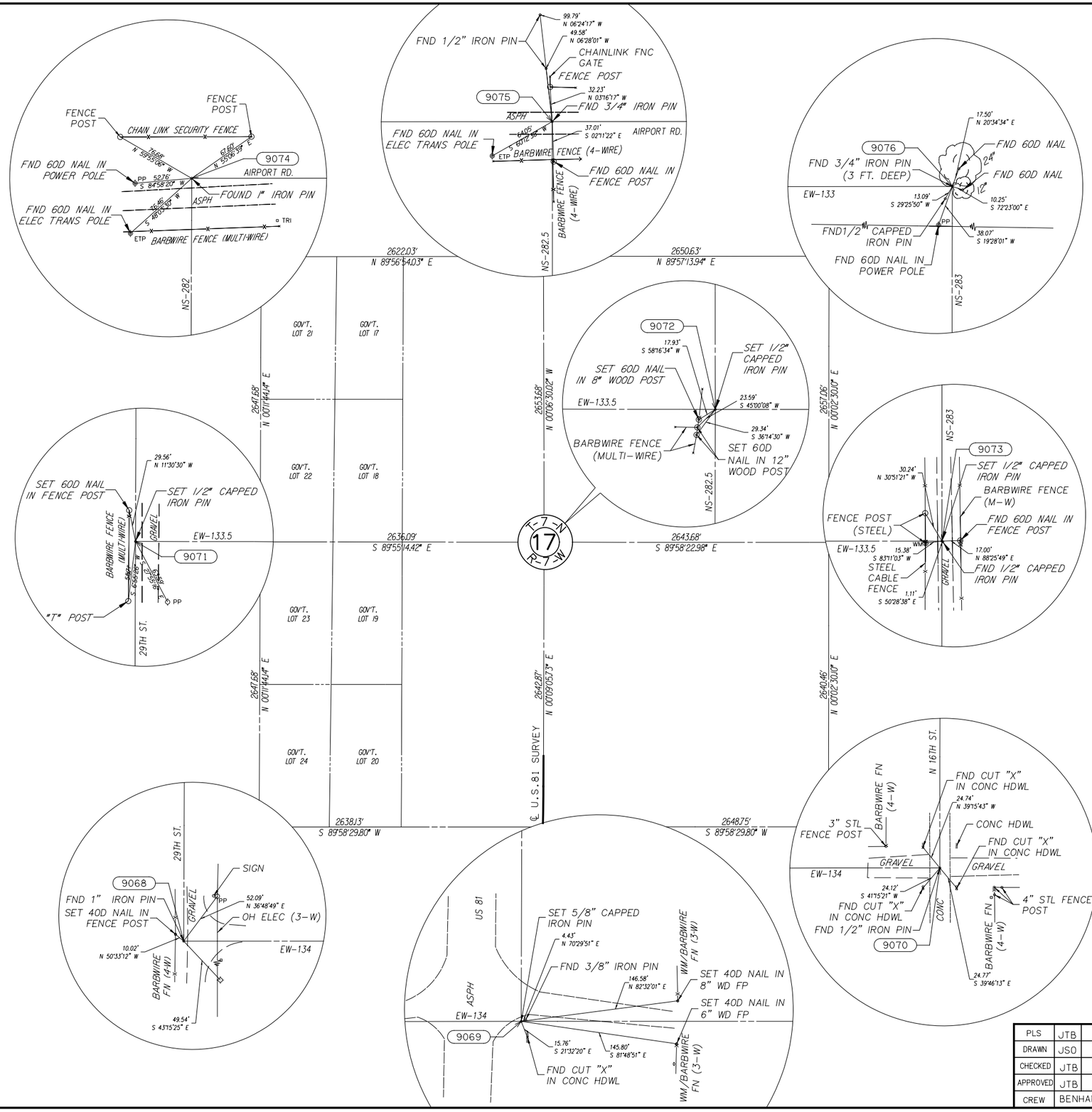
N/4 Corner of Section 17, T–7N, R–7W ODOT G–26–930
I set 3/4" iron pin. Monument and reference points fit corner record in which L.S. 1272 found 3/4" iron pin in 2003 survey. Monument and reference points fit measurements from ODOT, SWO survey 2737(1). Nothing set. I used 3/4" iron pin.

W/4 Corner of Section 17, T–7N, R–7W ODOT G–26–926
No corner evidence found. I set 5/8" capped iron pin. Monument was set using single proportionate method between the northwest and southwest corners of Section 17.

Angle Of Variance
At Sta. 9072 (C/4 Cor.)
X= 1980038.6957
Y= 635809.8418
Lat.= 35°04'49.43858"
Long.= 97°57'41.16544"
θ = 0°01'18.80481"

SW Corner of Section 17, T–7N, R–7W ODOT G–26–448
I found 1" iron pin that was recovered by L.S. 1155 in 1991 ODOT survey. Reference points were not found. Monument fits measurements to other section corners from ODOT surveys, SWO 2737(1) and 3609(1). Nothing set. I used 1" iron pin.

S/4 Corner of Section 17, T–7N, R–7W ODOT G–26–453
I found 3/8" iron pin set by others. No corner record or supporting evidence found for this iron pin. 1/2" iron pin and reference points were not found from 1991 survey, set by L.S. 1155. I set 5/8" capped iron pin. I applied single proportionate method between the northwest and northeast corners of Section 20. Monument fits measurements from ODOT surveys, SWO 2737(1) and SWO 3609 (1).



NE Corner of Section 17, T–7N, R–7W ODOT G–26–929
I found 1/2" capped iron pin and 3/4" iron pin. The 1/2" capped iron pin and reference points fit corner record in which L.S. 1326 set 1/2" capped iron pin in 2012 survey using double proportionate method. The 3/4" iron pin was found in place three feet below surface. The measurements fit ODOT survey, SWO 2737(1). Nothing set. I used 3/4" iron pin.

C/4 Corner of Section 17, T–7N, R–7W ODOT G–26–927
No corner evidence found. I set 1/2" capped iron pin. Monument was set using measurements from ODOT survey, SWO 2737(1).

E/4 Corner of Section 17, T–7N, R–7W ODOT G–26–928
I found 1/2" capped iron pin. I did not find supporting evidence for this monument or any corner records. The information on the cap could not be determined. I set 1/2" capped iron pin. Monument was set with single proportionate method between the northeast and southeast corners of Section 17. I used the measurements from ODOT survey, SWO 2737(1).

SE Corner of Section 17, T–7N, R–7W ODOT G–26–454
I found 1/2" iron pin that was set by L.S. 1155 in 1991 survey. Corner location and reference points fit ODOT surveys, SWO 2737(1) and SWO 3609(1). Nothing set. I used 1/2" iron pin.

SCALE:
1" = 500'
LAND CORNER DETAILS ARE SHOWN AT 1"=50'

OKLAHOMA DEPARTMENT OF TRANSPORTATION						
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS	
DESCRIPTION	DATE

PLS	JTB	
DRAWN	JSO	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

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SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S72

8-87

NW Closing Corner of Section 25, T–7N, R–8W ODOT G–26–964
No monument found. Reference points were found from C.C.R. filed by L.S. 1155 in 1991 ODOT survey. I set 1/2" capped iron pin and reference points as shown. I used found reference points from C.C.R. filed by L.S. 1155 to set monument. However, the distance between the northwest closing corner of Section 25 and milepost 72 should be 2.39 chains, according to the May 22, 1900 G.L.O. Plat, instead of 2.59 chains, which had been used in the 1991 ODOT survey.

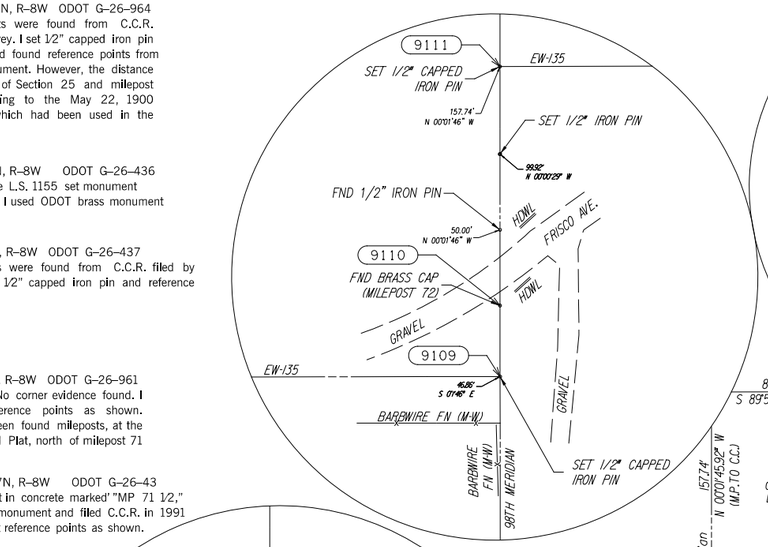
Milepost 72 Corner of Section 25, T–7N, R–8W ODOT G–26–436
I found ODOT brass cap set in concrete L.S. 1155 set monument and filed C.C.R. in 1991 ODOT survey. I used ODOT brass monument and set reference points as shown.

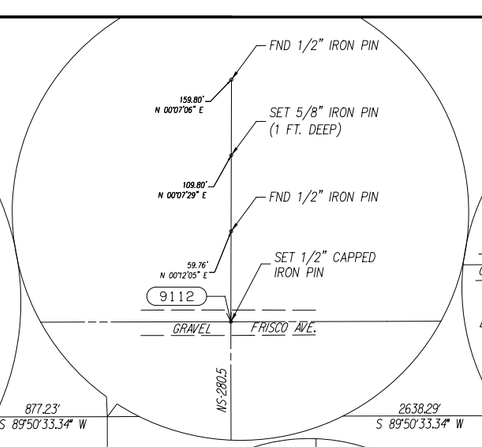
NE Closing Corner of Section 25, T–7N, R–8W ODOT G–26–437
No monument found. Reference points were found from C.C.R. filed by L.S. 1155 in 1991 ODOT survey. I set 1/2" capped iron pin and reference points as shown.

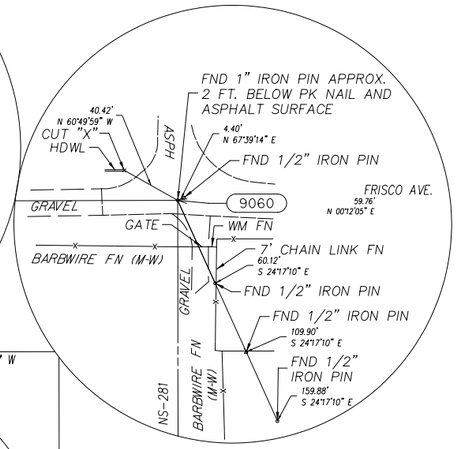
W Closing Corner of Section 25, T–7N, R–8W ODOT G–26–961
Nothing set in 1900 or 1901 survey. No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was placed on a line between found mileposts, at the distance specified on G.L.O. Notes and Plat, north of milepost 71 1/2.

Milepost 71.5 Corner of Section 25, T–7N, R–8W ODOT G–26–43
I found 4" iron pipe with brass cap set in concrete marked' "MP 71 1/2," and reference points. L.S. 1155 found monument and filed C.C.R. in 1991 ODOT survey. I used brass cap and set reference points as shown.

Angle Of Variance
At Sta. 9108 (C/4 Cor.)
X= 1969510.2000
Y= 625237.5875
Lat.= 35°03'04.89113"
Long.= 97°59'47.84944"
θ = 0°00'06.89686"



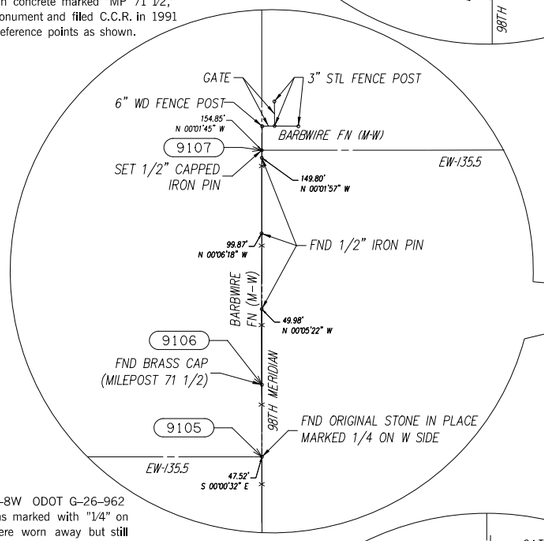


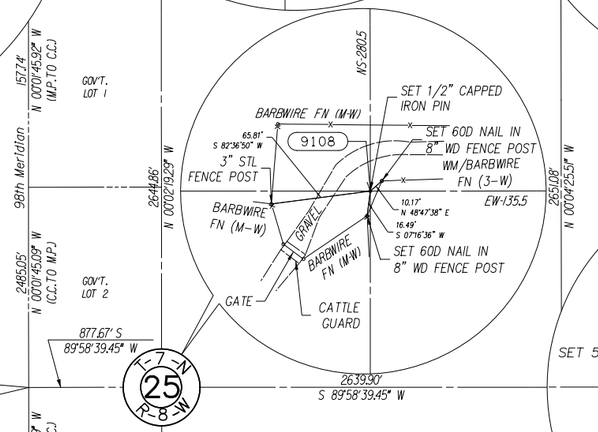


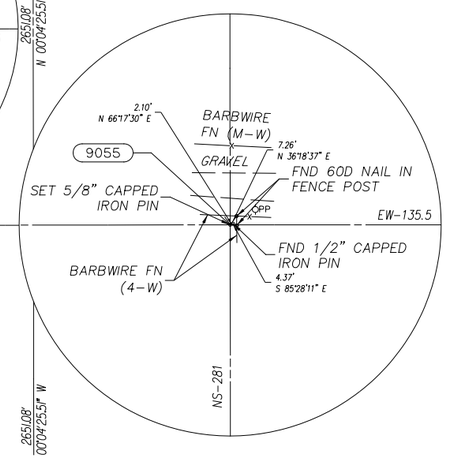
N/4 Corner of Section 25, T–7N, R–8W ODOT G–26–963
No monument found. Reference points were found from C.C.R. filed by L.S. 1155 in 1991 ODOT survey. I did not agree with the position of this monument. It was based on an incorrectly placed monument milepost 72 instead of 2.39 chains as shown on May 22, 1900 G.L.O. Plat. This affected the position of the north quarter corner of Section 25. Therefore I did not use reference points to reset the monument. I set 1/2" capped iron pin and reference point as shown. I used single proportionate method between the northwest closing corner and northeast corner of Section 25 using distances from G.L.O. Notes and Plat.

NE Corner of Section 25, T–7N, R–8W ODOT G–26–444
I found 1" iron pin, PK nail, and 1/2" iron pin, 1/2" iron pin was found by L.S. 189 in 1984 survey with no supporting evidence listed. No corner record was filed for PK nail, which I removed to find 1" iron pin two feet below asphalt surface. 1" iron pin and found references fit measurements from ODOT survey, SWO 3609(1), and corner record which L.S. 1155 found 1" iron pin in 1991 survey. Nothing set. I used 1" iron pin.

C/4 Corner of Section 25, T–7N, R–8W ODOT G–26–960
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was set on intersecting lines between north and south quarter corners and the west closing corner and east quarter corner of Section 25.

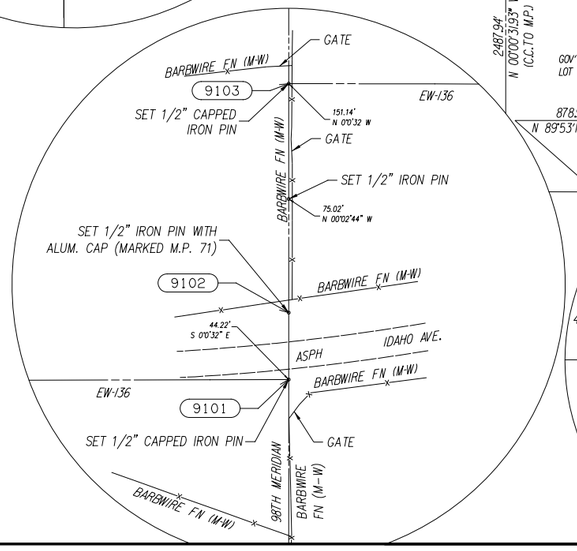


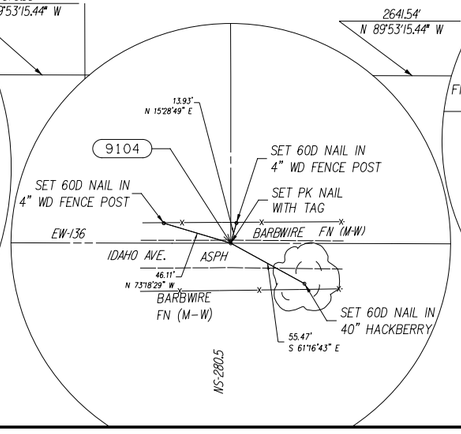


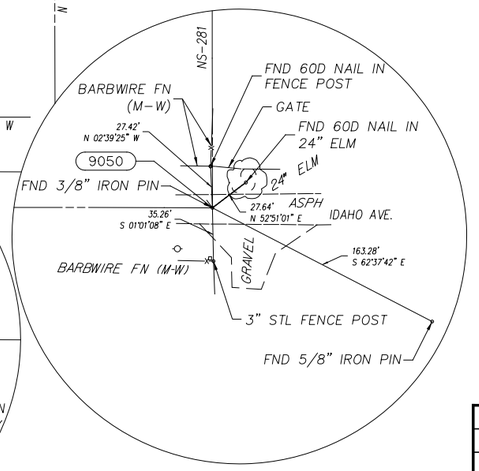


E/4 Corner of Section 25, T–7N, R–8W ODOT G–26–921
I found 1/2" capped iron pin set by L.S. 1326 in 2005 survey. I set 5/8" capped iron pin. L.S. 1326 used a 1/2" iron pin located at the NW corner of Section 30 to determine the W/4 corner. I did not find supporting evidence for that 1/2" iron pin. I used a 1" iron pin found at the NW corner of section 30 (fits ODOT survey, SWO 3609), and the SW corner, and used single proportion method to set point on line and between said corners.

E Closing Corner of Section 25, T–7N, R–8W ODOT G–26–962
I found original stone in place. Stone was marked with "1/4" on west side of stone. Pits and mound were worn away but still evident. Monument fits distance to milepost 71 1/2 from G.L.O. notes and Plat. I used original stone and set reference points as shown.







SW Closing Corner of Section 25, T–7N, R–8W ODOT G–26–957
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was placed on a line between found mileposts, at the distance specified on G.L.O. Notes and Plat, north of milepost 71.

Milepost 71 Corner of Section 25, T–7N, R–8W ODOT G–26–958
No corner evidence found. I set 1/2" iron pin with aluminum cap, stamped, "MP 71" and "G–26–958." I set reference points as shown. I set monument using single proportionate method between found mileposts 70 1/2 and 71 1/2.

SE Closing Corner of Section 25, T–7N, R–8W ODOT G–26–959
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was placed on a line between found mileposts, at the distance specified on G.L.O. Notes and Plat, south of milepost 71.

S/4 Corner of Section 25, T–7N, R–8W ODOT G–26–956
No corner evidence found. I set PK nail with tag and reference points as shown. I used single proportionate method between the southwest closing corner and southeast corner of Section 25 using distances from G.L.O. Notes and Plat.

SE Corner of Section 25, T–7N, R–8W ODOT G–26–920
I found 3/8" iron pin. Monument and reference points fit ODOT survey, SWO 2737(1), and the following corner records:

L.S. 1378 found 1" iron pin in 1996 survey
L.S. 1272 found iron pin in 1998 survey
L.S. 1200 found 3/8" iron pin in 2012 survey.

Nothing set. I used 3/8" iron pin.

SCALE:
1" = 500'
LAND CORNER DETAILS ARE SHOWN AT 1"=50'

OKLAHOMA DEPARTMENT OF TRANSPORTATION						
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
	OKLA.					
REVISIONS						
DESCRIPTION					DATE	

PLS	JTB		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	JSO		SURVEY DATA SHEET
CHECKED	JTB		SDS 73 OF 76
APPROVED	JTB		SWO 4380 (I) PROJECT NO. 24428(04) SHEET NO. S73
CREW	BENHAM		

8-87

NW Closing Corner of Section 36, T–7N, R–8W ODOT G–26–957
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was placed on a line between found mileposts, at the distance specified on G.L.O. Notes and Plat, north of milepost 71.

Milepost 71 Corner of Section 36, T–7N, R–8W ODOT G–26–958
No corner evidence found. I set 1/2" iron pin with aluminum cap, stamped MP 71 and G–26–958. I set reference points as shown. I set monument using single proportionate method between found mileposts 70 1/2 and 71 1/2.

Angle Of Variance
At Sta. 9100 (C/4 Cor.)
X= 1969511.9271
Y= 619950.7188
Lat.= 35°02'12.59890"
Long.= 97°59'47.83080"
θ = 0°00'06.90744"

NE Closing Corner of Section 36, T–7N, R–8W ODOT G–26–959
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was placed on a line between found mileposts, at the distance specified on G.L.O. Notes and Plat, south of milepost 71.

W Closing Corner of Section 36, T–7N, R–8W ODOT G–26–953
Nothing set in 1900 or 1901 survey. No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was placed on a line between found mileposts, at the distance specified on G.L.O. Notes and Plat, north of milepost 70 1/2.

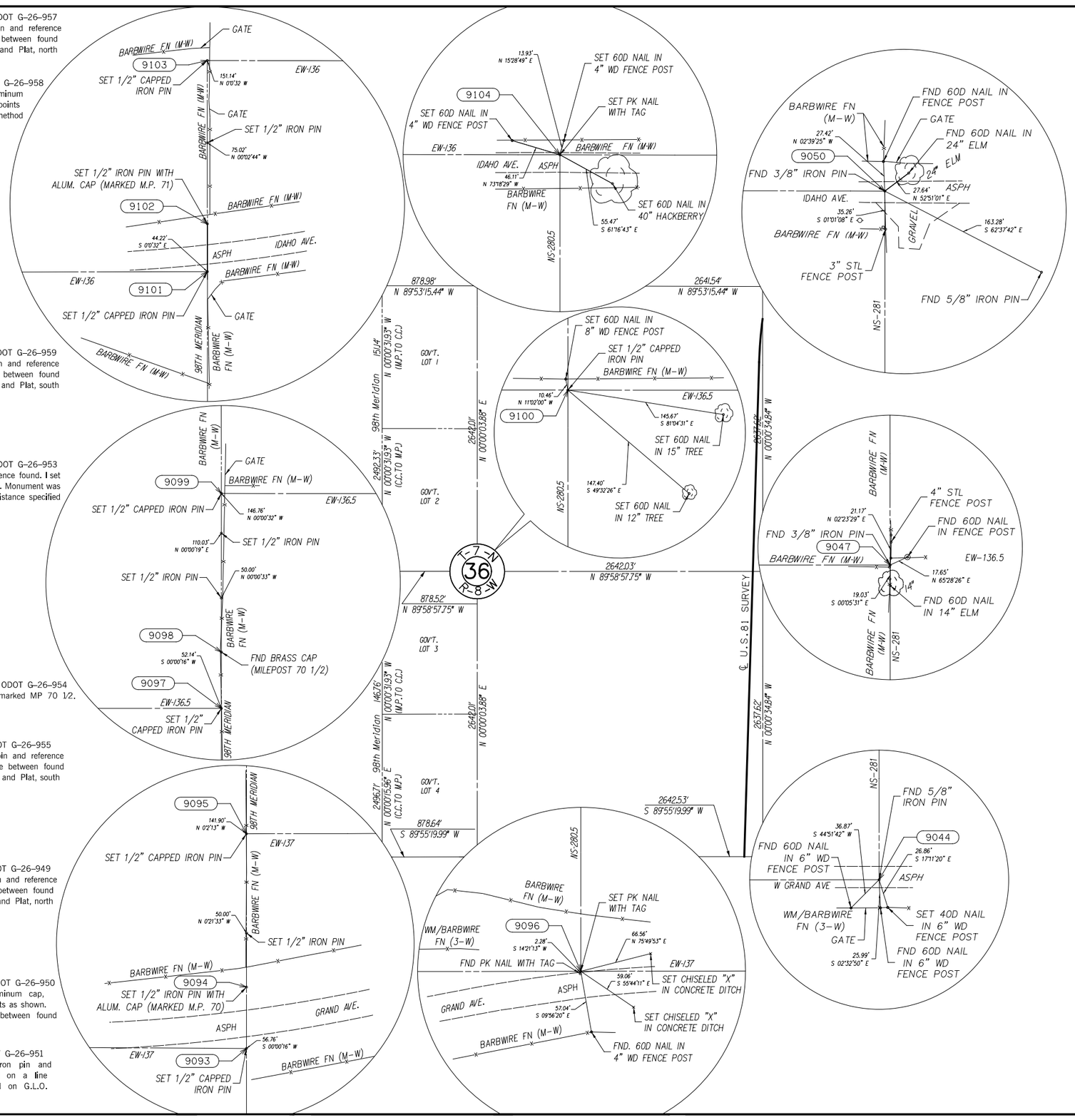
Milepost 70.5 Corner of Section 36, T–7N, R–8W ODOT G–26–954
I found 4" iron pipe with brass cap set in concrete marked MP 70 1/2. I used brass cap and set reference points as shown.

E Closing Corner of Section 36, T–7N, R–8W ODOT G–26–955
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was placed on a line between found mileposts, at the distance specified on G.L.O. Notes and Plat, south of milepost 70 1/2.

SW Closing Corner of Section 36, T–7N, R–8W ODOT G–26–949
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was placed on a line between found mileposts, at the distance specified on G.L.O. Notes and Plat, north of milepost 70.

Milepost 70 Corner of Section 36, T–7N, R–8W ODOT G–26–950
No corner evidence found. I set 1/2" iron pin with aluminum cap, stamped MP 70 and G–26–950. I set reference points as shown. I set monument using single proportionate method between found mileposts 68 and 70 1/2.

SE Closing Corner of Section 36, T–7N, R–8W ODOT G–26–951
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was placed on a line between found mileposts, at the distance specified on G.L.O. Notes and Plat, south of milepost 70.



N/4 Corner of Section 36, T–7N, R–8W ODOT G–26–956
No corner evidence found. I set PK nail with tag and reference points as shown. I used single proportionate method between the southwest closing corner and southeast corner of Section 25 using distances from G.L.O. Notes and Plat.

NE Corner of Section 36, T–7N, R–8W ODOT G–26–920
I found 3/8" iron pin. Monument and reference points fit ODOT survey, SWO 2737(1), and the following corner records:

L.S. 1378 found 1" iron pin in 1996 survey
L.S. 1272 found iron pin in 1998 survey
L.S. 1200 found 3/8" iron pin in 2012 survey.

Nothing set. I used 3/8" iron pin

C/4 Corner of Section 36, T–7N, R–8W ODOT G–26–952
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was set on intersecting lines between north and south quarter corners and the west closing corner and east quarter corner of Section 36.

E/4 Corner of Section 36, T–7N, R–8W ODOT G–26–914
I found 3/8" iron pin. Monument and references fit corner record in which L.S. 1200 set 3/8" iron pin in 2012 survey. Nothing set. I used 3/8" iron pin.

SE Corner of Section 36, T–7N, R–8W ODOT G–26–913
I found 5/8" iron pin. Corner location and found reference points fit ODOT survey, SWO 2737(1), and corner record in which L.S. 1378 found 5/8" iron pin in 1995 survey. Nothing set. I used 5/8" iron pin.

S/4 Corner of Section 36, T–7N, R–8W ODOT G–26–948
I found PK nail with tag. L.S. 1326 set PK nail and filed C.C.R. in 2003 survey. Monument did not fit proportionate distances between southwest closing corner and southeast corner of Section 36. I set PK nail with tag and reference points as shown. I used single proportionate method between the southwest closing corner and southeast corner of Section 36 using distances from G.L.O. Notes and Plat.

SCALE:
1" = 500'
LAND CORNER DETAILS ARE SHOWN AT 1"=50'

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

PLS	JTB	
DRAWN	JSO	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

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SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S74

8-87

NW Closing Corner of Section 1, T–6N, R–8W ODOT G–26–949
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was placed on a line between found mileposts, at the distance specified on G.L.O. Notes and Plat, north of milepost 70.

Milepost 70 Corner of Section 1, T–6N, R–8W ODOT G–26–950
No corner evidence found. I set 1/2" iron pin with aluminum cap, stamped MP 70 and G–26–950. I set reference points as shown. I set monument using single proportionate method between found mileposts 68 and 70 1/2.

NE Closing Corner of Section 1, T–6N, R–8W ODOT G–26–951
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was placed on a line between found mileposts, at the distance specified on G.L.O. Notes and Plat, south of milepost 70.

W Closing Corner of Section 1, T–6N, R–8W ODOT G–26–945
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was placed on a line between found mileposts, at the distance specified on G.L.O. Notes and Plat, north of milepost 69 1/2.

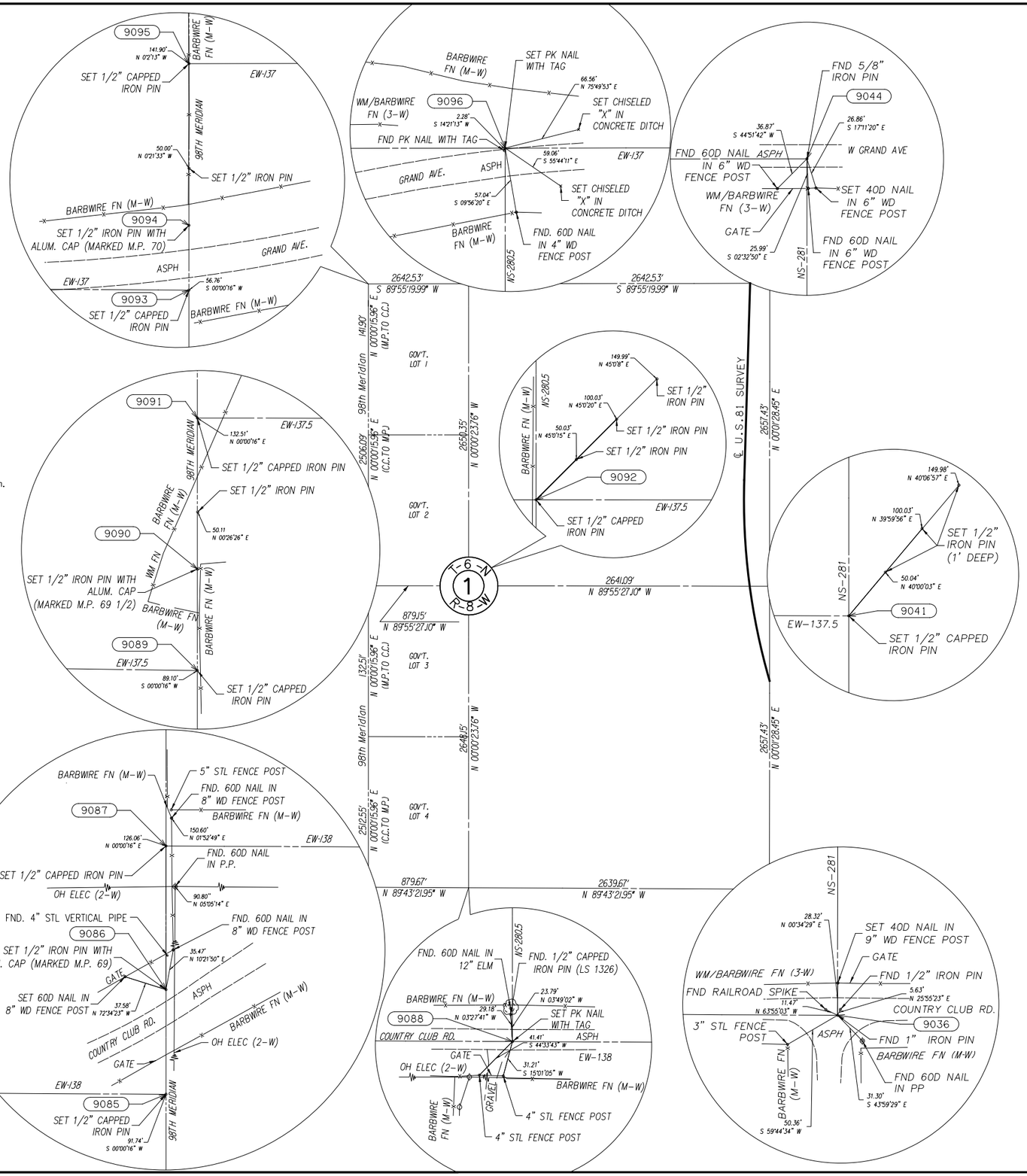
Milepost 69.5 Corner of Section 1, T–6N, R–8W ODOT G–26–946
No Corner evidence found. I set 1/2" iron pin with aluminum cap, stamped MP 69 1/2 and G–26–946. I set reference points as shown. I set monument using single proportionate method between found mileposts 68 and 70 1/2.

E Closing Corner of Section 1, T–6N, R–8W ODOT G–26–947
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was placed on a line between found mileposts, at the distance specified on G.L.O. Notes and Plat, south of milepost 69 1/2.

SW Closing Corner of Section 1, T–6N, R–8W ODOT G–26–941
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was placed on a line between found mileposts, at the distance specified on G.L.O. Notes and Plat, north of milepost 69

Milepost 69 Corner of Section 1, T–6N, R–8W ODOT G–26–942
I found 4" steel post with no brass cap that was found by L.S. 1082 in 1994 survey. The C.C.R. by L.S. 1082 did not list any supporting evidence. I found milepost 68 to the south and milepost 70 1/2 to the north and the 4" steel post did not fit the proportionate distance by nearly 30 feet. I determined that the 4" steel post was most likely a fence post that used to be connected to old fence line to the north. I set 1/2" iron pin with aluminum cap, stamped MP 69 and G–26–942. I set reference points as shown. I set monument using single proportionate method between found mileposts 68 and 70 1/2.

SE Closing Corner of Section 1, T–6N, R–8W ODOT G–26–943
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was placed on a line between found mileposts, at the distance specified on G.L.O. Notes and Plat, south of milepost 69.



N/4 Corner of Section 1, T–6N, R–8W ODOT G–26–948
I found PK nail with tag. L.S. 1326 set PK nail and filed C.C.R. in 2003 survey. Monument did not fit proportionate distances between southwest closing corner and southeast corner of Section 36. I set PK nail with tag and reference points as shown. I used single proportionate method between the southwest closing corner and southeast corner of Section 36 using distances from G.L.O. Notes and Plat.

NE Corner of Section 1, T–6N, R–8W ODOT G–26–913
I found 5/8" iron pin. Corner location and found reference points fit ODOT survey, SWO 2737(1), and corner record in which L.S. 1378 found 5/8" iron pin in 1995 survey. Nothing set. I used 5/8" iron pin.

C/4 Corner of Section 1, T–6N, R–8W ODOT G–26–944
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was set on intersecting lines between north and south quarter corners and the west closing corner and east quarter corner of Section One.

E/4 Corner of Section 1, T–6N, R–8W ODOT G–26–908
No corner evidence found. I set 5/8" iron pin and references. I set corner using single proportionate method.

Angle Of Variance
At Sta. 9092 (C/4 Cor.)
X= 1969512.1828
Y= 614658.3618
Lat.= 35°01'20.25216"
Long.= 97°59'47.82985"
θ = 0°00'06.90798"

SE Corner of Section 1, T–6N, R–8W ODOT G–26–907
I found 1/2" iron pin, railroad spike, & 1" iron pin. 1/2" iron pin and found reference points fit corner record in which L.S. 1272 found 1/2" iron pin in 2001 survey, with no supporting evidence listed. No corner record found for railroad spike. 1" iron pin fits measurements from ODOT survey, SWO 2737(1). Nothing set. I used 1" iron pin.

S/4 Corner of Section 1, T–6N, R–8W ODOT G–26–940
Found 1/2" capped iron pin marked L.S. 1326. This monument is from a C.C.R. in which L.S. 1326 set a 1/2" capped iron pin in a 2014 survey. The monument was set using an incorrectly identified monument at milepost 69 in a C.C.R. by L.S. 1082 in a 1994 survey. This is further evidenced by the monument at the south quarter corner of Section One not fitting the section line road and fences. Set PK nail with tag. I set monument using single proportionate method between the southwest closing corner and southeast corner of Section One using distances from G.L.O. Notes and Plat.

SCALE:
1" = 500'
LAND CORNER DETAILS ARE SHOWN AT 1"=50'

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

PLS	JTB	
DRAWN	JSO	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET

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SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S75

8-87

NW Closing Corner of Section 12, T–6N, R–8W ODOT G–26–941
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was placed on a line between found mileposts, at the distance specified on G.L.O. Notes and Plat, north of milepost 69

Milepost 69 Corner of Section 12, T–6N, R–8W ODOT G–26–942
I found 4" steel post with no brass cap that was found by L.S. 1082 in 1994 survey. The C.C.R. by L.S. 1082 did not list any supporting evidence. I found milepost 68 to the south and milepost 70 1/2 to the north and the 4" steel post did not fit the proportionate distance by nearly 30 feet. I determined that the 4" steel post was most likely a fence post that used to be connected to old fence line to the north. I set 1/2" iron pin with aluminum cap, stamped MP 69 and G–26–942. I set reference points as shown. I set monument using single proportionate method between found mileposts 68 and 70 1/2.

NE Closing Corner of Section 12, T–6N, R–8W ODOT G–26–943
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was placed on a line between found mileposts, at the distance specified on G.L.O. Notes and Plat, south of milepost 69.

W Closing Corner of Section 12, T–6N, R–8W ODOT G–26–937
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was placed on a line between found mileposts, at the distance specified on G.L.O. Notes and Plat, north of milepost 68 1/2

Milepost 68.5 Corner of Section 12, T–6N, R–8W ODOT G–26–938
No corner evidence found. I set 1/2" iron pin with aluminum cap, stamped MP 68 1/2 and G–26–938. I set reference points as shown. I set monument using single proportionate method between found mileposts 68 and 70 1/2.

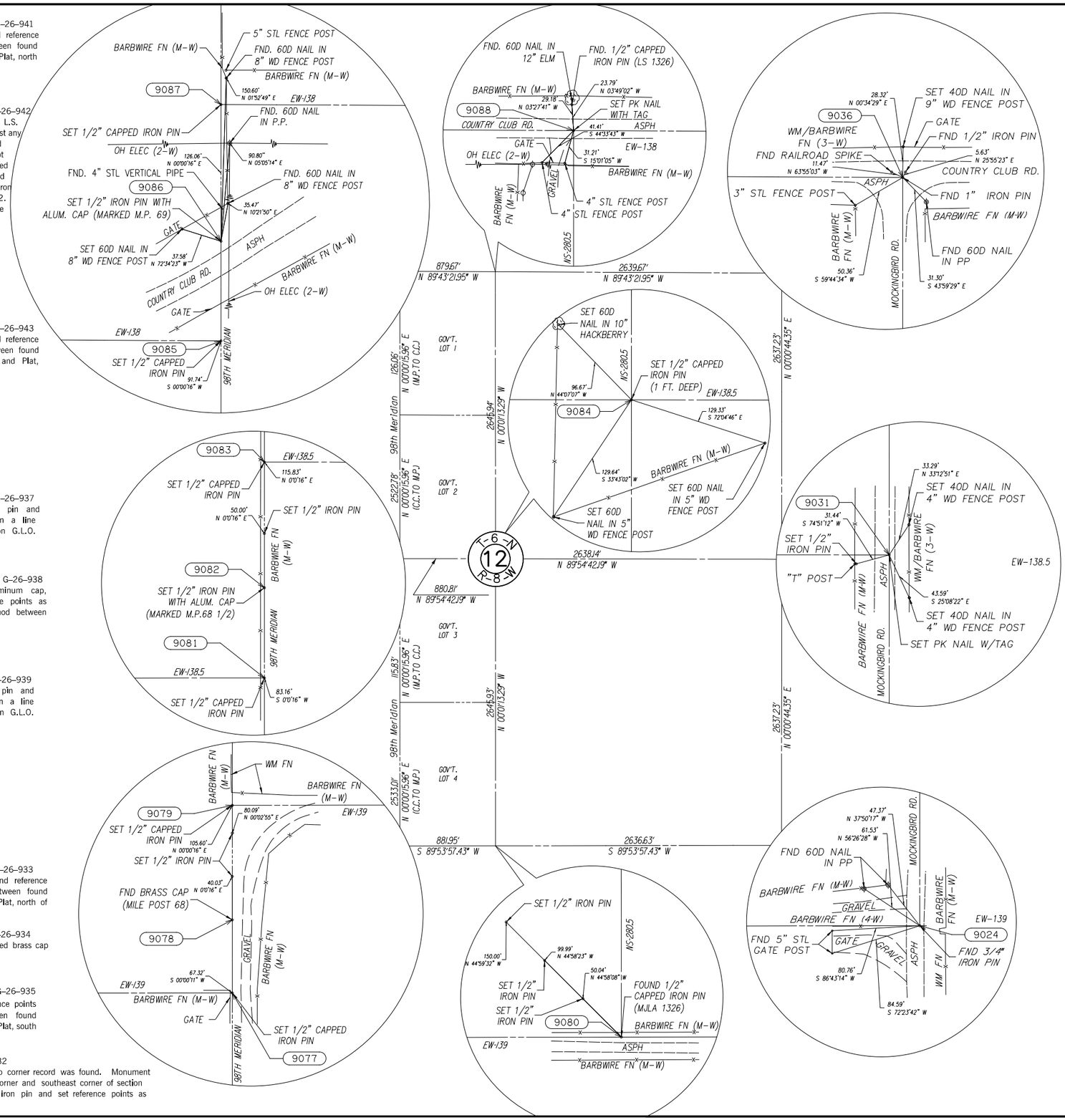
E Closing Corner of Section 12, T–6N, R–8W ODOT G–26–939
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was placed on a line between found mileposts, at the distance specified on G.L.O. Notes and Plat, south of milepost 68 1/2.

SW Closing Corner of Section 12, T–6N, R–8W ODOT G–26–933
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was placed on a line between found mileposts, at the distance specified on G.L.O. Notes and Plat, north of milepost 68

Milepost 68 Corner of Section 12, T–6N, R–8W ODOT G–26–934
Corner evidence found brass cap, marked, "MILE 68." I used brass cap and set reference points as shown.

SE Closing Corner of Section 12, T–6N, R–8W ODOT G–26–935
No evidence found. Set 1/2" capped iron pin and reference points as shown. Monument was placed on a line between found mileposts, at the distance specified on G.L.O. Notes and Plat, south of milepost 68.

S/4 Corner of Section 12, T–6N, R–8W ODOT G–26–932
I found 1/2" capped iron pin marked, "MJLA 1326". No corner record was found. Monument fits proportionate distances between southwest closing corner and southeast corner of section 12, from G.L.O. notes and Plat. I used 1/2" capped iron pin and set reference points as shown.



OKLAHOMA DEPARTMENT OF TRANSPORTATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.				

REVISIONS

DESCRIPTION	DATE

N/4 Corner of Section 12, T–6N, R–8W ODOT G–26–940
Found 1/2" capped iron pin marked L.S. 1326. This monument is from a C.C.R. in which L.S. 1326 set a 1/2" capped iron pin in a 2014 survey. The monument was set using an incorrectly identified monument at milepost 69 in a C.C.R. by L.S. 1082 in a 1994 survey. This is further evidenced by the monument at the south quarter corner of section one not fitting the section line road and fences. Set PK nail with tag. I set monument using single proportionate method between the southwest closing corner and southeast corner of Section One using distances from G.L.O. Notes and Plat.

NE Corner of Section 12, T–6N, R–8W ODOT G–26–907
I found 1/2" iron pin, railroad spike, & 1" iron pin. 1/2" iron pin and found reference points fit corner record in which L.S. 1272 found 1/2" iron pin in 2001 survey, with no supporting evidence listed. No corner record found for railroad spike. 1" iron pin fits measurements from ODOT survey, SWO 2737 (1). Nothing set. I used 1" iron pin.

C/4 Corner of Section 12, T–6N, R–8W ODOT G–26–936
No corner evidence found. I set 1/2" capped iron pin and reference points as shown. Monument was set on intersecting lines between north and south quarter corners and the west closing corner and east quarter corner of Section 12.

E/4 Corner of Section 12, T–6N, R–8W ODOT G–26–898
No corner evidence found. I set PK nail with tag. I used single proportion method to set the corner between the northwest and southwest corner of Section 7.

Angle Of Variance
At Sta. 9084 (C/4 Cor.)
X= 1969513.4280
Y= 609364.2708
Lat.= 35°00'27.88803"
Long.= 97°59'47.81702"
θ = 0°00'06.91526"

SE Corner of Section 12, T–6N, R–8W ODOT G–26–897
I found 3/4" iron pin. Corner location and found reference points match the corner records filed by the following surveyors:

L.S. 449 found iron pin (C.C.R. filed June 8, 1982)
L.S. 1082 found 3/4" iron pin (C.C.R. filed APR 18, 1994)
L.S. 1272 found 3/8" iron pin (C.C.R. filed Dec 7, 1998)
L.S. 1272 found iron pin (C.C.R. filed Aug 31, 2001).

Nothing set. I used 3/4" iron pin.

SCALE:
1" = 500'
LAND CORNER DETAILS ARE SHOWN AT 1" = 50'

PLS	JTB	
DRAWN	JSO	
CHECKED	JTB	
APPROVED	JTB	
CREW	BENHAM	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

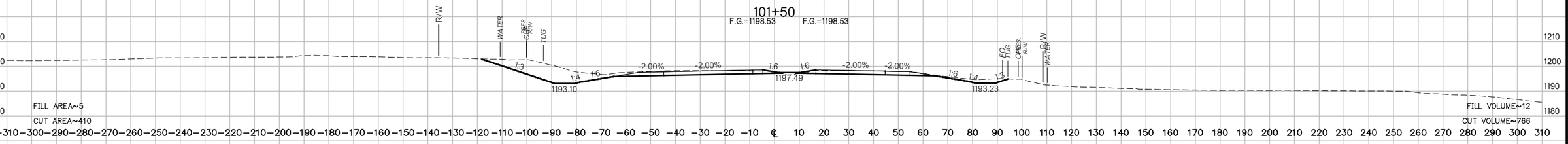
SURVEY DATA SHEET

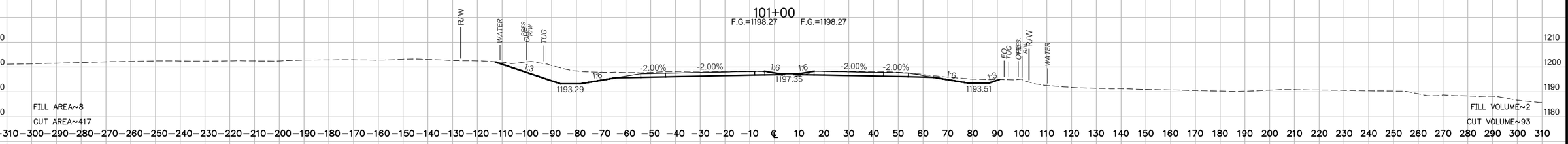
SDS 76 OF 76

SWO 4380 (1) PROJECT NO. 24428(04) SHEET NO. S76

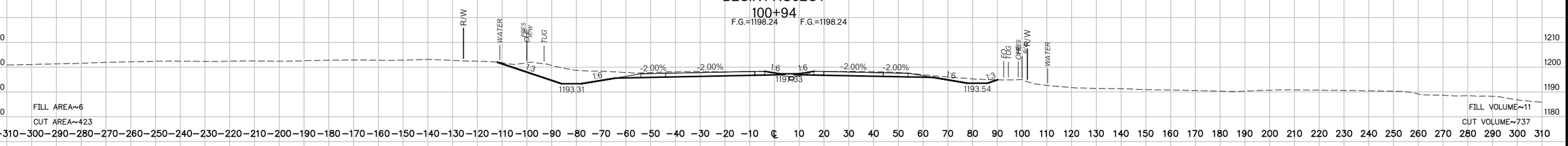
8–87

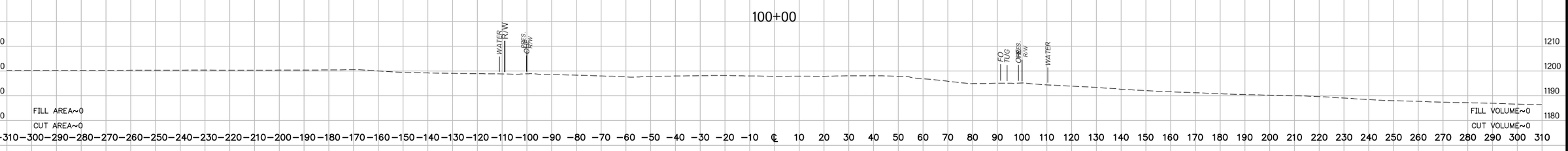
PROPOSED
R/W
AUGUST 2017

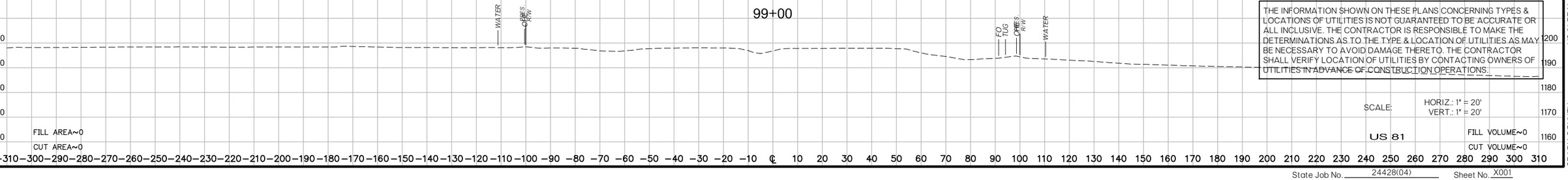




BEGIN PROJECT







THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPES & LOCATIONS OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE TO MAKE THE DETERMINATIONS AS TO THE TYPE & LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING OWNERS OF UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS.

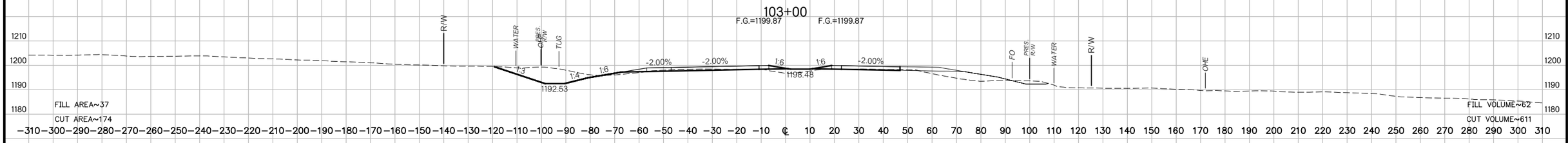
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

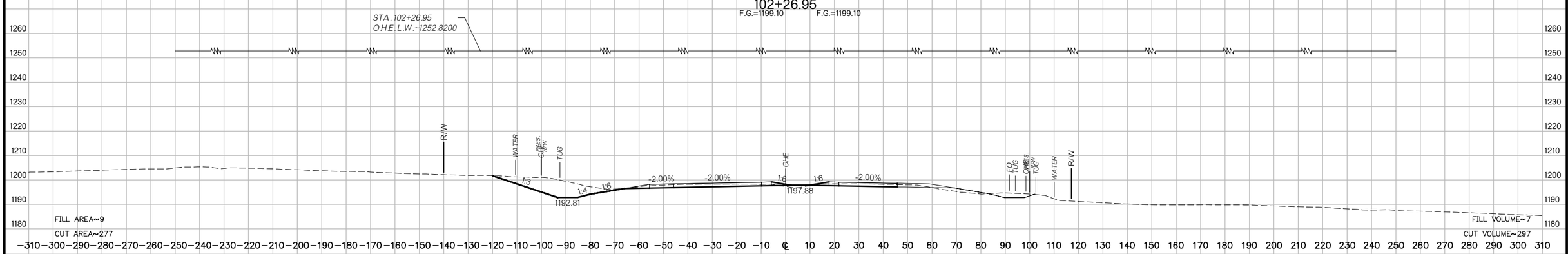
US 81

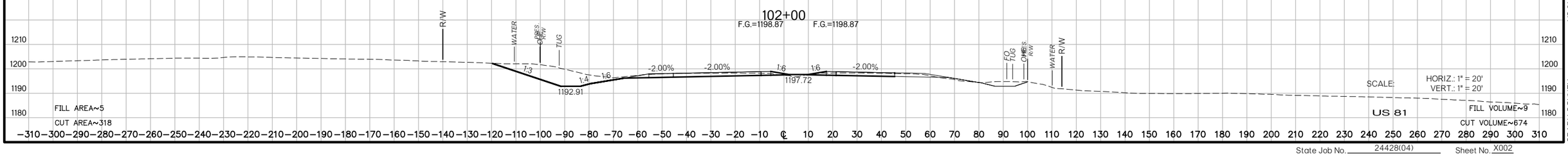
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X001

PROPOSED
R/W
AUGUST 2017







SCALE:
HORIZ.: 1" = 20'
VERT.: 1" = 20'

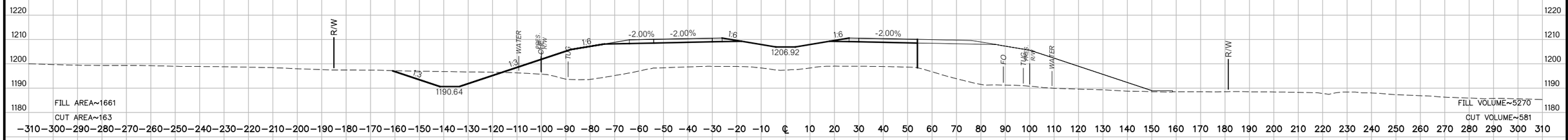
US 81

US 81 REALIGNMENT
GRADY COUNTY

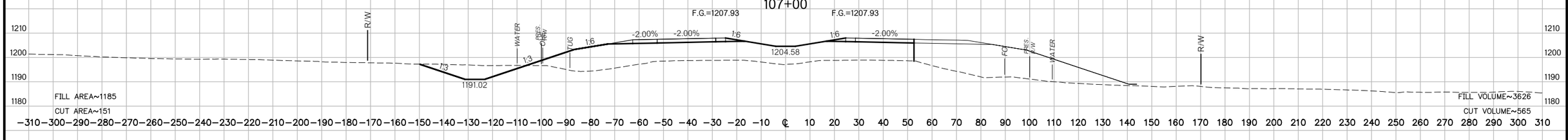
State Job No. 24428(04) Sheet No. X002

PROPOSED
R/W
AUGUST 2017

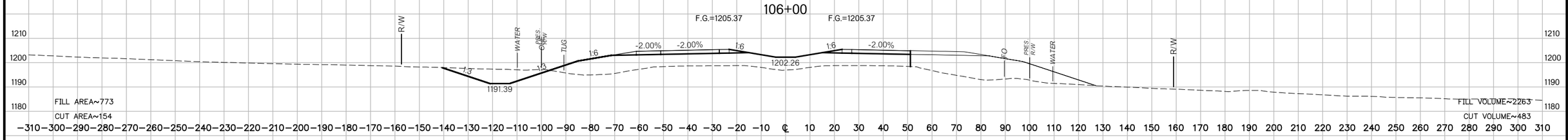
108+00



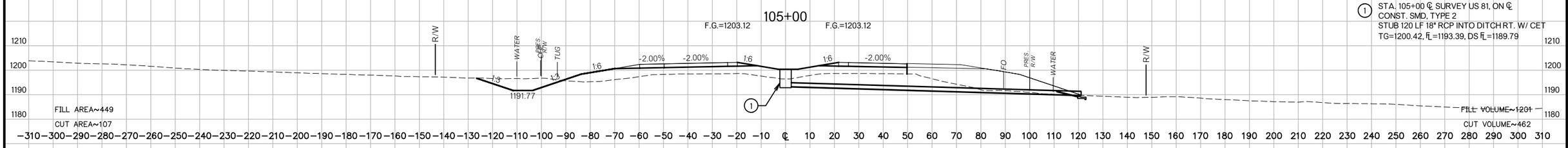
107+00



106+00

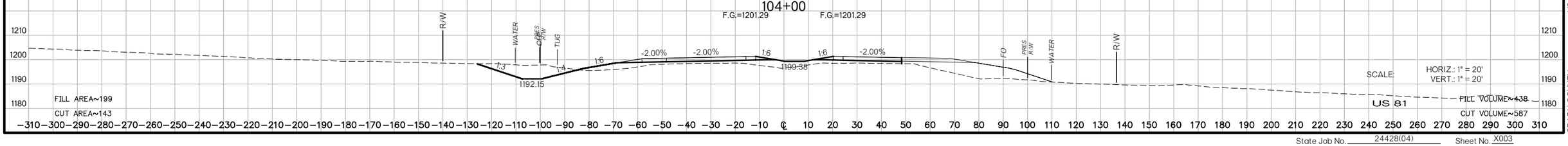


105+00



1 STA. 105+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 120 LF 18" RCP INTO DITCH RT. W/ CET
TG=1200.42, IL=1193.39, DS IL=1189.79

104+00



SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

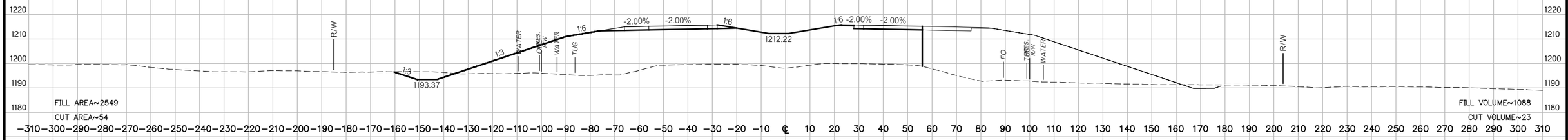
US 81

US 81 REALIGNMENT
GRADY COUNTY

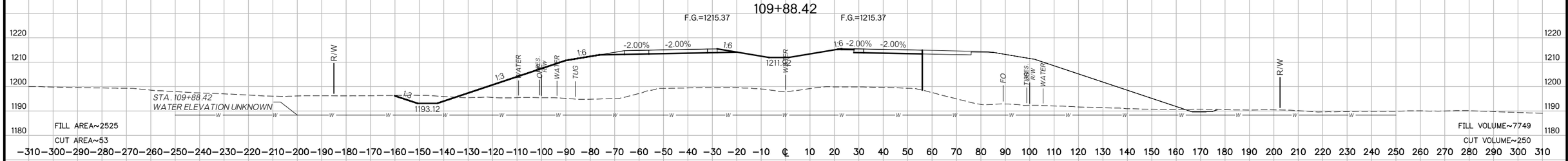
State Job No. 24428(04) Sheet No. X003

PROPOSED
R/W
AUGUST 2017

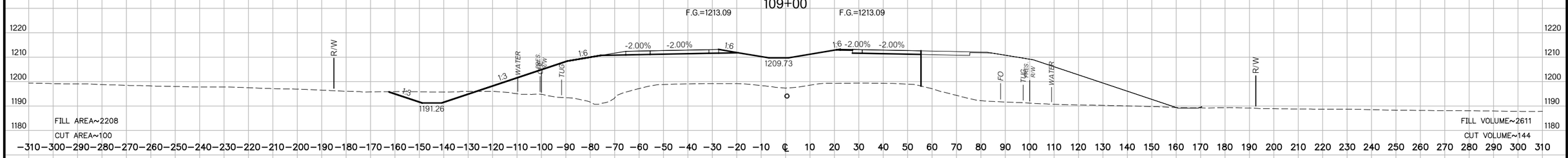
110+00



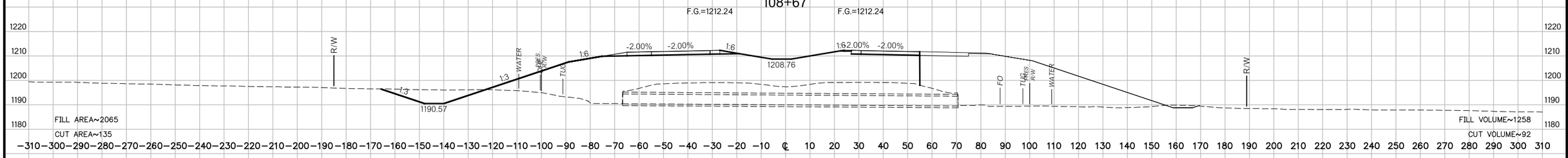
109+88.42



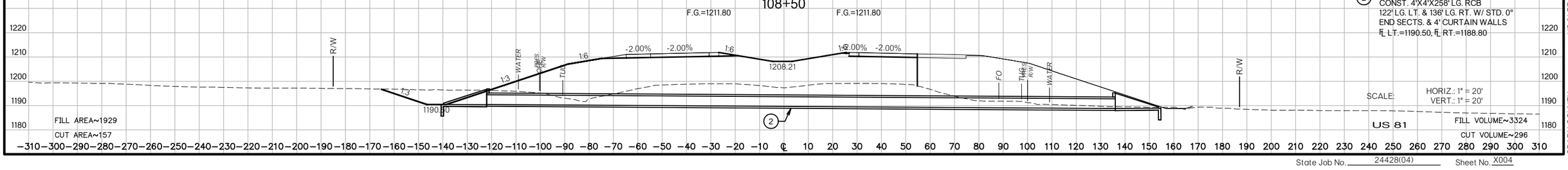
109+00



108+67



108+50



(2) STA. 108+50 ℄ SURVEY US 81, ON ℄
CONST. 4'X4'X258' LG. RCB
122' LG. LT. & 136' LG. RT. W/ STD. 0° END SECTS. & 4' CURTAIN WALLS
FL LT.=1190.50, FL RT.=1188.80

SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

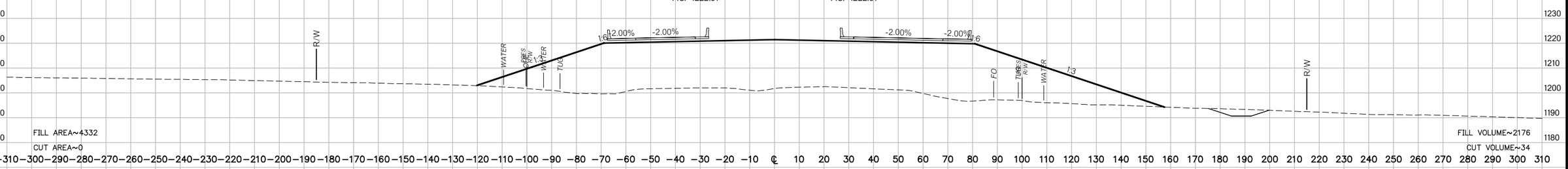
US 81

US 81 REALIGNMENT
GRADY COUNTY

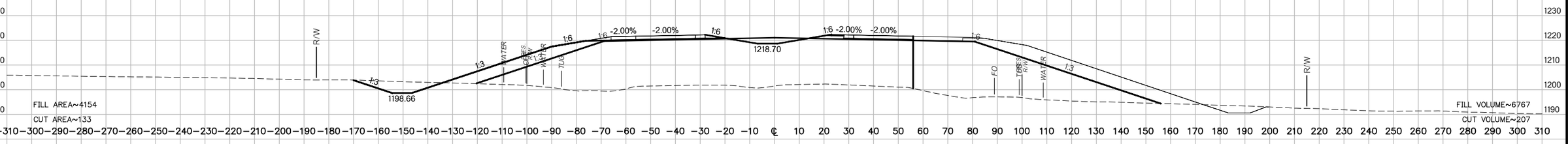
State Job No. 24428(04) Sheet No. X004

PROPOSED
R/W
AUGUST 2017

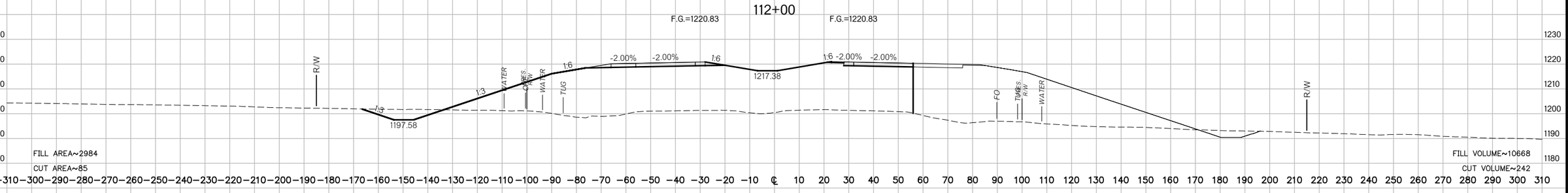
112+65.04



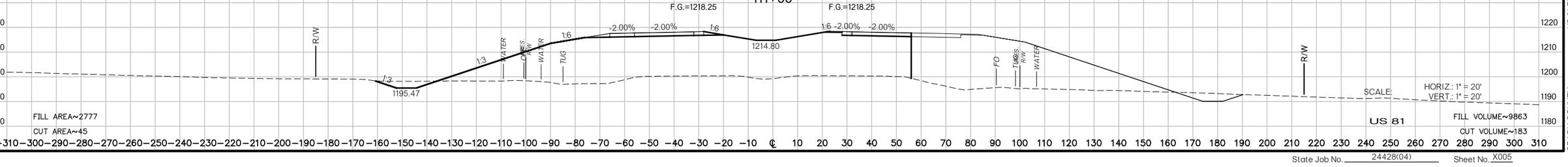
BEGIN APPROACH BRIDGES A & B
112+51.19



112+00



111+00

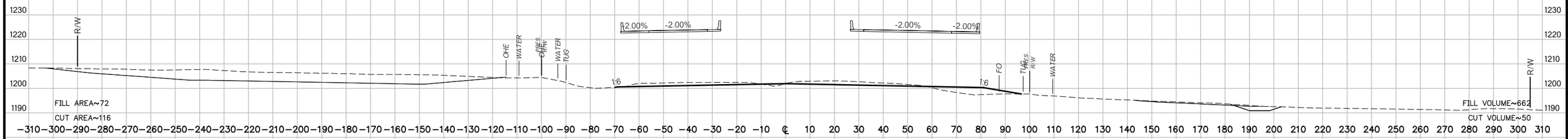


US 81 REALIGNMENT
GRADY COUNTY

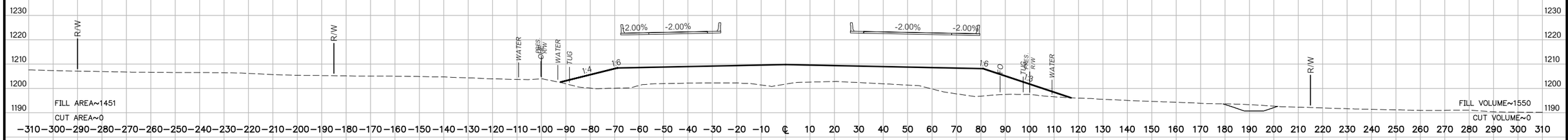
State Job No. 24428(04) Sheet No. X005

PROPOSED
R/W
AUGUST 2017

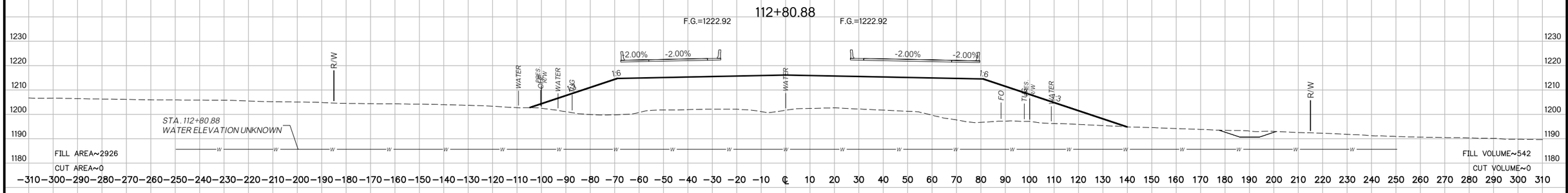
113+23.47



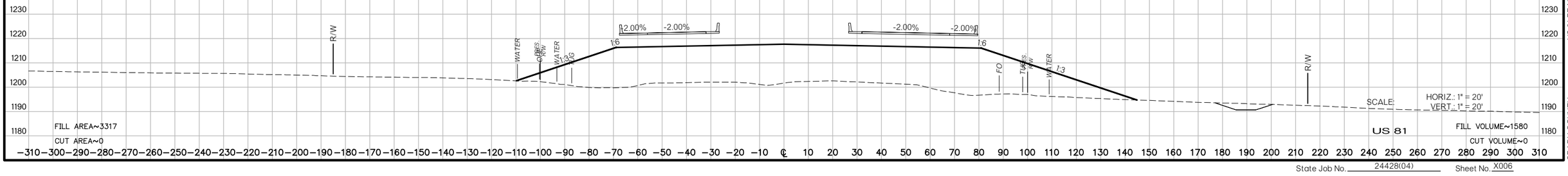
113+00



112+80.88



BEGIN BRIDGES A & B
112+76.19

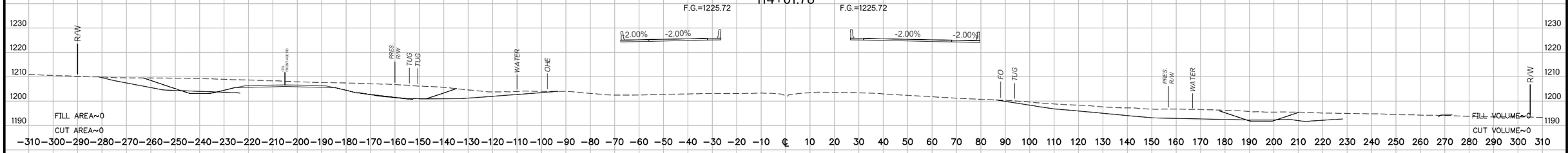


US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X006

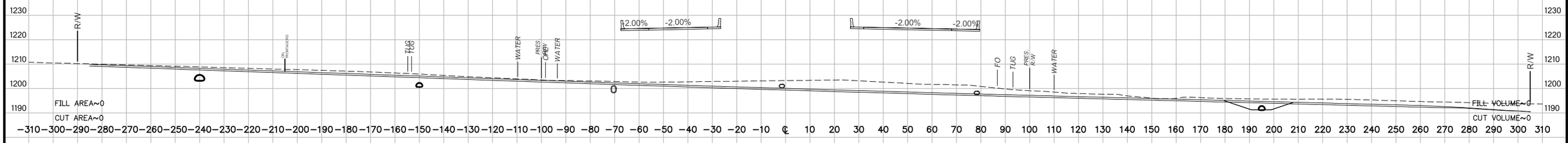
PROPOSED
R/W
AUGUST 2017

END EARTHWORK EXCEPTION
114+01.78

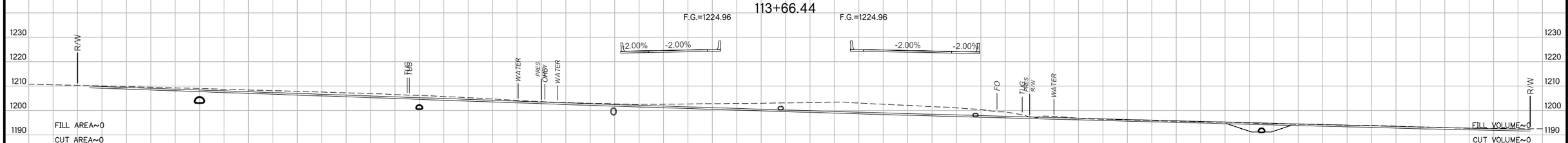


114+00

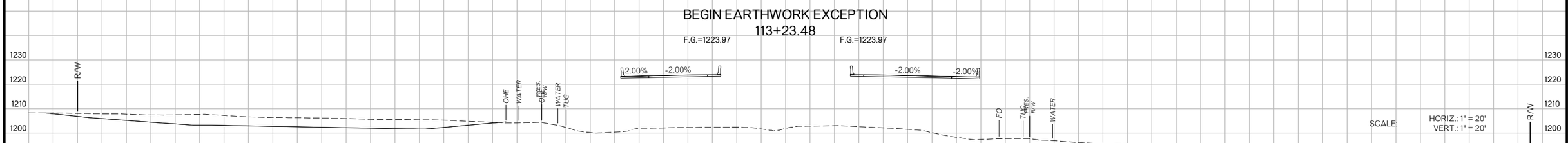
113+75.27



113+66.44



BEGIN EARTHWORK EXCEPTION
113+23.48



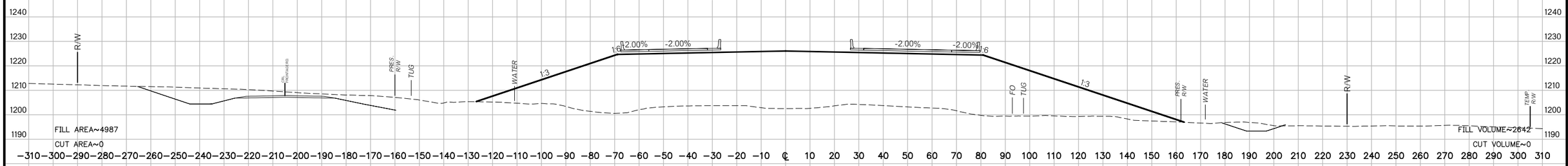
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X007

PROPOSED
R/W
AUGUST 2017

114+73.54

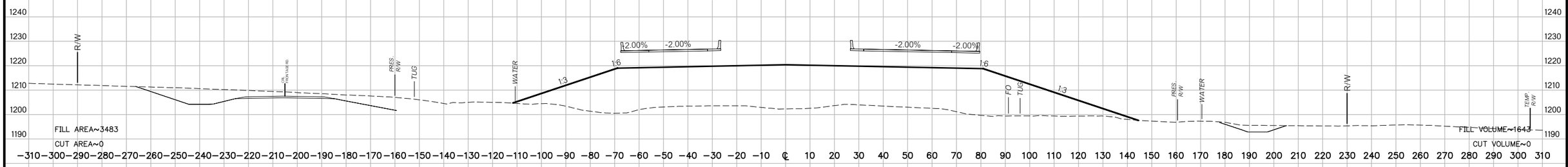
F.G.=1227.10 F.G.=1227.10



END BRIDGES A & B

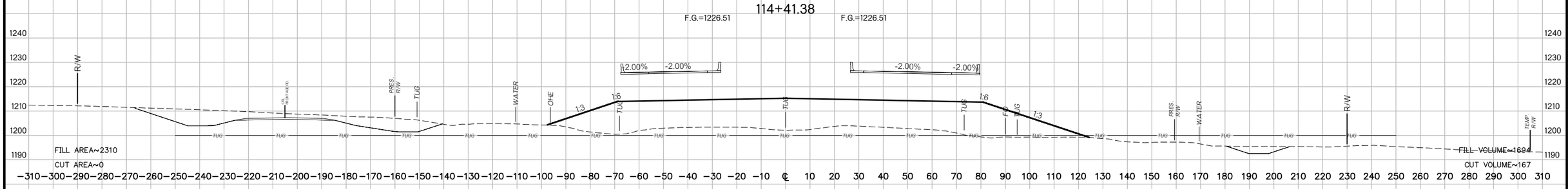
114+56.69

F.G.=1226.80 F.G.=1226.80



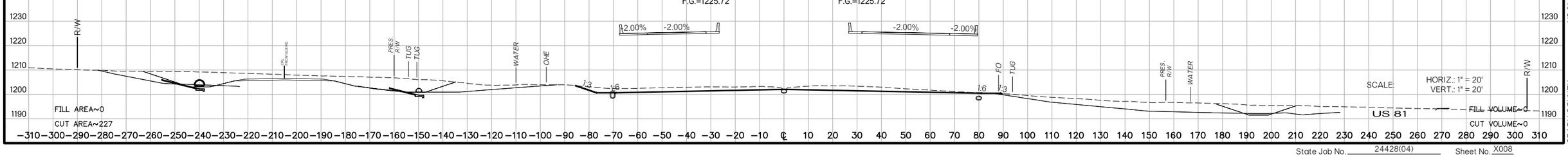
114+41.38

F.G.=1226.51 F.G.=1226.51



114+01.79

F.G.=1225.72 F.G.=1225.72



SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

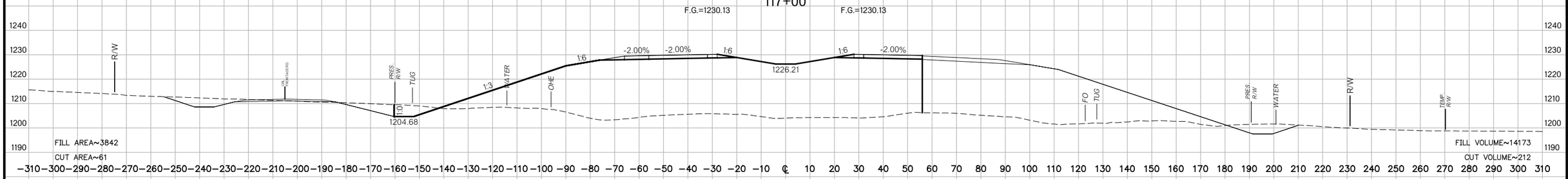
US 81

US 81 REALIGNMENT
GRADY COUNTY

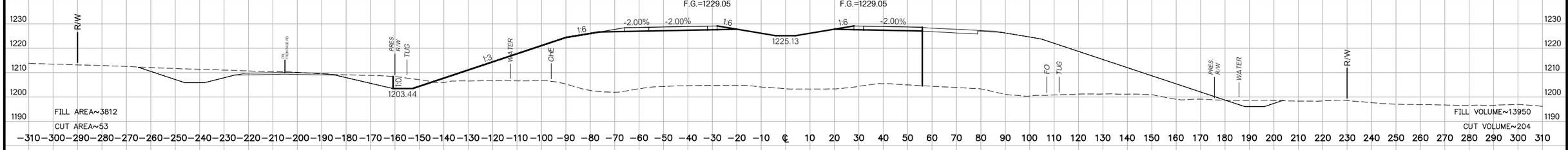
State Job No. 24428(04) Sheet No. X008

PROPOSED
R/W
AUGUST 2017

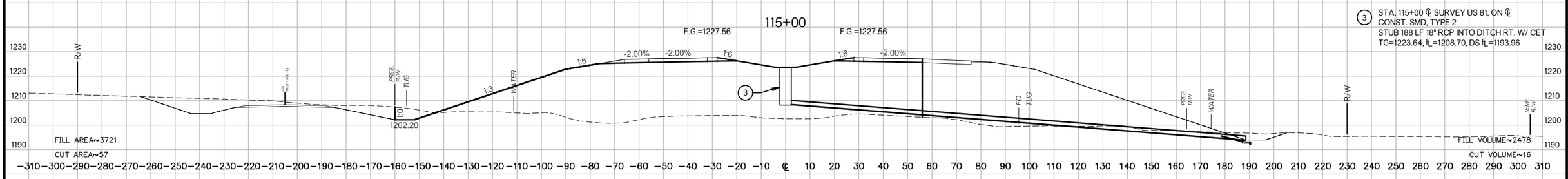
117+00



116+00

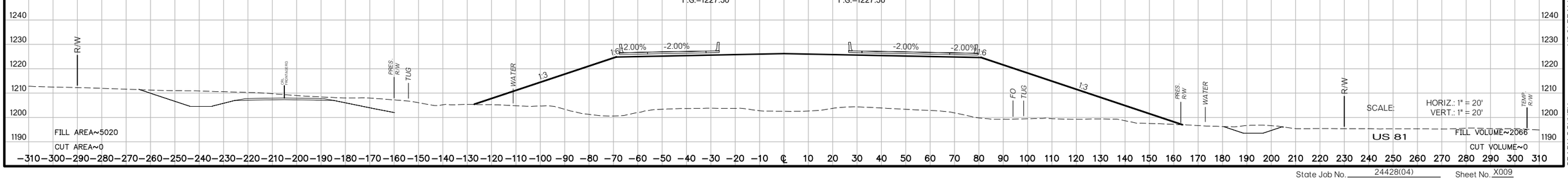


115+00



3 STA. 115+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 188 LF 18" RCP INTO DITCH RT. W/ CET
TG=1223.64, IL=1208.70, DS IL=1193.96

END APPROACH SLAB BRIDGES A & B
114+84.69

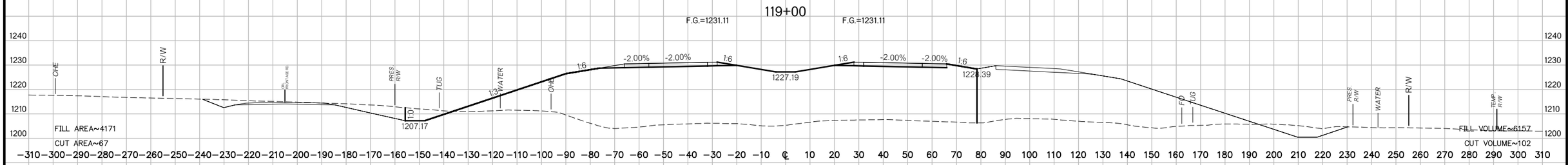


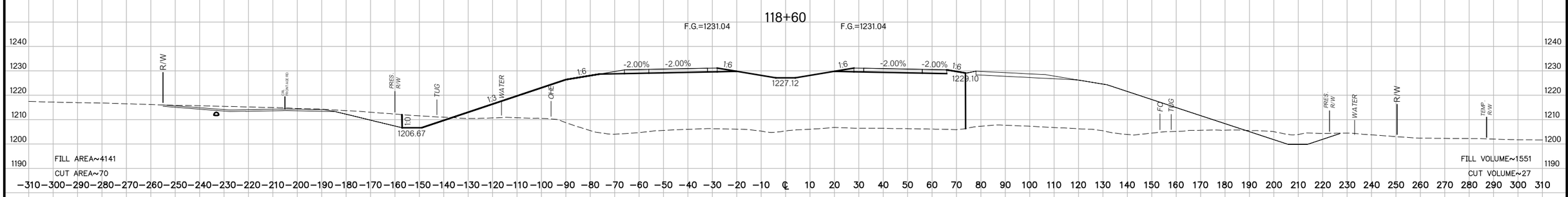
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'
US 81

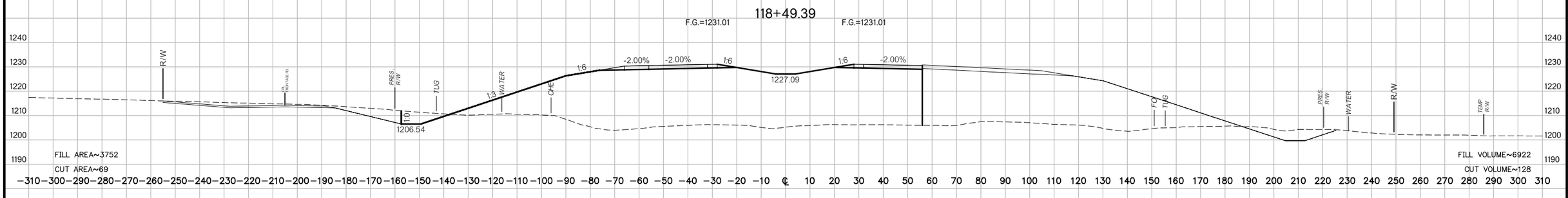
US 81 REALIGNMENT
GRADY COUNTY

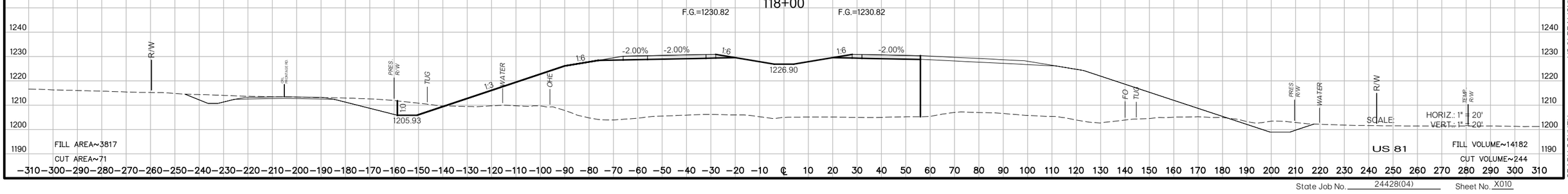
State Job No. 24428(04) Sheet No. X009

PROPOSED
R/W
AUGUST 2017









US 81 REALIGNMENT

GRADY COUNTY

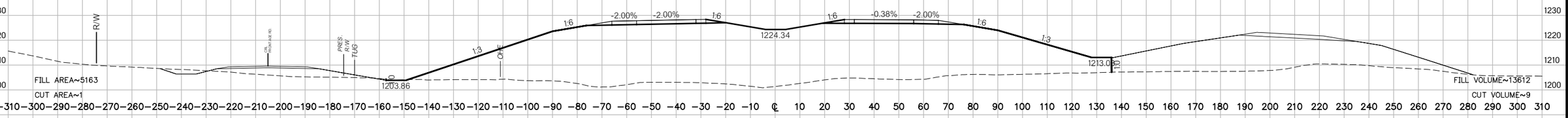
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

US 81

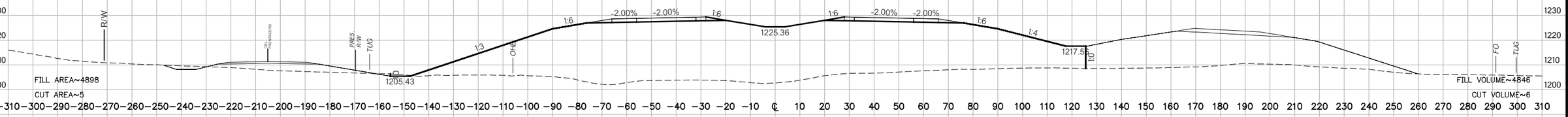
State Job No. 24428(04) Sheet No. X010

PROPOSED
R/W
AUGUST 2017

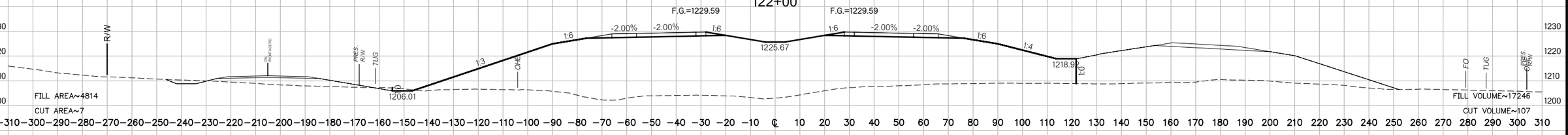
123+00



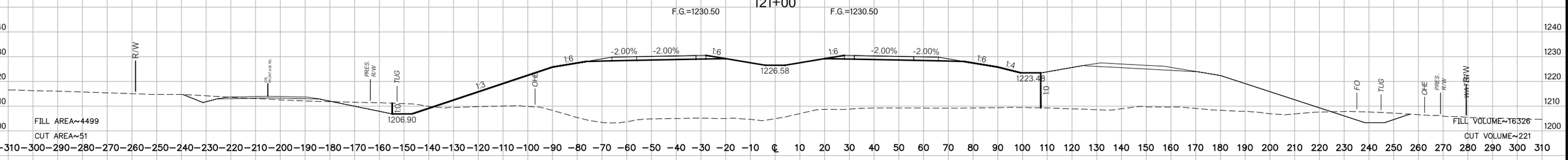
122+26.94



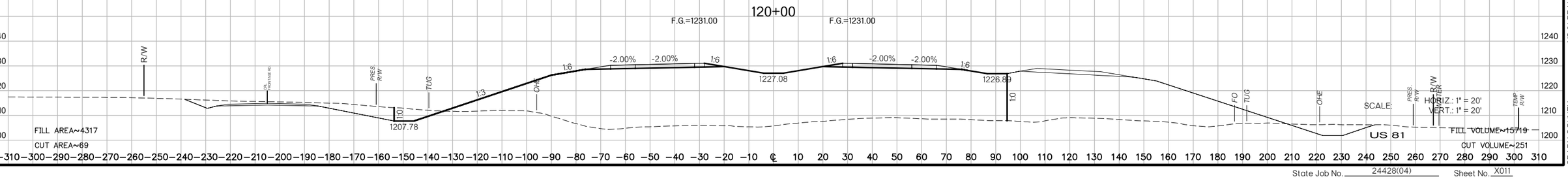
122+00



121+00



120+00

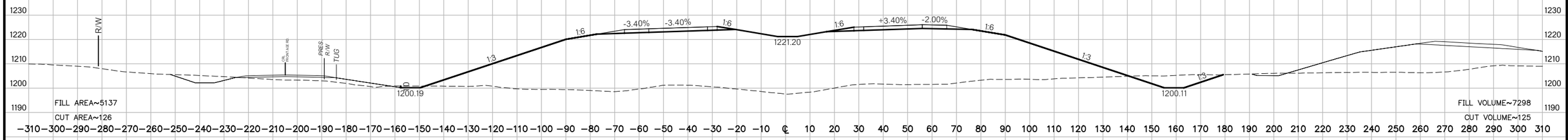


US 81 REALIGNMENT
GRADY COUNTY

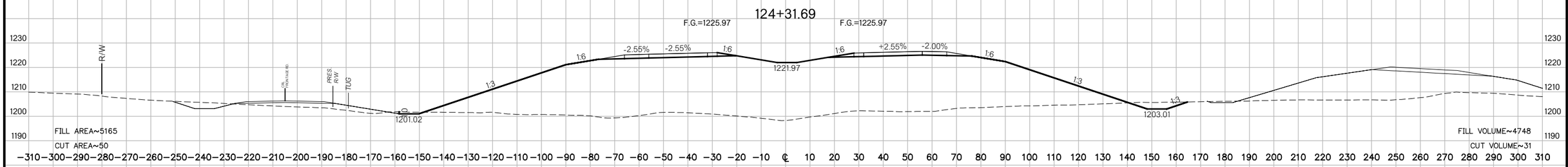
State Job No. 24428(04) Sheet No. X011

PROPOSED
R/W
AUGUST 2017

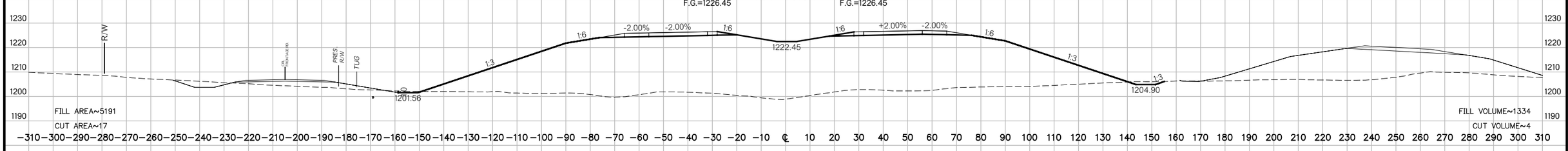
BEGIN FULL SUPERELEVATION
124+69.94



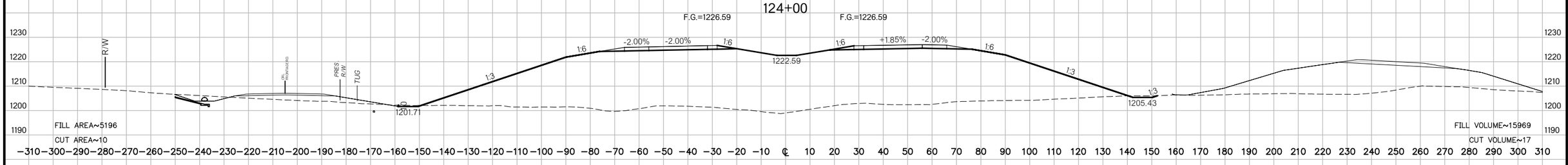
124+31.69



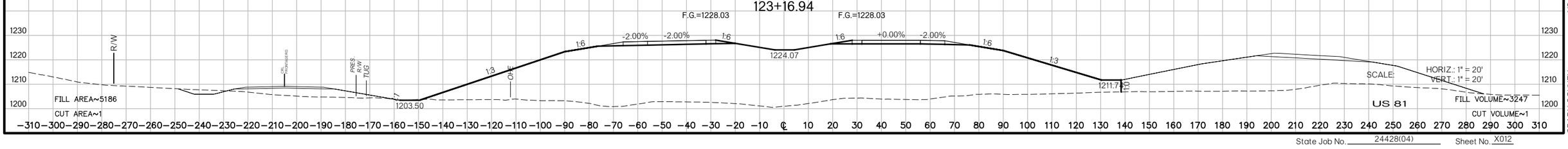
REVERSE CROSS SLOPE STATION
124+06.94



124+00



123+16.94



SCALE:
HORIZ.: 1" = 20'
VERT.: 1" = 20'

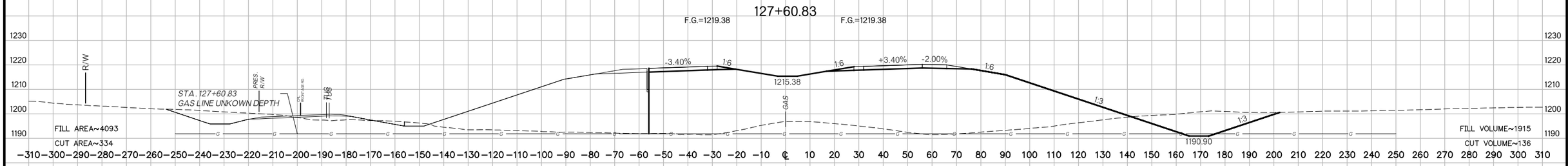
US 81

US 81 REALIGNMENT
GRADY COUNTY

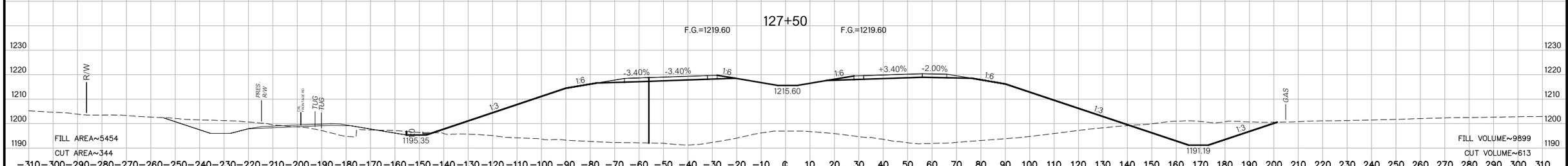
State Job No. 24428(04) Sheet No. X012

PROPOSED
R/W
AUGUST 2017

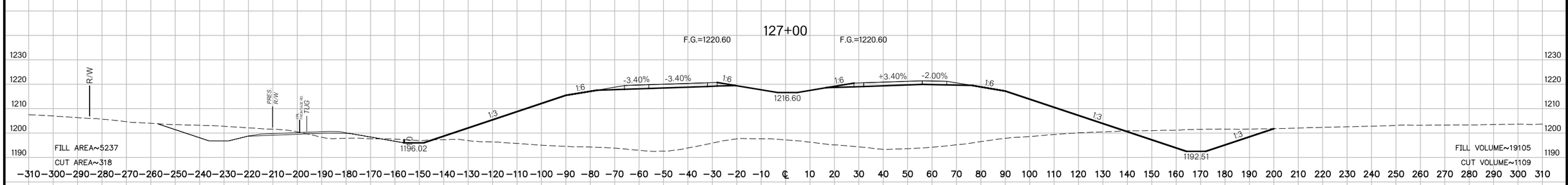
127+60.83



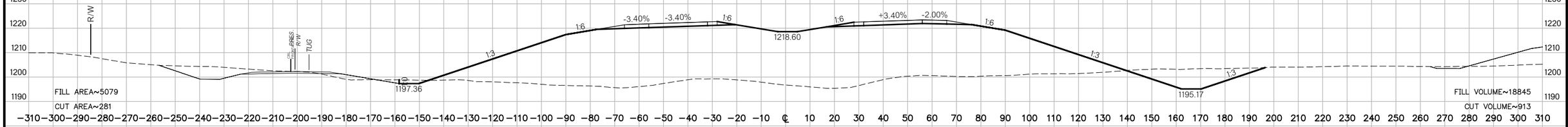
127+50



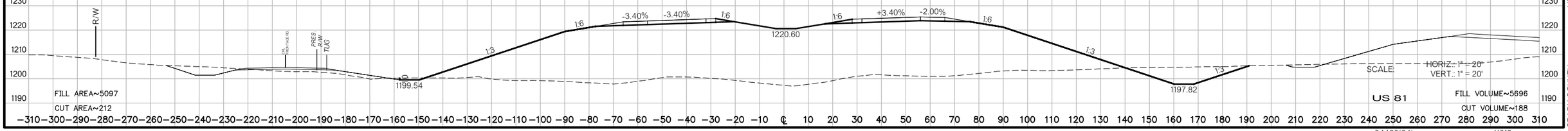
127+00



126+00



125+00



SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

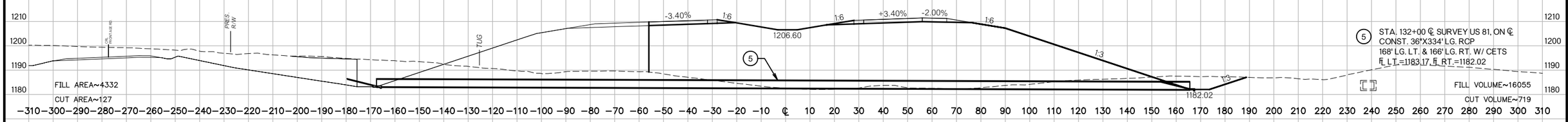
US 81

US 81 REALIGNMENT
GRADY COUNTY

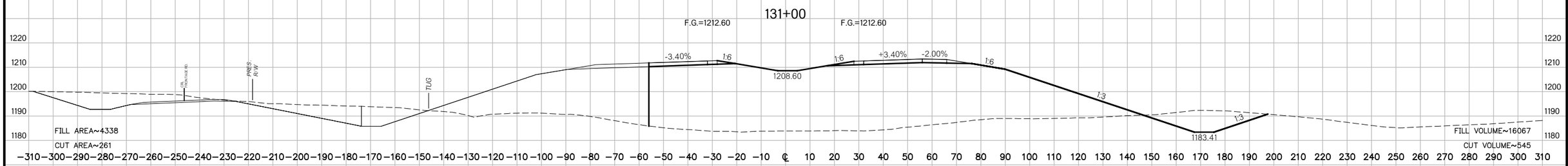
State Job No. 24428(04) Sheet No. X013

PROPOSED
R/W
AUGUST 2017

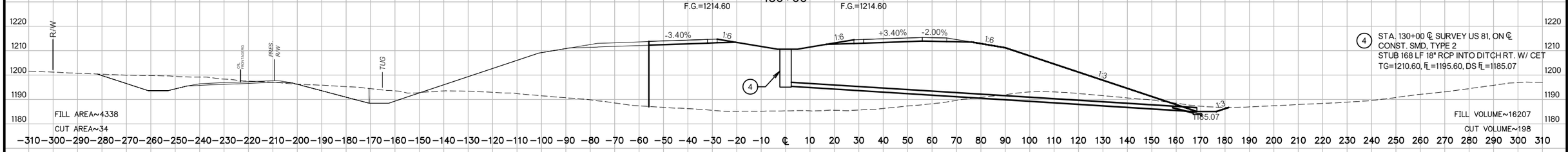
132+00



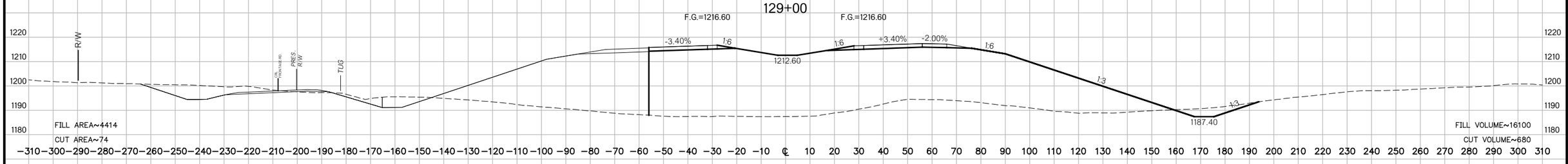
131+00



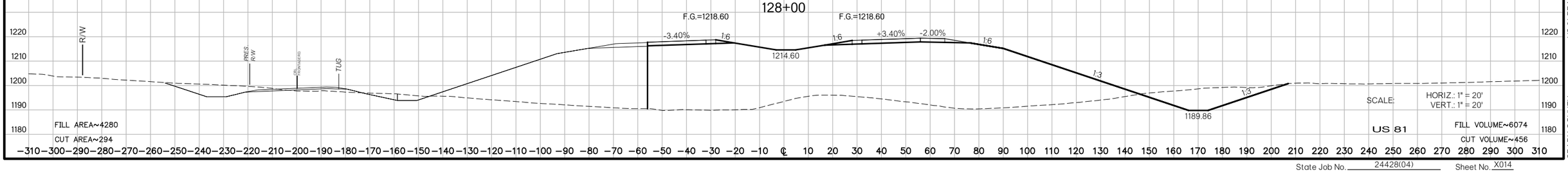
130+00



129+00



128+00

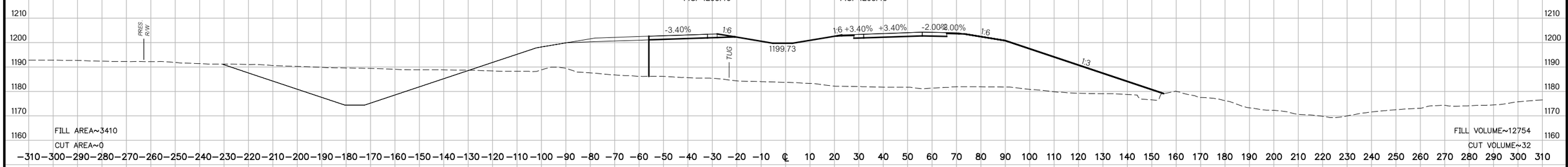


US 81 REALIGNMENT
GRADY COUNTY

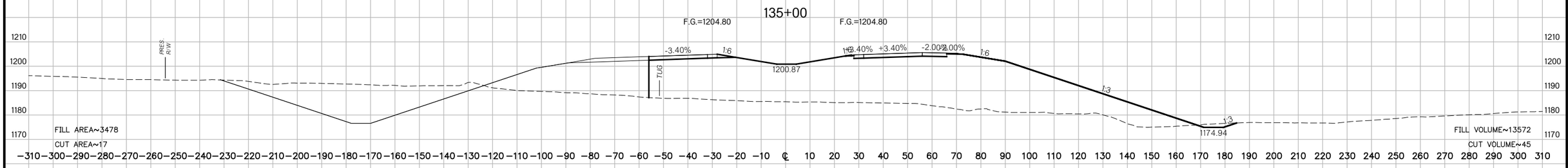
State Job No. 24428(04) Sheet No. X014

PROPOSED
R/W
AUGUST 2017

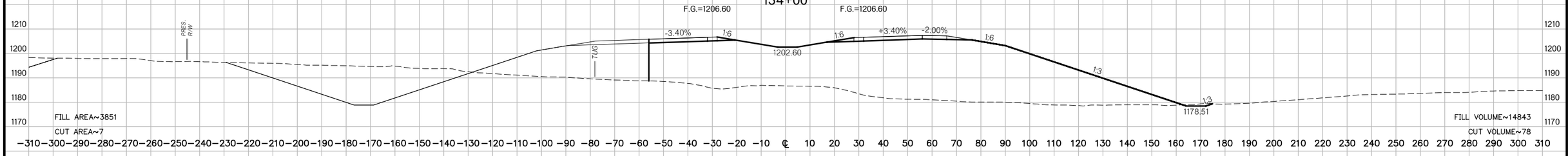
136+00



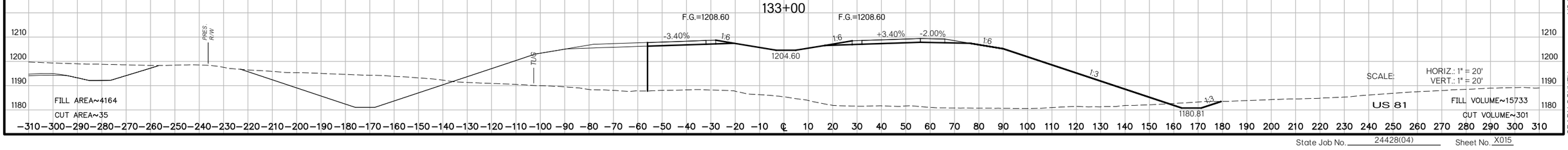
135+00



134+00



133+00



SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

US 81

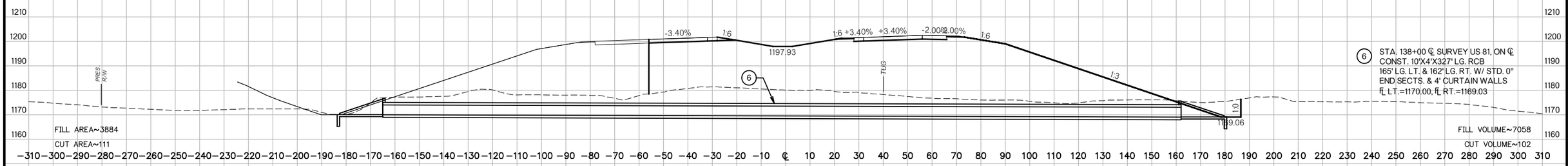
US 81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X015

PROPOSED
R/W
AUGUST 2017

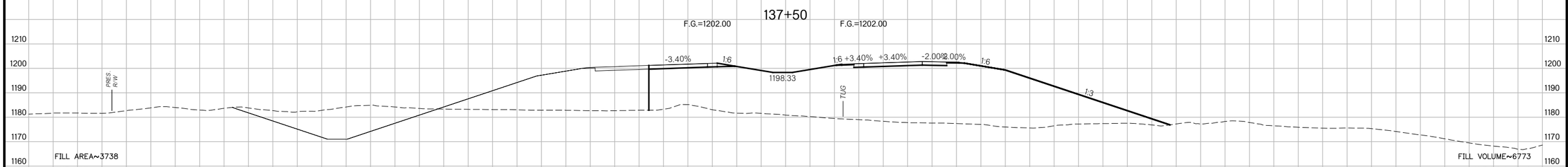
138+00



6 STA. 138+00 ℄ SURVEY US 81, ON ℄
CONST. 10'X4'X327' LG. RCB
165' LG. LT. & 162' LG. RT. W/ STD. 0°
END SECTS. & 4' CURTAIN WALLS
FL LT.=1170.00, FL RT.=1169.03

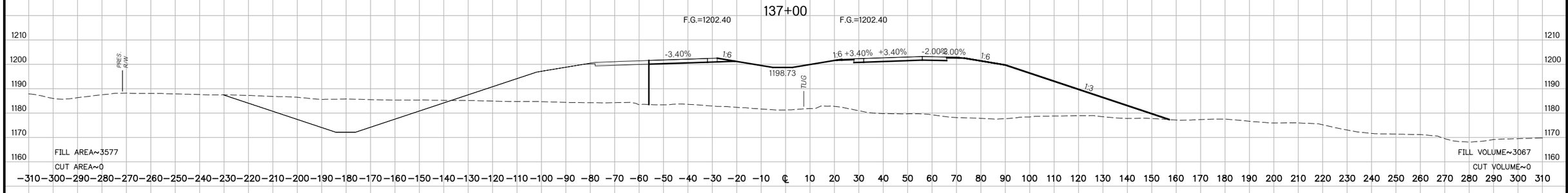
FILL AREA~3884
CUT AREA~111
FILL VOLUME~7058
CUT VOLUME~102

137+50



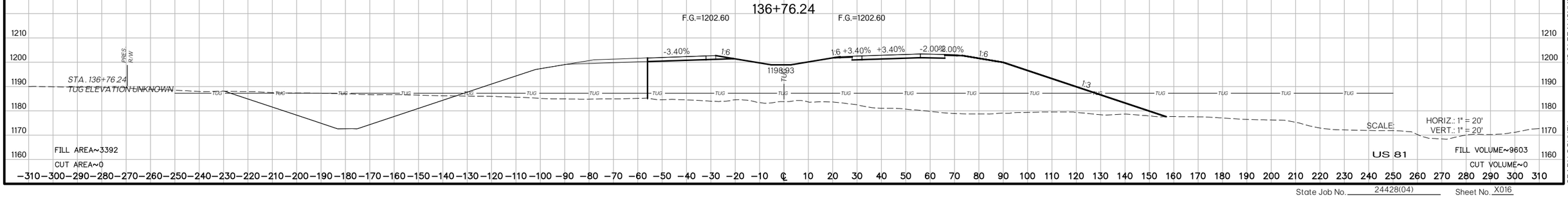
FILL AREA~3738
CUT AREA~0
FILL VOLUME~6773
CUT VOLUME~0

137+00



FILL AREA~3577
CUT AREA~0
FILL VOLUME~3067
CUT VOLUME~0

136+76.24



FILL AREA~3392
CUT AREA~0
FILL VOLUME~9603
CUT VOLUME~0

SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

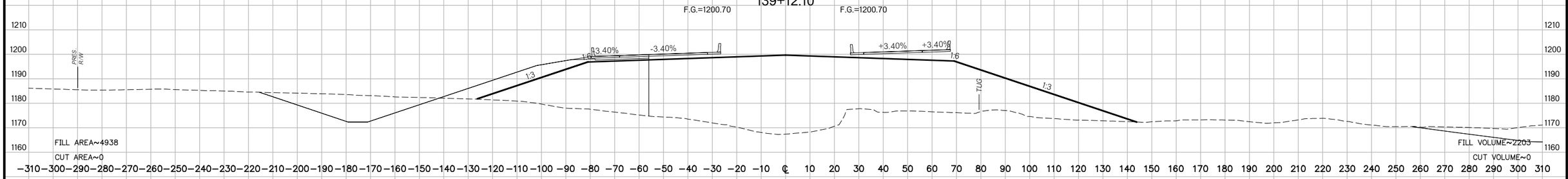
US 81

US 81 REALIGNMENT
GRADY COUNTY

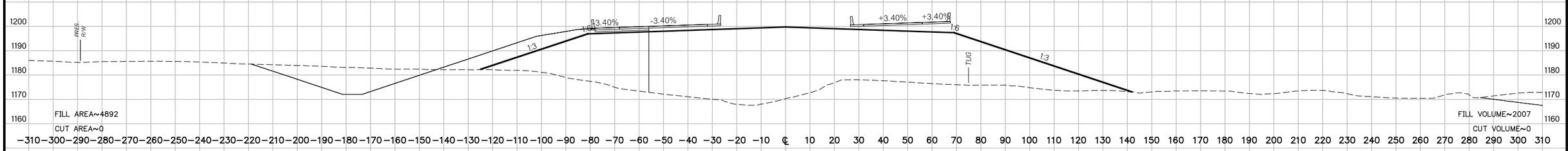
State Job No. 24428(04) Sheet No. X016

PROPOSED
R/W
AUGUST 2017

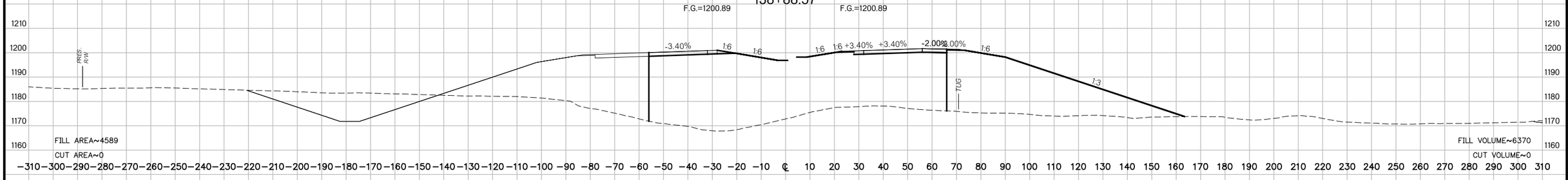
LAST FULL STATION
139+12.10



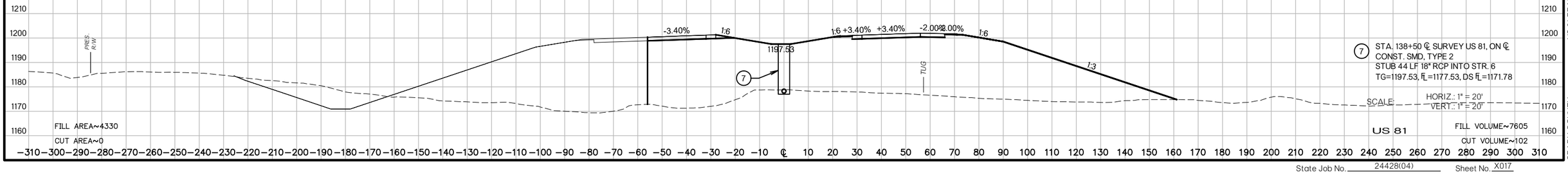
139+00



BEGIN APPROACH BRIDGE D
138+88.57



138+50



7 STA. 138+50 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 44 LF 18" RCP INTO STR. 6
TG=1197.53, FL=1177.53, DS FL=1171.78

SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

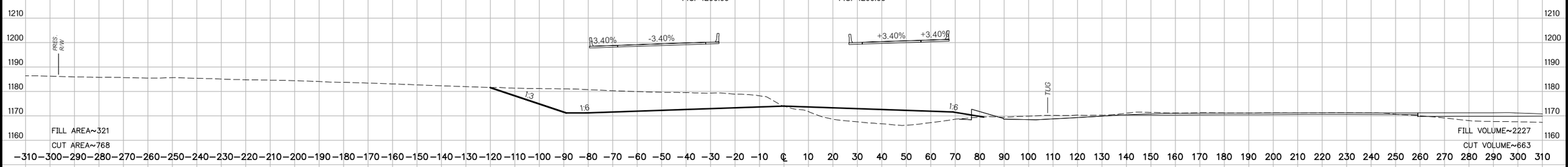
US 81

US 81 REALIGNMENT
GRADY COUNTY

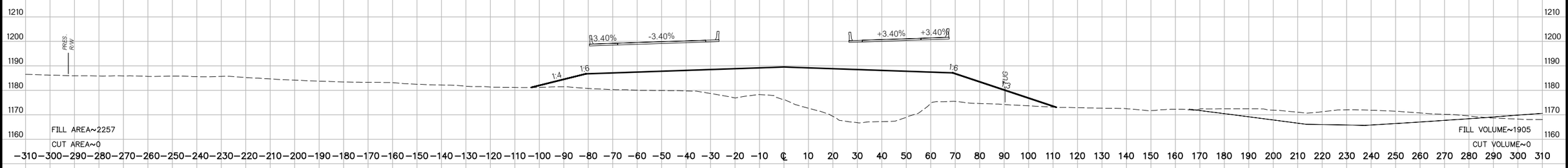
State Job No. 24428(04) Sheet No. X017

PROPOSED
R/W
AUGUST 2017

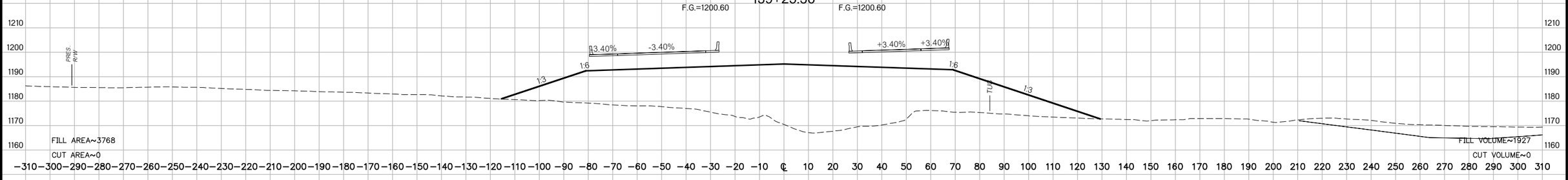
139+89.08



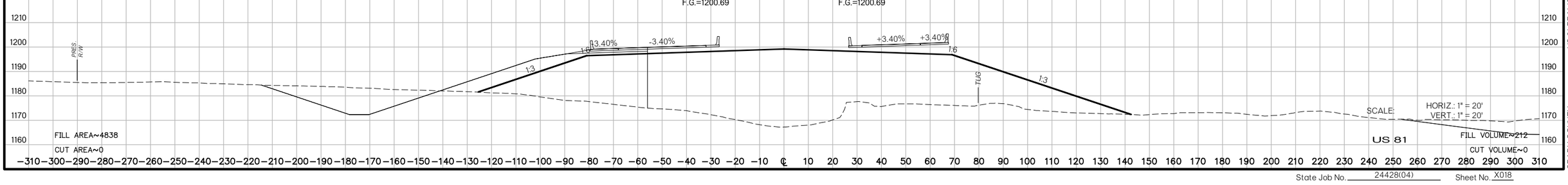
BEGIN BRIDGE C
139+42.43



BEGIN BRIDGE D
139+25.36



BEGIN APPROACH BRIDGE C
139+13.27



SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

US 81

US 81 REALIGNMENT

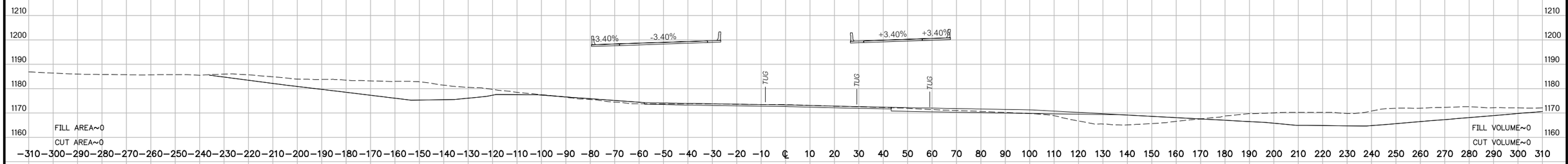
GRADY COUNTY

State Job No. 24428(04) Sheet No. X018

PROPOSED
R/W
AUGUST 2017

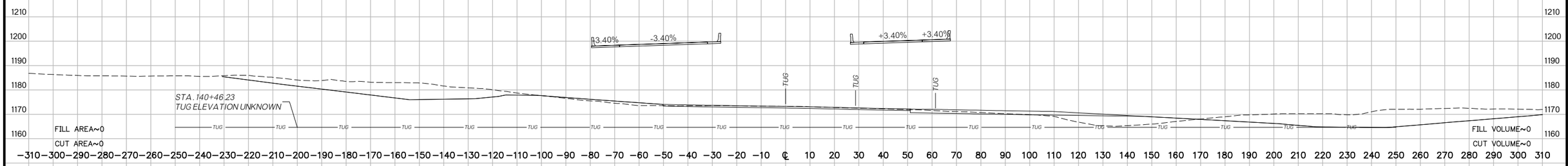
140+48.45

F.G.=1199.61 F.G.=1199.61



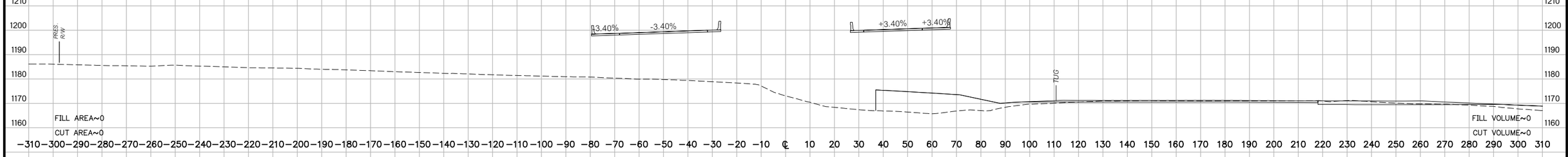
140+46.23

F.G.=1199.63 F.G.=1199.63



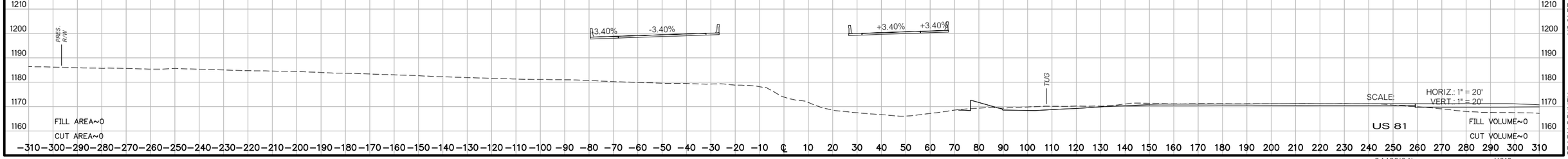
140+00

F.G.=1200.00 F.G.=1200.00



BEGIN EARTHWORK EXCEPTION
139+89.09

F.G.=1200.09 F.G.=1200.09



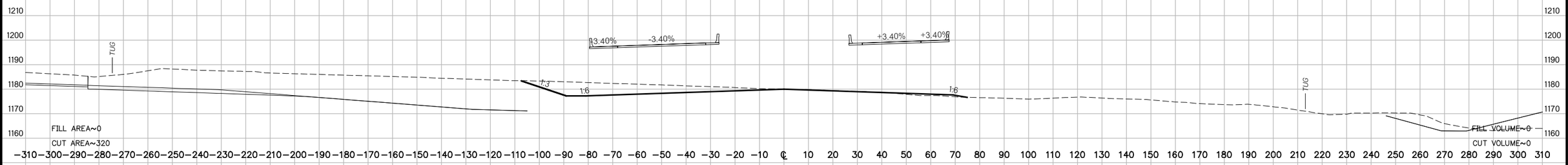
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X019

PROPOSED
R/W
AUGUST 2017

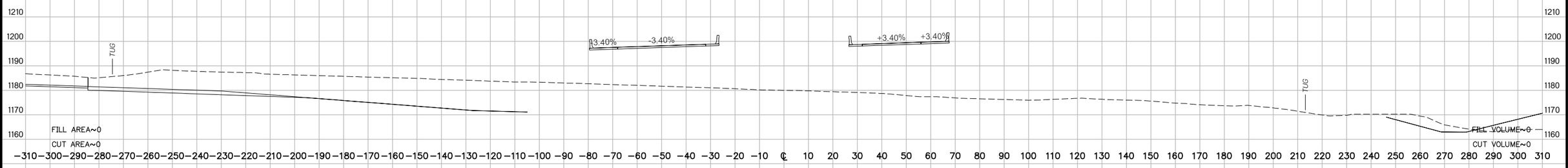
141+48.14

F.G.=1198.81 F.G.=1198.81



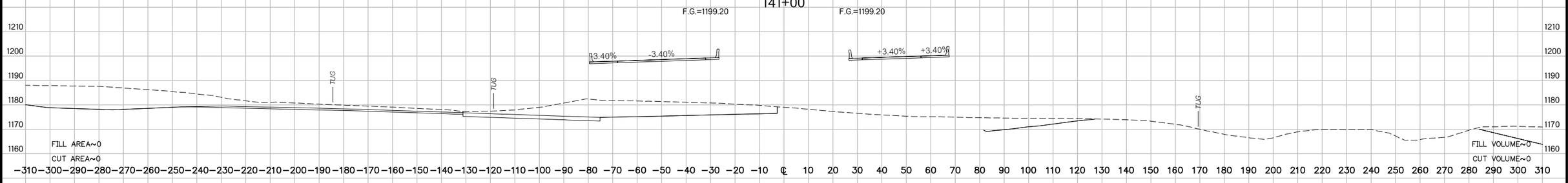
END EARTHWORK EXCEPTION
141+48.13

F.G.=1198.81 F.G.=1198.81



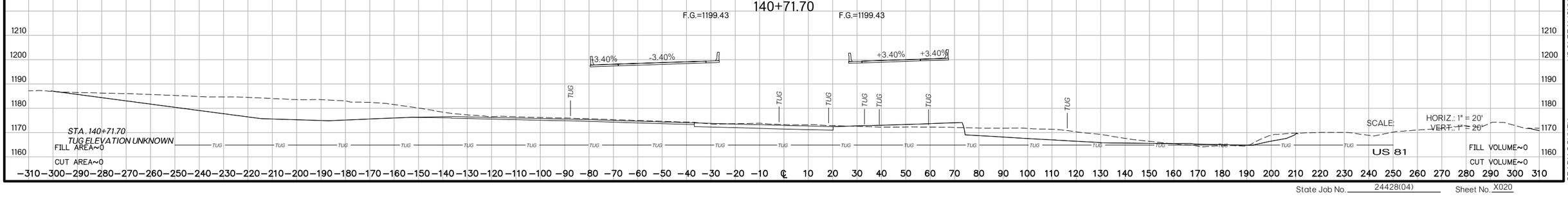
141+00

F.G.=1199.20 F.G.=1199.20



140+71.70

F.G.=1199.43 F.G.=1199.43



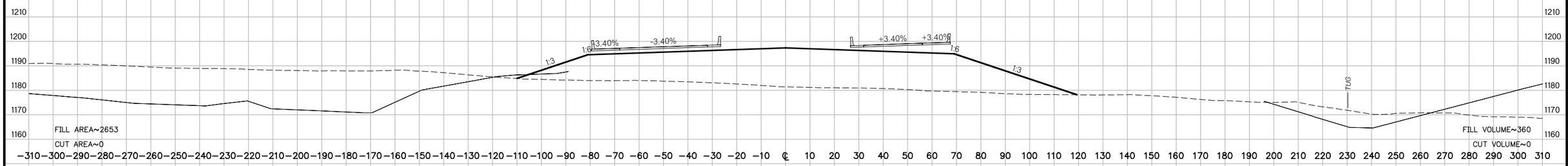
US 81 REALIGNMENT

GRADY COUNTY

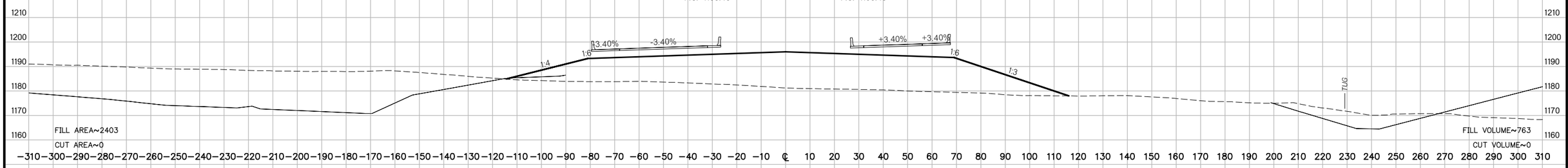
State Job No. 24428(04) Sheet No. X020

PROPOSED
R/W
AUGUST 2017

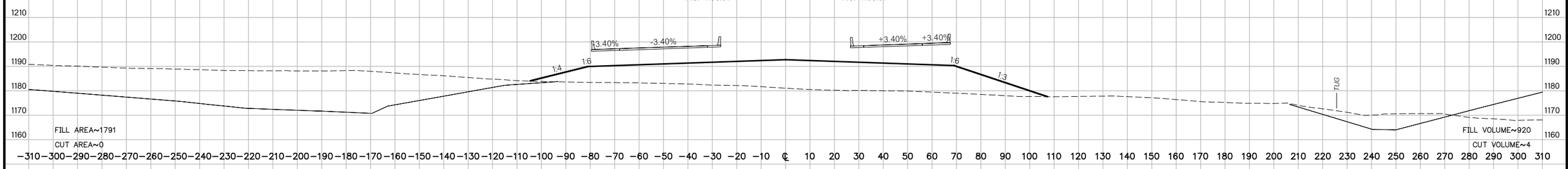
FIRST FULL STATION
142+00



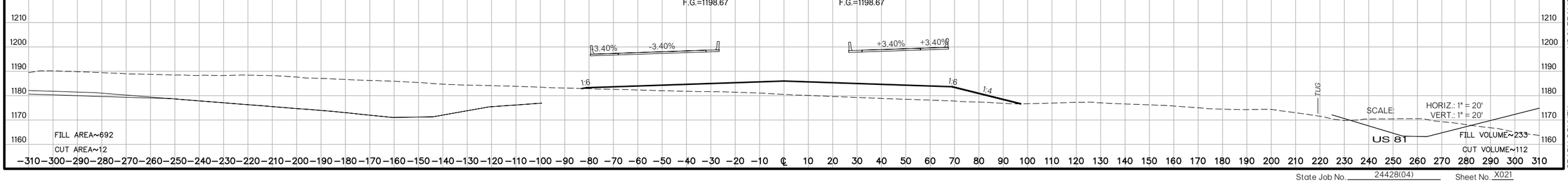
END BRIDGE D APPROACH
141+96.15



END BRIDGE C
141+86.33



END BRIDGE D
141+66.32

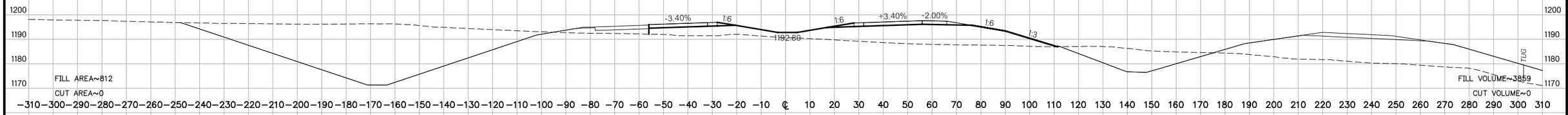


US 81 REALIGNMENT
GRADY COUNTY

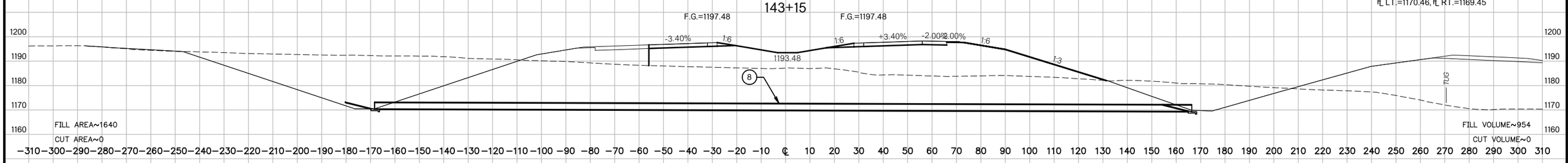
State Job No. 24428(04) Sheet No. X021

PROPOSED
R/W
AUGUST 2017

144+00

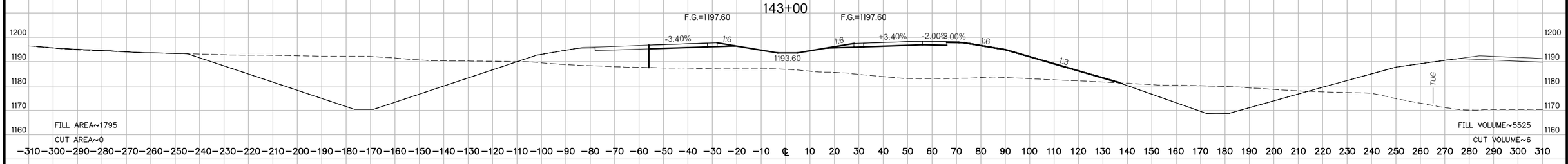


143+15

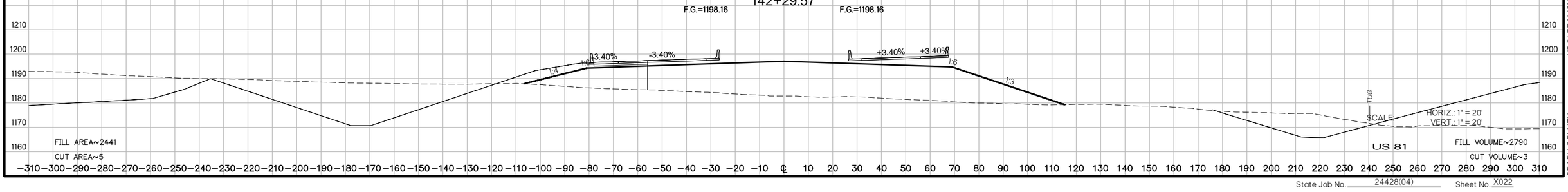


(8) STA. 143+15 ℄ SURVEY US 81, ON ℄
CONST. 36"X336' LG. RCP
169' LG. LT. & 167' LG. RT. W/ CETS
℄ LT.=1170.46, ℄ RT.=1169.45

143+00



END BRIDGE C APPROACH
142+29.57



SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

US 81

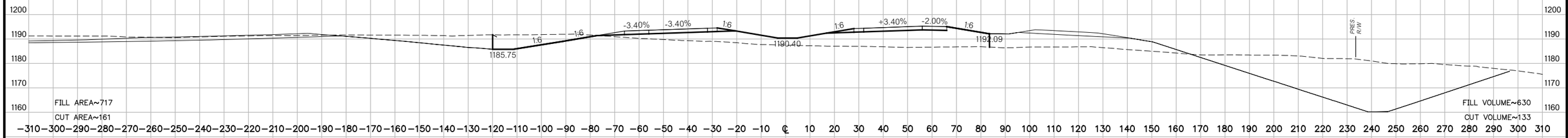
US 81 REALIGNMENT

GRADY COUNTY

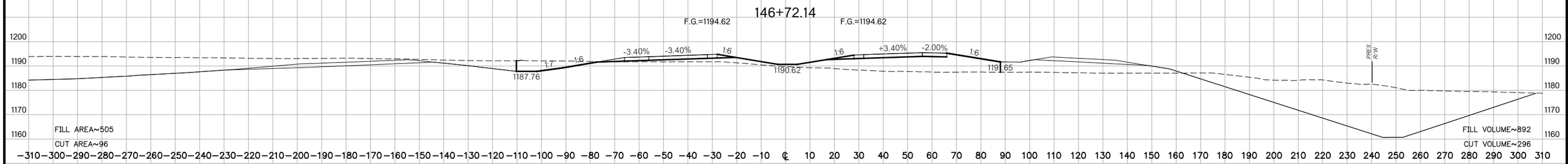
State Job No. 24428(04) Sheet No. X022

PROPOSED
R/W
AUGUST 2017

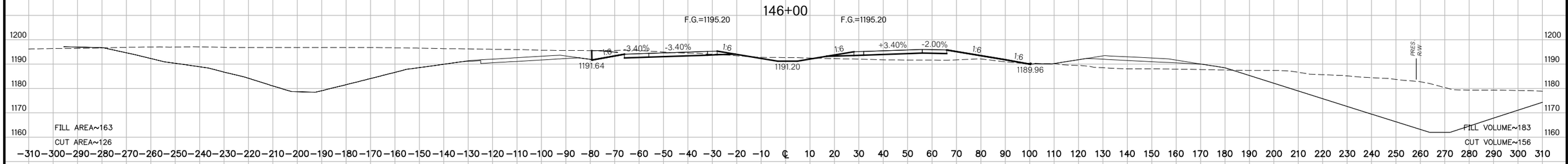
147+00



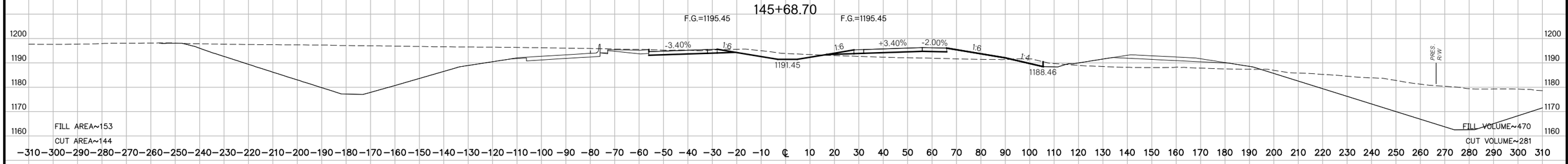
146+72.14



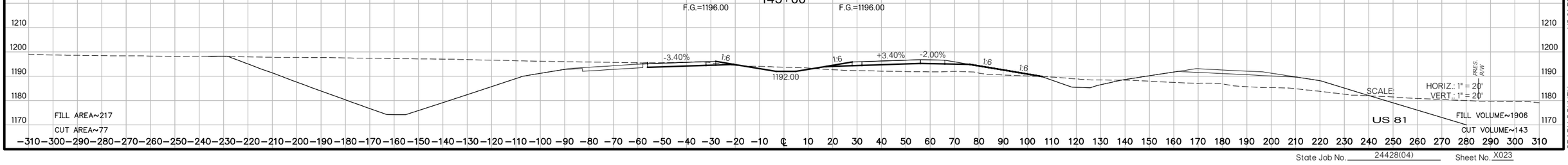
146+00



145+68.70



145+00

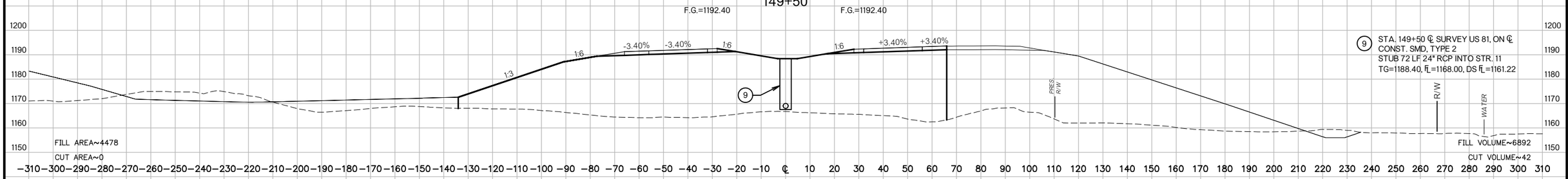


US 81 REALIGNMENT
GRADY COUNTY

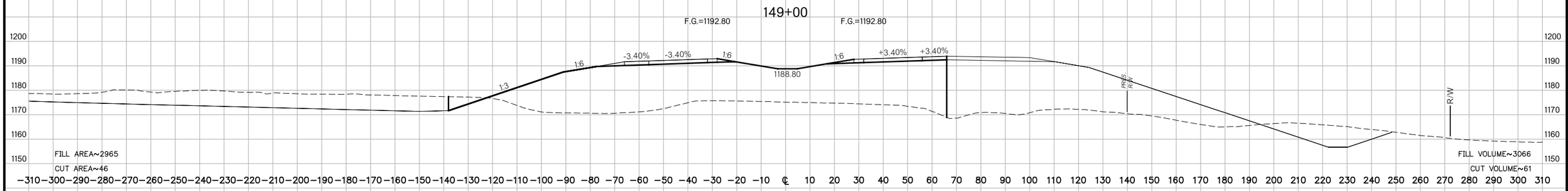
State Job No. 24428(04) Sheet No. X023

PROPOSED
R/W
AUGUST 2017

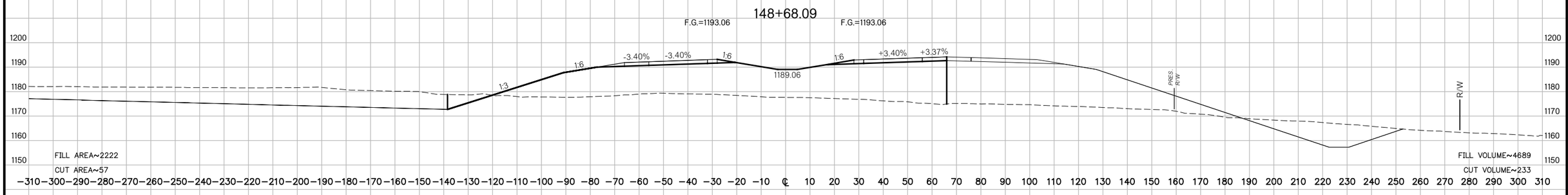
149+50



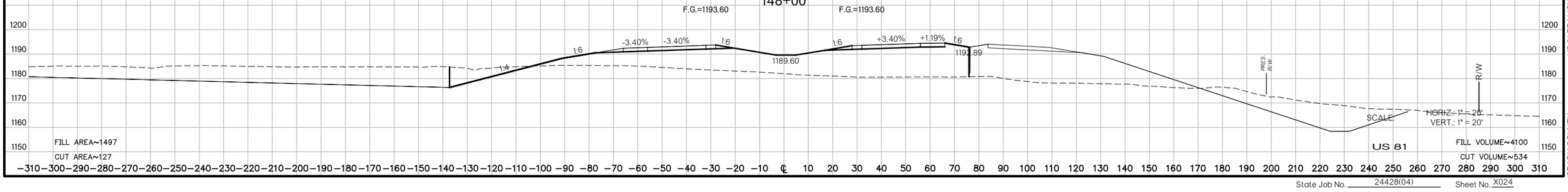
149+00



148+68.09



148+00

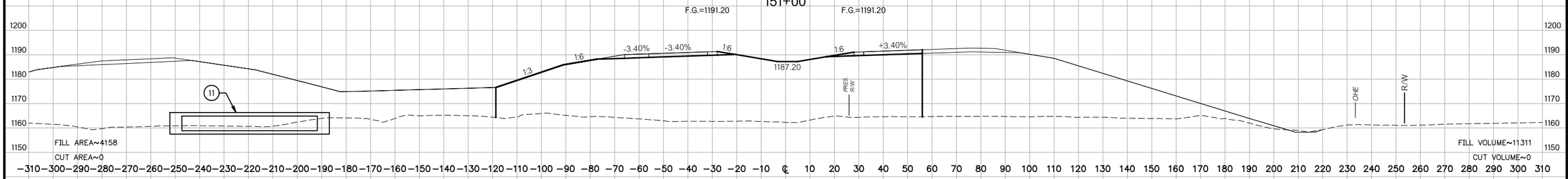


US 81 REALIGNMENT
GRADY COUNTY

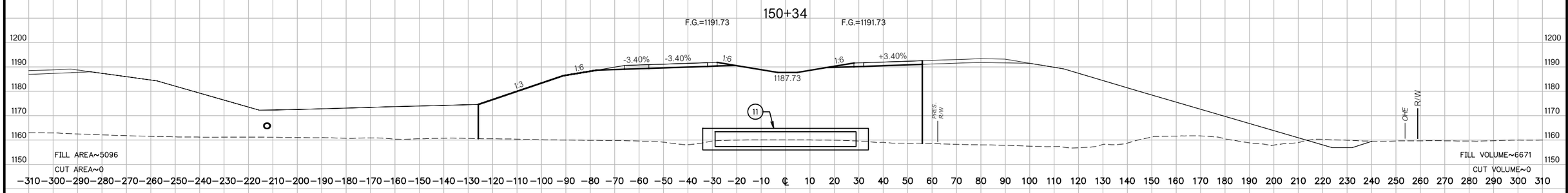
State Job No. 24428(04) Sheet No. X024

PROPOSED
R/W
AUGUST 2017

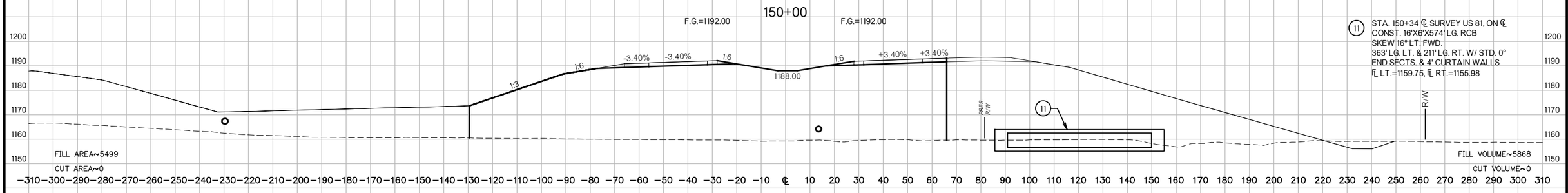
151+00



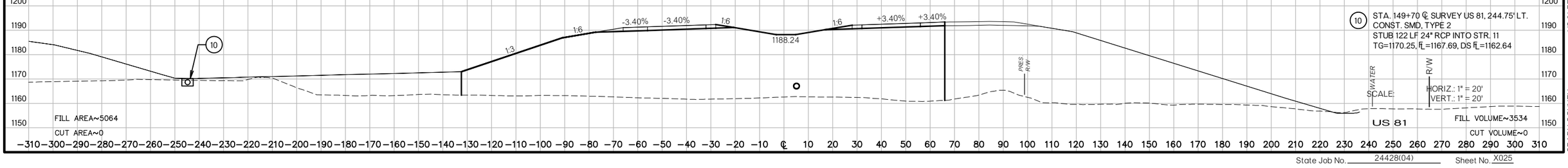
150+34



150+00



149+70

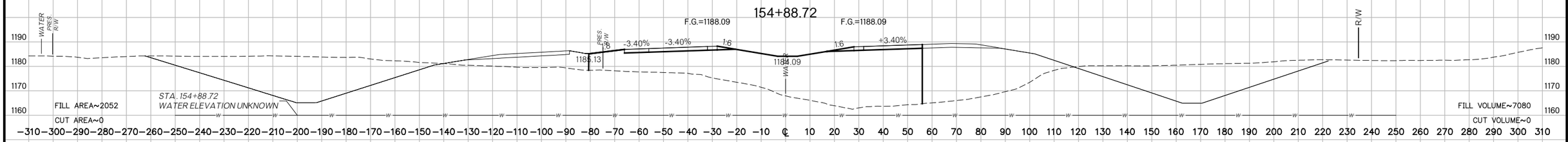


US 81 REALIGNMENT
GRADY COUNTY

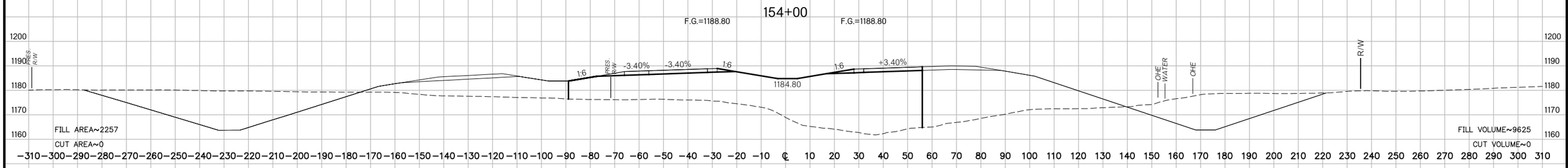
State Job No. 24428(04) Sheet No. X025

PROPOSED
R/W
AUGUST 2017

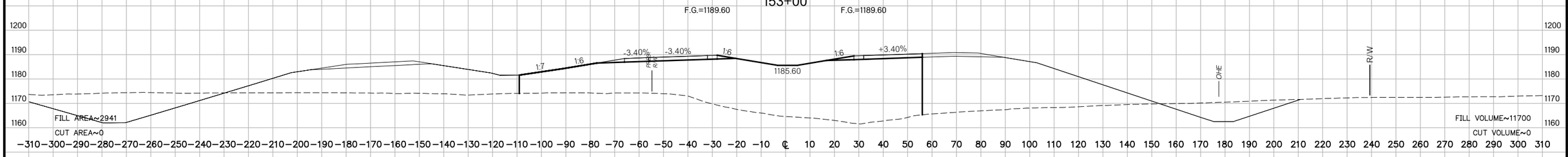
154+88.72



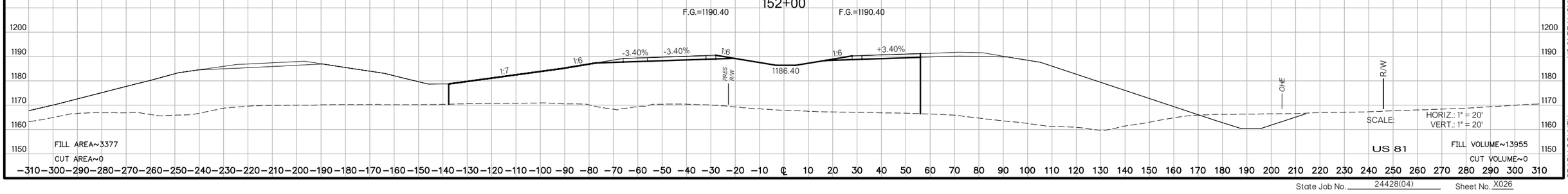
154+00



153+00



152+00

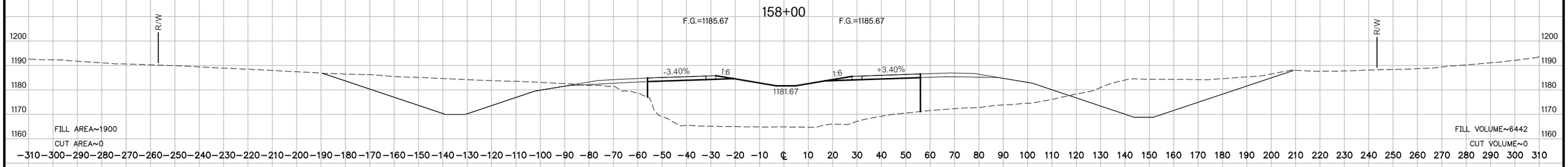


US 81 REALIGNMENT
GRADY COUNTY

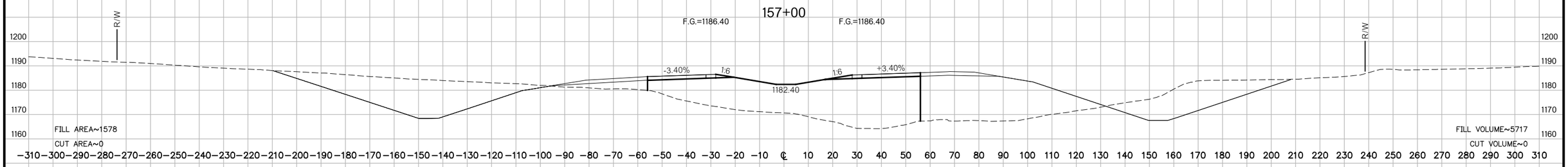
State Job No. 24428(04) Sheet No. X026

PROPOSED
R/W
AUGUST 2017

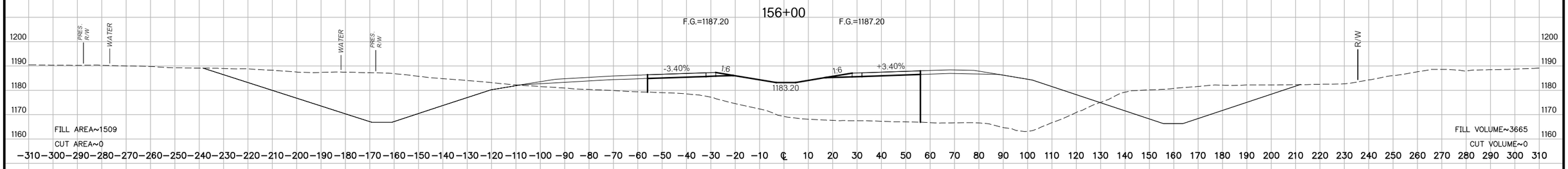
158+00



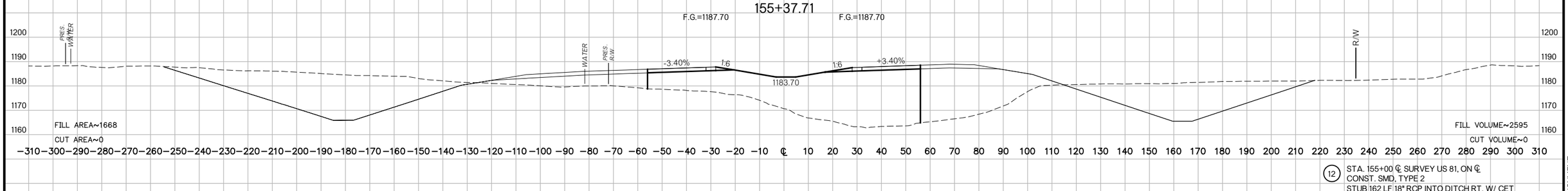
157+00



156+00

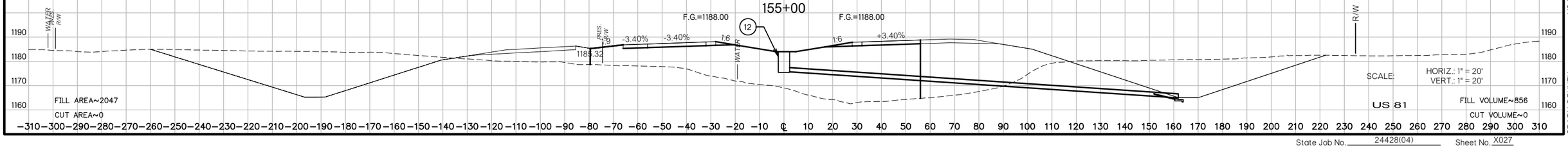


155+37.71



(12) STA. 155+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 162 LF 18" RCP INTO DITCH RT. W/ CET
TG=1184.00, FL=1176.00, DS FL=1165.07

155+00



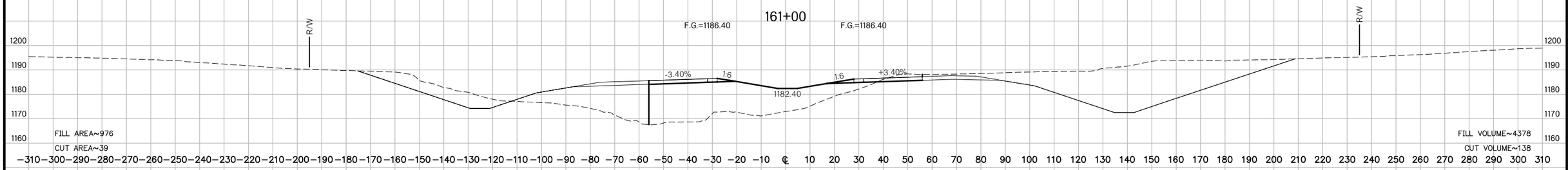
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X027

PROPOSED
R/W
AUGUST 2017

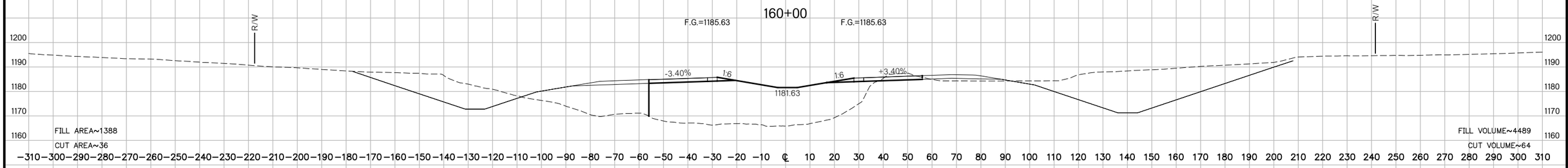
161+00

F.G.=1186.40 F.G.=1186.40



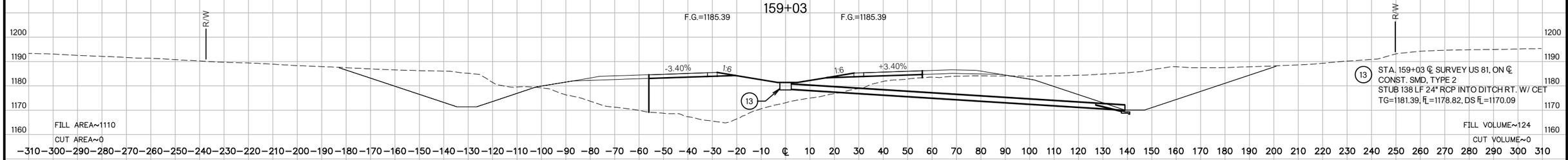
160+00

F.G.=1185.63 F.G.=1185.63



159+03

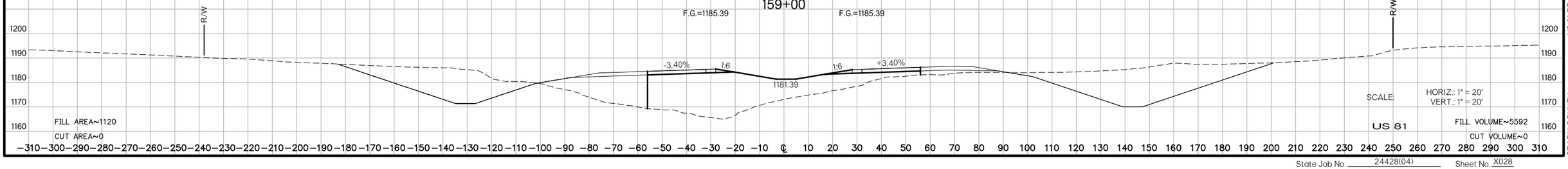
F.G.=1185.39 F.G.=1185.39



(13) STA. 159+03 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 138 LF 24" RCP INTO DITCH RT. W/ CET
TG=1181.39, FL=1178.82, DS FL=1170.09

159+00

F.G.=1185.39 F.G.=1185.39



SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

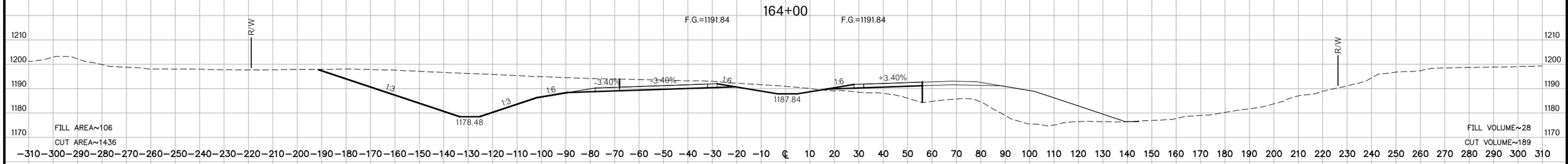
US 81

US 81 REALIGNMENT
GRADY COUNTY

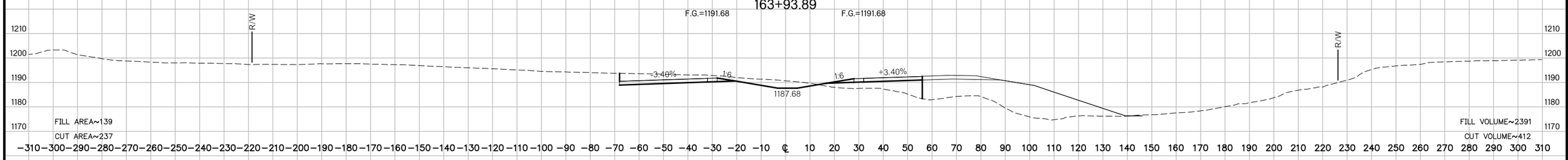
State Job No. 24428(04) Sheet No. X028

PROPOSED
R/W
AUGUST 2017

164+00

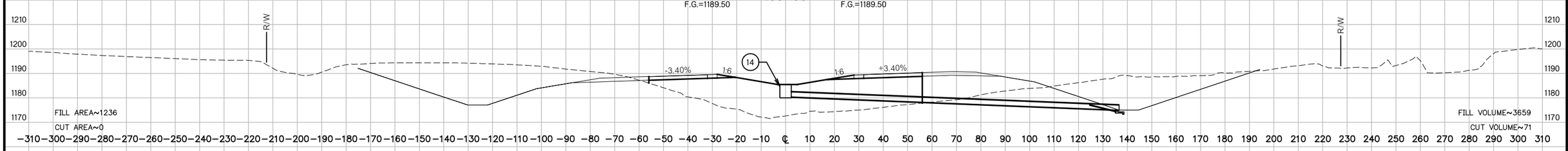


163+93.89

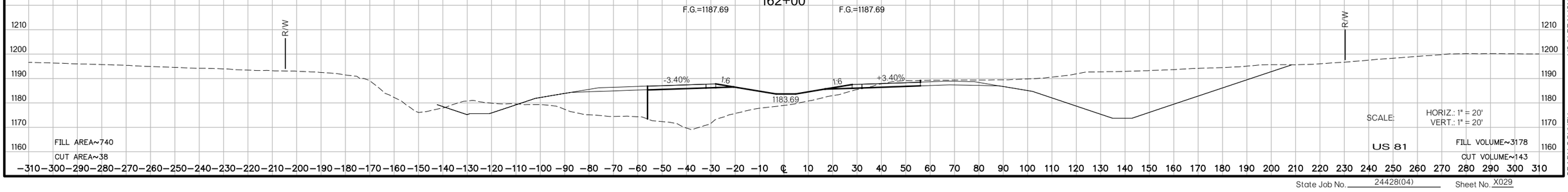


(14) STA. 163+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 136 LF 24" RCP INTO DITCH RT. W/ CET
TG=1185.50, FL=1180.50, DS FL=1175.04

163+00



162+00



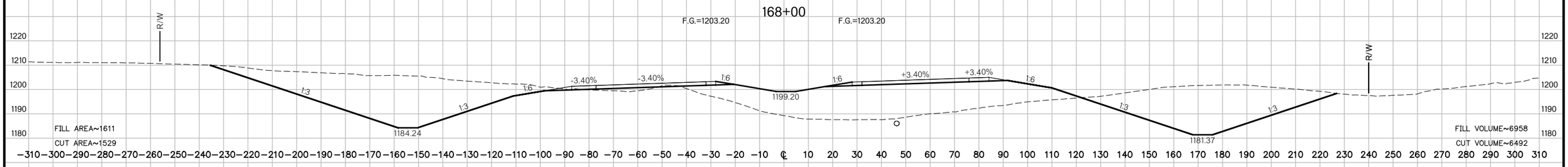
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

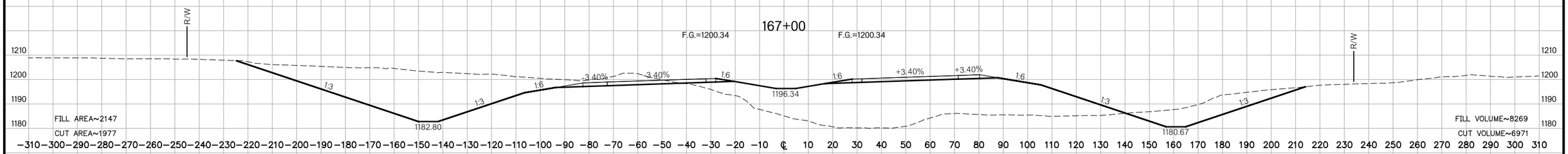
US 81

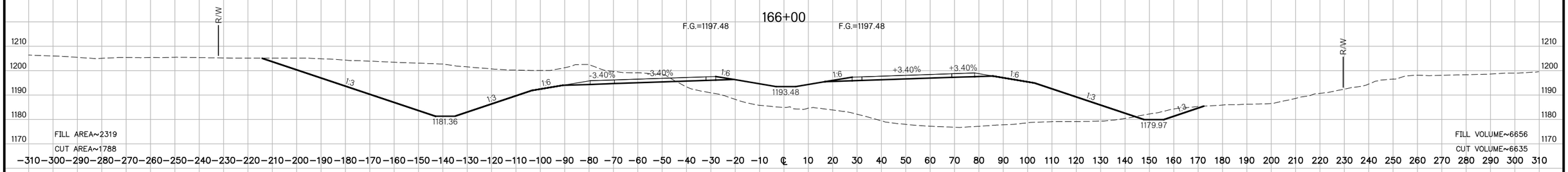
US 81 REALIGNMENT
GRADY COUNTY

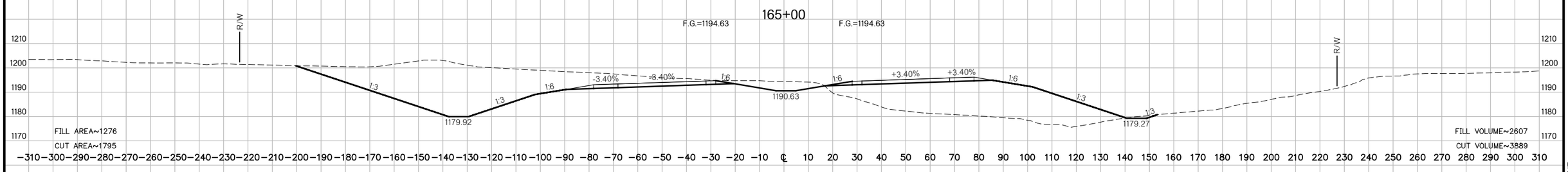
State Job No. 24428(04) Sheet No. X029

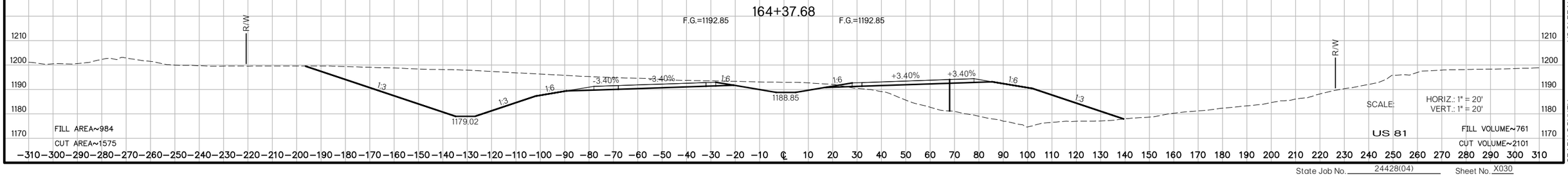
PROPOSED
R/W
AUGUST 2017









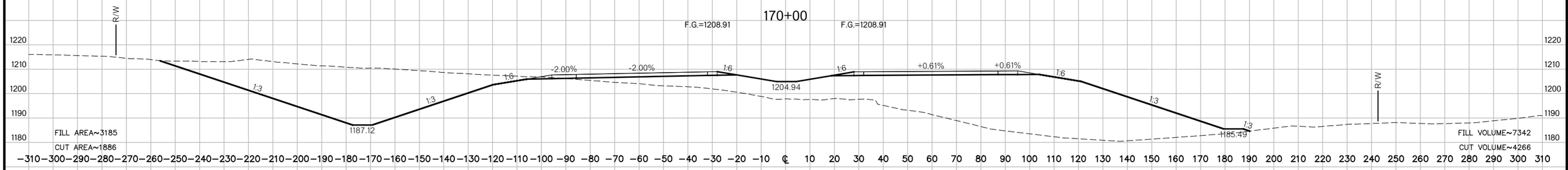


US 81 REALIGNMENT
GRADY COUNTY

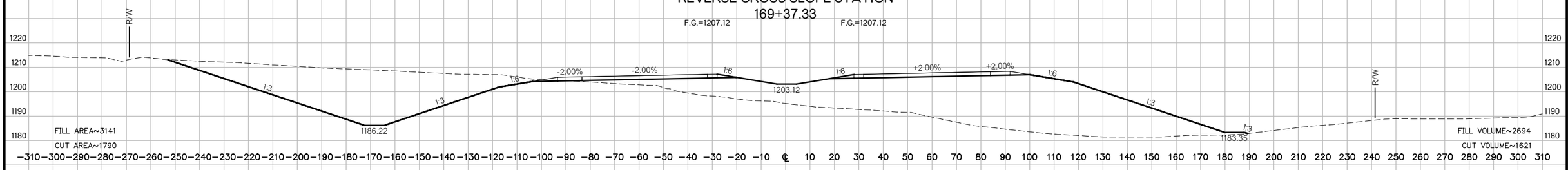
State Job No. 24428(04) Sheet No. X030

PROPOSED
R/W
AUGUST 2017

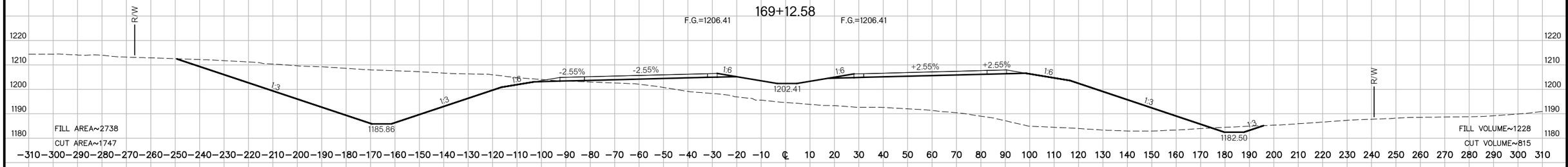
170+00



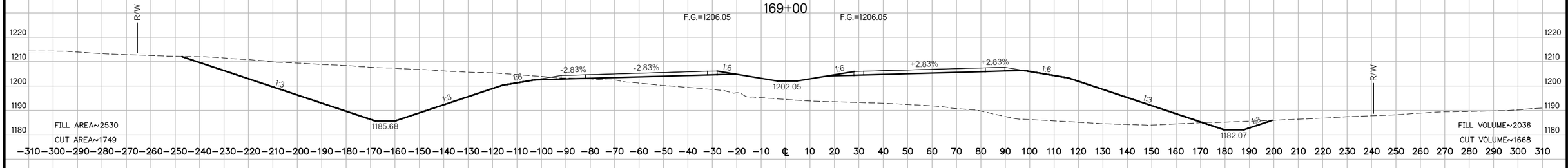
REVERSE CROSS SLOPE STATION
169+37.33



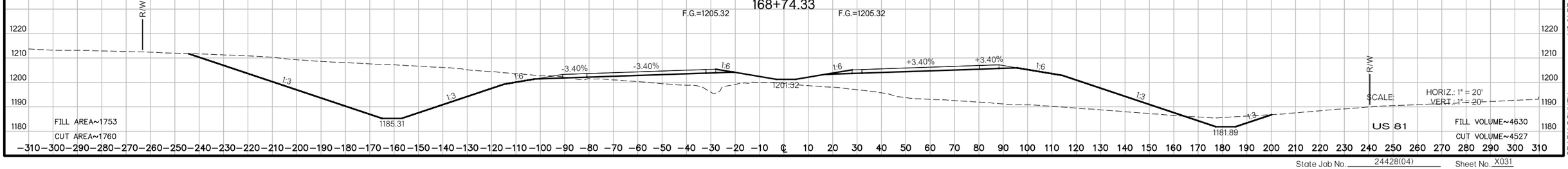
169+12.58



169+00



END FULL SUPER
168+74.33



US 81 REALIGNMENT
GRADY COUNTY

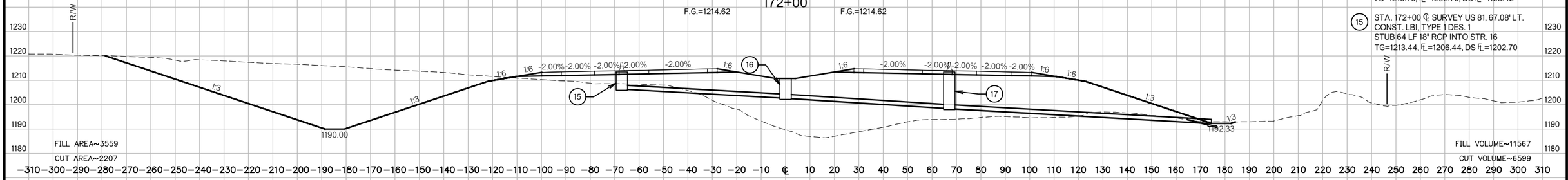
State Job No. 24428(04) Sheet No. X031

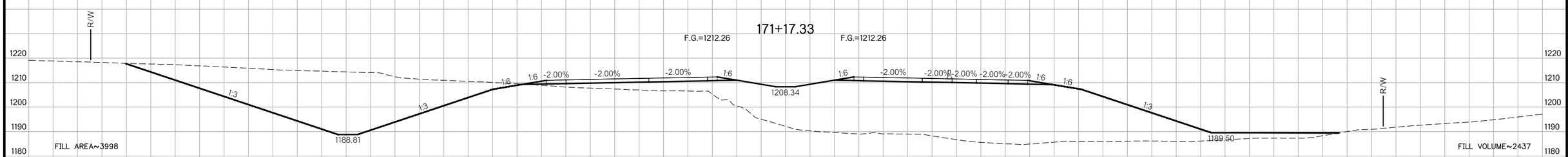
PROPOSED
R/W
AUGUST 2017

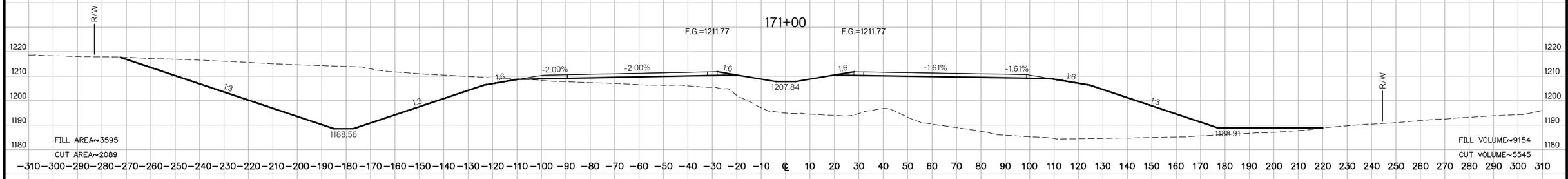
17 STA. 172+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 108 LF 18" RCP INTO DITCH RT. W/ CET
TG=1213.44, FL=1198.42, DS FL=1192.33

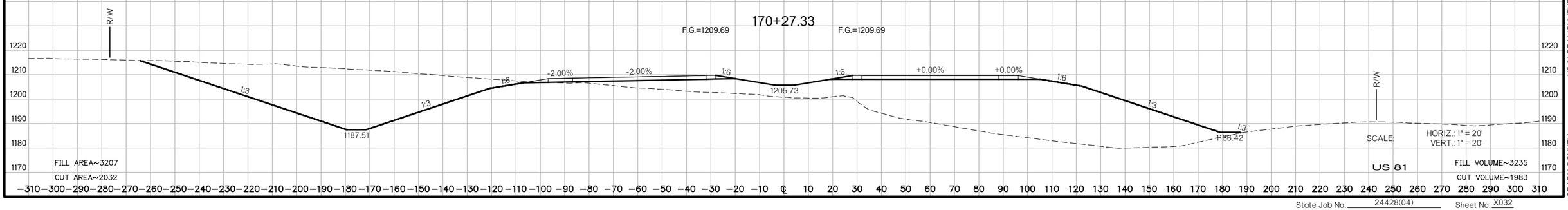
16 STA. 172+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 64 LF 18" RCP INTO STR. 17
TG=1210.70, FL=1202.70, DS FL=1198.42

15 STA. 172+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 64 LF 18" RCP INTO STR. 16
TG=1213.44, FL=1206.44, DS FL=1202.70







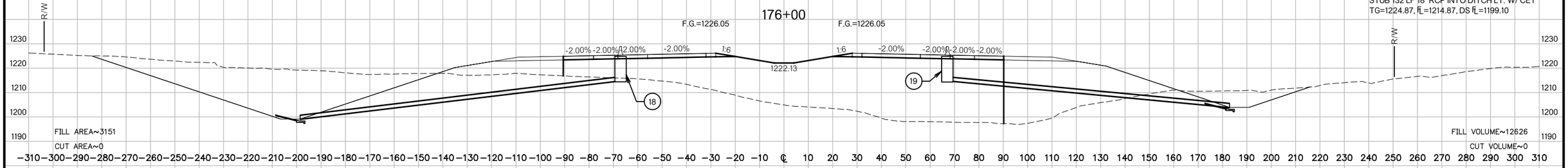


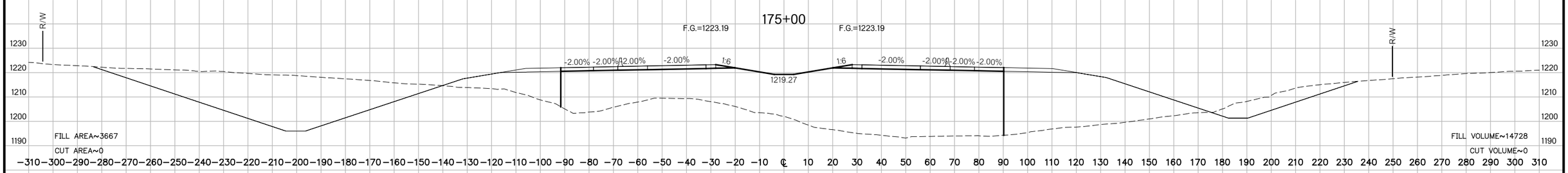
State Job No. 24428(04) Sheet No. X032

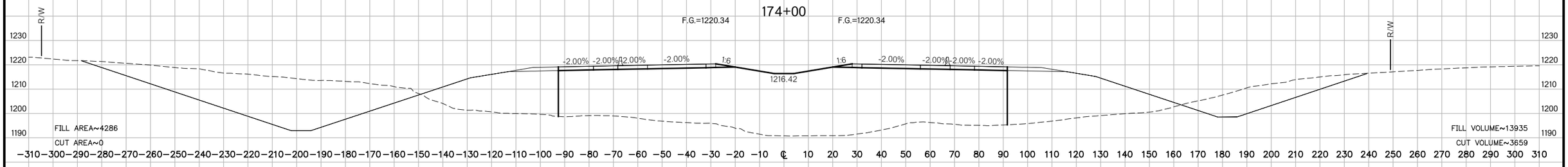
PROPOSED
R/W
AUGUST 2017

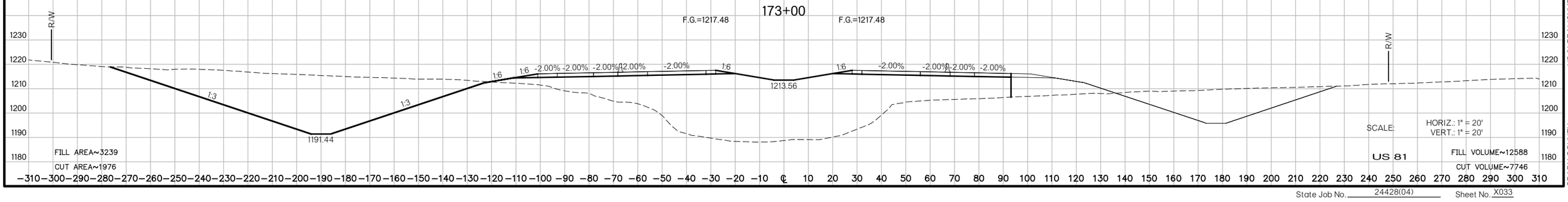
(19) STA. 176+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 116 LF 18" RCP INTO DITCH RT. W/ CET
TG=1224.87, FL=1214.85, DS FL=1203.94

(18) STA. 176+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 132 LF 18" RCP INTO DITCH LT. W/ CET
TG=1224.87, FL=1214.87, DS FL=1199.10









SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

US 81

US 81 REALIGNMENT

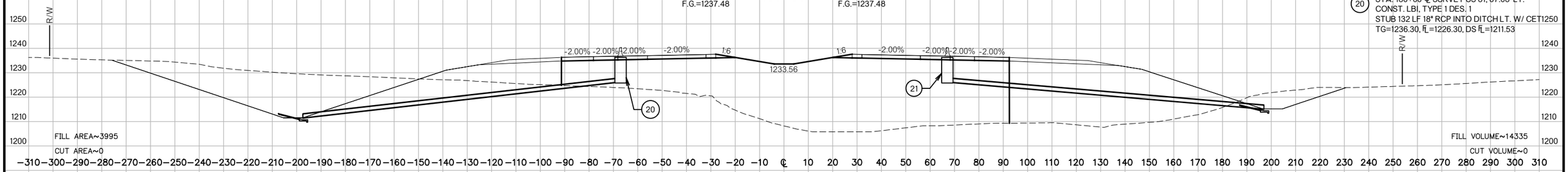
GRADY COUNTY

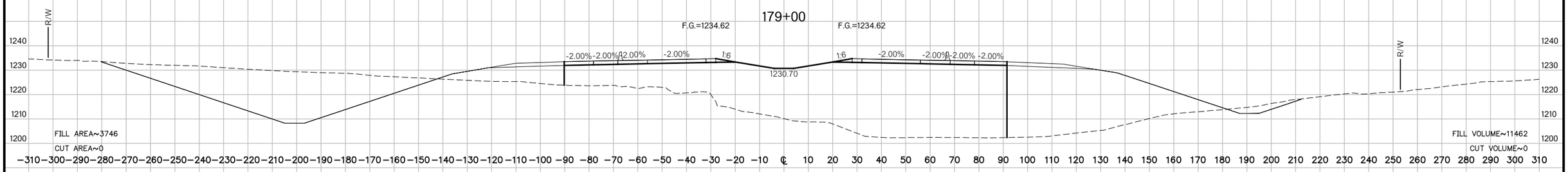
State Job No. 24428(04) Sheet No. X033

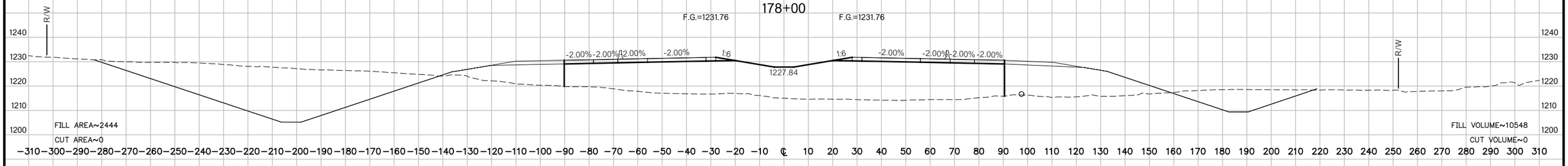
PROPOSED
R/W
AUGUST 2017

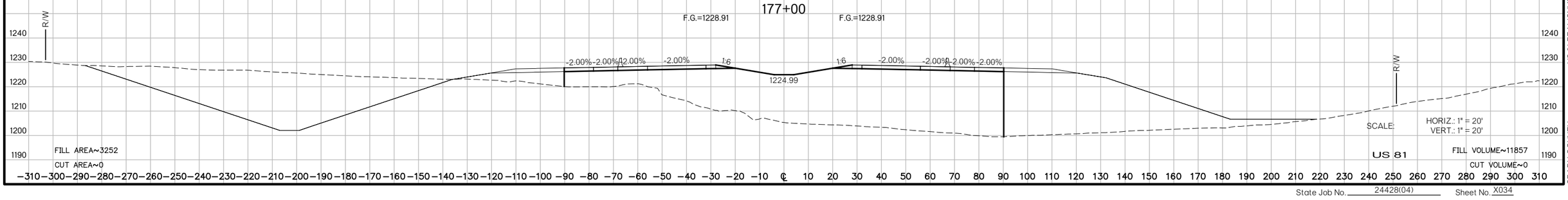
21 STA. 180+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 130 LF 18" RCP INTO DITCH RT. W/ CET
TG=1236.28, FL=1226.28, DS FL=1215.15

20 STA. 180+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 132 LF 18" RCP INTO DITCH LT. W/ CET
TG=1236.30, FL=1226.30, DS FL=1211.53









SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

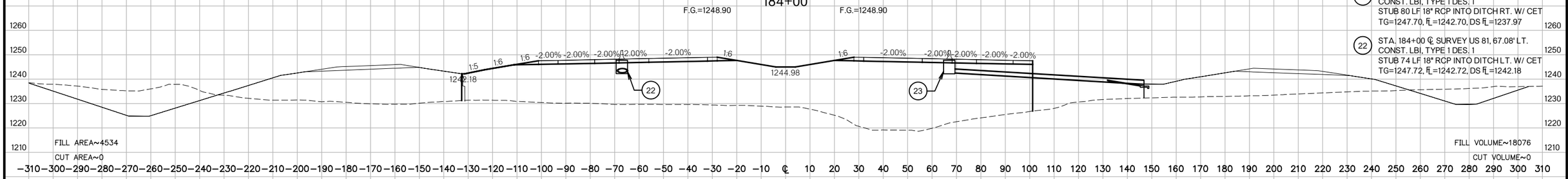
US 81

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X034

PROPOSED
R/W
AUGUST 2017

184+00



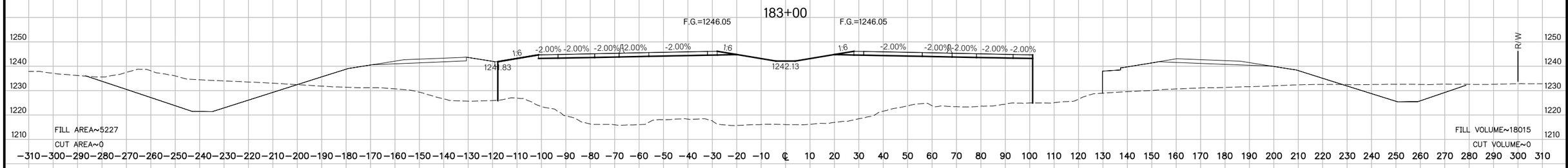
FILL AREA~4534
CUT AREA~0

FILL VOLUME~18076
CUT VOLUME~0

(23) STA. 184+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 80 LF 18" RCP INTO DITCH RT. W/ CET
TG=1247.70, FL=1242.70, DS FL=1237.97

(22) STA. 184+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 74 LF 18" RCP INTO DITCH LT. W/ CET
TG=1247.72, FL=1242.72, DS FL=1242.18

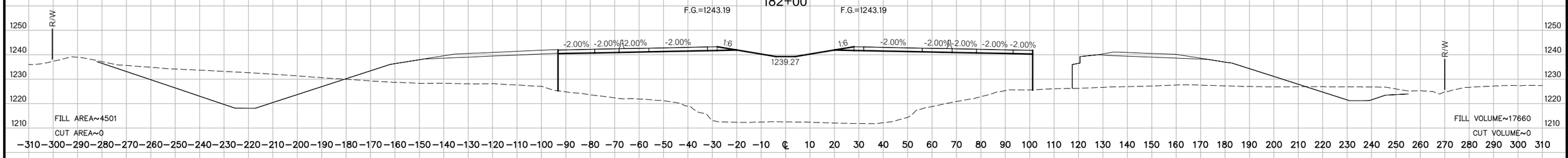
183+00



FILL AREA~5227
CUT AREA~0

FILL VOLUME~18015
CUT VOLUME~0

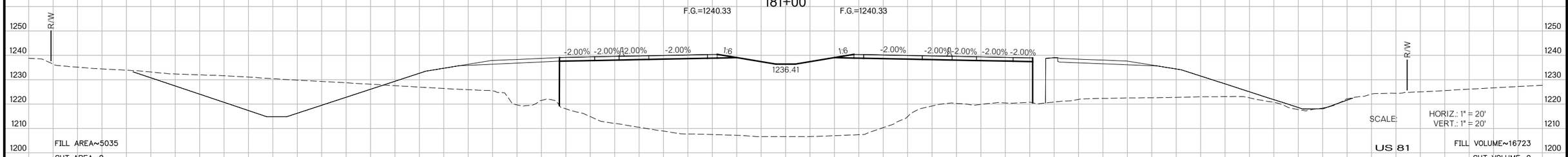
182+00



FILL AREA~4501
CUT AREA~0

FILL VOLUME~17660
CUT VOLUME~0

181+00



FILL AREA~5035
CUT AREA~0

SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

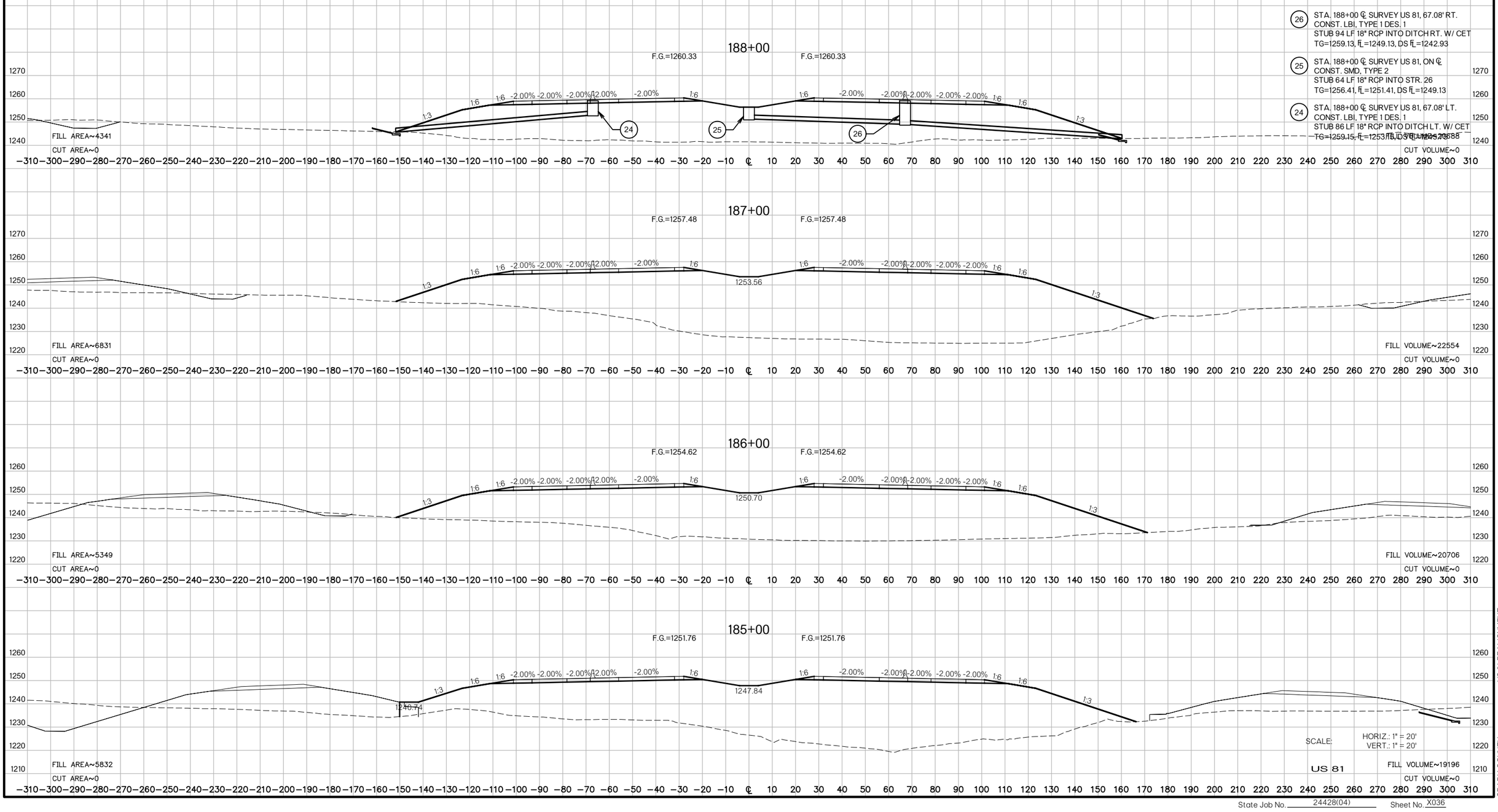
US 81

FILL VOLUME~16723
CUT VOLUME~0

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X035

PROPOSED
R/W
AUGUST 2017



(26) STA. 188+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 94 LF 18" RCP INTO DITCH RT. W/ CET
TG=1259.13, FL=1249.13, DS FL=1242.93

(25) STA. 188+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 64 LF 18" RCP INTO STR. 26
TG=1256.41, FL=1251.41, DS FL=1249.13

(24) STA. 188+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 86 LF 18" RCP INTO DITCH LT. W/ CET
TG=1259.15, FL=1253.15, DS FL=1252.65

US 81 REALIGNMENT

GRADY COUNTY

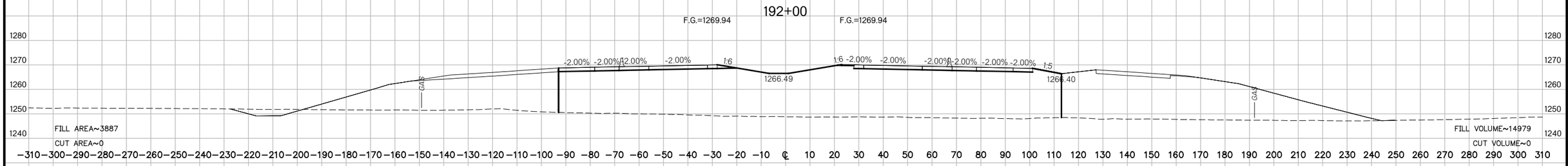
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

US 81

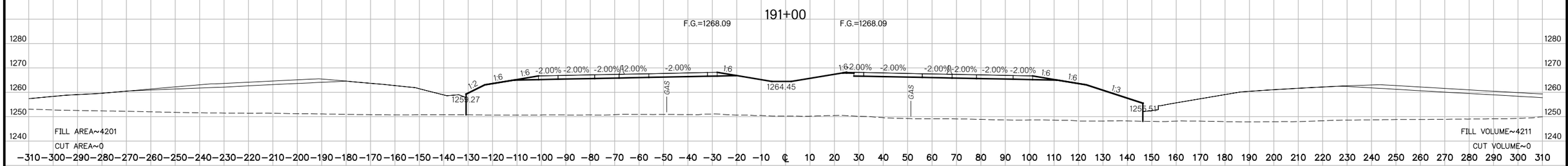
State Job No. 24428(04) Sheet No. X036

PROPOSED
R/W
AUGUST 2017

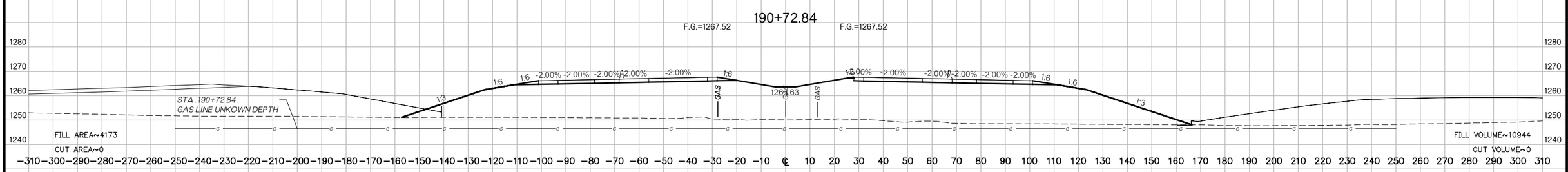
192+00



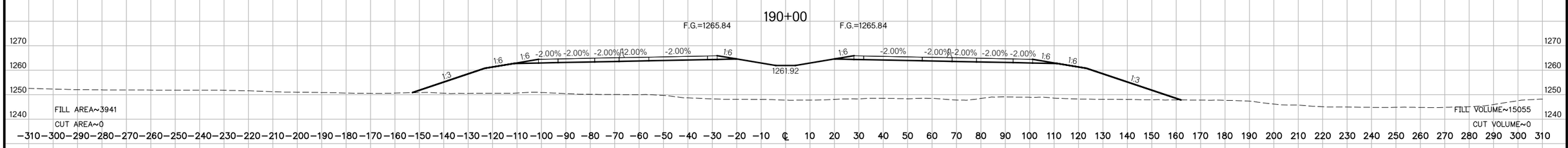
191+00



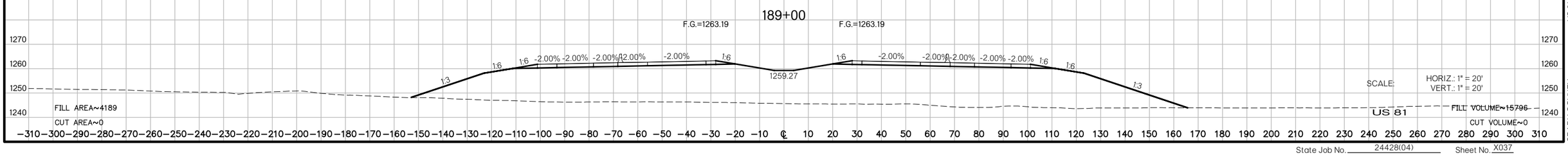
190+72.84



190+00



189+00



SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

US 81

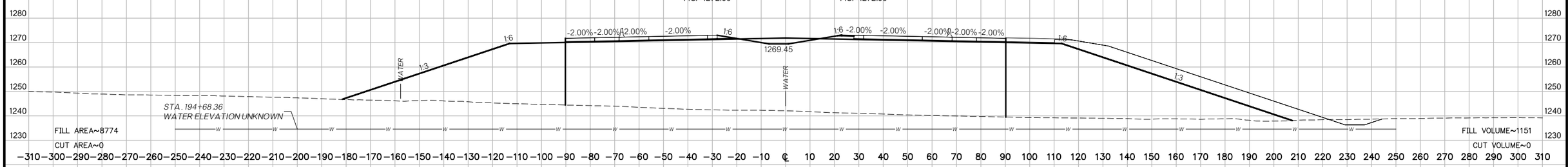
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X037

PROPOSED
R/W
AUGUST 2017

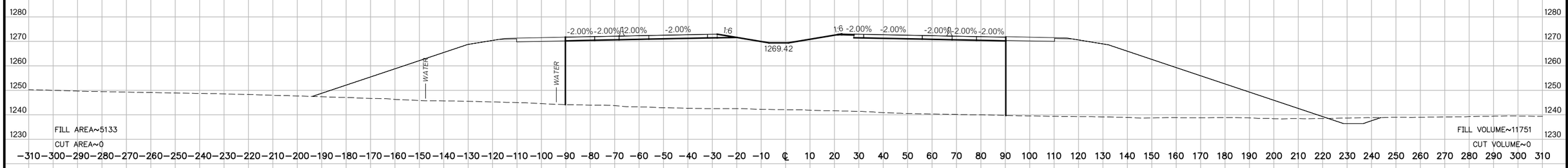
194+68.36

F.G.=1272.90 F.G.=1272.90



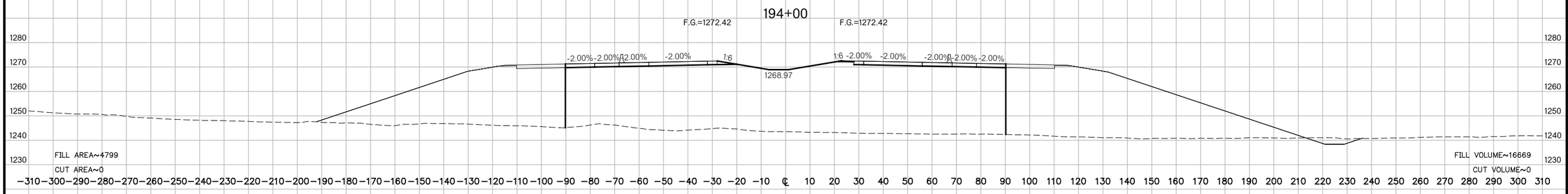
BEGIN APPROACH BRIDGE E
194+63.89

F.G.=1272.88 F.G.=1272.88



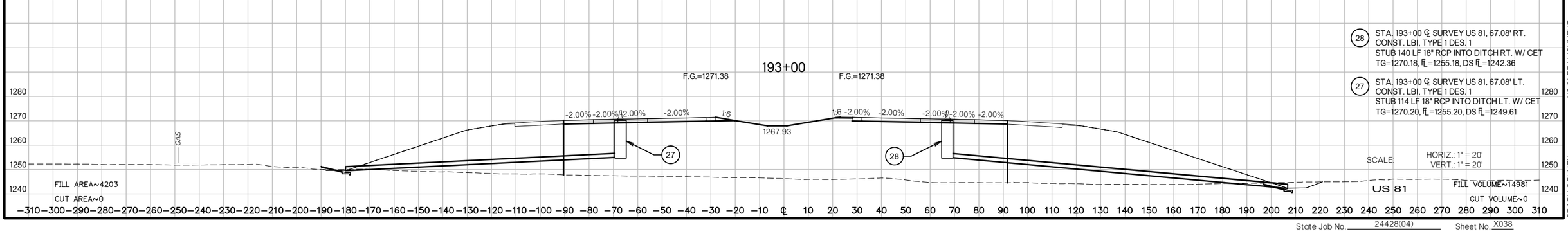
194+00

F.G.=1272.42 F.G.=1272.42



193+00

F.G.=1271.38 F.G.=1271.38



(28) STA. 193+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 140 LF 18" RCP INTO DITCH RT. W/ CET
TG=1270.18, FL=1255.18, DS FL=1242.36

(27) STA. 193+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 114 LF 18" RCP INTO DITCH LT. W/ CET
TG=1270.20, FL=1255.20, DS FL=1249.61

SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

US 81

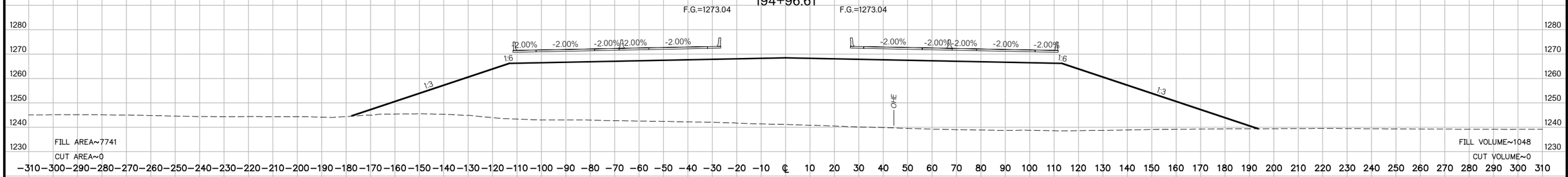
US 81 REALIGNMENT

GRADY COUNTY

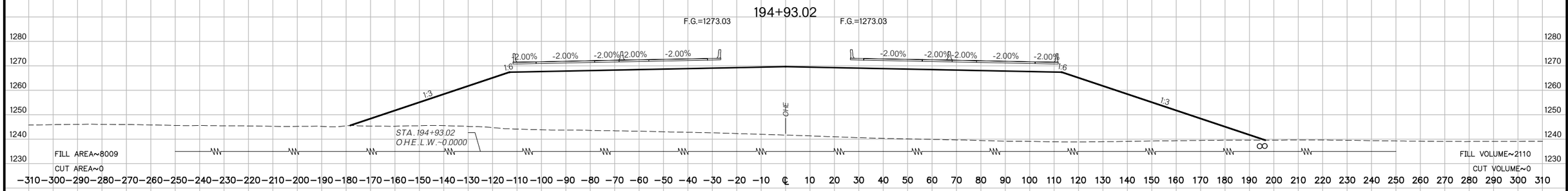
State Job No. 24428(04) Sheet No. X038

PROPOSED
R/W
AUGUST 2017

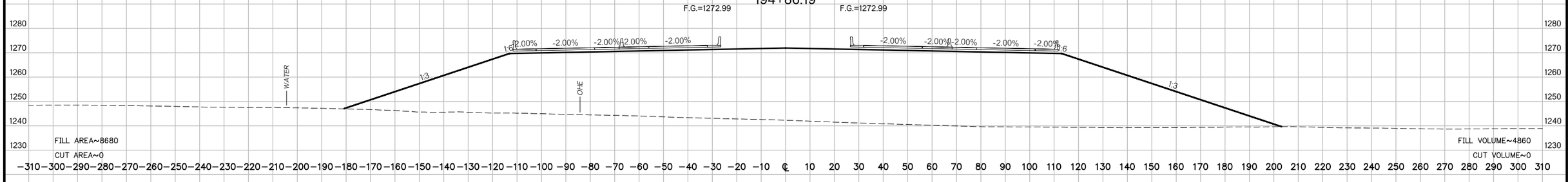
BEGIN BRIDGE E
194+96.61



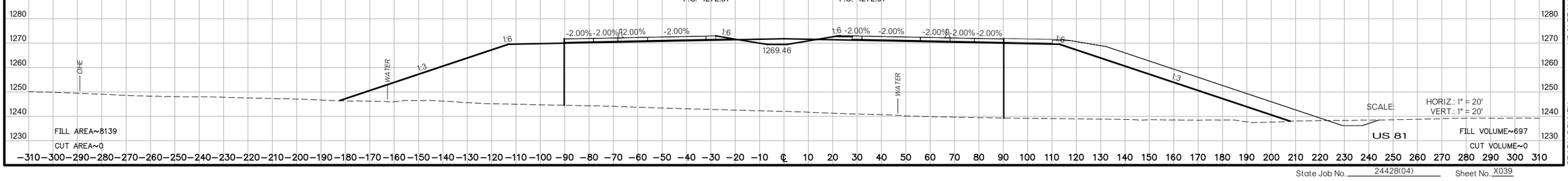
194+93.02



LAST FULL STATION
194+86.19



BEGIN APPROACH BRIDGE F
194+70.59

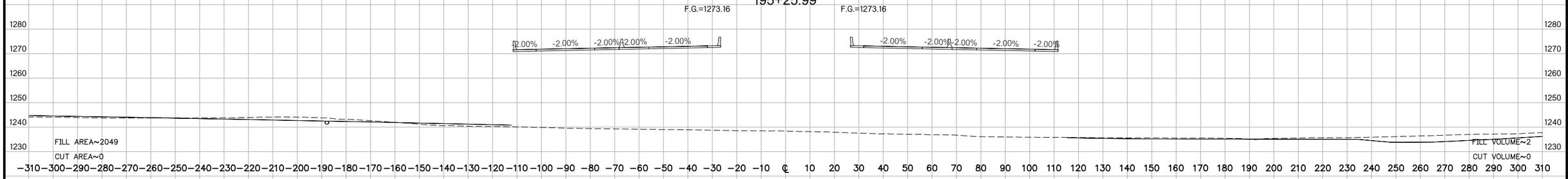


US 81 REALIGNMENT
GRADY COUNTY

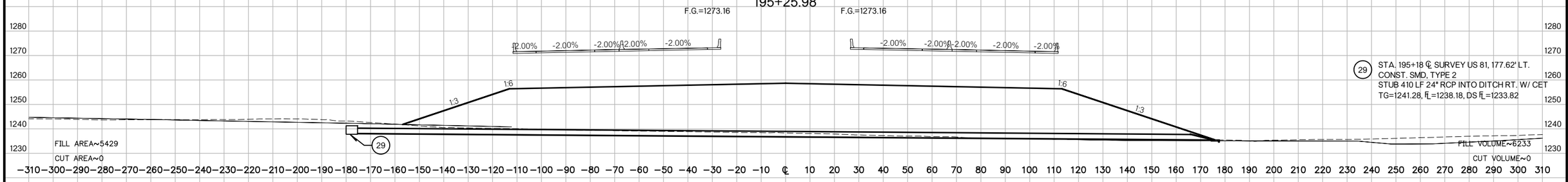
State Job No. 24428(04) Sheet No. X039

PROPOSED
R/W
AUGUST 2017

BEGIN EARTHWORK EXCEPTION
195+25.99

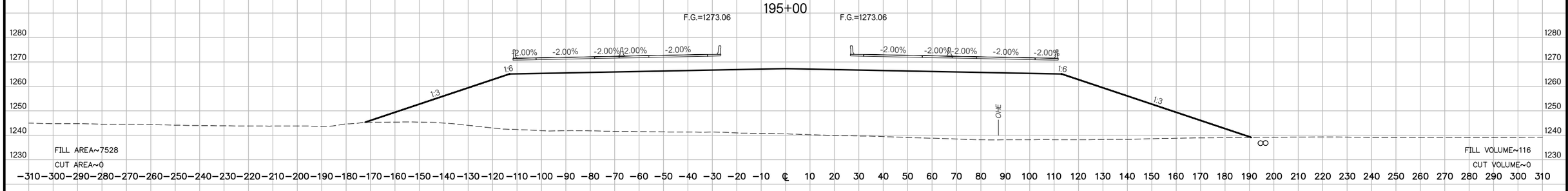


195+25.98

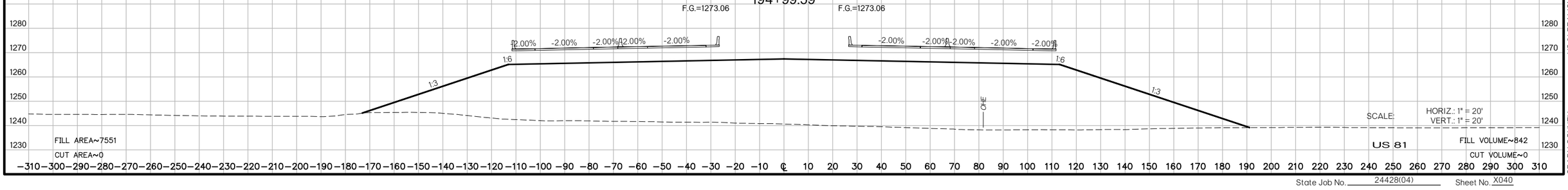


(29) STA. 195+18 ℄ SURVEY US 81, 177.62' LT.
CONST. SMD, TYPE 2
STUB 410 LF 24" RCP INTO DITCH RT. W/ CET
TG=1241.28, FL=1238.18, DS FL=1233.82

195+00



BEGIN BRIDGE F
194+99.59



SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

US 81

US 81 REALIGNMENT
GRADY COUNTY

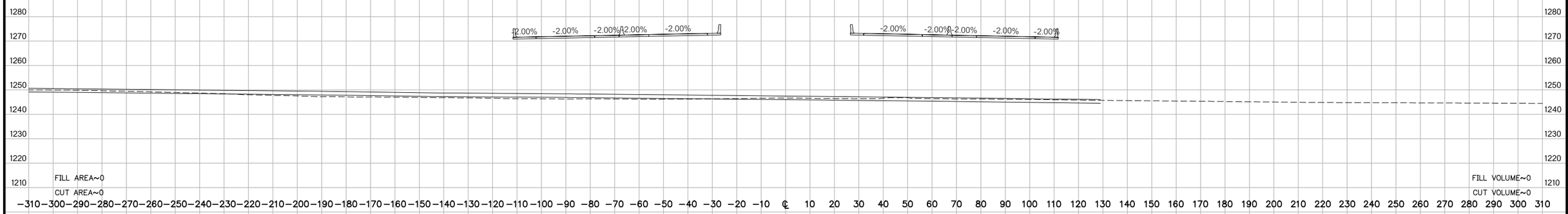
State Job No. 24428(04) Sheet No. X040

PROPOSED
R/W
AUGUST 2017

197+00

F.G.=1273.12

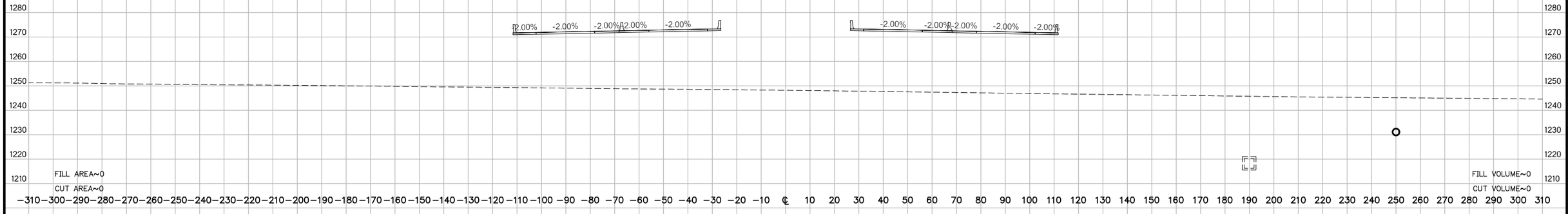
F.G.=1273.12



196+51.96

F.G.=1273.25

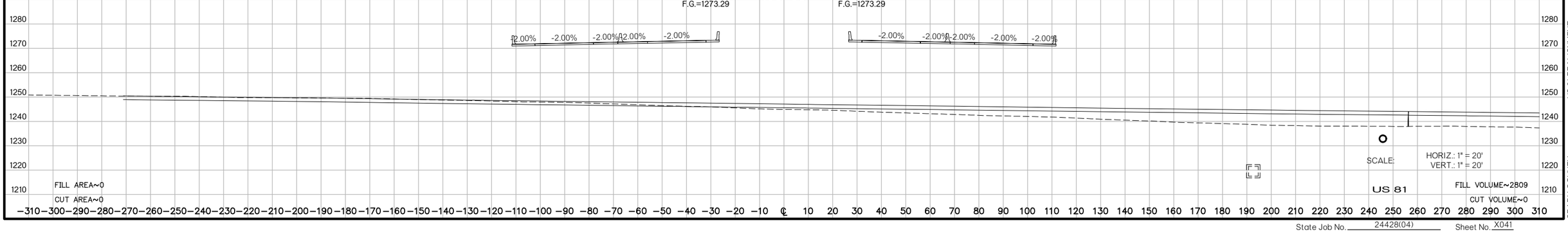
F.G.=1273.25



196+00

F.G.=1273.29

F.G.=1273.29



US 81 REALIGNMENT

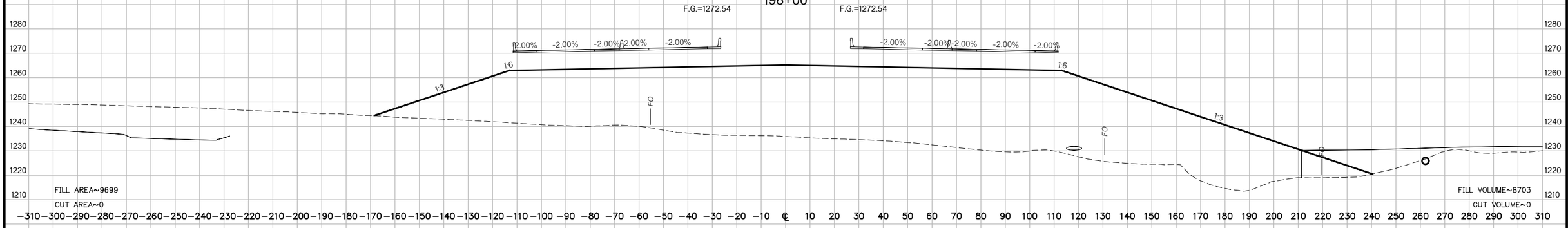
GRADY COUNTY

State Job No. 24428(04) Sheet No. X041

PROPOSED
R/W
AUGUST 2017

198+00

F.G.=1272.54 F.G.=1272.54

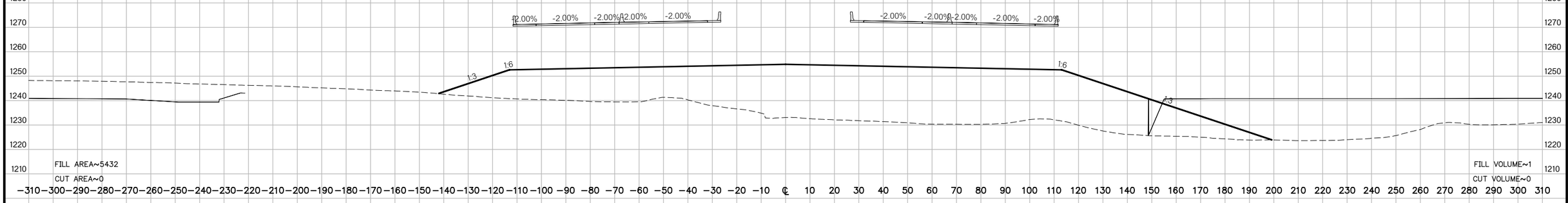


FILL AREA~9699
CUT AREA~0

FILL VOLUME~8703
CUT VOLUME~0

197+68.94

F.G.=1272.76 F.G.=1272.76



FILL AREA~5432
CUT AREA~0

FILL VOLUME~1
CUT VOLUME~0

END EARTHWORK EXCEPTION
197+68.93

F.G.=1272.76 F.G.=1272.76

FILL AREA~0
CUT AREA~0

SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

US 81

FILL VOLUME~0
CUT VOLUME~0

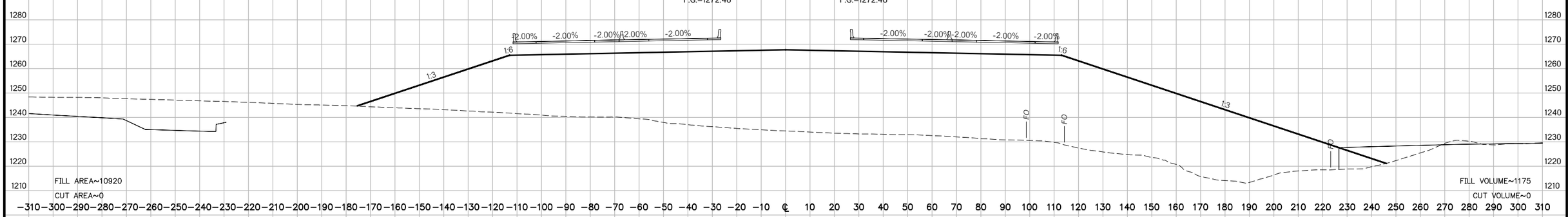
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X042

PROPOSED
R/W
AUGUST 2017

END BRIDGE F
198+07.59

F.G.=1272.48 F.G.=1272.48

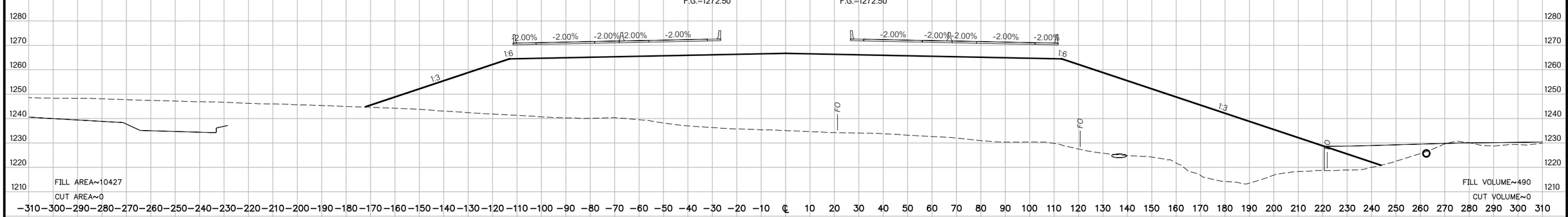


FILL AREA~10920
CUT AREA~0

FILL VOLUME~1175
CUT VOLUME~0

END BRIDGE E
198+04.61

F.G.=1272.50 F.G.=1272.50

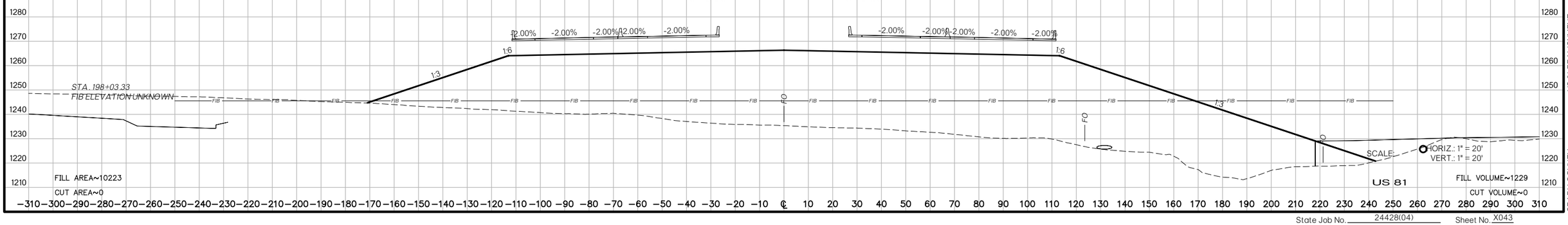


FILL AREA~10427
CUT AREA~0

FILL VOLUME~490
CUT VOLUME~0

198+03.33

F.G.=1272.51 F.G.=1272.51



FILL AREA~10223
CUT AREA~0

SCALE:
HORIZ.: 1" = 20'
VERT.: 1" = 20'

US 81

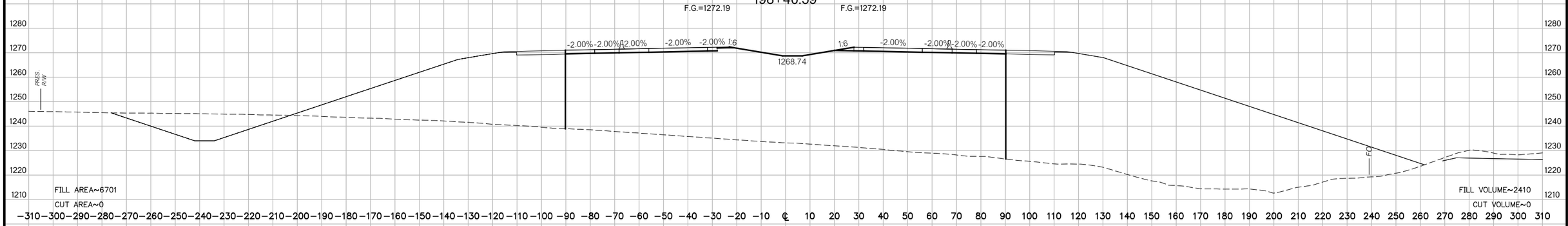
FILL VOLUME~1229
CUT VOLUME~0

US 81 REALIGNMENT
GRADY COUNTY

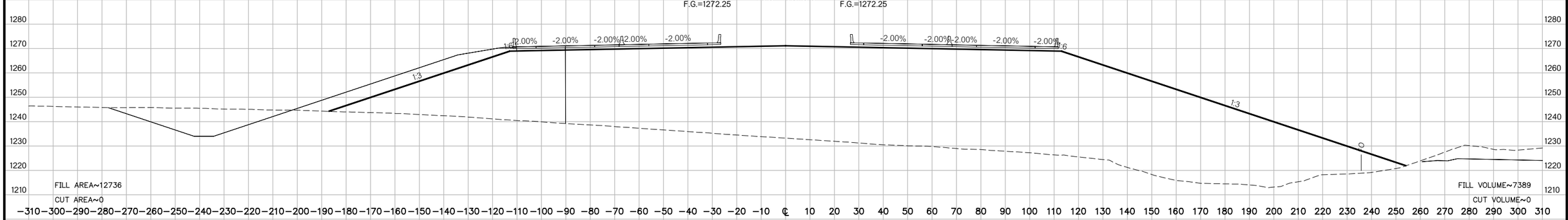
State Job No. 24428(04) Sheet No. X043

PROPOSED
R/W
AUGUST 2017

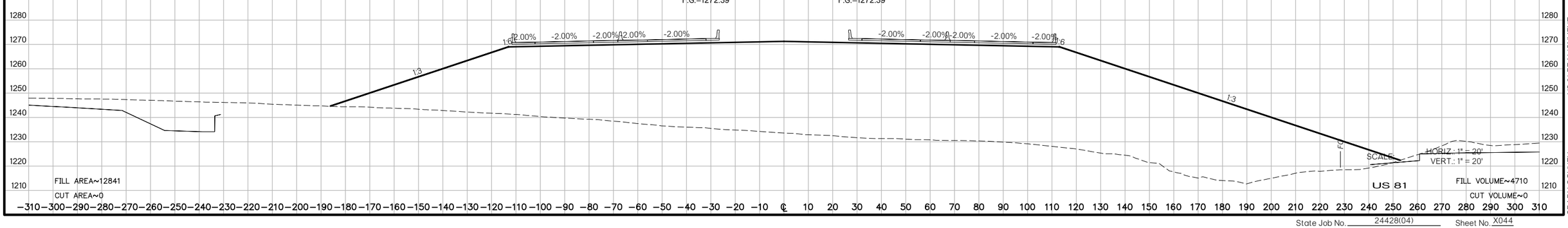
END APPROACH BRIDGE F
198+40.59



END APPROACH BRIDGE E
198+33.89



FIRST FULL STATION
198+18.29



US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X044

PROPOSED
R/W
AUGUST 2017

201+00

F.G.=1268.39 F.G.=1268.39

1:7 -2.00% -2.00% -2.00% -2.00% -2.00% -2.00% 1:6 1:6 -2.00% -2.00% -2.00% -2.00%

1265.78 1264.93

FILL AREA~8246
CUT AREA~0

FILL VOLUME~27964
CUT VOLUME~0

200+00

F.G.=1270.18 F.G.=1270.18

-2.00% -2.00% -2.00% -2.00% -2.00% 1:6 1:6 -2.00% -2.00% -2.00% -2.00%

1266.72

(30) STA. 200+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 130 LF 18" RCP INTO STR. 31
TG=1269.00, FL=1263.97, DS FL=1253.97

(31) STA. 200+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 194 LF 18" RCP INTO DITCH RT. W/ CET
TG=1268.97, FL=1253.97, DS FL=1221.89

PROP. R/W

FILL AREA~6855
CUT AREA~0

FILL VOLUME~25135
CUT VOLUME~0

199+00

F.G.=1271.56 F.G.=1271.56

-2.00% -2.00% -2.00% -2.00% -2.00% 1:6 1:6 -2.00% -2.00% -2.00% -2.00%

1268.11

(69) STA. 199+00 ℄ SURVEY US 81, ON ℄
CONST. 30"X494' LG. RCP
232.50' LG. LT. & 261.50' LG. RT. W/ CETS
FL LT.=1233.84, FL RT.=1223.72

PROP. R/W FO

SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

US 81

FILL AREA~6718
CUT AREA~0

FILL VOLUME~14764
CUT VOLUME~0

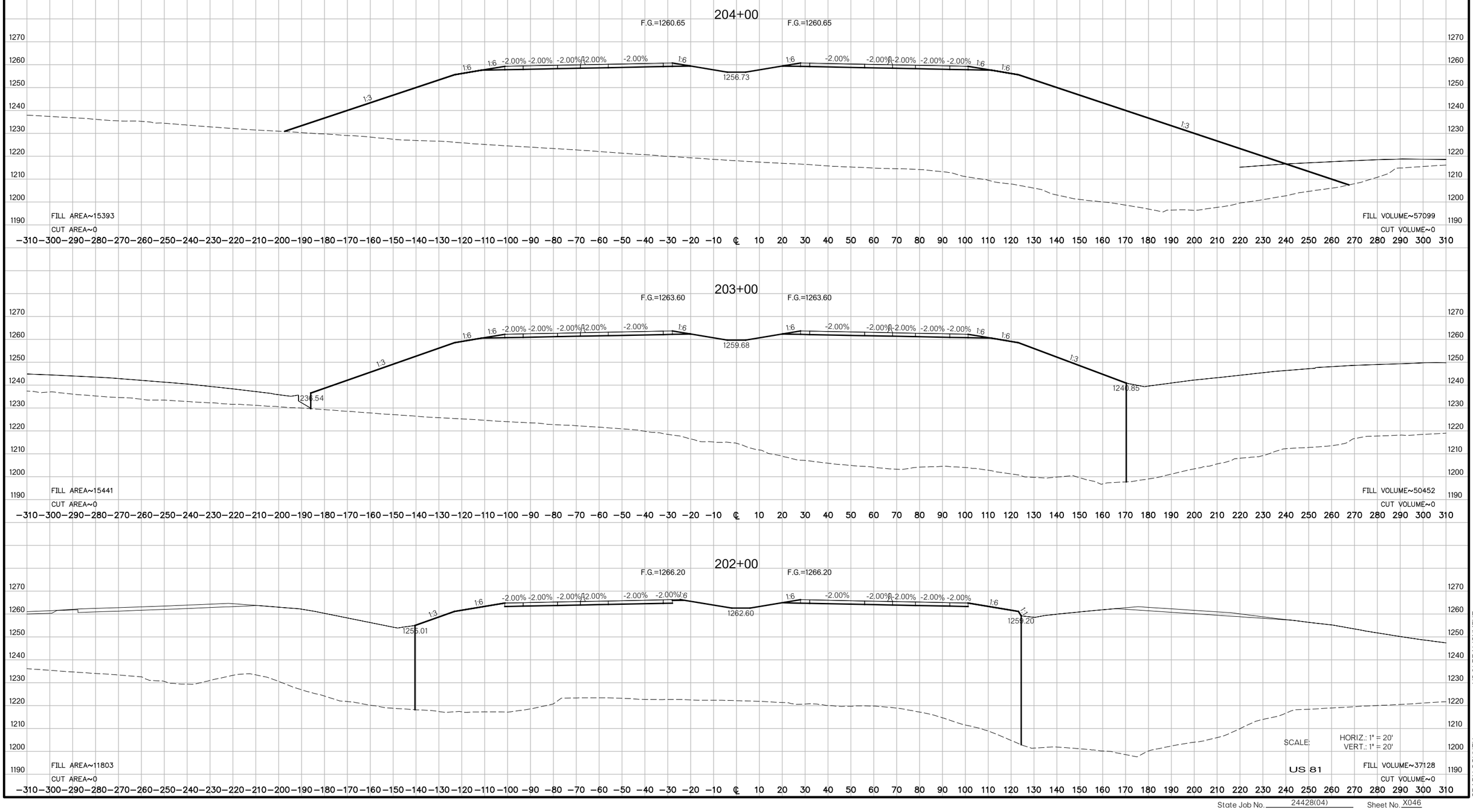
−310 −300 −290 −280 −270 −260 −250 −240 −230 −220 −210 −200 −190 −180 −170 −160 −150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310

1280 1270 1260 1250 1240 1230 1220 1210 1200 1190

US 81 REALIGNMENT
GRADY COUNTY

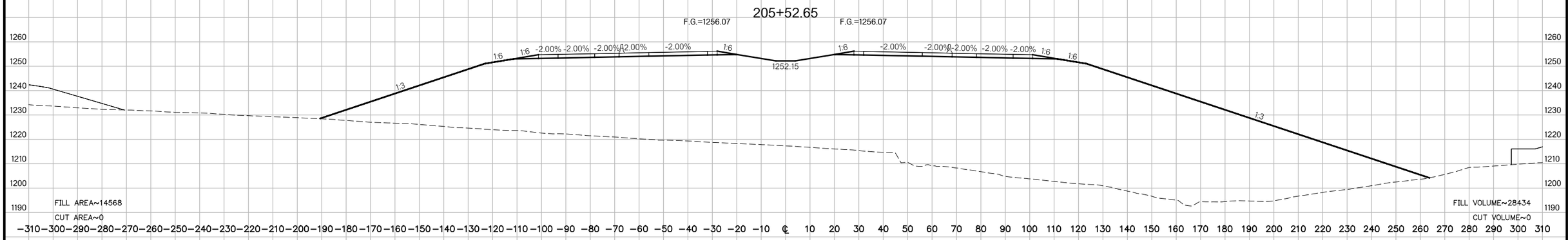
State Job No. 24428(04) Sheet No. X045

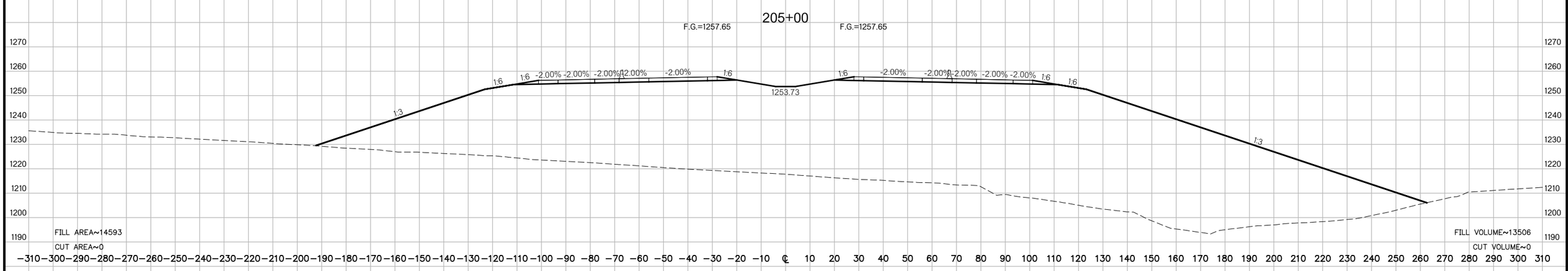
PROPOSED
R/W
AUGUST 2017

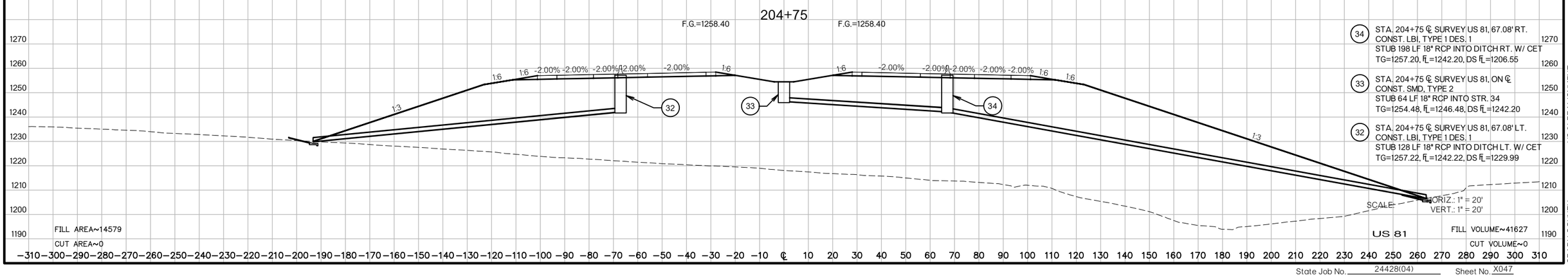


State Job No. 24428(04) Sheet No. X046

PROPOSED
R/W
AUGUST 2017







(34) STA. 204+75 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 198 LF 18" RCP INTO DITCH RT. W/ CET
TG=1257.20, FL=1242.20, DS FL=1206.55

(33) STA. 204+75 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 64 LF 18" RCP INTO STR. 34
TG=1254.48, FL=1246.48, DS FL=1242.20

(32) STA. 204+75 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 128 LF 18" RCP INTO DITCH LT. W/ CET
TG=1257.22, FL=1242.22, DS FL=1229.99

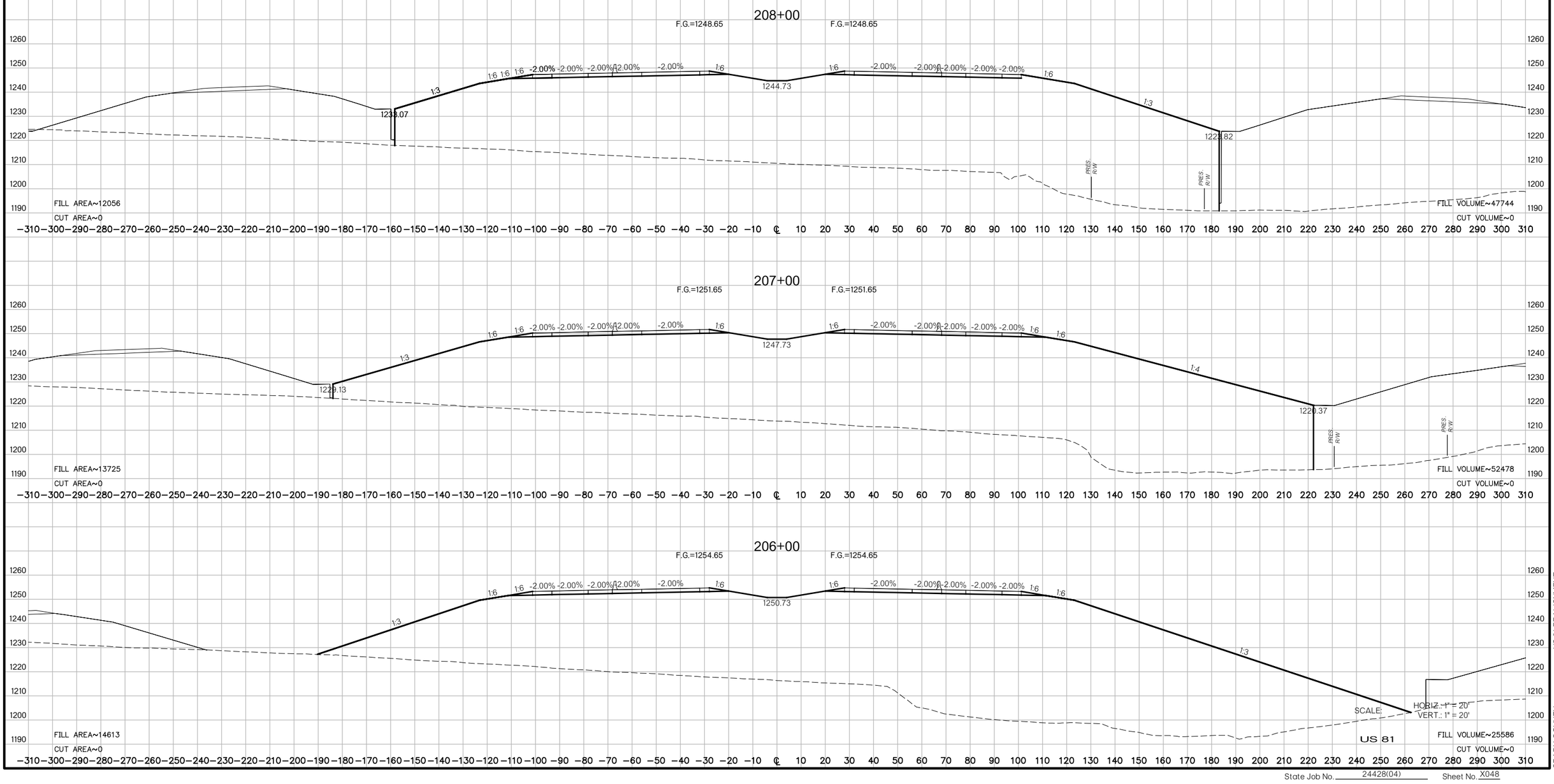
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

US 81

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X047

PROPOSED
R/W
AUGUST 2017

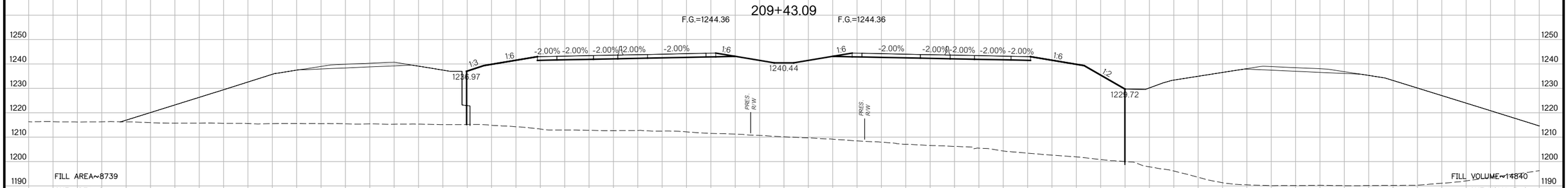


US 81 REALIGNMENT
GRADY COUNTY

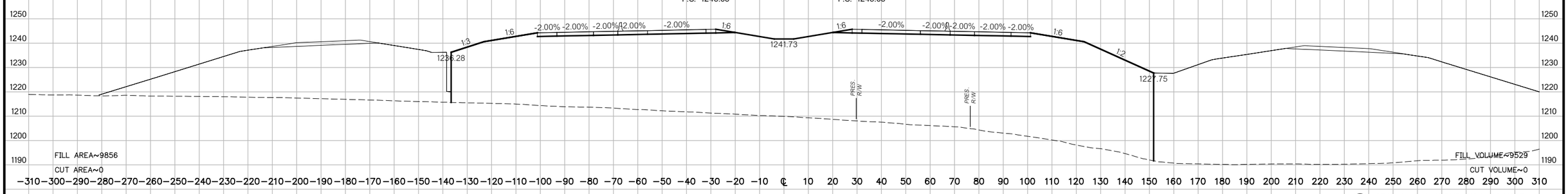
State Job No. 24428(04) Sheet No. X048

PROPOSED
R/W
AUGUST 2017

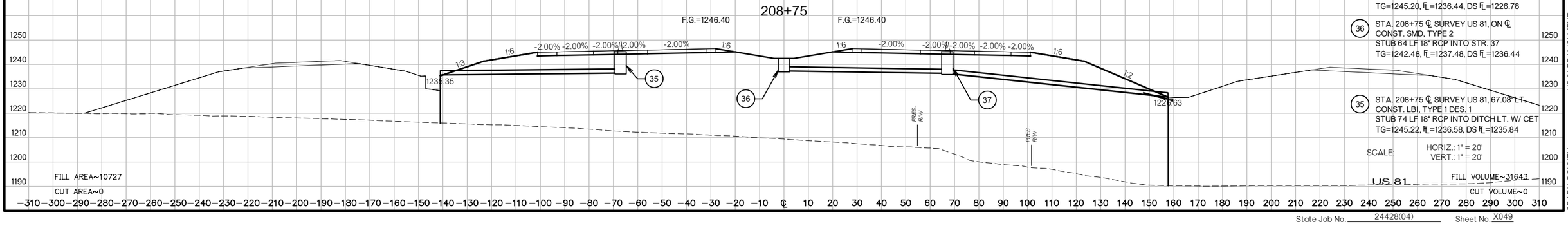
209+43.09



209+00



208+75



(37) STA. 208+75 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 92 LF 18" RCP INTO DITCH RT. W/ CET
TG=1245.20, FL=1236.44, DS FL=1226.78

(36) STA. 208+75 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 64 LF 18" RCP INTO STR. 37
TG=1242.48, FL=1237.48, DS FL=1236.44

(35) STA. 208+75 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 74 LF 18" RCP INTO DITCH LT. W/ CET
TG=1245.22, FL=1236.58, DS FL=1235.84

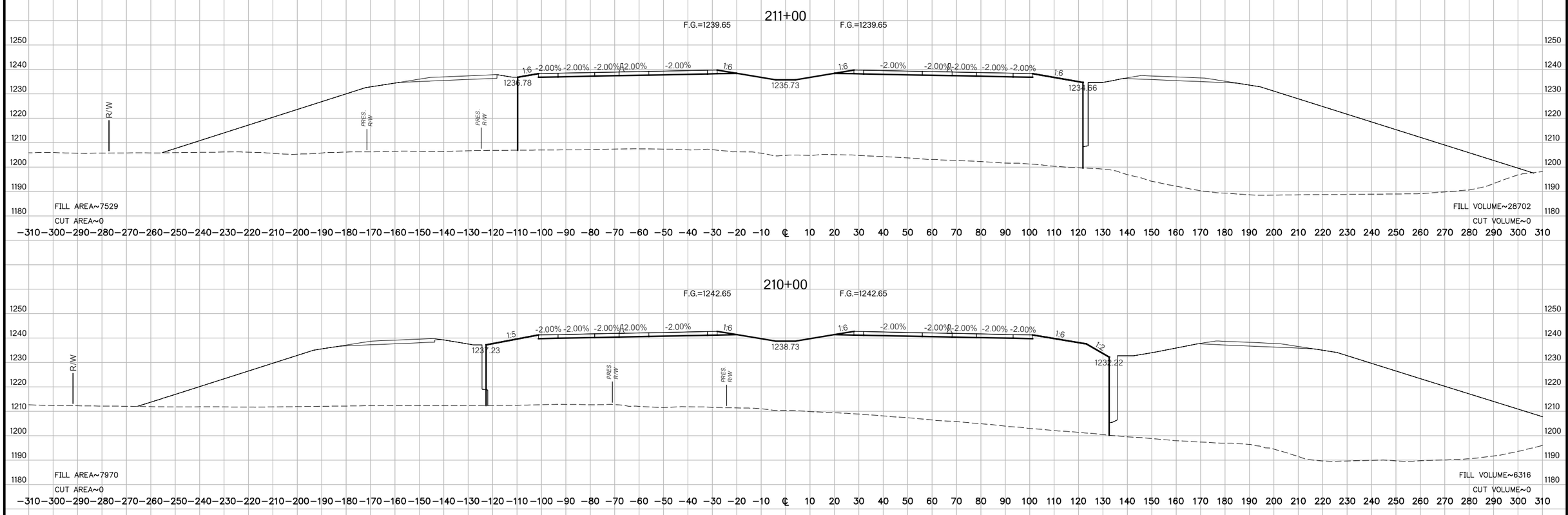
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

US 81

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X049

PROPOSED
R/W
AUGUST 2017



SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

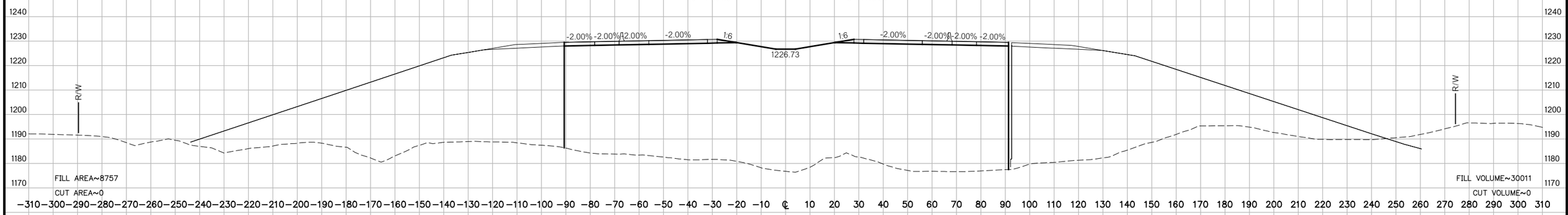
US 81

US 81 REALIGNMENT
GRADY COUNTY

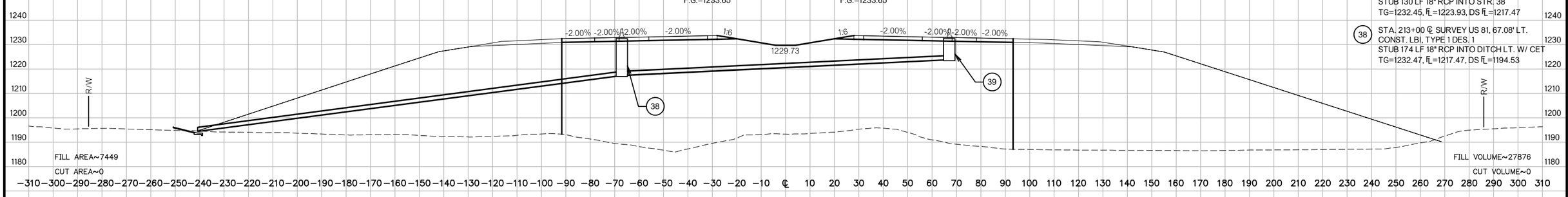
State Job No. 24428(04) Sheet No. X050

PROPOSED
R/W
AUGUST 2017

214+00



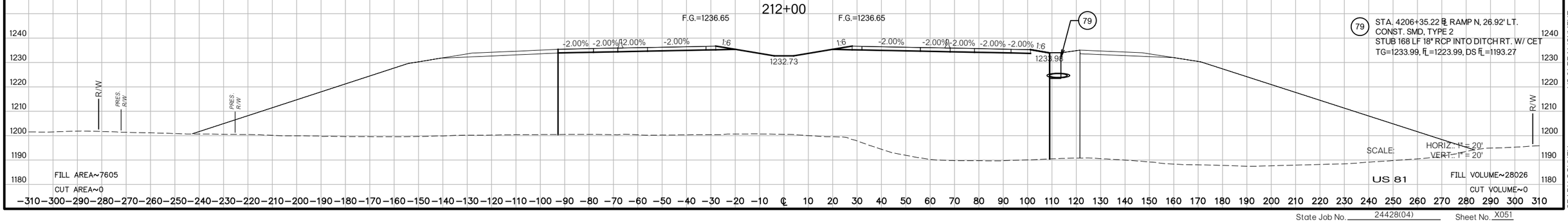
213+00



(39) STA. 213+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 130 LF 18" RCP INTO STR. 38
TG=1232.45, FL=1223.93, DS FL=1217.47

(38) STA. 213+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 174 LF 18" RCP INTO DITCH LT. W/ CET
TG=1232.47, FL=1217.47, DS FL=1194.53

212+00



(79) STA. 4206+35.22 ℄ RAMP N, 26.92' LT.
CONST. SMD, TYPE 2
STUB 168 LF 18" RCP INTO DITCH RT. W/ CET
TG=1233.99, FL=1223.99, DS FL=1193.27

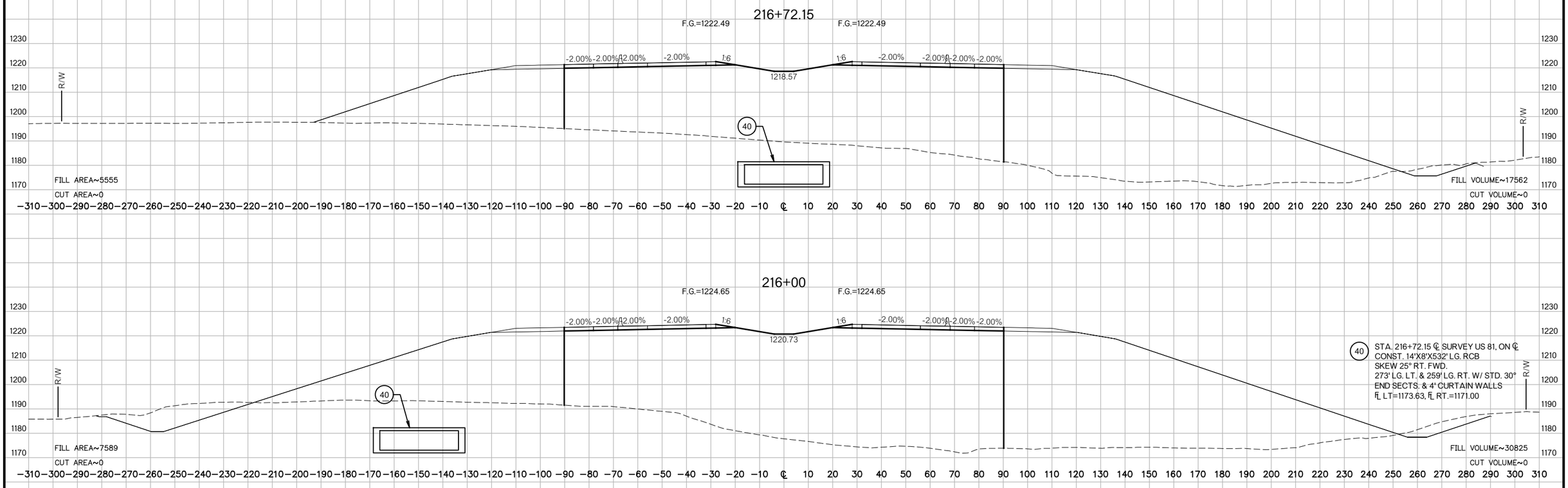
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

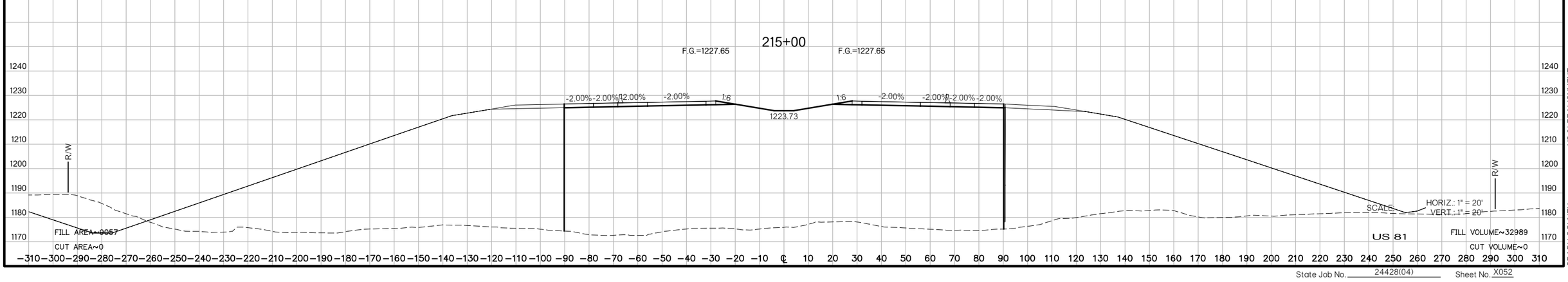
US 81

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X051

PROPOSED
R/W
AUGUST 2017

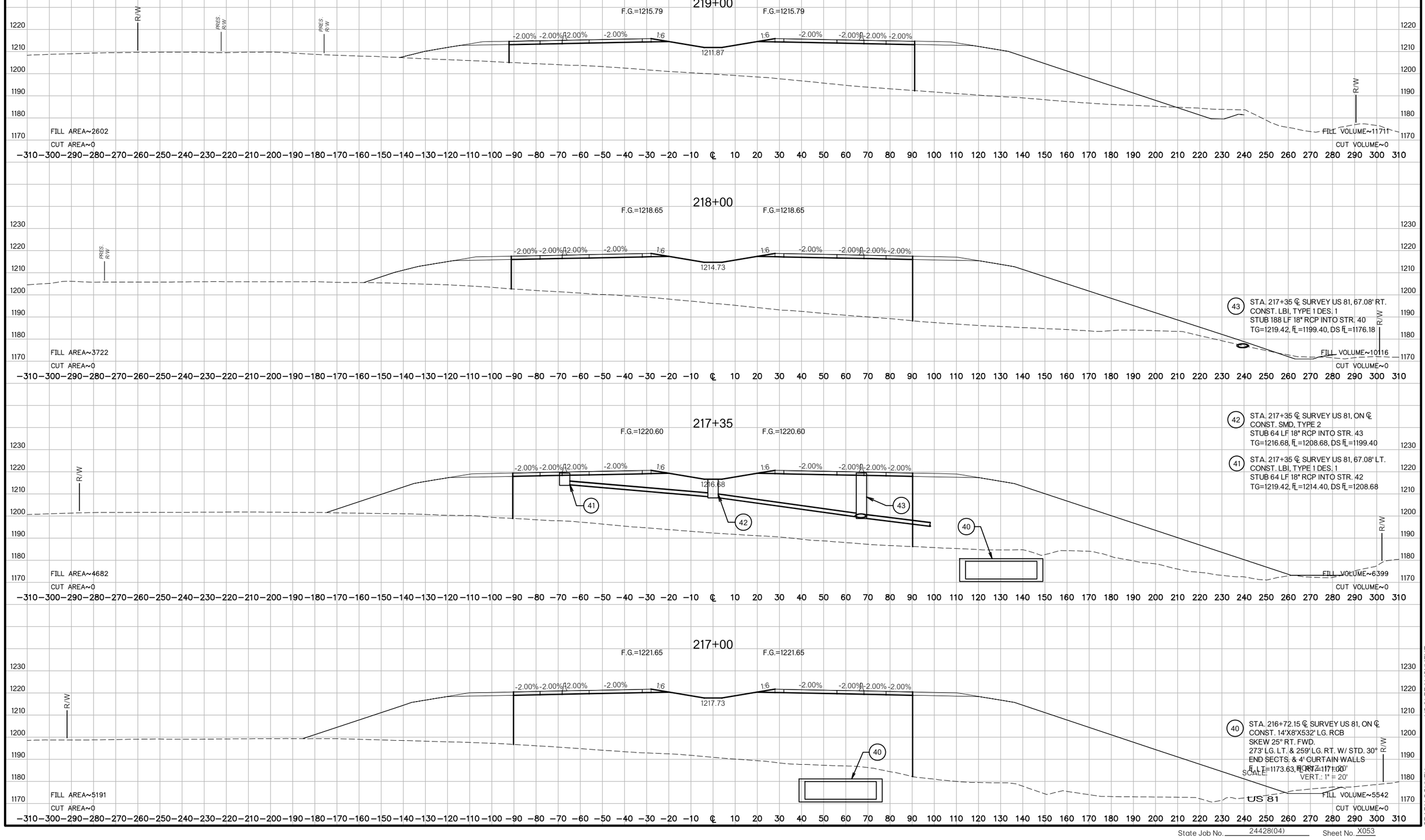




US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X052

PROPOSED
R/W
AUGUST 2017



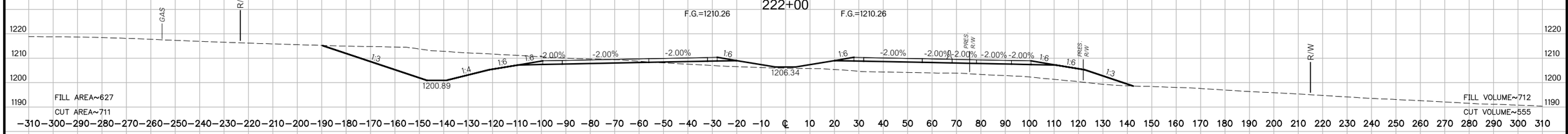
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X053

PROPOSED
R/W
AUGUST 2017

222+00

F.G.=1210.26 F.G.=1210.26

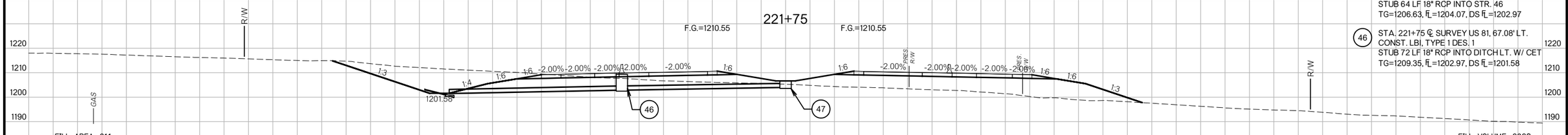


FILL AREA~627
CUT AREA~711
FILL VOLUME~712
CUT VOLUME~555

-310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310

221+75

F.G.=1210.55 F.G.=1210.55

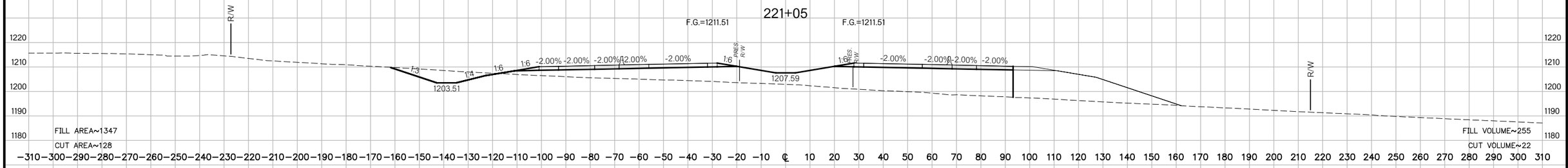


FILL AREA~911
CUT AREA~488
FILL VOLUME~2928
CUT VOLUME~798

-310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310

221+05

F.G.=1211.51 F.G.=1211.51

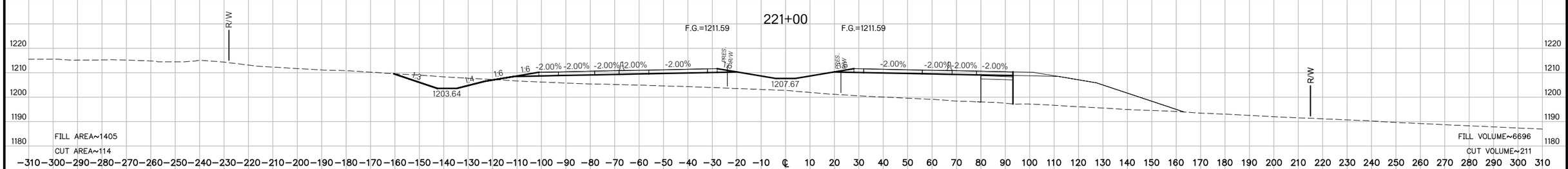


FILL AREA~1347
CUT AREA~128
FILL VOLUME~255
CUT VOLUME~22

-310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310

221+00

F.G.=1211.59 F.G.=1211.59

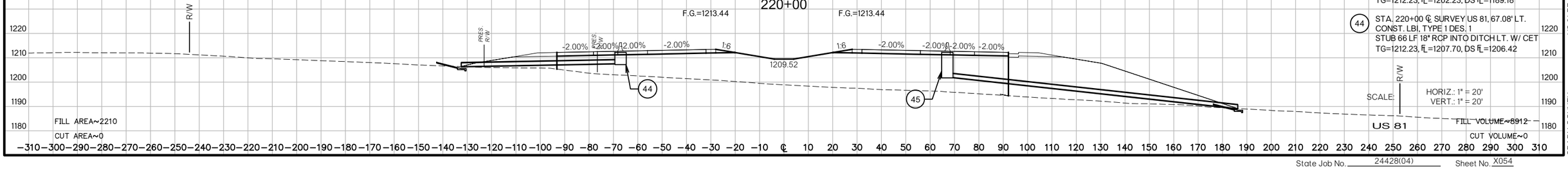


FILL AREA~1405
CUT AREA~114
FILL VOLUME~6696
CUT VOLUME~211

-310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310

220+00

F.G.=1213.44 F.G.=1213.44



FILL AREA~2210
CUT AREA~0
FILL VOLUME~8912
CUT VOLUME~0

-310 -300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310

(47) STA. 221+75 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 64 LF 18" RCP INTO STR. 46
TG=1206.63, FL=1204.07, DS FL=1202.97

(46) STA. 221+75 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 72 LF 18" RCP INTO DITCH LT. W/ CET
TG=1209.35, FL=1202.97, DS FL=1201.58

(45) STA. 220+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 120 LF 18" RCP INTO DITCH RT. W/ CET
TG=1212.23, FL=1202.23, DS FL=1189.18

(44) STA. 220+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 66 LF 18" RCP INTO DITCH LT. W/ CET
TG=1212.23, FL=1207.70, DS FL=1206.42

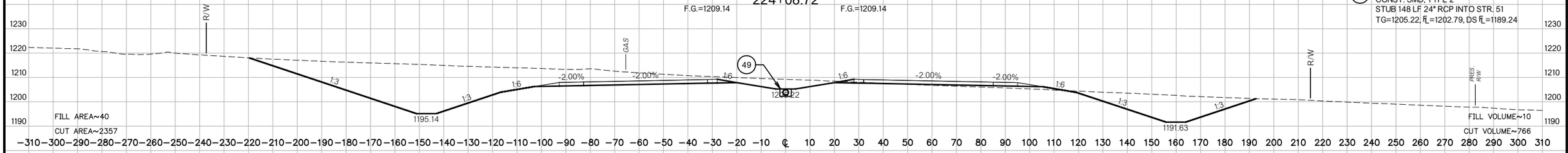
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X054

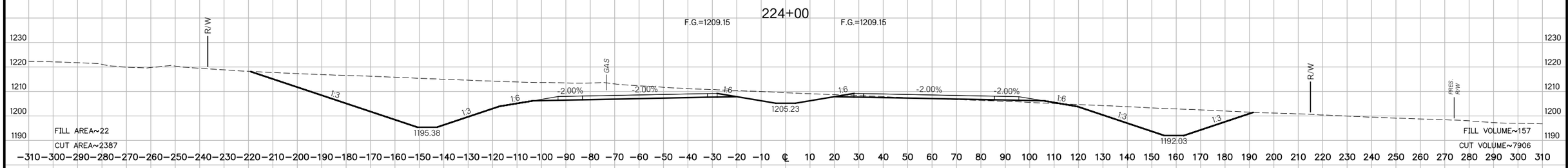
PROPOSED
R/W
AUGUST 2017

224+08.72

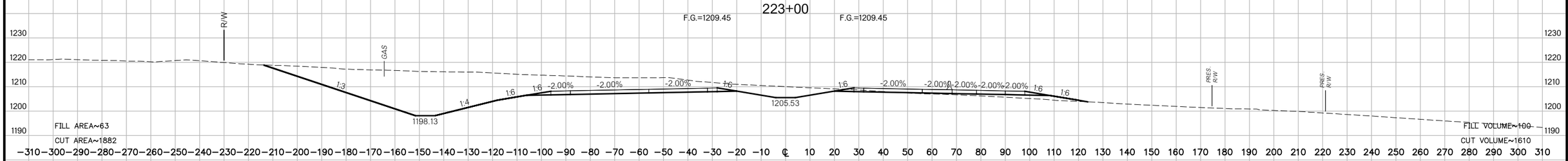


(49) STA. 224+08.72 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 148 LF 24" RCP INTO STR. 51
TG=1205.22, FL=1202.79, DS FL=1189.24

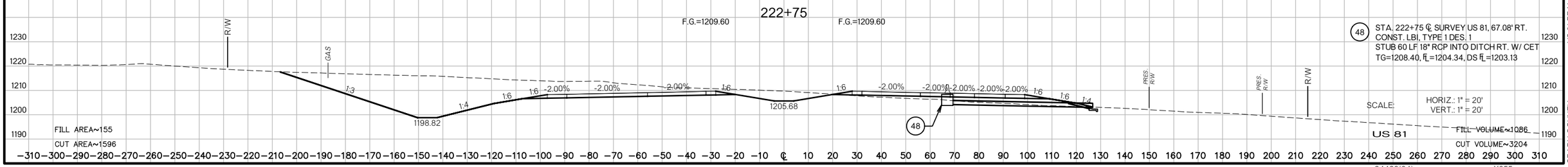
224+00



223+00



222+75



(48) STA. 222+75 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 60 LF 18" RCP INTO DITCH RT. W/ CET
TG=1208.40, FL=1204.34, DS FL=1203.13

SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

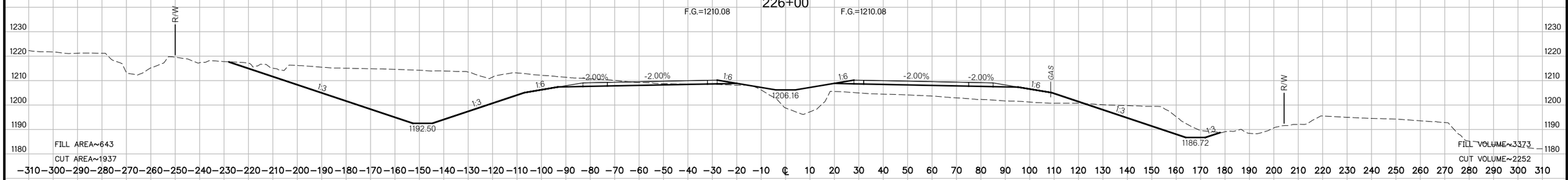
US 81

US 81 REALIGNMENT
GRADY COUNTY

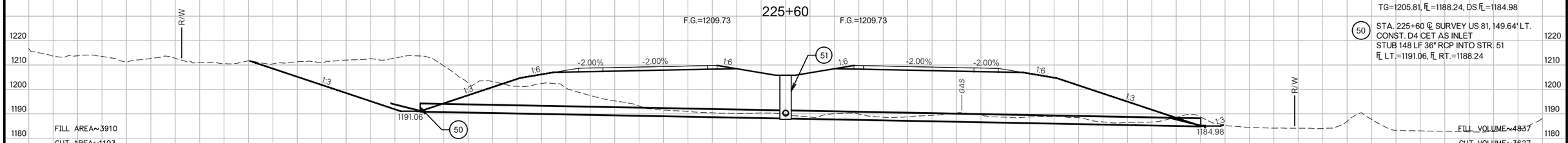
State Job No. 24428(04) Sheet No. X055

PROPOSED
R/W
AUGUST 2017

226+00



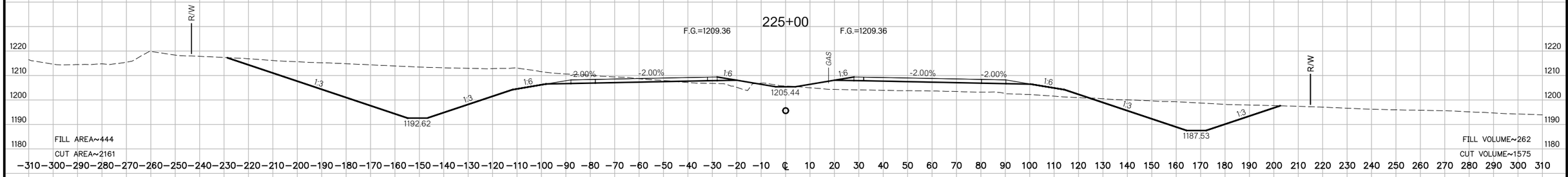
225+60



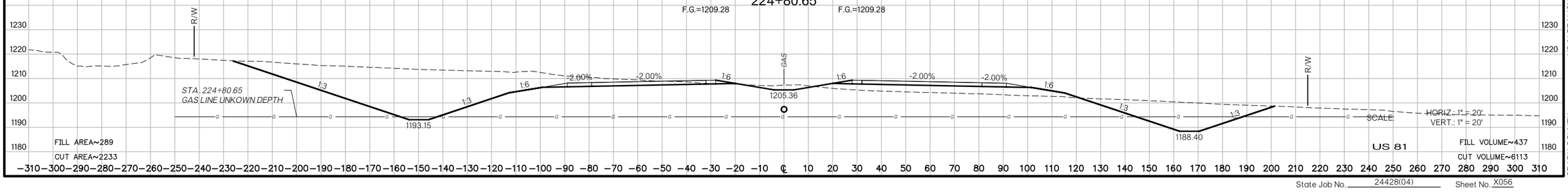
(51) STA. 225+60 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2B
STUB 168 LF 36" RCP INTO DITCH RT. W/ CET
TG=1205.81, FL=1188.24, DS FL=1184.98

(50) STA. 225+60 ℄ SURVEY US 81, 149.64' LT.
CONST. D4 CET AS INLET
STUB 148 LF 36" RCP INTO STR. 51
FL LT.=1191.06, FL RT.=1188.24

225+00



224+80.65



SCALE
HORIZ.: 1" = 20'
VERT.: 1" = 20'

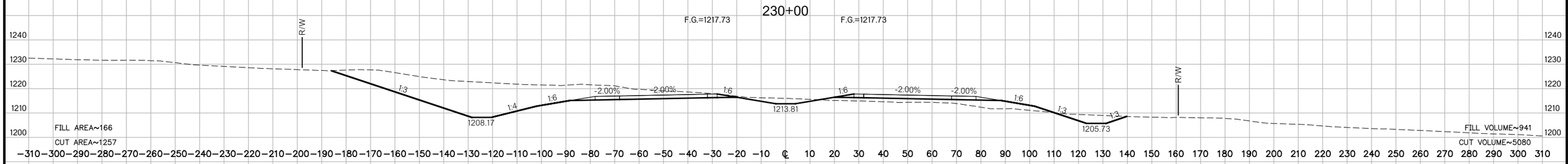
US 81

US 81 REALIGNMENT
GRADY COUNTY

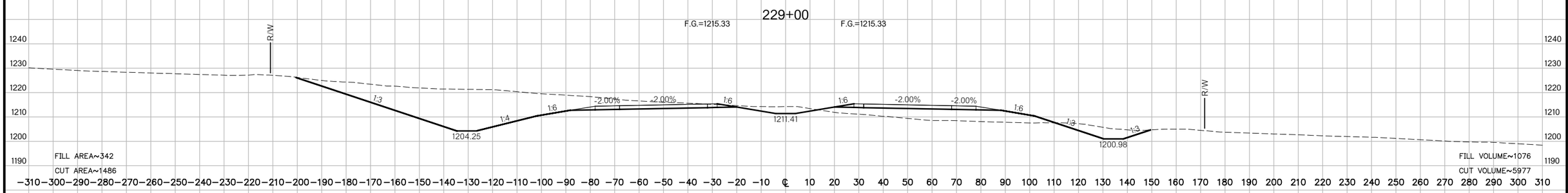
State Job No. 24428(04) Sheet No. X056

PROPOSED
R/W
AUGUST 2017

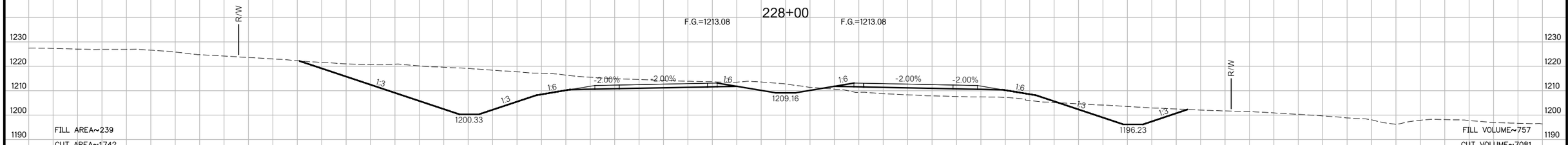
230+00



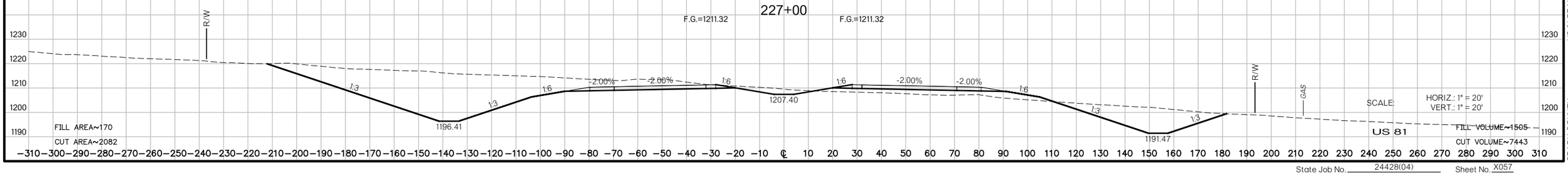
229+00



228+00



227+00



US 81 REALIGNMENT

GRADY COUNTY

SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

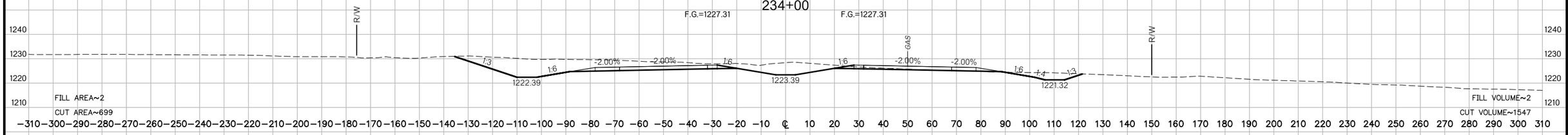
US 81

GAS

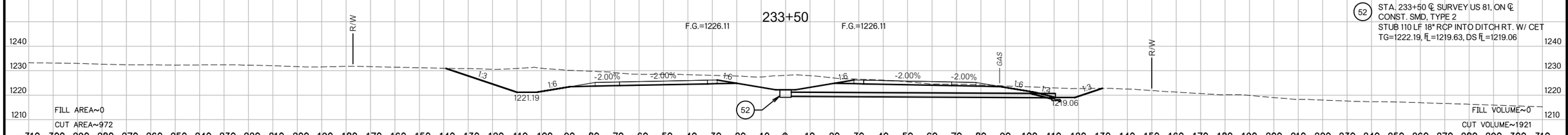
State Job No. 24428(04) Sheet No. X057

PROPOSED
R/W
AUGUST 2017

234+00

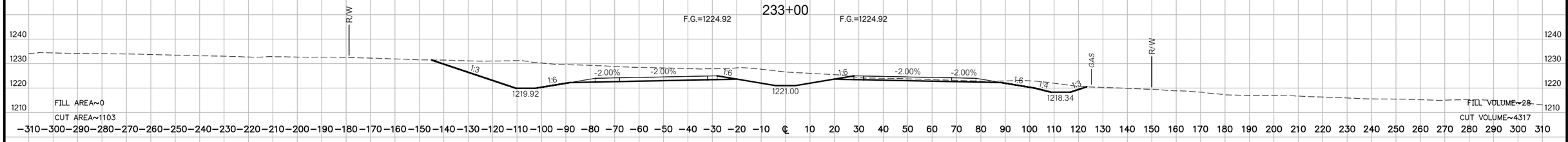


233+50

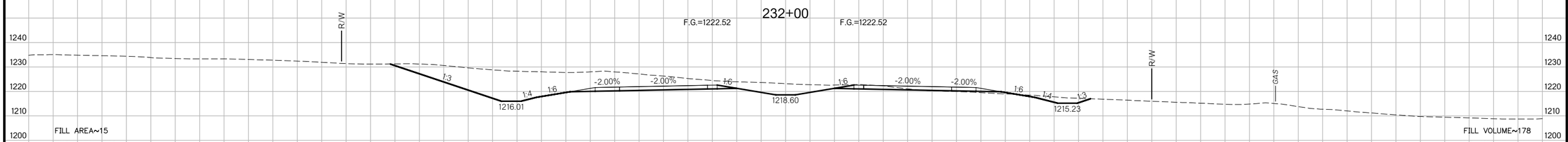


(52) STA. 233+50 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 110 LF 18" RCP INTO DITCH RT. W/ CET
TG=1222.19, FL=1219.63, DS FL=1219.06

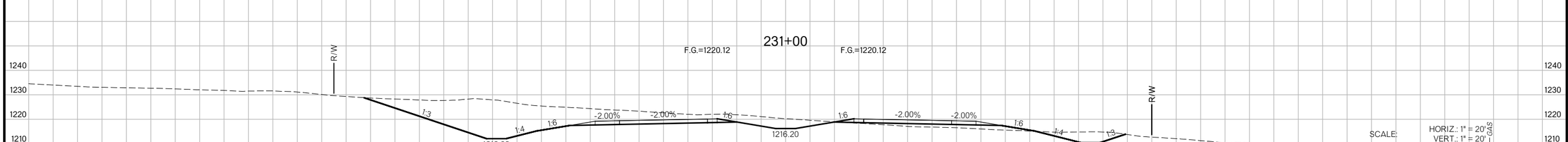
233+00



232+00



231+00

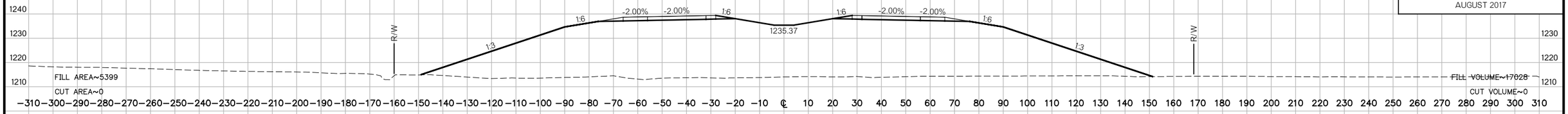


US 81 REALIGNMENT
GRADY COUNTY

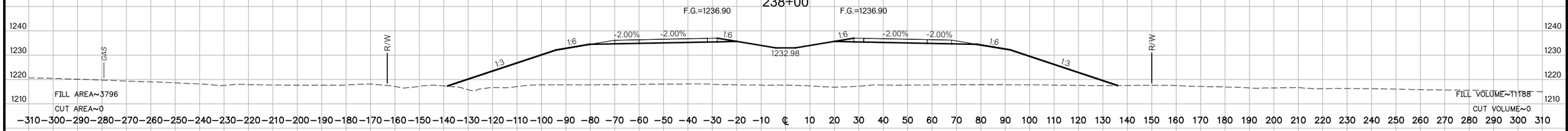
State Job No. 24428(04) Sheet No. X058

PROPOSED
R/W
AUGUST 2017

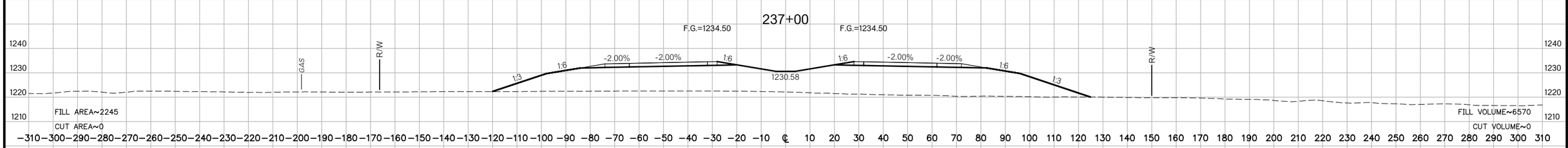
239+00



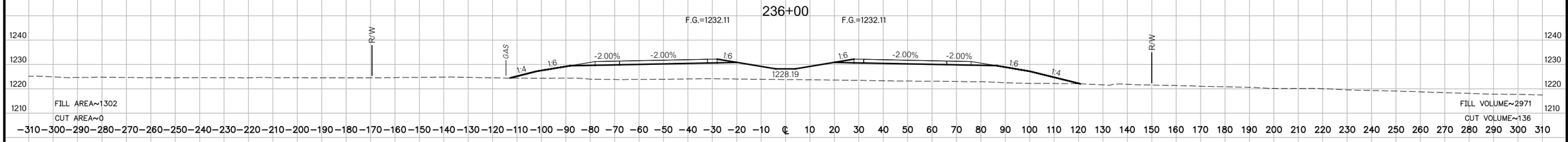
238+00



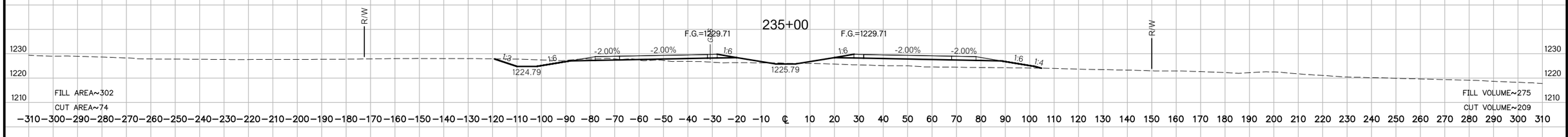
237+00



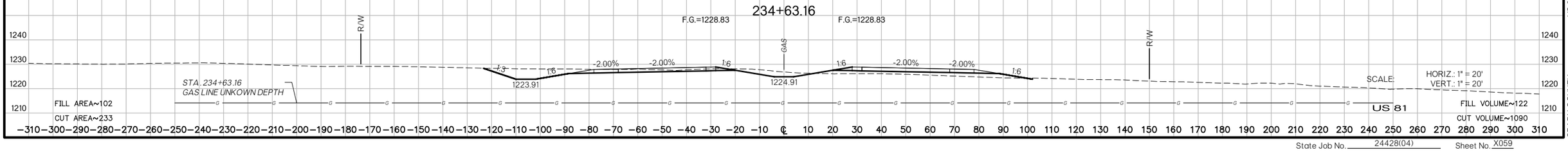
236+00



235+00



234+63.16

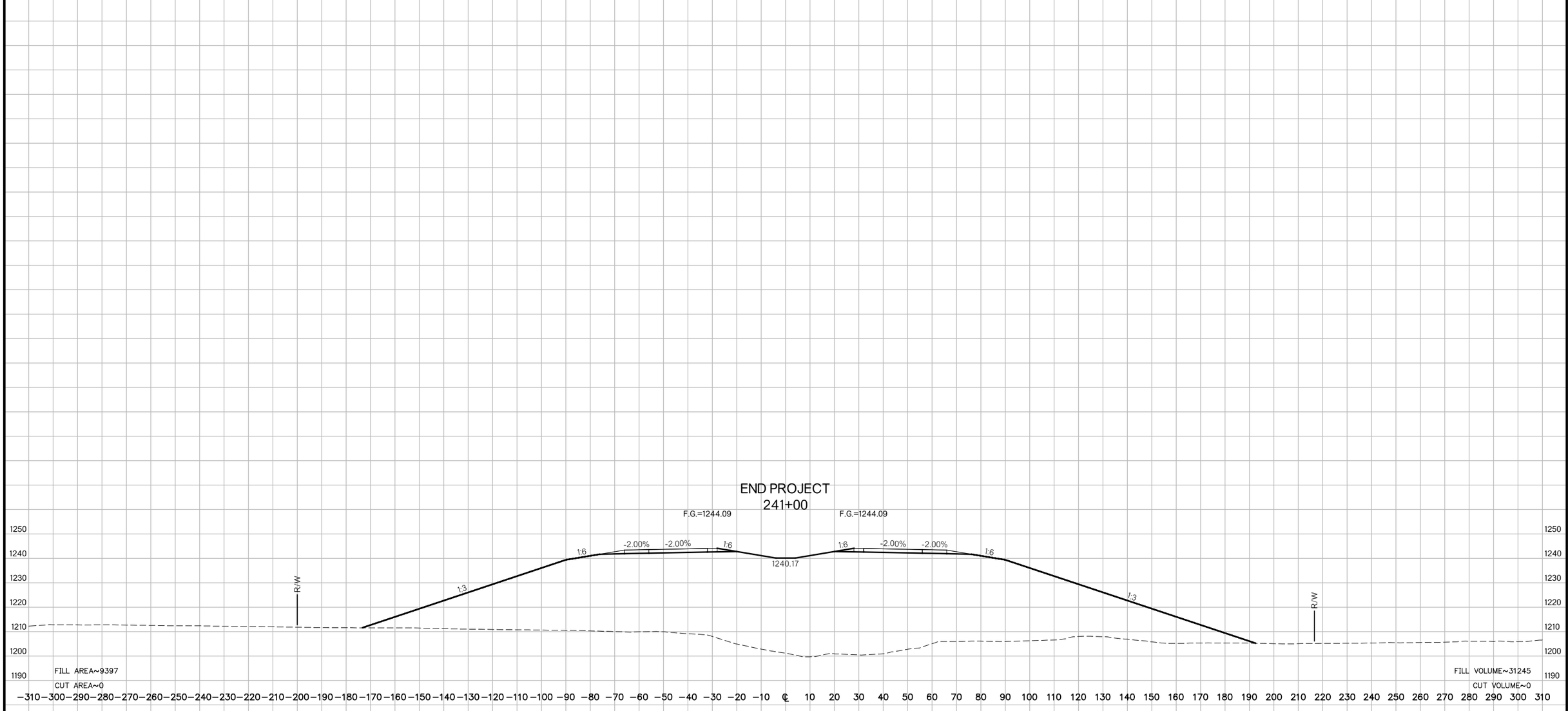


US 81 REALIGNMENT
GRADY COUNTY

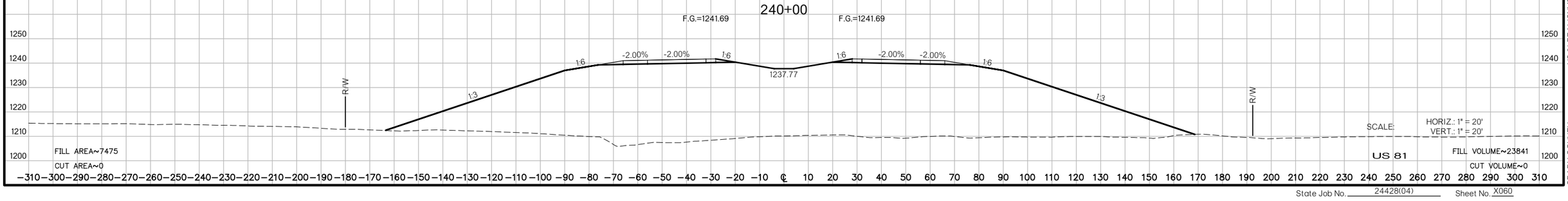
State Job No. 24428(04) Sheet No. X059

PROPOSED
R/W
AUGUST 2017

END PROJECT
241+00



240+00



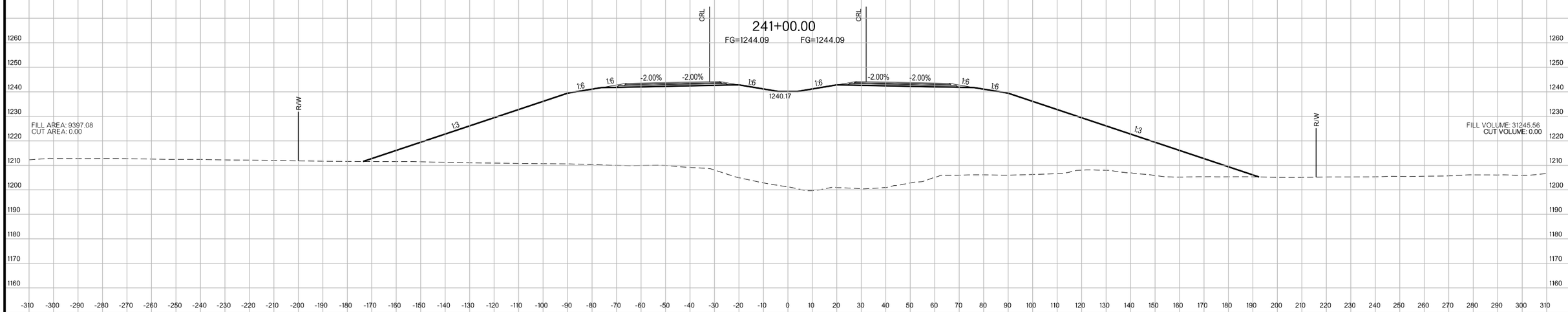
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

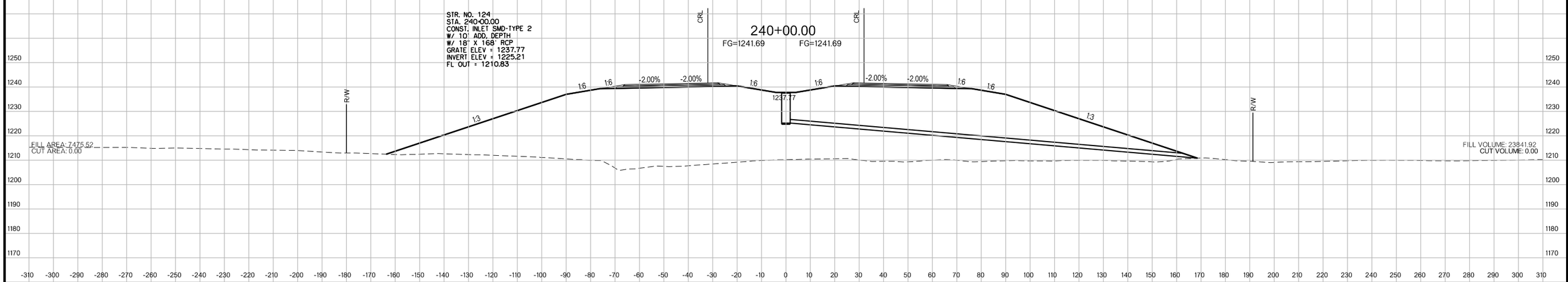
US 81

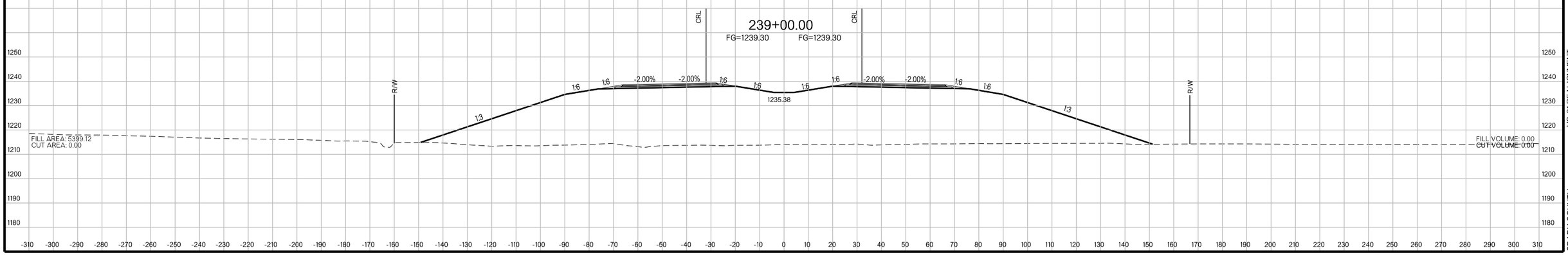
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X060

PROPOSED
R/W
AUGUST 2017







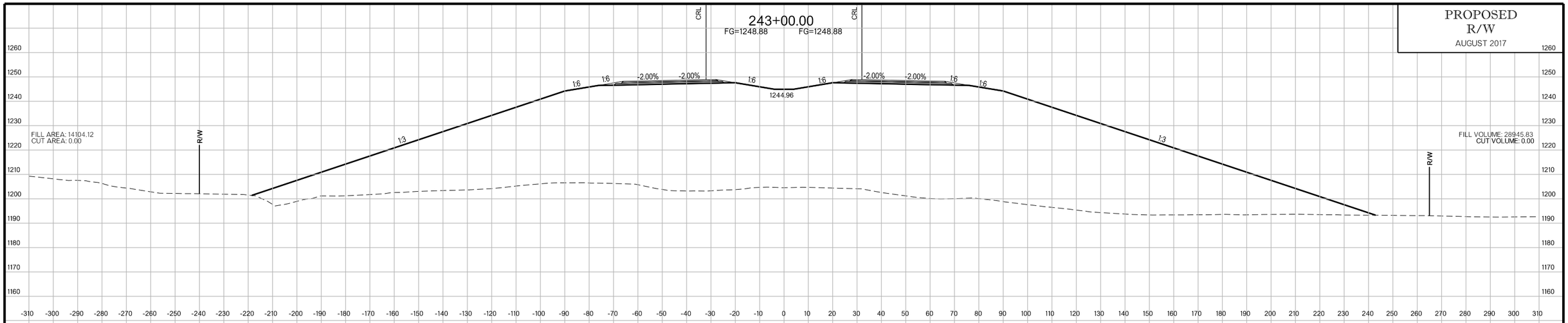
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X061

PROPOSED
R/W
AUGUST 2017

243+00.00

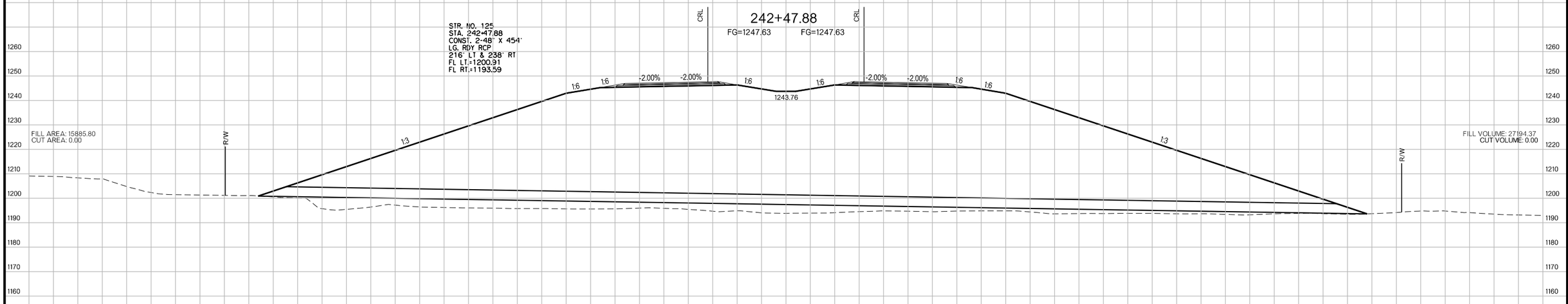
FG=1248.88 FG=1248.88



242+47.88

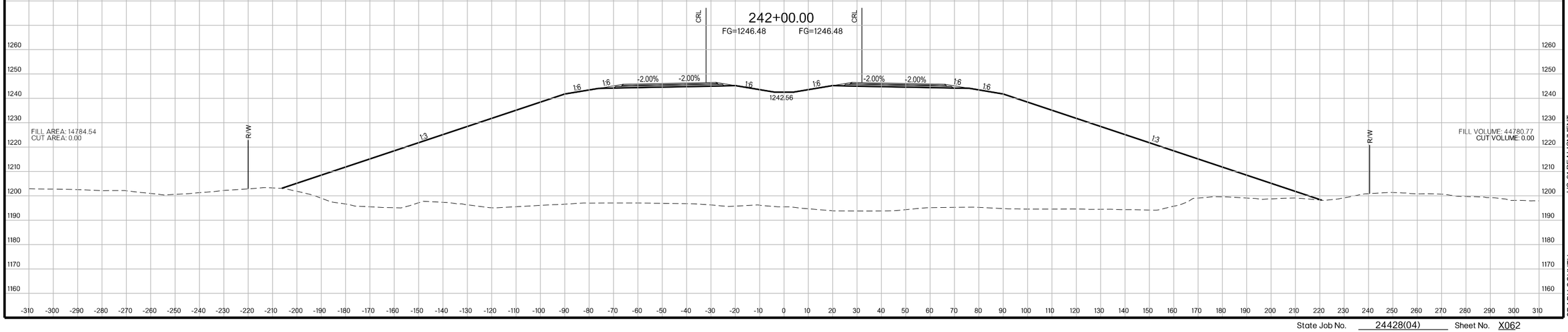
STR. NO. 125
STA. 242+47.88
CONST. 2-48" X 454'
LG. RDY. RCP.
216' LT & 238' RT
FL LT.=1200.91
FL RT.=1193.59

FG=1247.63 FG=1247.63



242+00.00

FG=1246.48 FG=1246.48



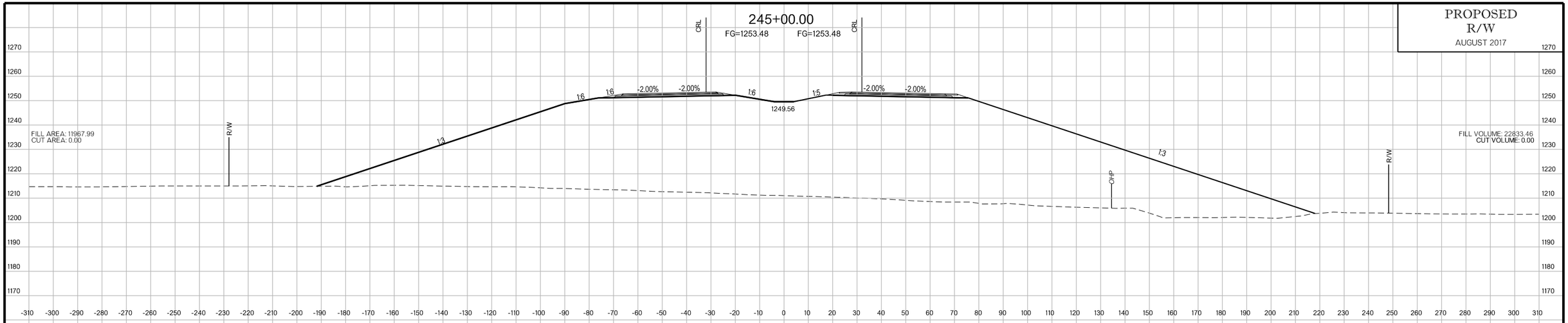
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X062

PROPOSED
R/W
AUGUST 2017

245+00.00

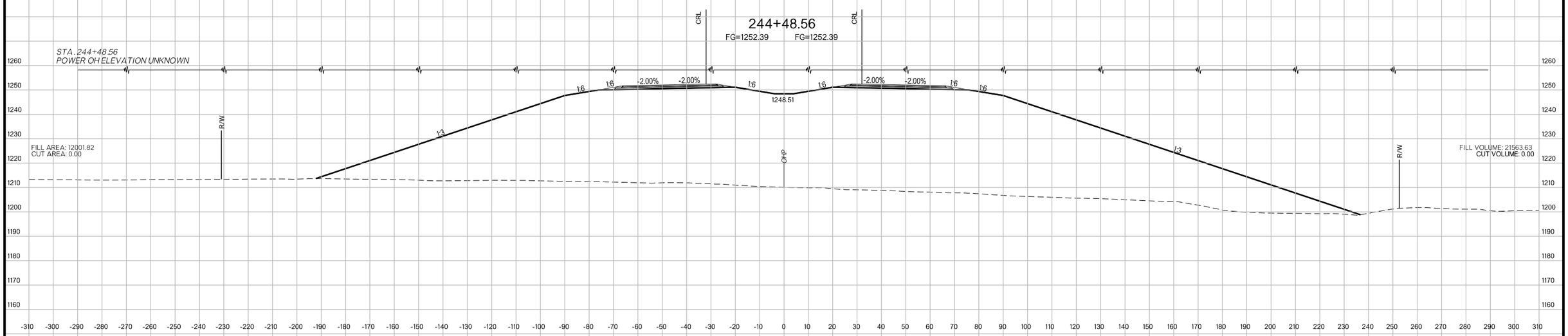
FG=1253.48 FG=1253.48



244+48.56

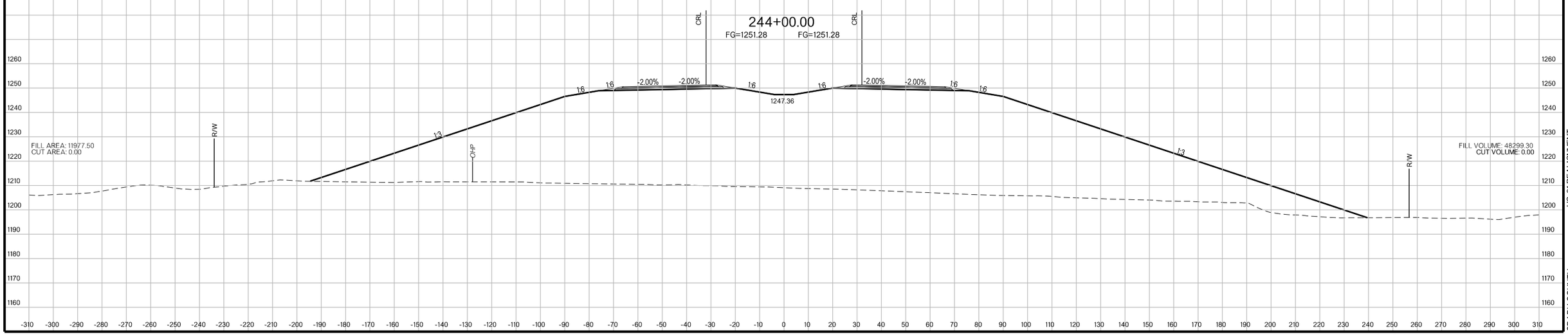
FG=1252.39 FG=1252.39

STA. 244+48.56
POWER OH ELEVATION UNKNOWN



244+00.00

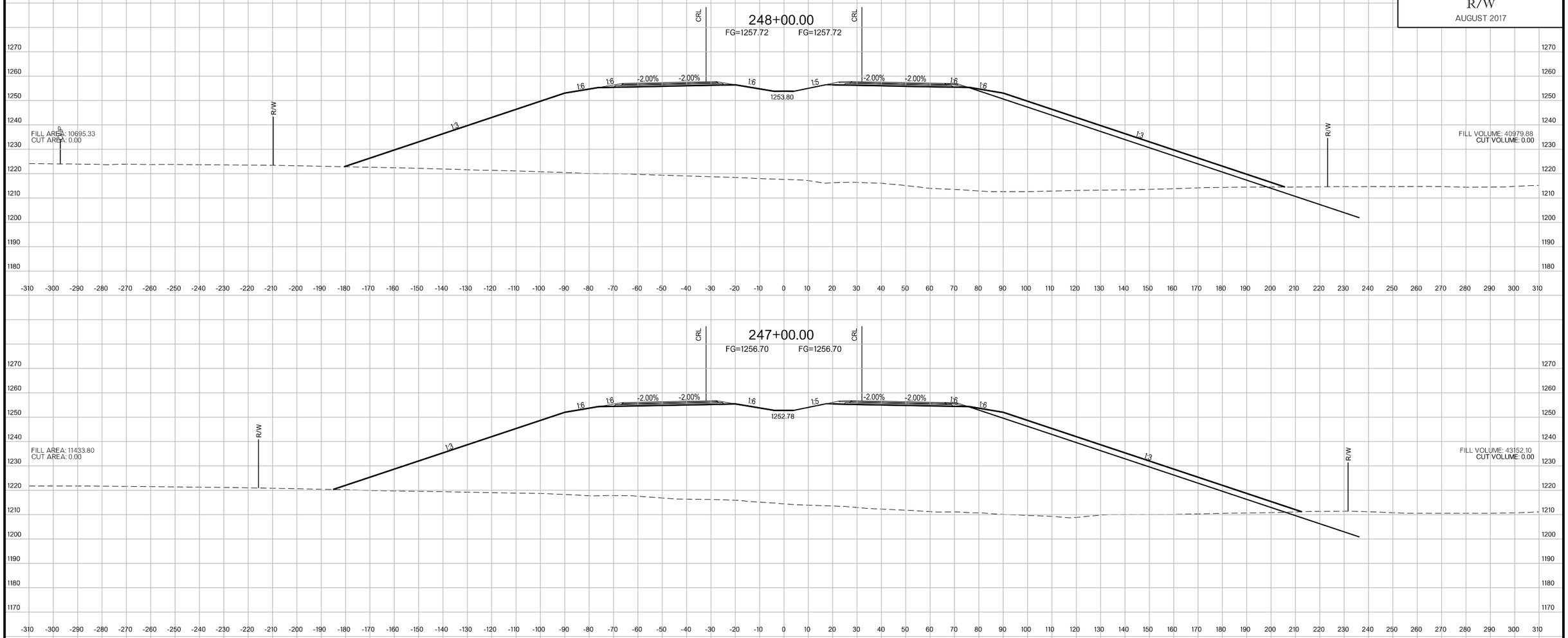
FG=1251.28 FG=1251.28



US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X063

PROPOSED
R/W
AUGUST 2017

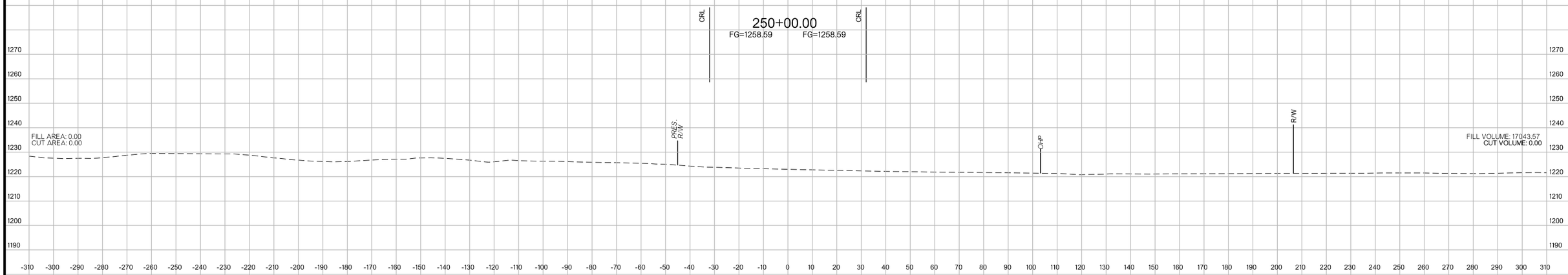


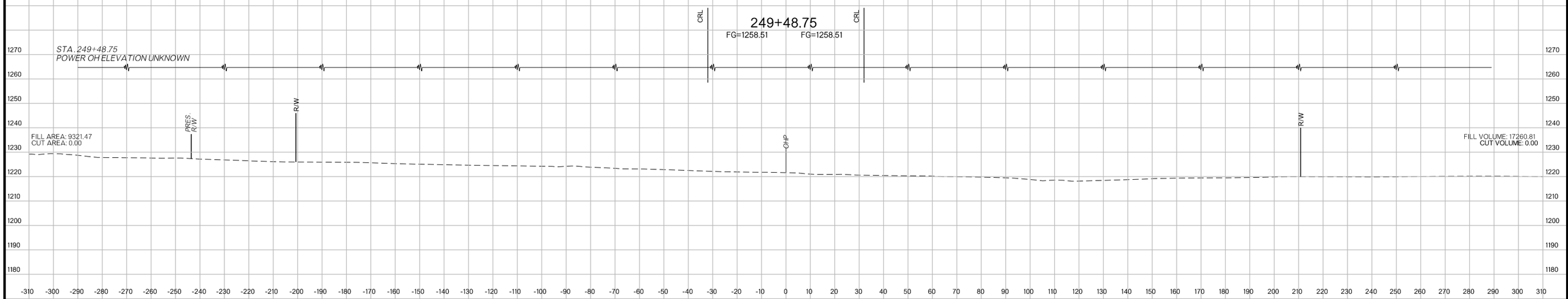
US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X064

PROPOSED
R/W
AUGUST 2017

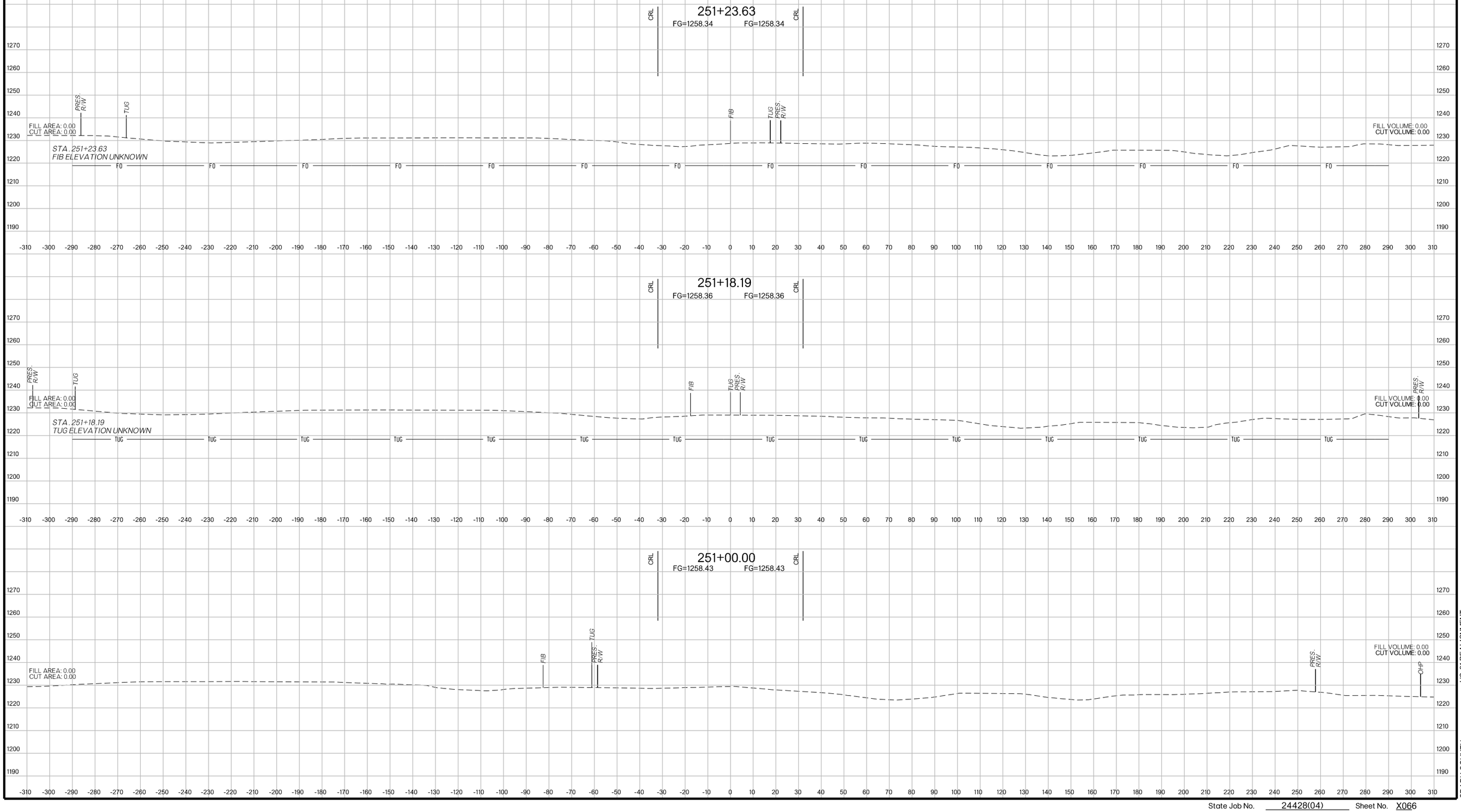




US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X065

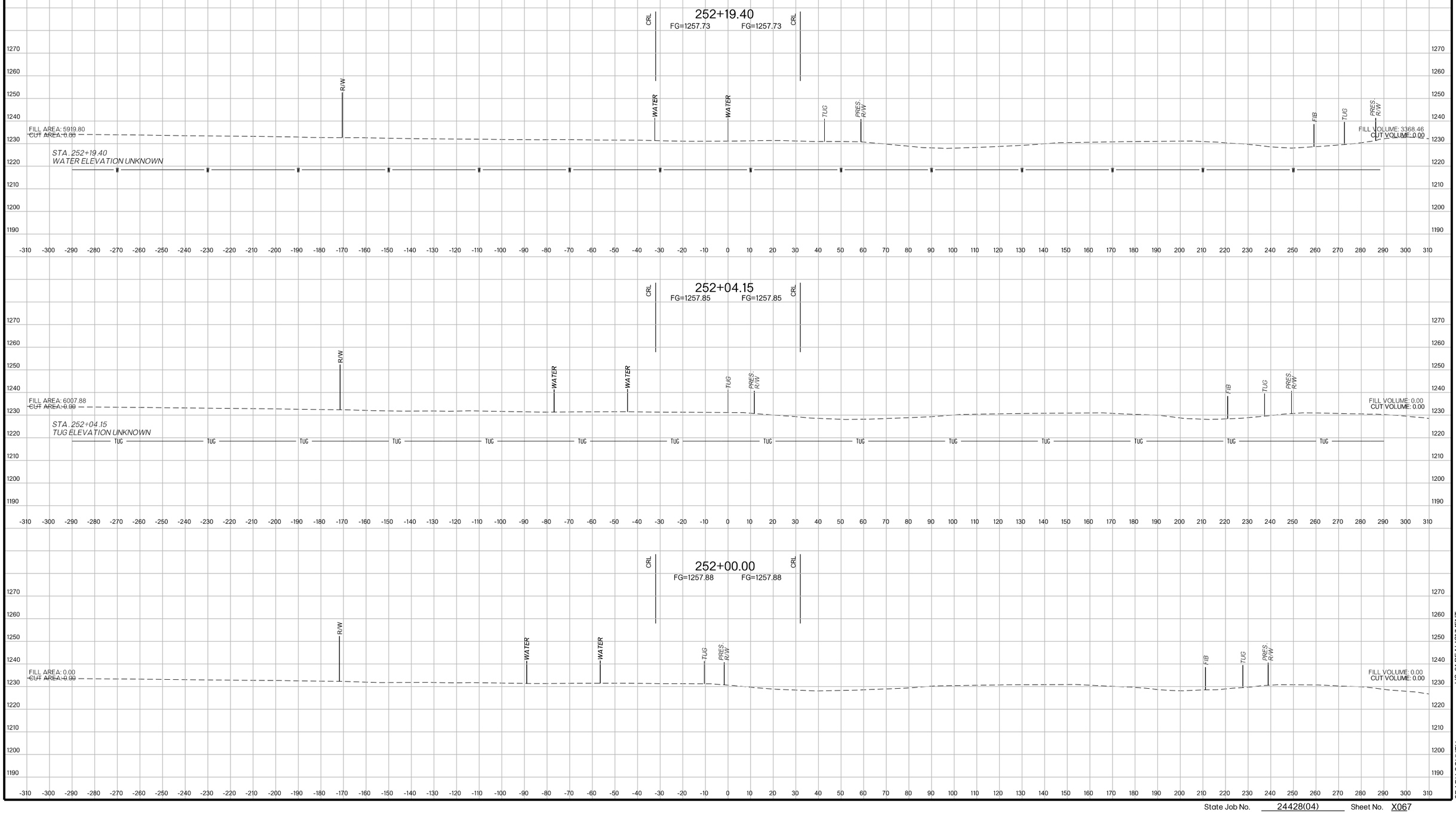
PROPOSED
R/W
AUGUST 2017



US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X066

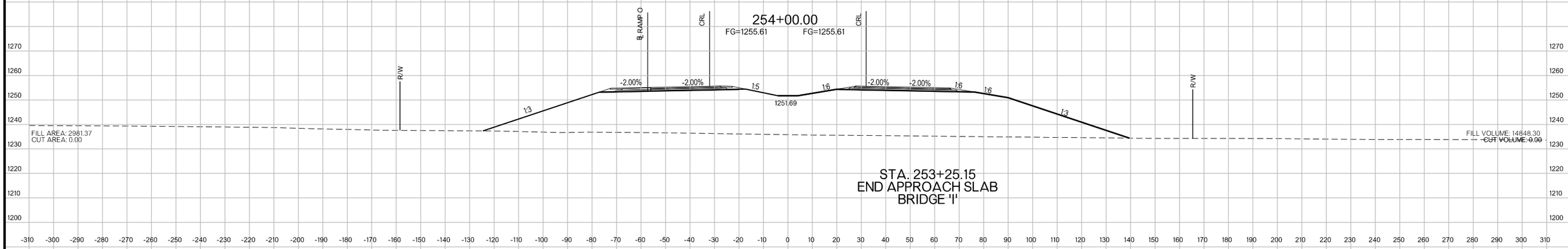
PROPOSED
R/W
AUGUST 2017

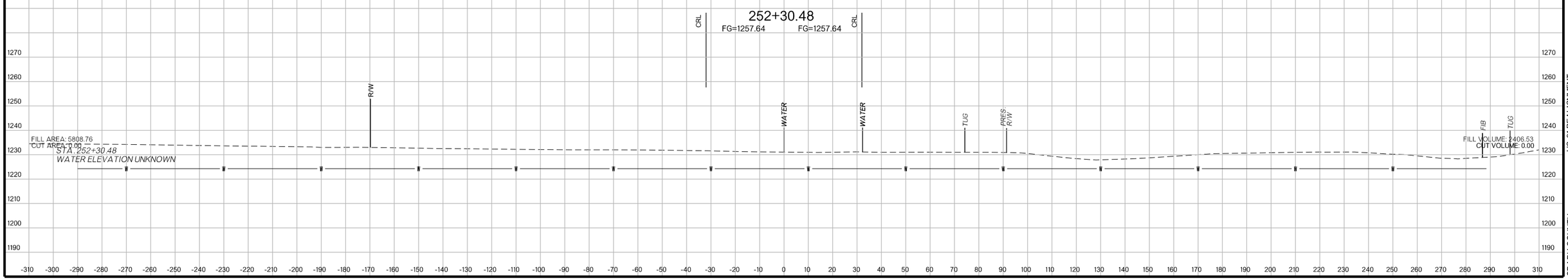


US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X067

PROPOSED
R/W
AUGUST 2017





US-81 REALIGNMENT
GRADY COUNTY

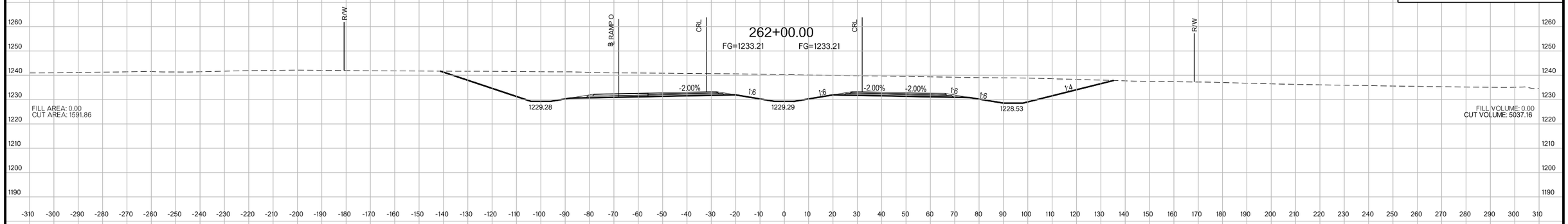
State Job No. 24428(04) Sheet No. X068

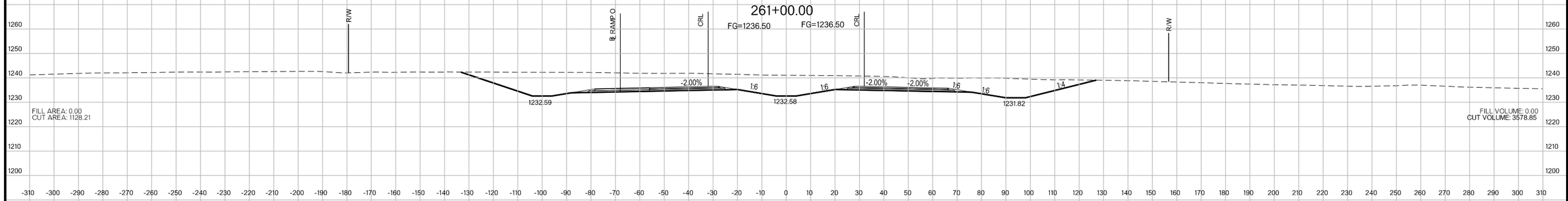
PROPOSED
R/W
AUGUST 2017

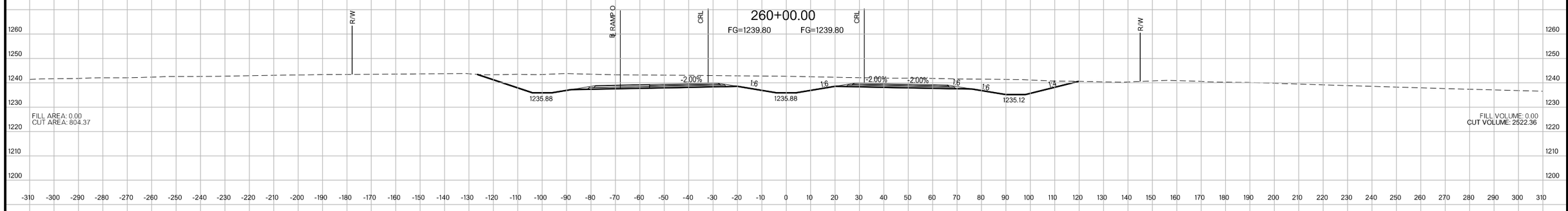
US-81 REALIGNMENT
GRADY COUNTY

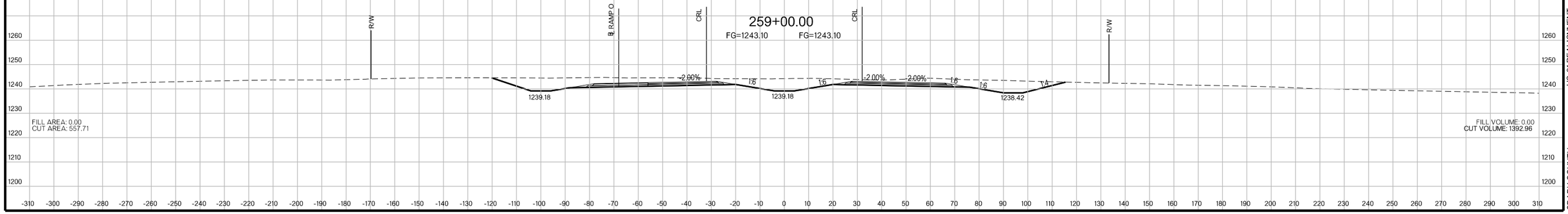
State Job No. 24428(04) Sheet No. X069

PROPOSED
R/W
AUGUST 2017





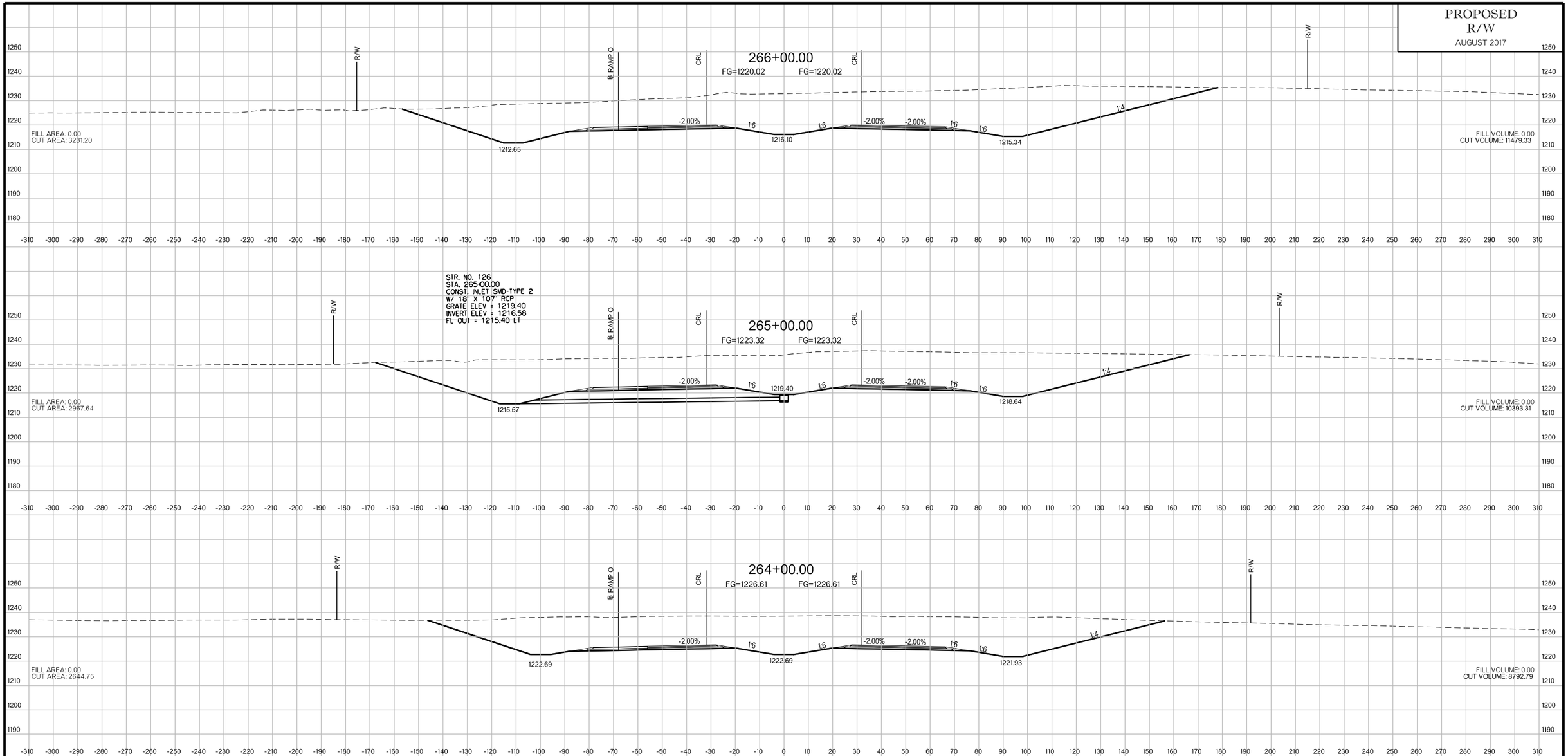




US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X070

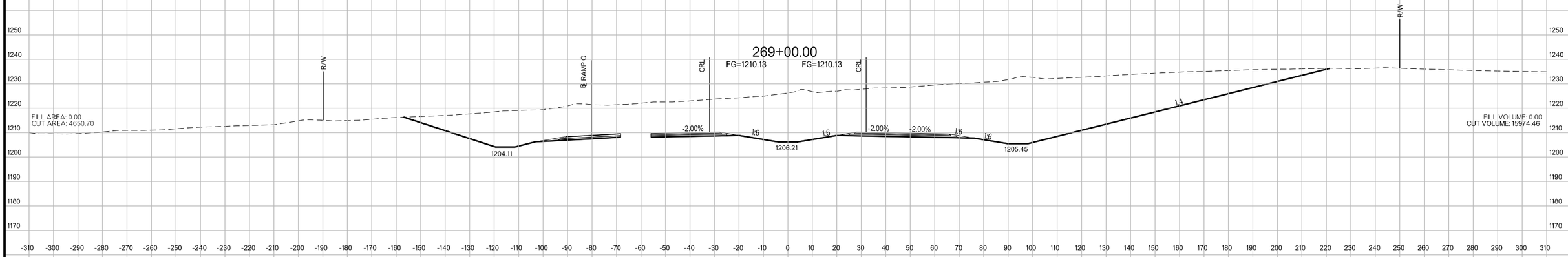
PROPOSED
R/W
AUGUST 2017

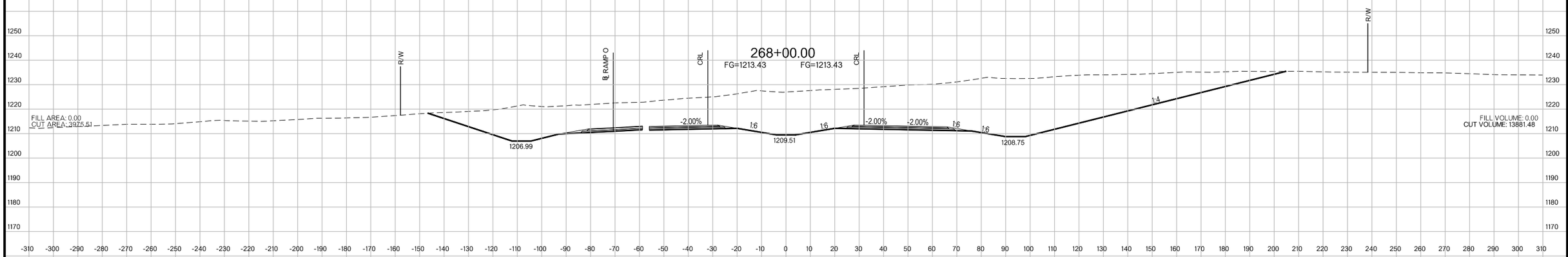


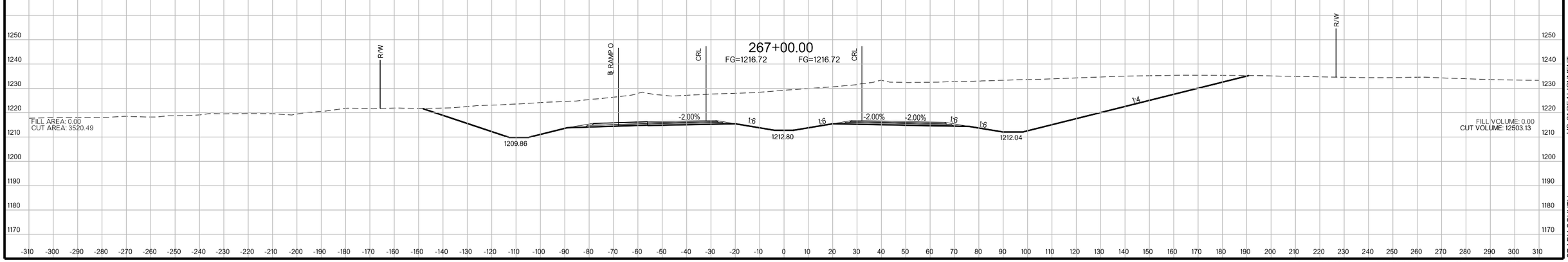
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X071

PROPOSED
R/W
AUGUST 2017



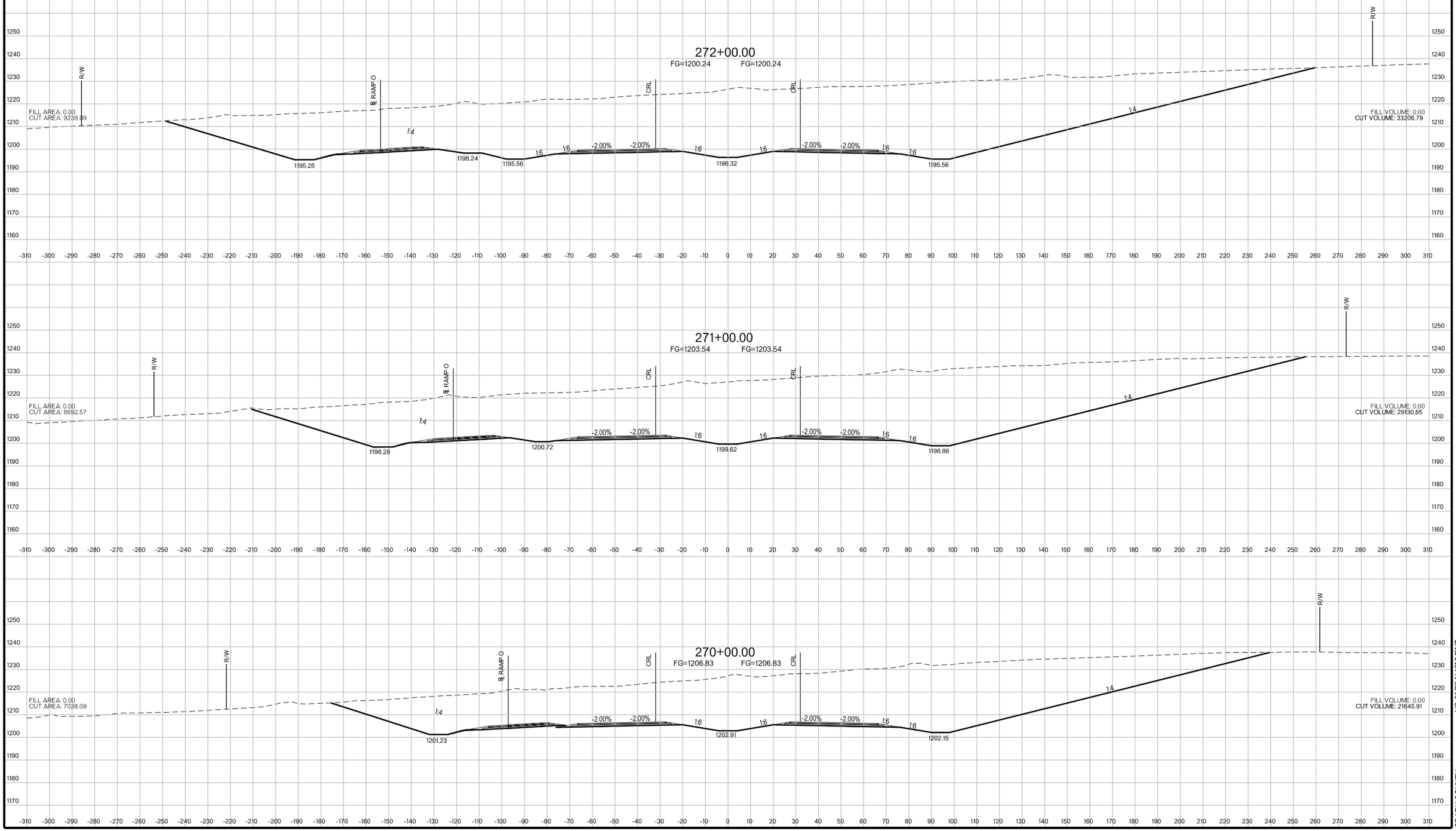




US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X072

PROPOSED
R/W
AUGUST 2017

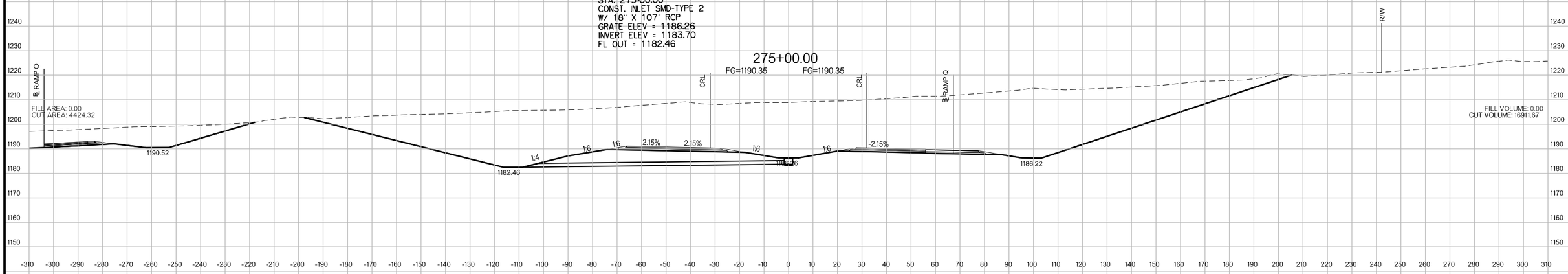


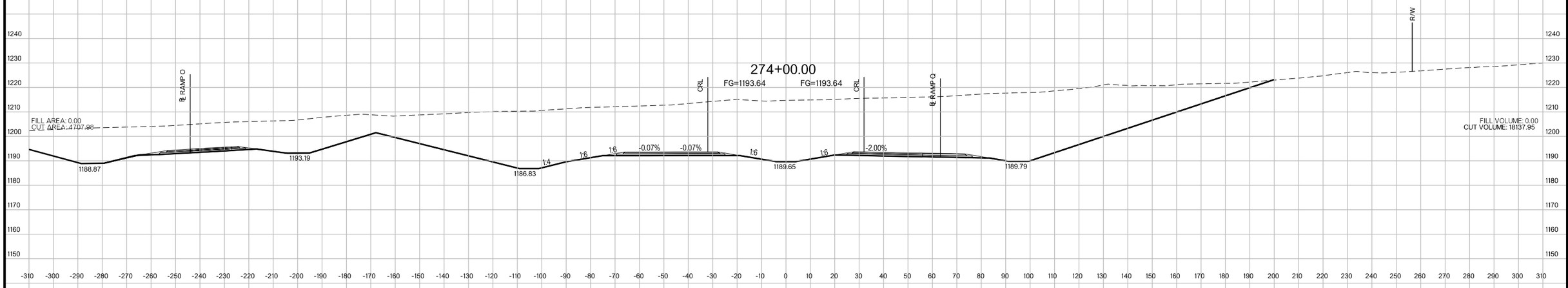
US-81 REALIGNMENT
GRADY COUNTY

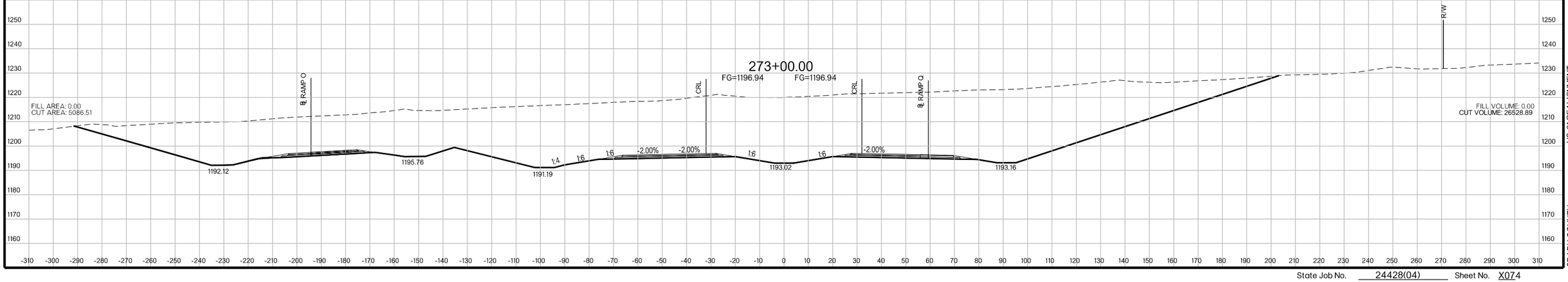
State Job No. 24428(04) Sheet No. X073

PROPOSED
R/W
AUGUST 2017

STR. NO. 127
STA. 275+00.00
CONST. INLET SMD-TYPE 2
W/ 18" X 107' RCP
GRATE ELEV = 1186.26
INVERT ELEV = 1183.70
FL OUT = 1182.46



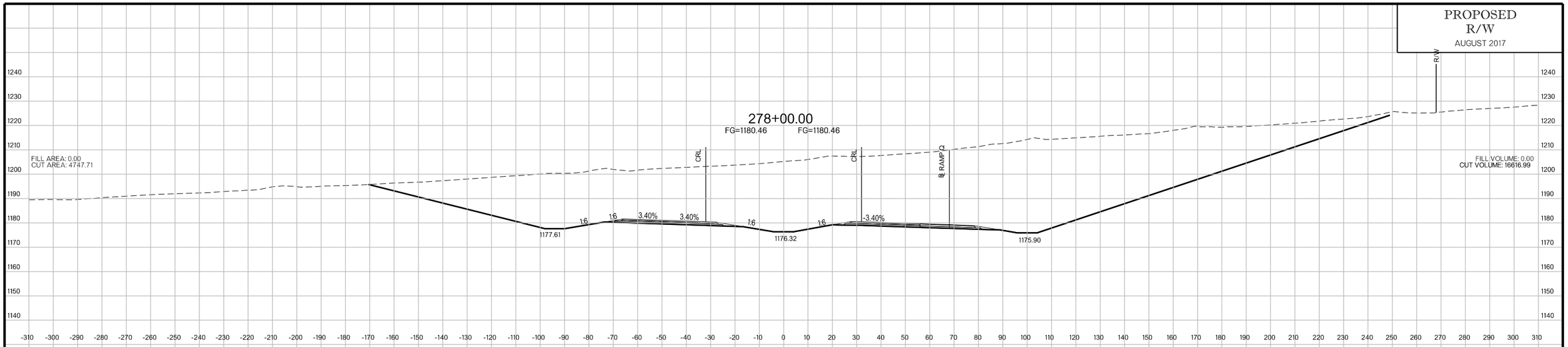


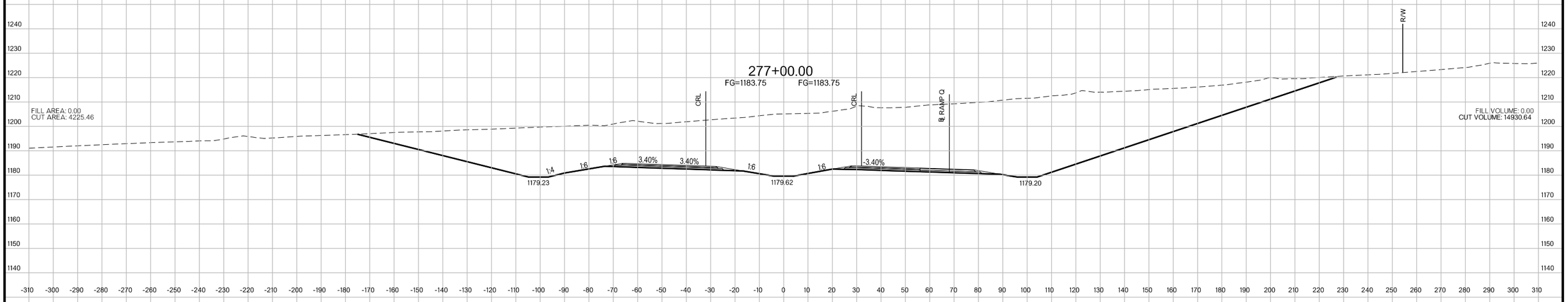


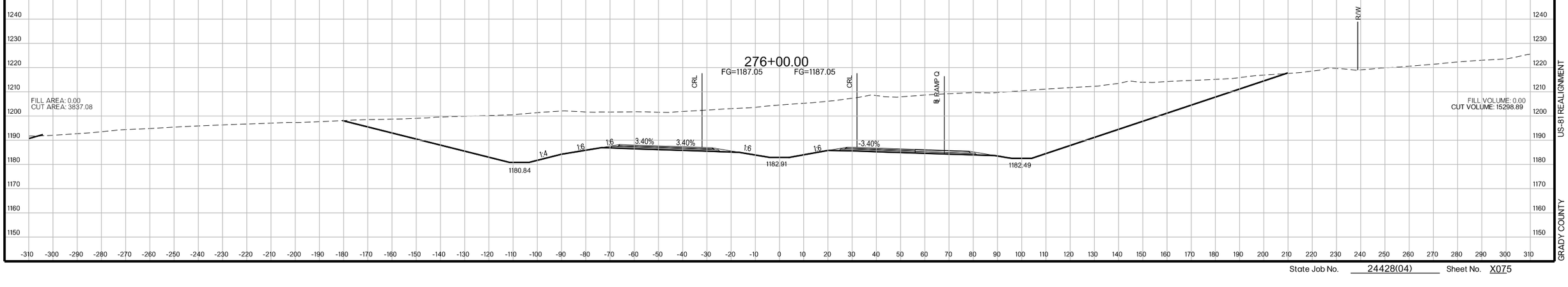
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X074

PROPOSED
R/W
AUGUST 2017



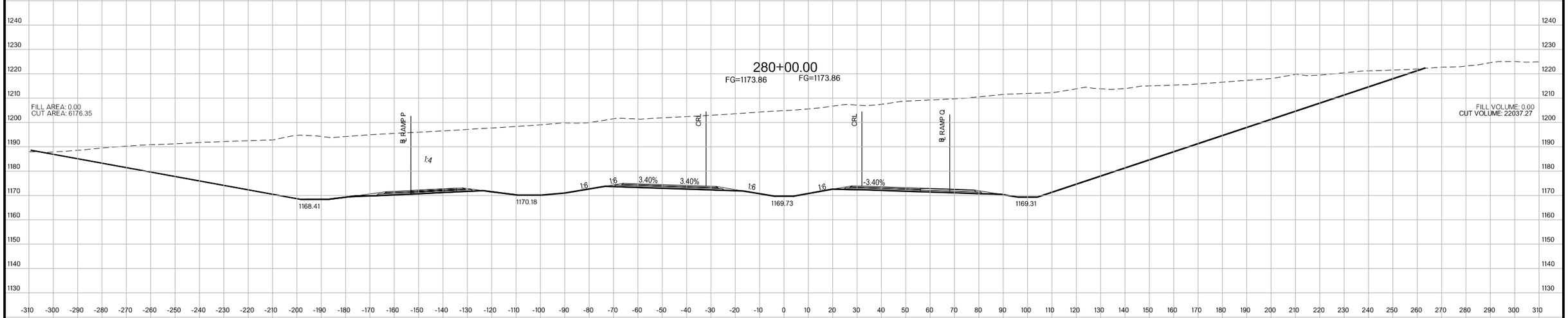


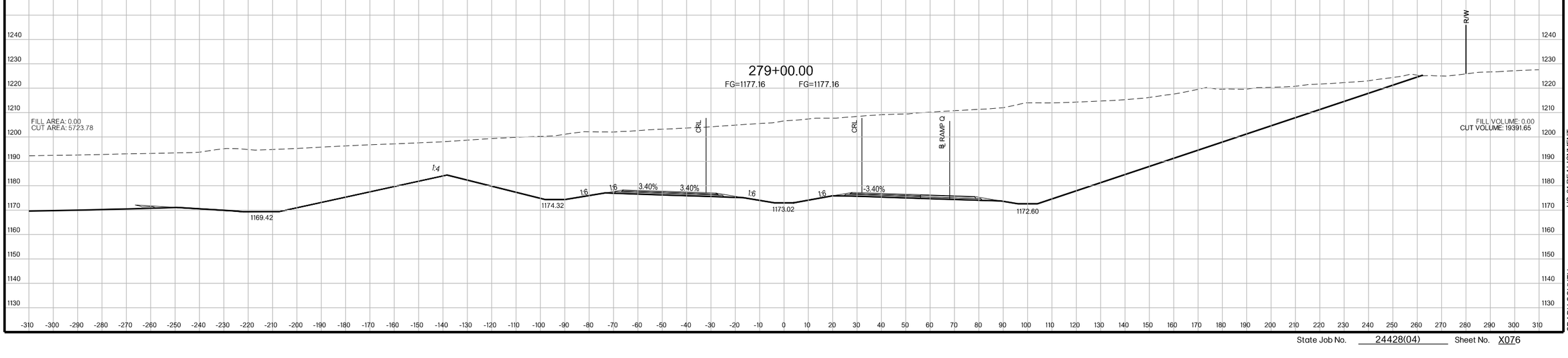


US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X075

PROPOSED
R/W
AUGUST 2017

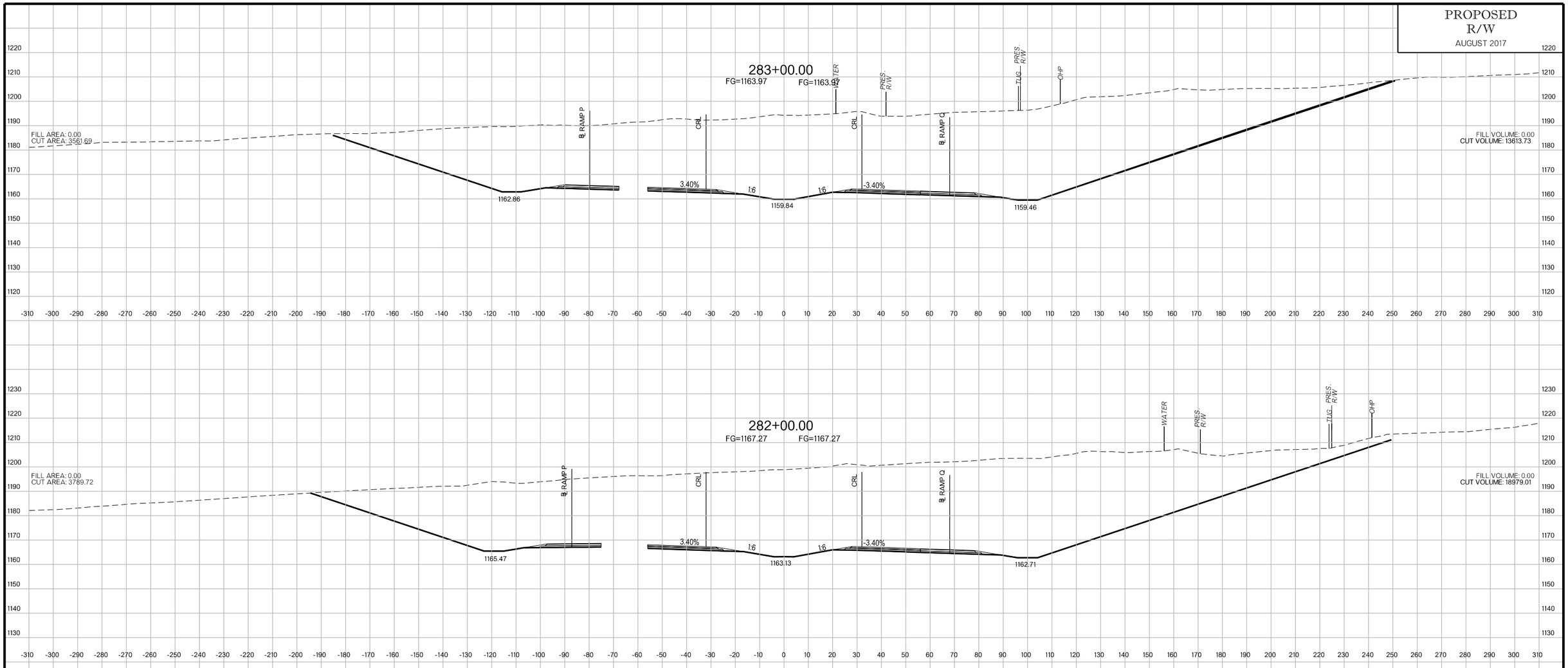




US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X076

PROPOSED
R/W
AUGUST 2017



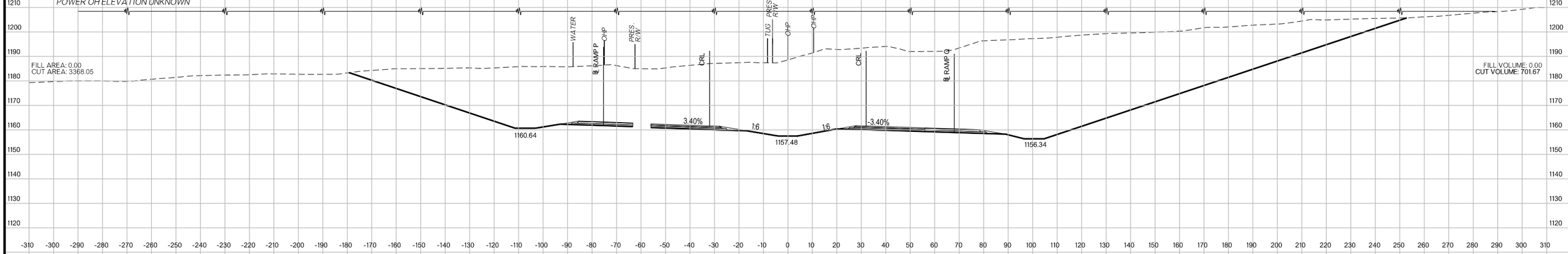
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X077

PROPOSED
R/W
AUGUST 2017

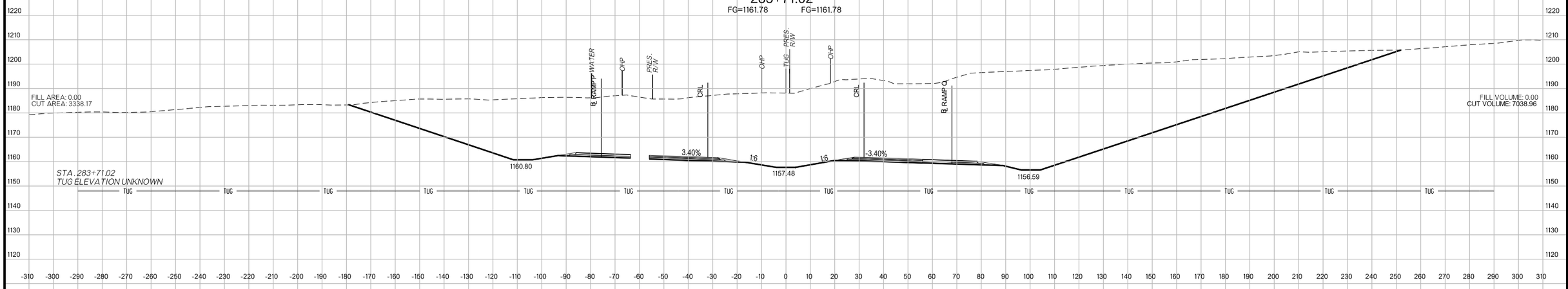
283+76.67

FG=1161.62 FG=1161.62



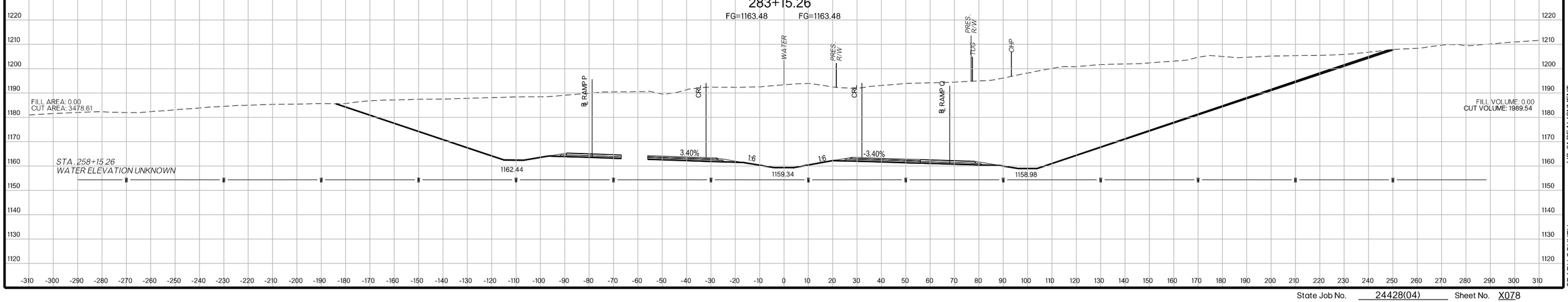
283+71.02

FG=1161.78 FG=1161.78



283+15.26

FG=1163.48 FG=1163.48



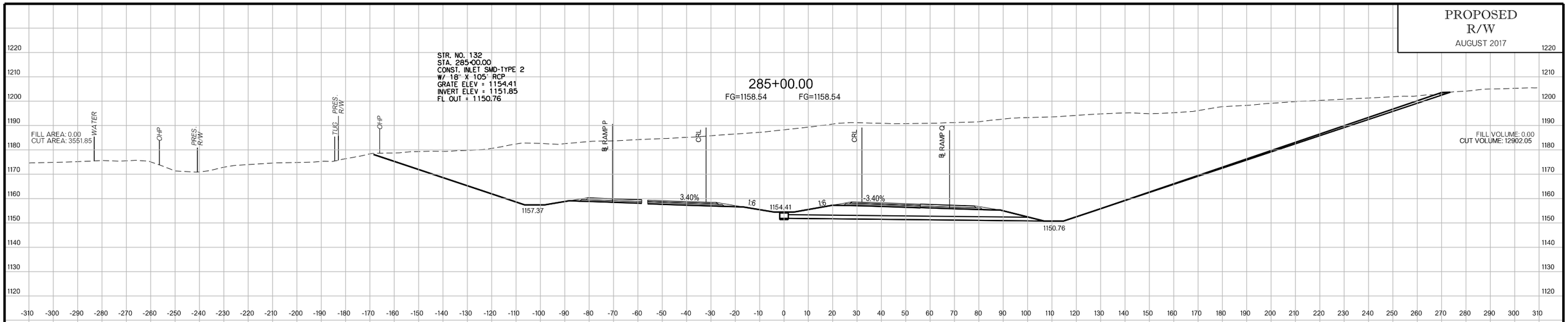
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X078

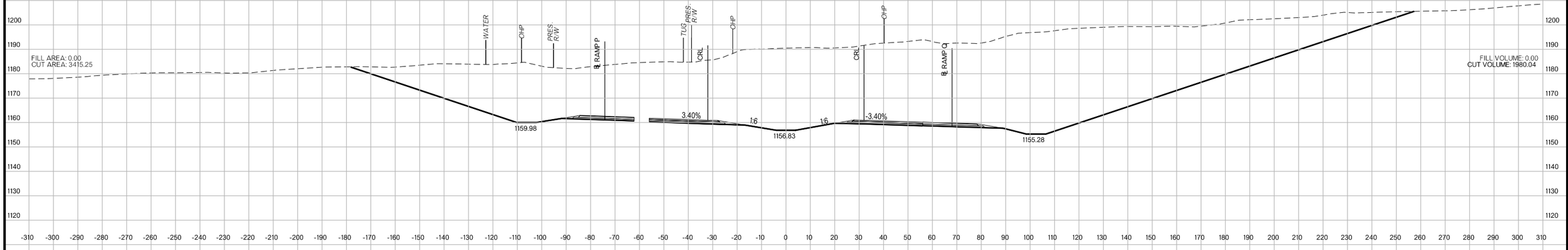
PROPOSED
R/W
AUGUST 2017

STR. NO. 132
STA. 285+00.00
CONST. INLET SMD-TYPE 2
W/ 18" X 105° RCP
GRATE ELEV = 1154.41
INVERT ELEV = 1151.85
FL OUT = 1150.76

285+00.00
FG=1158.54 FG=1158.54

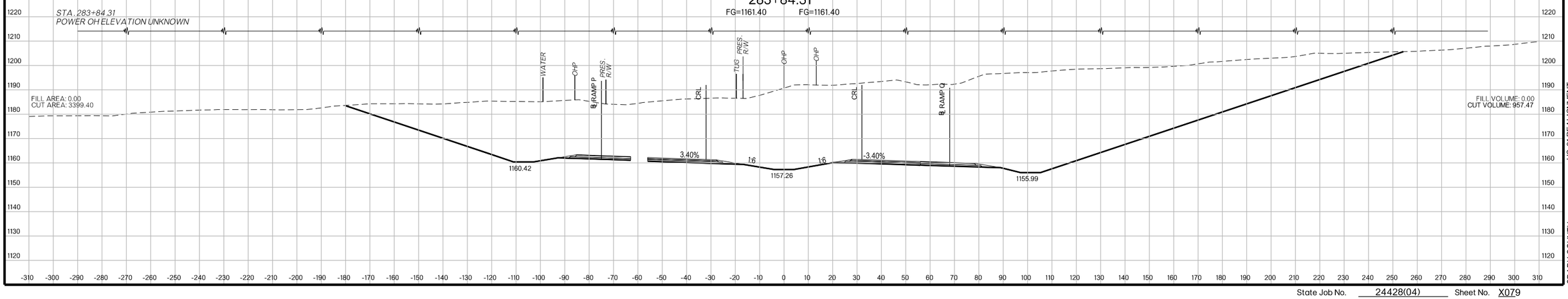


284+00.00
FG=1160.97 FG=1160.97



STA. 283+84.31
POWER OH ELEVATION UNKNOWN

283+84.31
FG=1161.40 FG=1161.40



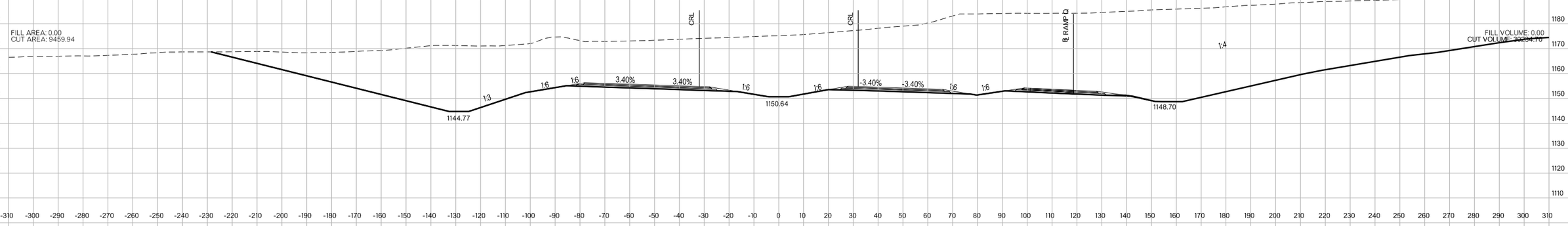
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X079

PROPOSED
R/W
AUGUST 2017

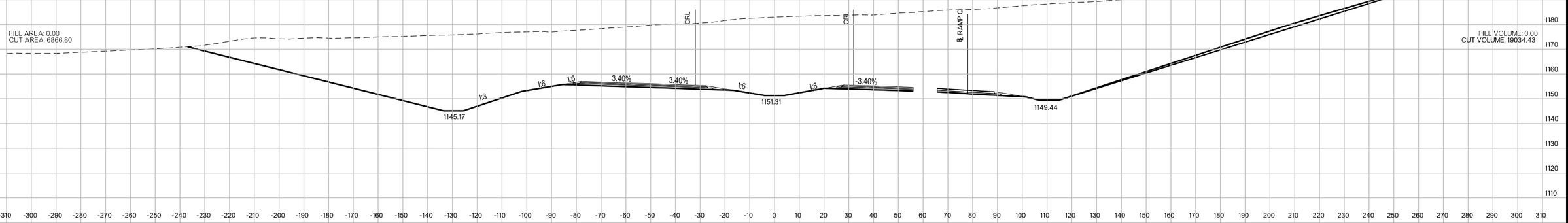
288+00.00

FG=1154.78 FG=1154.78



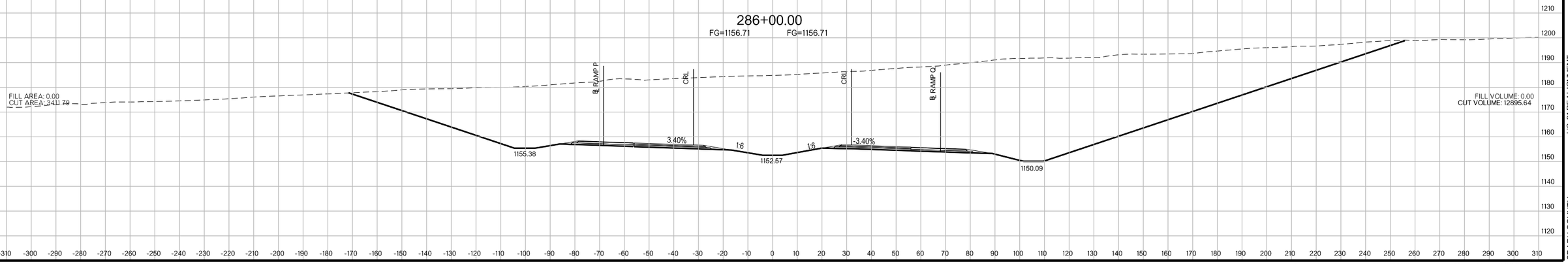
287+00.00

FG=1155.45 FG=1155.45



286+00.00

FG=1156.71 FG=1156.71



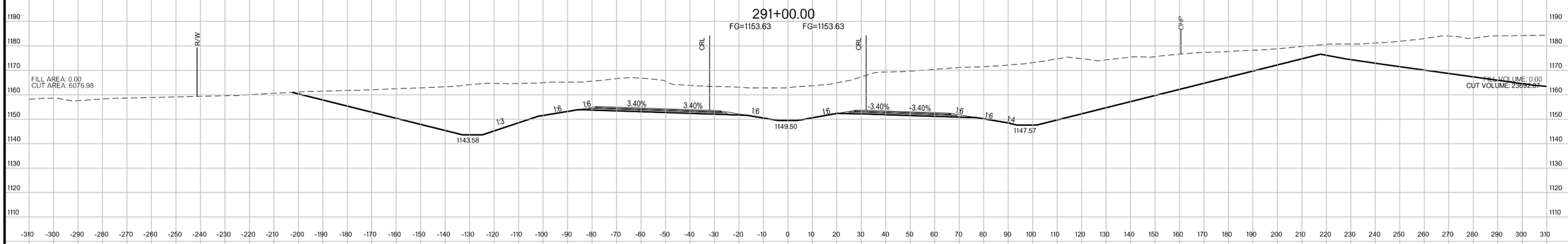
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X080

PROPOSED
R/W
AUGUST 2017

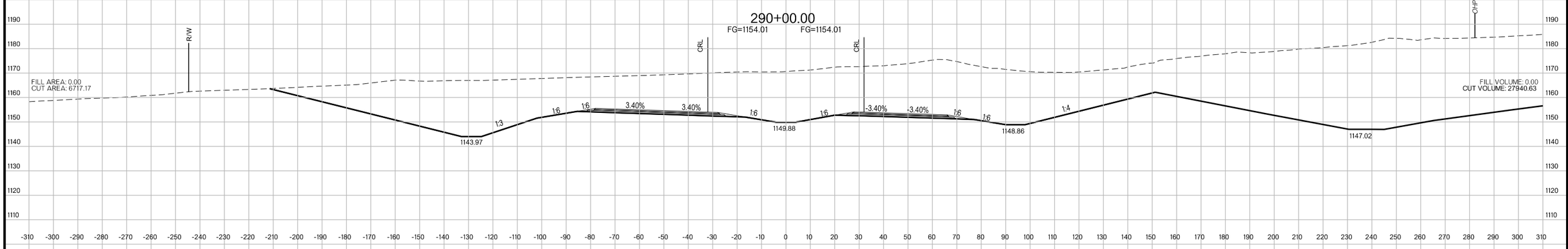
291+00.00

FG=1153.63 FG=1153.63



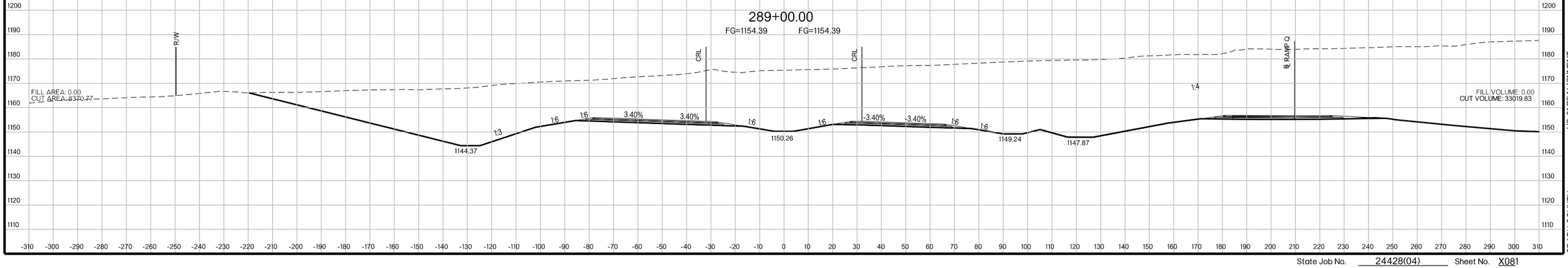
290+00.00

FG=1154.01 FG=1154.01



289+00.00

FG=1154.39 FG=1154.39



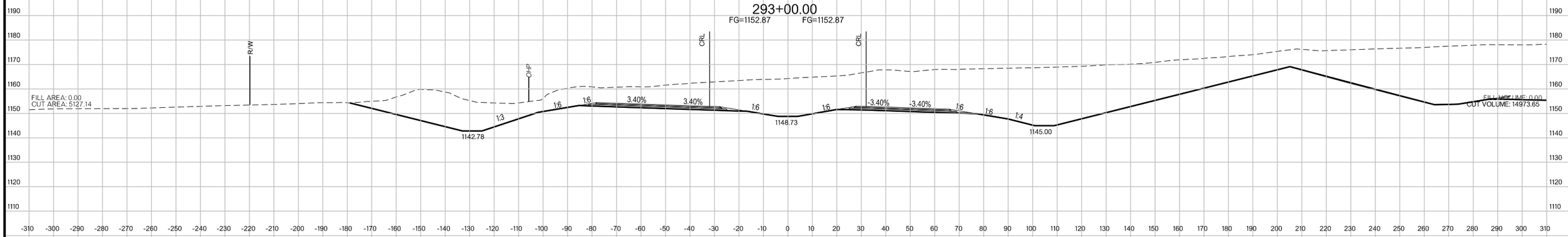
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X081

PROPOSED
R/W
AUGUST 2017

293+00.00

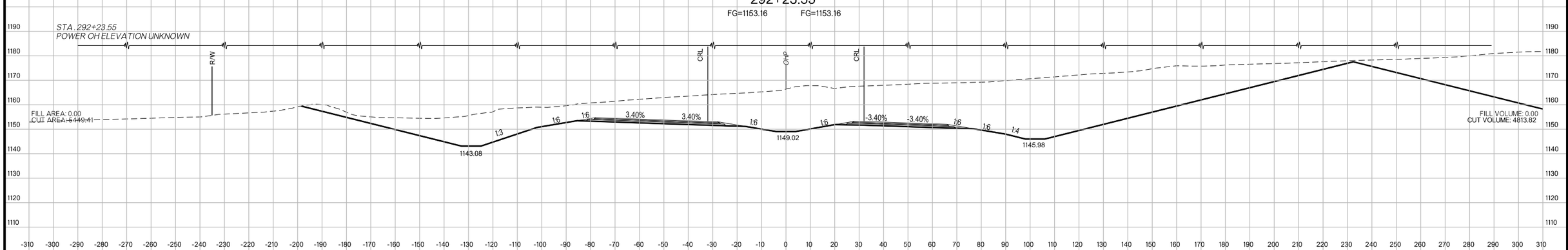
FG=1152.87 FG=1152.87



292+23.55

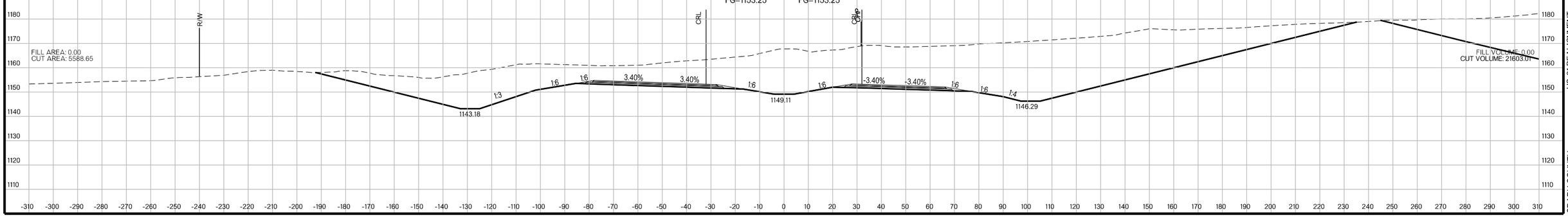
FG=1153.16 FG=1153.16

STA. 292+23.55
POWER OH ELEVATION UNKNOWN



292+00.00

FG=1153.25 FG=1153.25



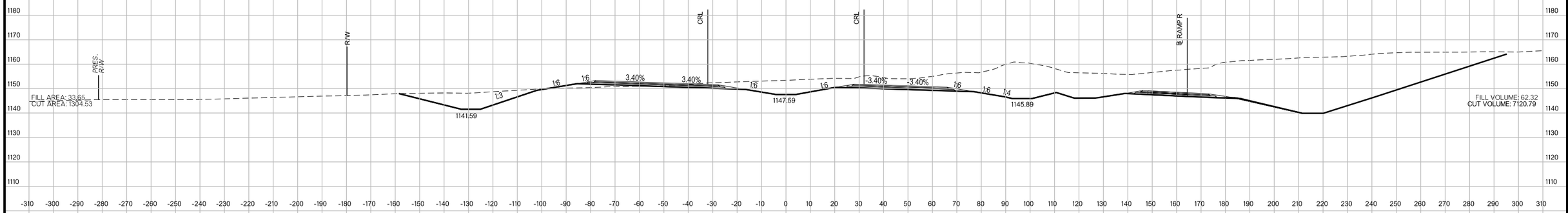
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X082

PROPOSED
R/W
AUGUST 2017

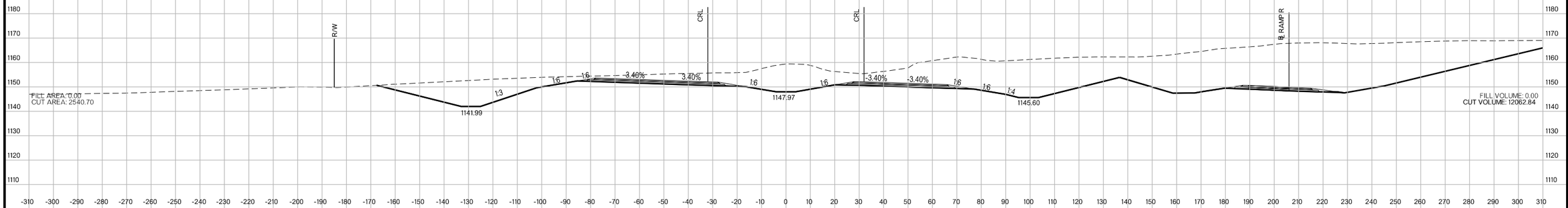
296+00.00

FG=1151.72 FG=1151.72



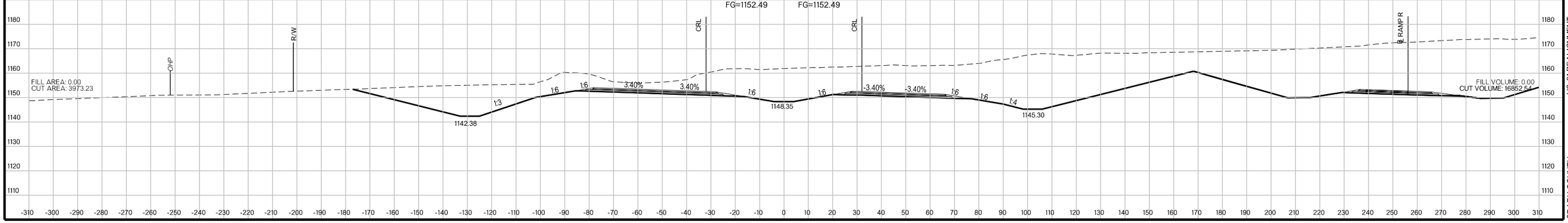
295+00.00

FG=1152.11 FG=1152.11



294+00.00

FG=1152.49 FG=1152.49



US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X083

PROPOSED
R/W
AUGUST 2017

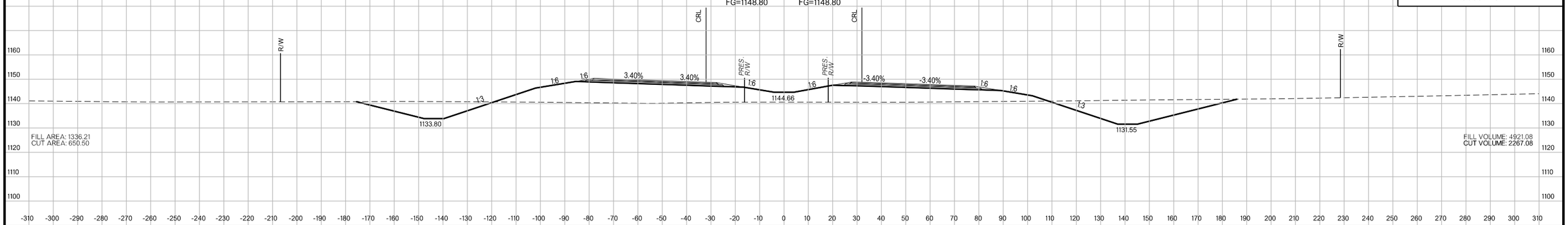
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X084

PROPOSED
R/W
AUGUST 2017

304+00.00

FG=1148.80 FG=1148.80

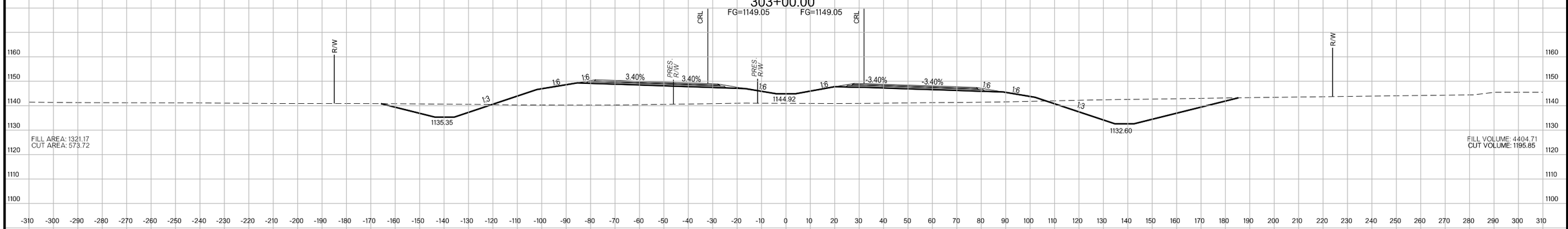


FILL AREA: 1336.21
CUT AREA: 650.50

FILL VOLUME: 4921.08
CUT VOLUME: 2267.08

303+00.00

FG=1149.05 FG=1149.05

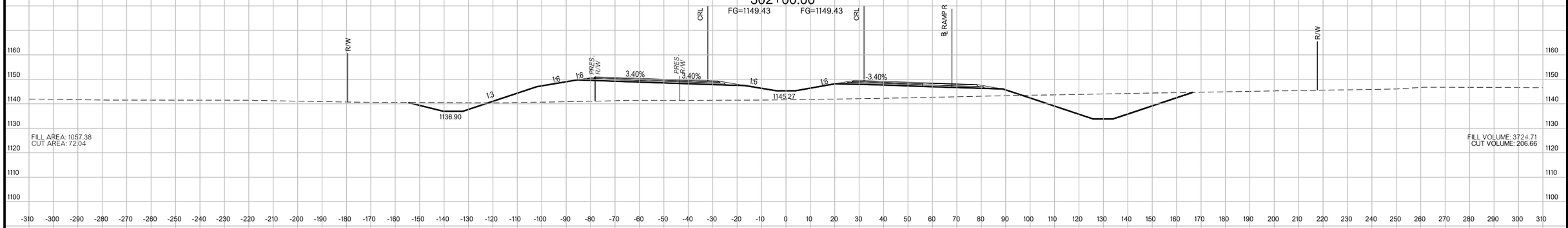


FILL AREA: 1321.17
CUT AREA: 573.72

FILL VOLUME: 4404.71
CUT VOLUME: 1195.85

302+00.00

FG=1149.43 FG=1149.43

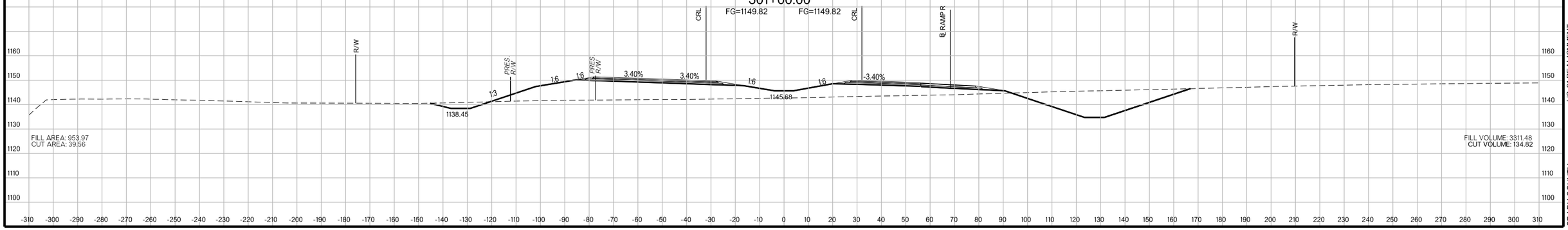


FILL AREA: 1057.38
CUT AREA: 72.04

FILL VOLUME: 3724.71
CUT VOLUME: 206.66

301+00.00

FG=1149.82 FG=1149.82



FILL AREA: 953.97
CUT AREA: 39.56

FILL VOLUME: 3311.48
CUT VOLUME: 134.82

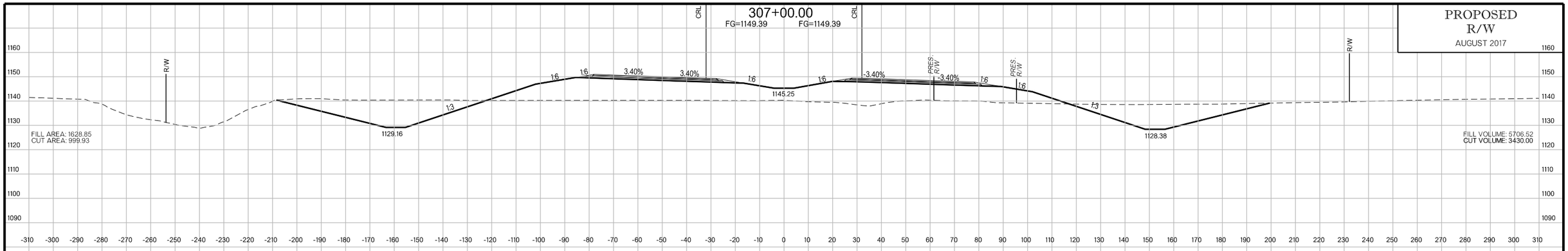
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X085

PROPOSED
R/W
AUGUST 2017

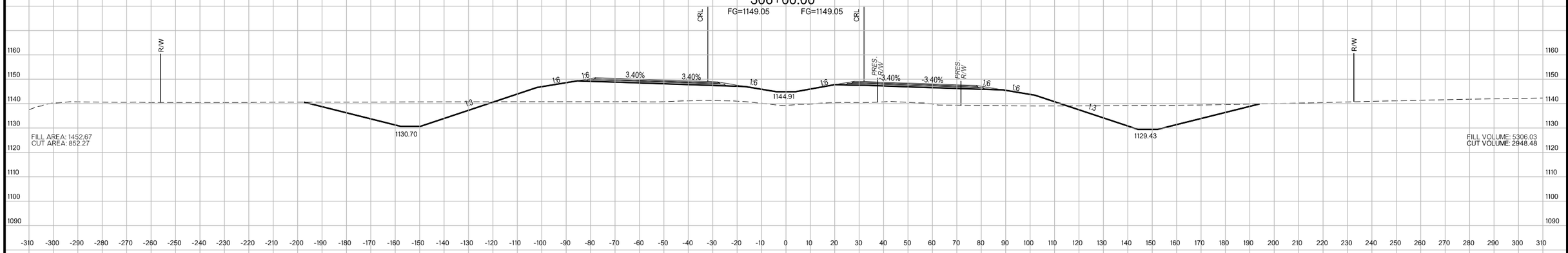
307+00.00

FG=1149.39 FG=1149.39



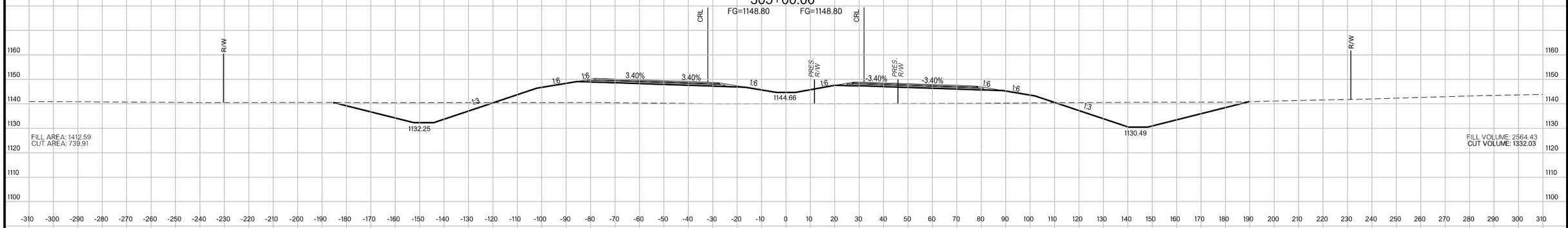
306+00.00

FG=1149.05 FG=1149.05



305+00.00

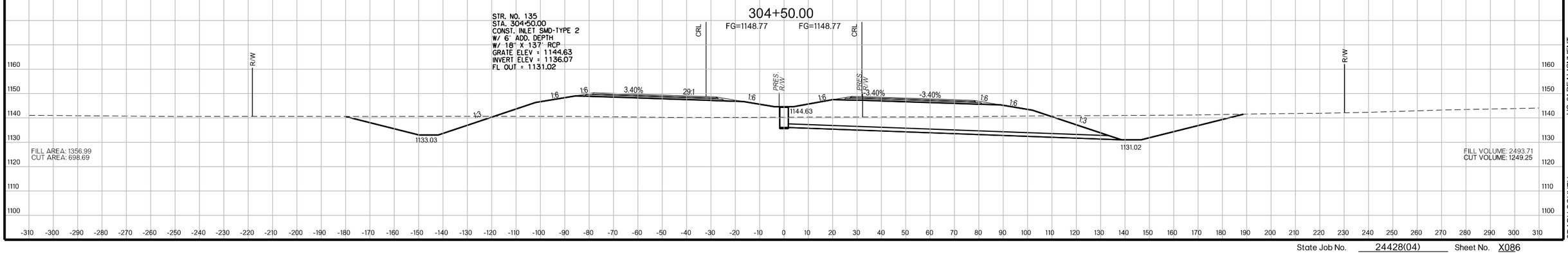
FG=1148.80 FG=1148.80



304+50.00

STR. NO. 135
STA. 304+50.00
CONST. INLET SMD-TYPE 2
W/ 6' ADD. DEPTH
W/ 18" X 137' RCP
GRATE ELEV = 1144.63
INVERT ELEV = 1136.07
FL OUT = 1131.02

FG=1148.77 FG=1148.77



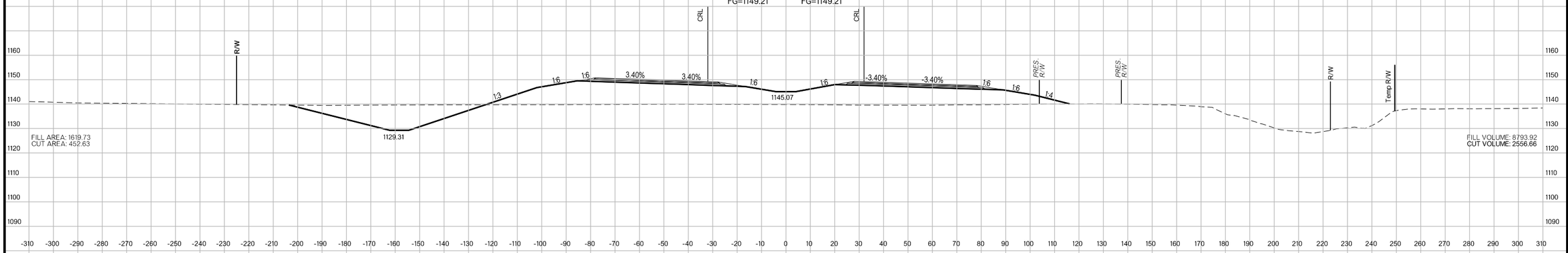
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X086

PROPOSED
R/W
AUGUST 2017

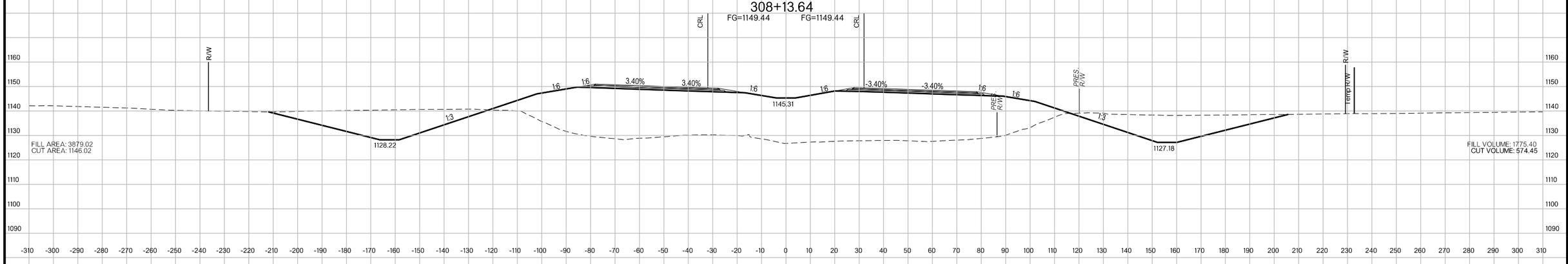
309+00.00

FG=1149.21 FG=1149.21



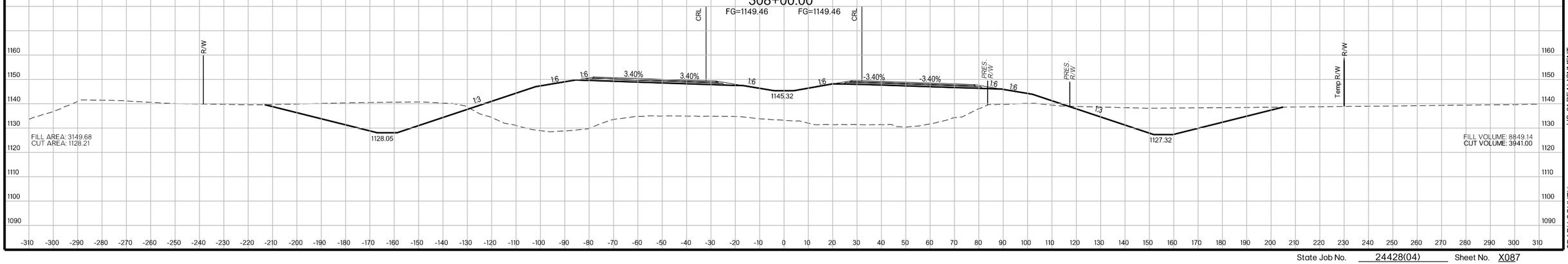
308+13.64

FG=1149.44 FG=1149.44



308+00.00

FG=1149.46 FG=1149.46



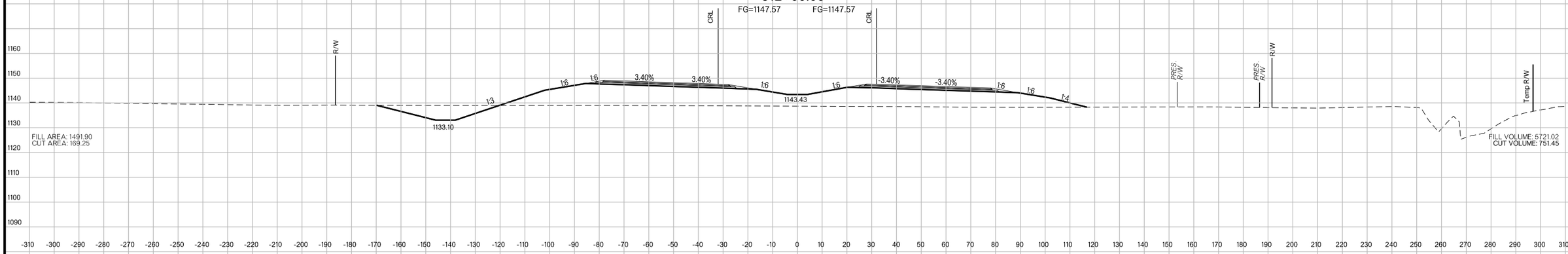
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X087

PROPOSED
R/W
AUGUST 2017

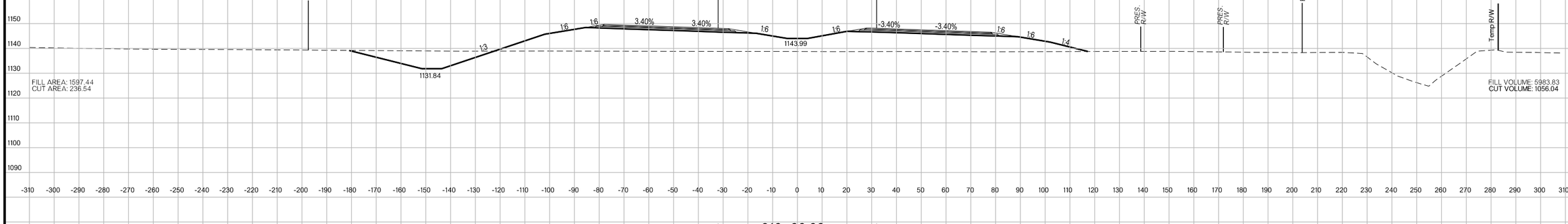
312+00.00

FG=1147.57 FG=1147.57



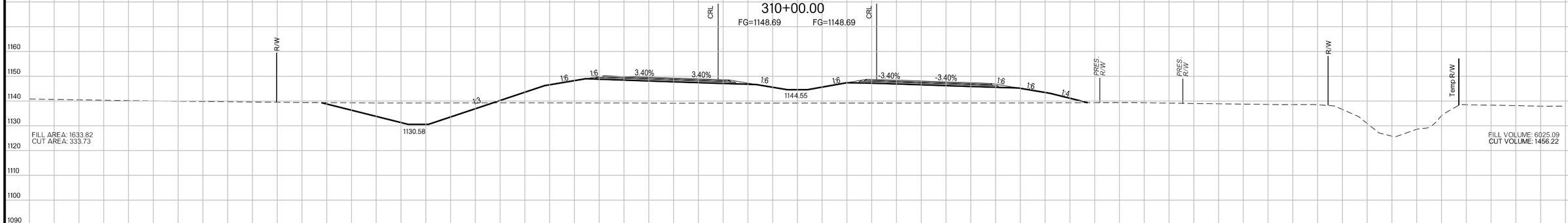
311+00.00

FG=1148.13 FG=1148.13



310+00.00

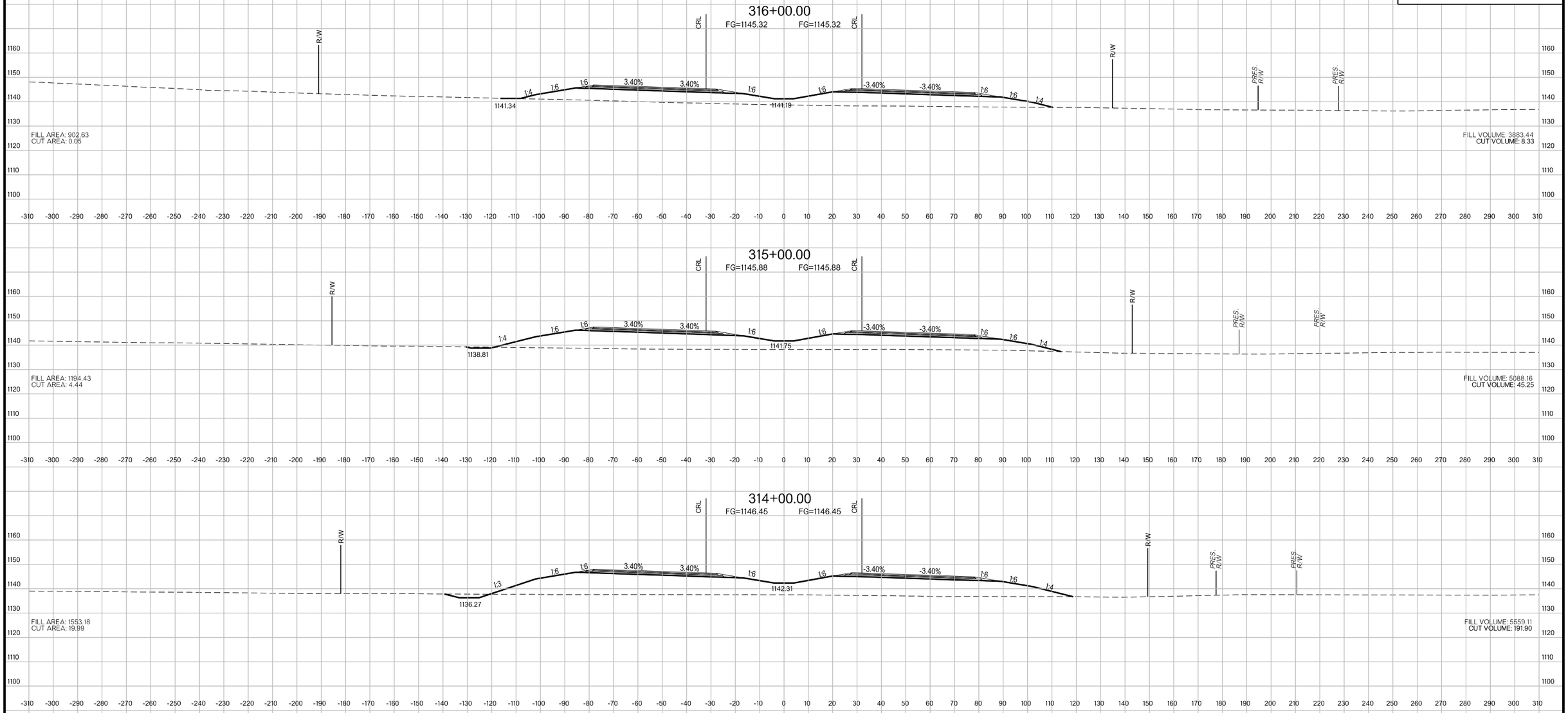
FG=1148.69 FG=1148.69



US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X088

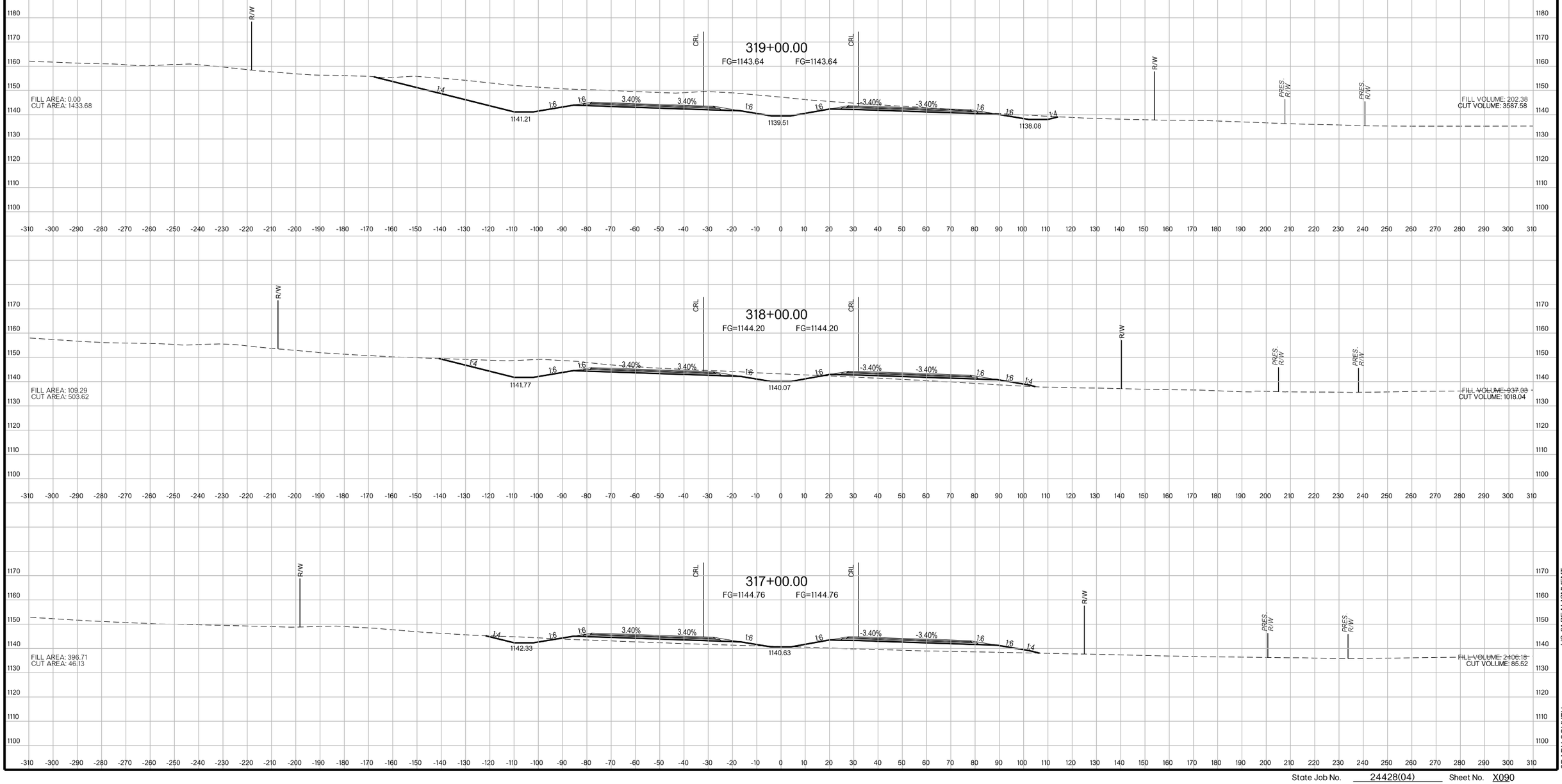
PROPOSED
R/W
AUGUST 2017



US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X089

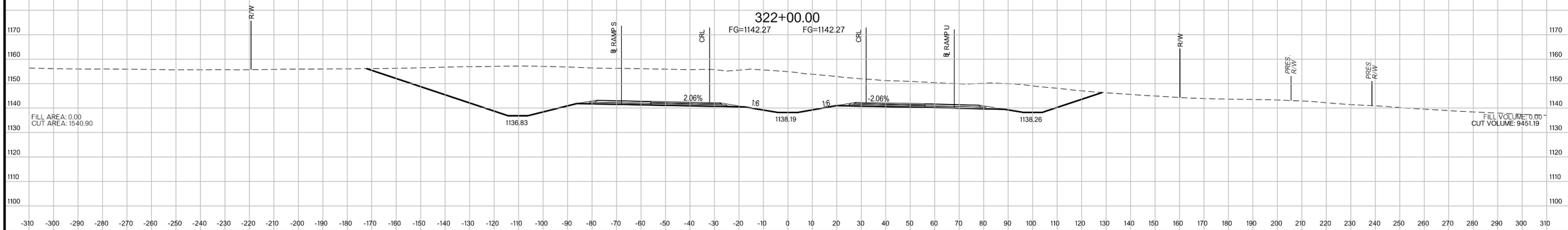
PROPOSED
R/W
AUGUST 2017

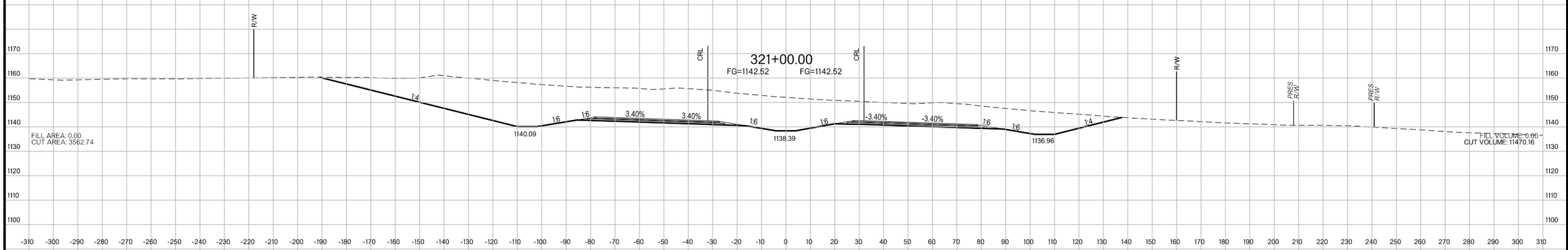


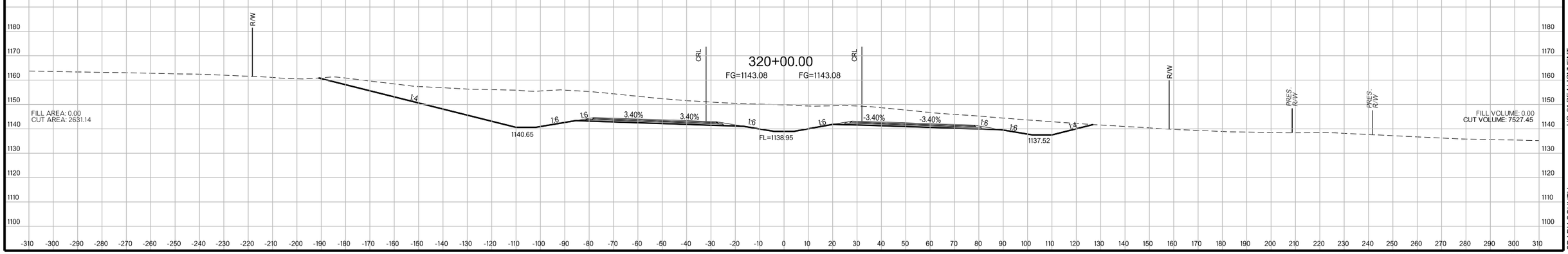
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X090

PROPOSED
R/W
AUGUST 2017





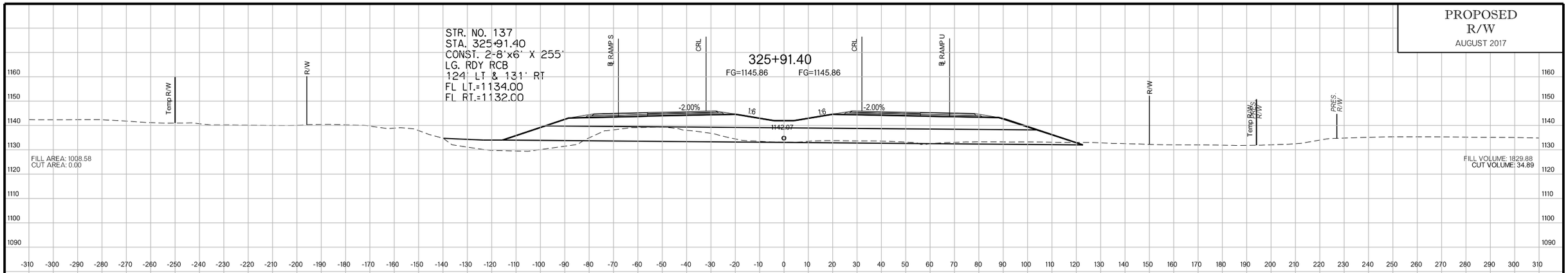


US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X091

PROPOSED
R/W
AUGUST 2017

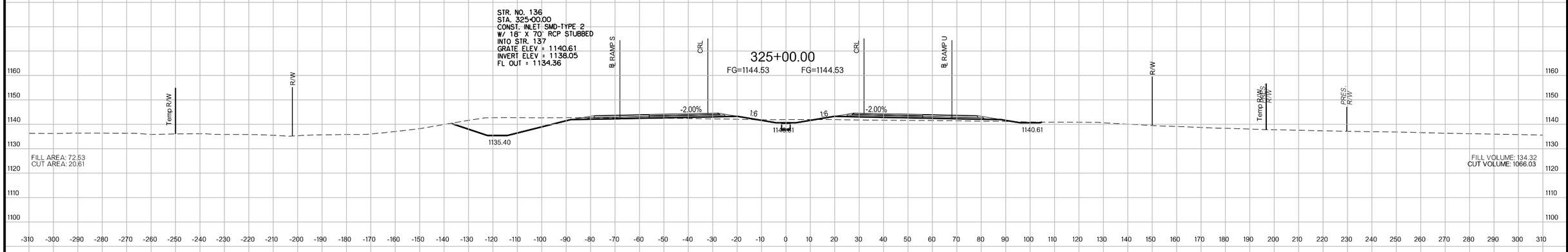
STR. NO. 137
STA. 325+91.40
CONST. 2-8'x6' X 255'
LG. RDY RCB
124' LT & 131' RT
FL LT.=1134.00
FL RT.=1132.00



FILL AREA: 1008.58
CUT AREA: 0.00

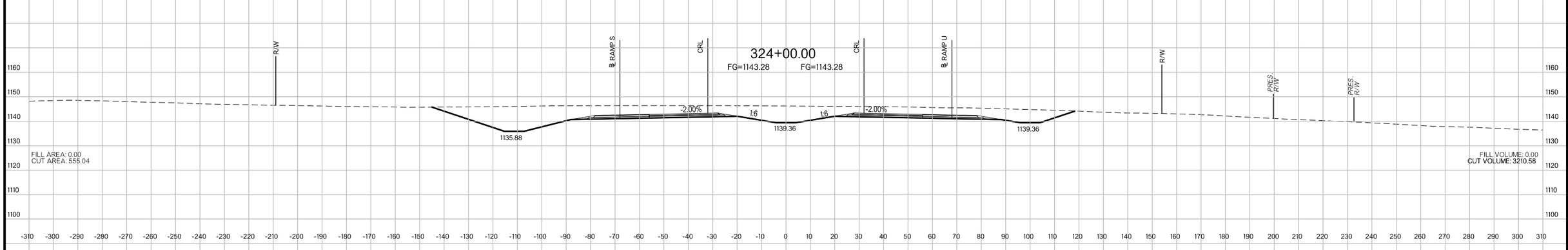
FILL VOLUME: 1829.88
CUT VOLUME: 34.89

STR. NO. 136
STA. 325+00.00
CONST. INLET SMD-TYPE 2
W/ 18" X 70' RCP STUBBED
INTO STR. 137
GRATE ELEV = 1140.61
INVERT ELEV = 1138.05
FL OUT = 1134.36



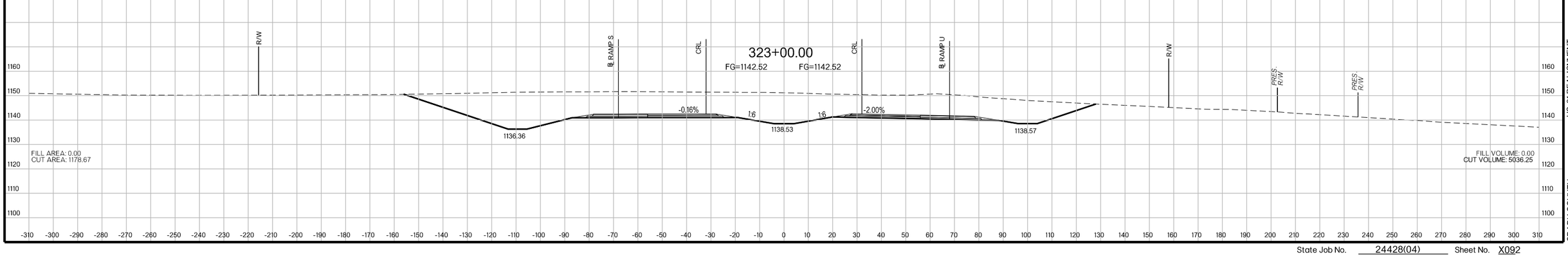
FILL AREA: 72.53
CUT AREA: 20.61

FILL VOLUME: 134.32
CUT VOLUME: 1066.03



FILL AREA: 0.00
CUT AREA: 555.04

FILL VOLUME: 0.00
CUT VOLUME: 3210.58



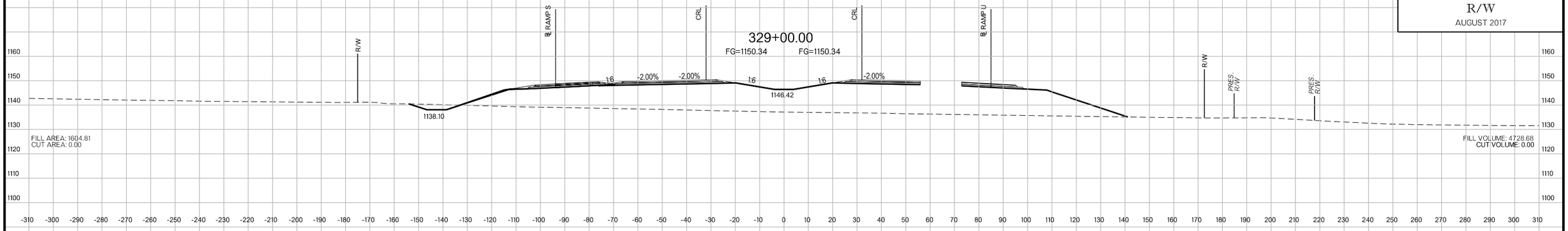
FILL AREA: 0.00
CUT AREA: 1178.67

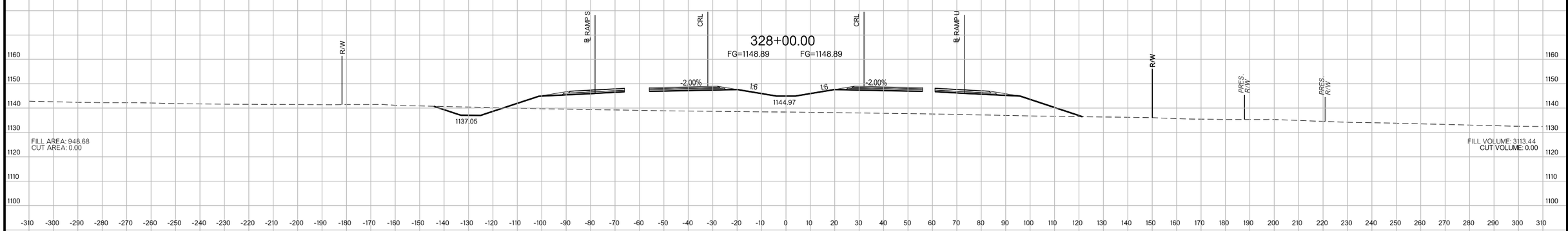
FILL VOLUME: 0.00
CUT VOLUME: 5036.25

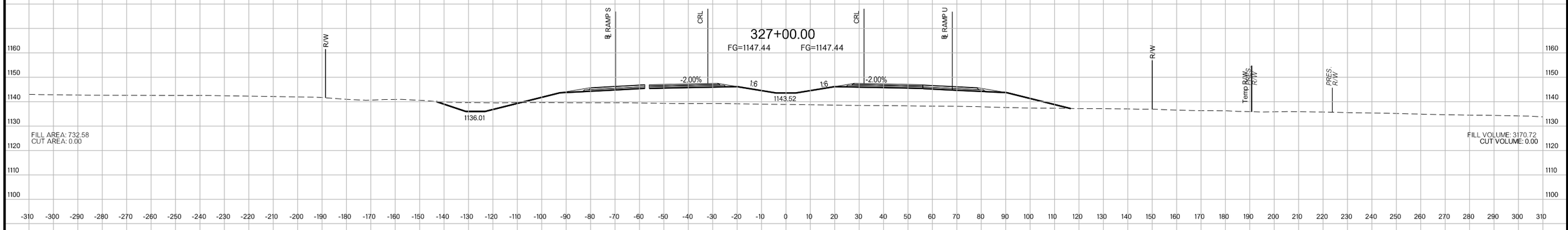
US-81 REALIGNMENT
GRADY COUNTY

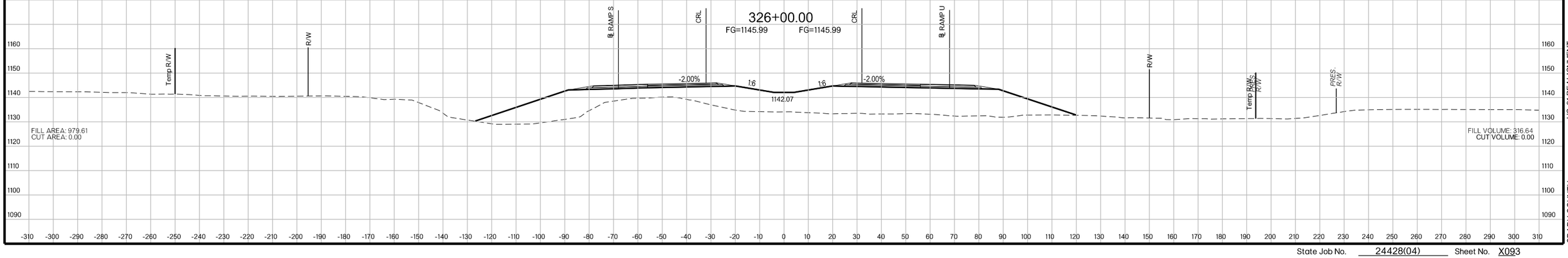
State Job No. 24428(04) Sheet No. X092

PROPOSED
R/W
AUGUST 2017





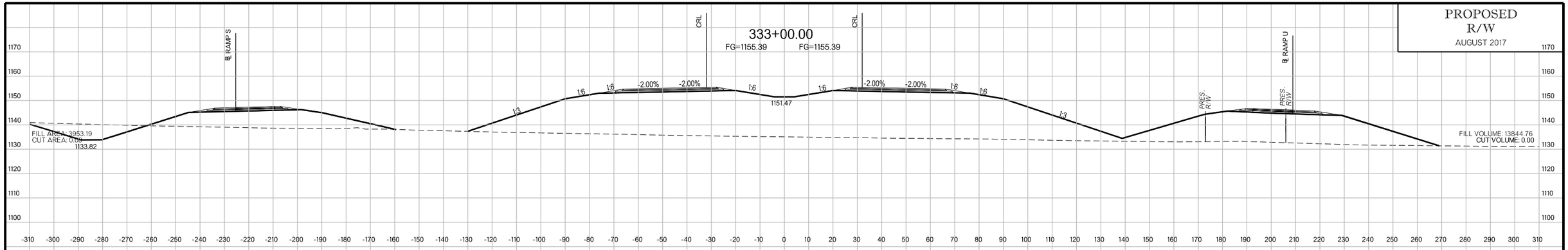


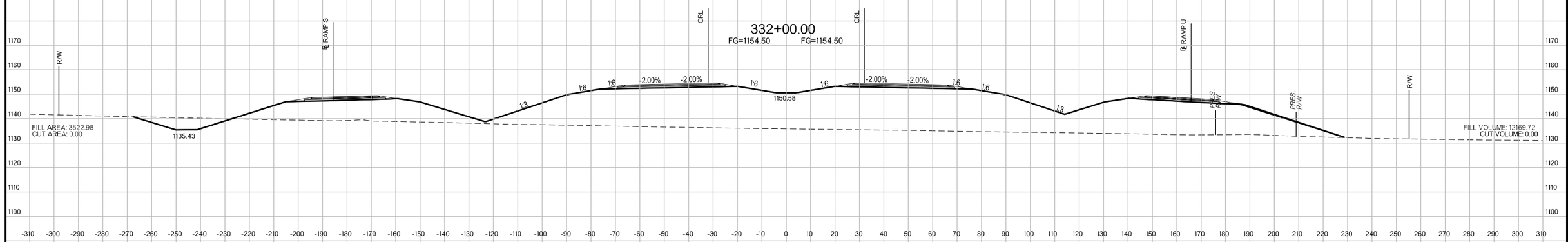


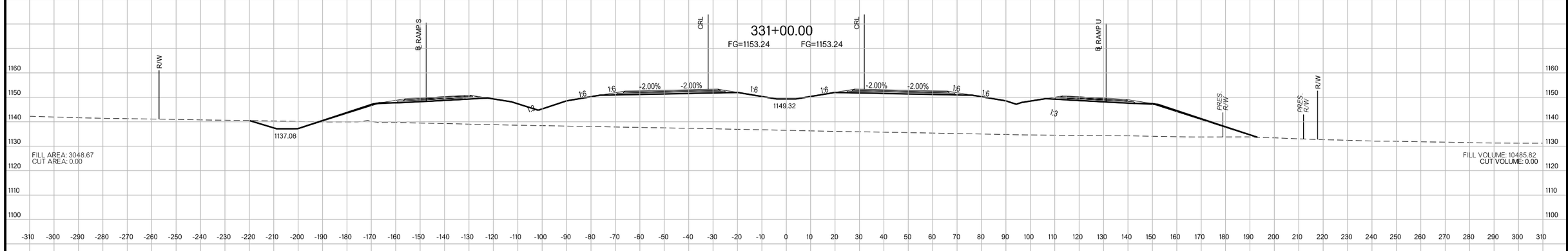
US-81 REALIGNMENT
GRADY COUNTY

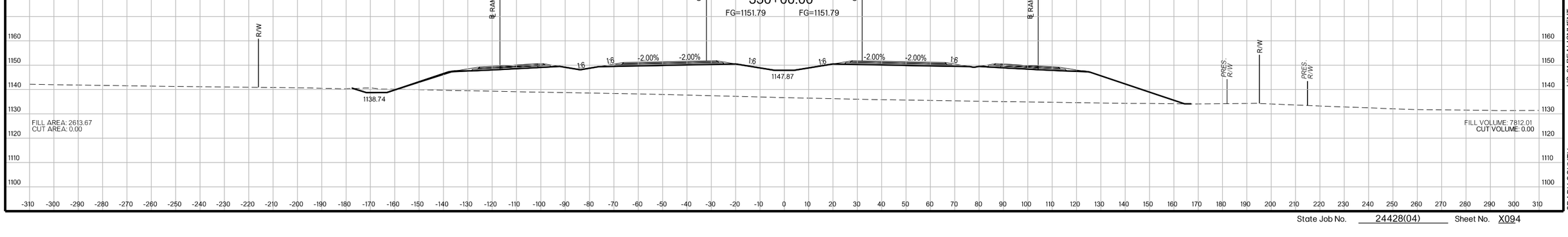
State Job No. 24428(04) Sheet No. X093

PROPOSED
R/W
AUGUST 2017









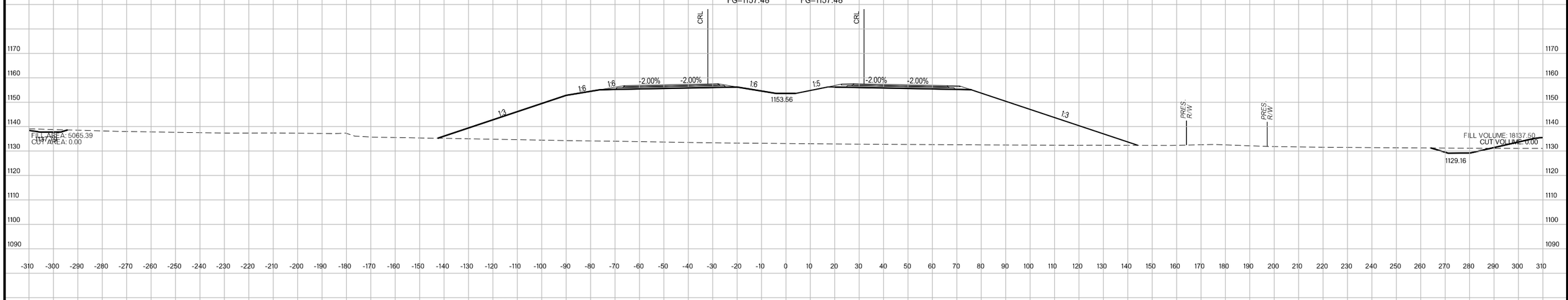
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X094

PROPOSED
R/W
AUGUST 2017

336+00.00

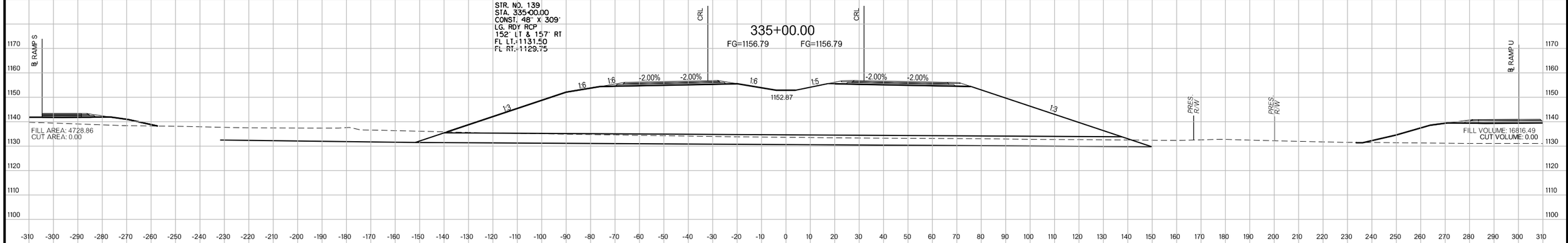
FG=1157.48 FG=1157.48



STR. NO. 139
STA. 335+00.00
CONST. 48" X 309'
LG. RDY RCP
152' LT & 157' RT
FL LT.=1131.50
FL RT.=1129.75

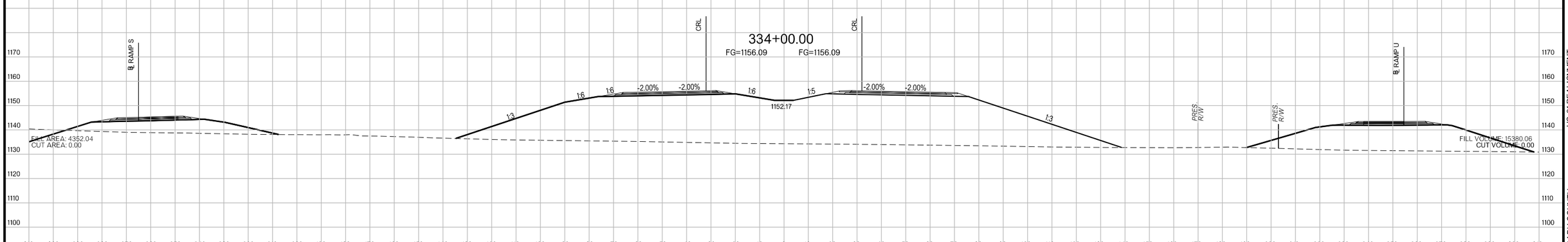
335+00.00

FG=1156.79 FG=1156.79



334+00.00

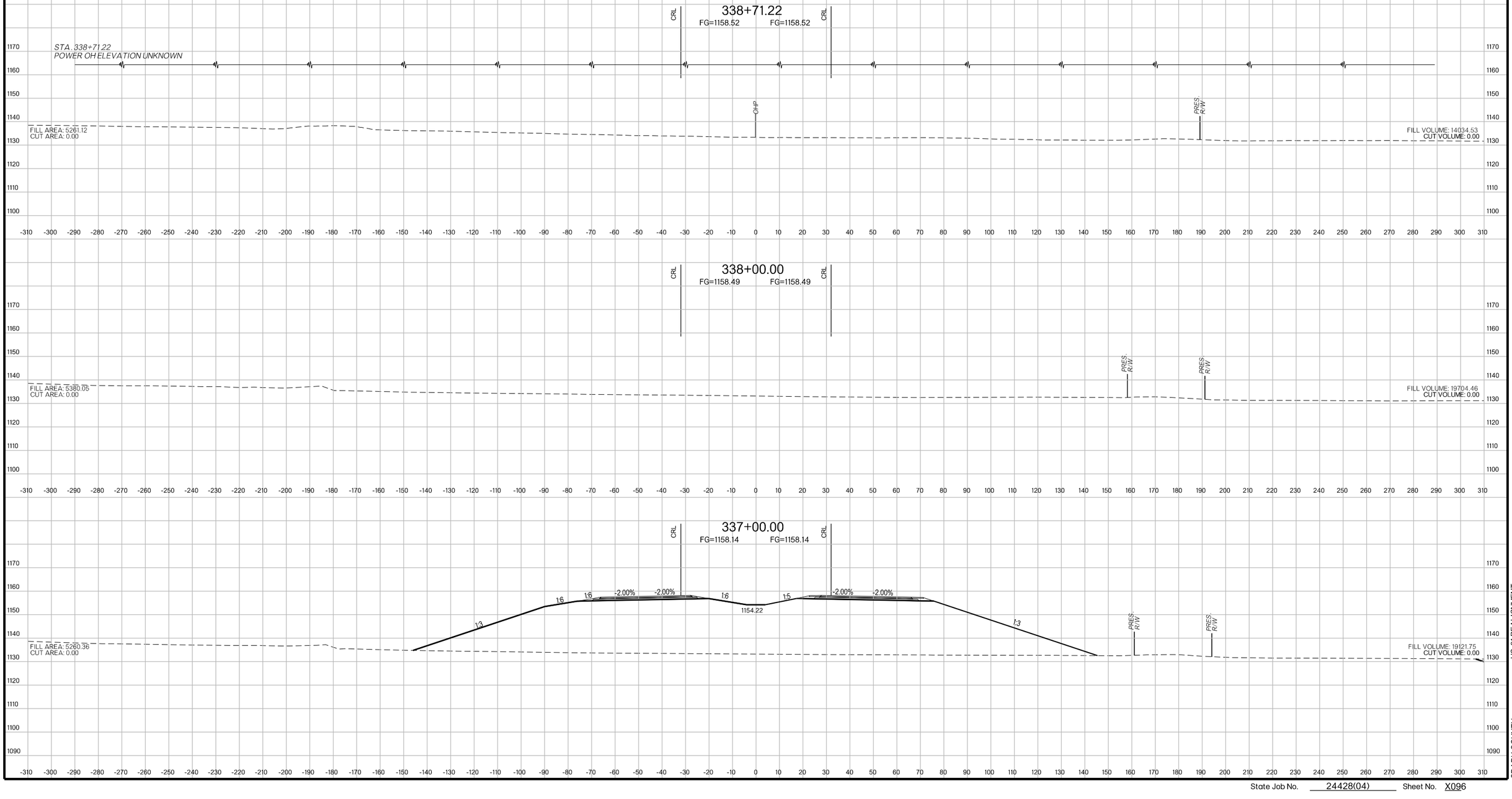
FG=1156.09 FG=1156.09



US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X095

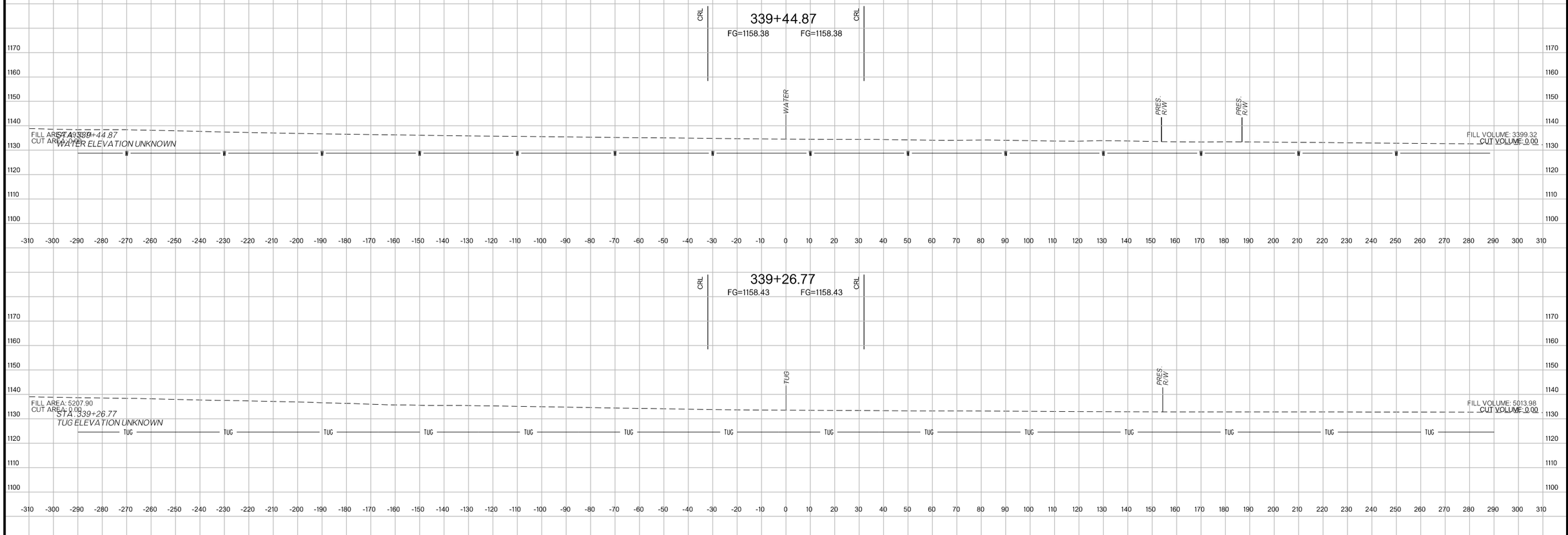
PROPOSED
R/W
AUGUST 2017



US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X096

PROPOSED
R/W
AUGUST 2017



US-81 REALIGNMENT
GRADY COUNTY

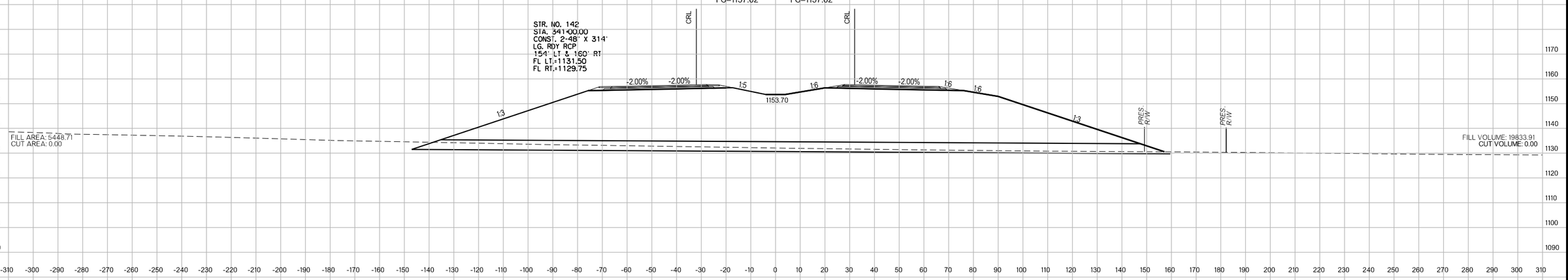
State Job No. 24428(04) Sheet No. X097

PROPOSED
R/W
AUGUST 2017

341+00.00

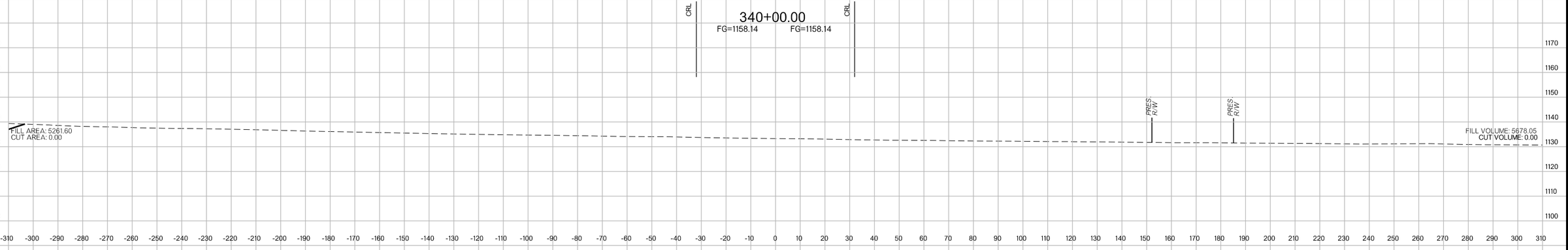
FG=1157.62 FG=1157.62

STR. NO. 142
STA. 341+00.00
CONST. 2-48" X 314'
LG. RDY RCP
154' LT & 160' RT
FL LT.=1131.50
FL RT.=1129.75



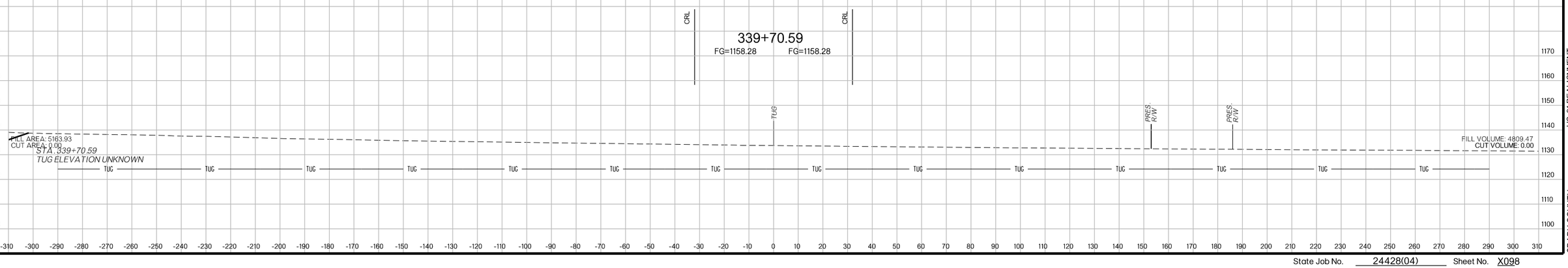
340+00.00

FG=1158.14 FG=1158.14



339+70.59

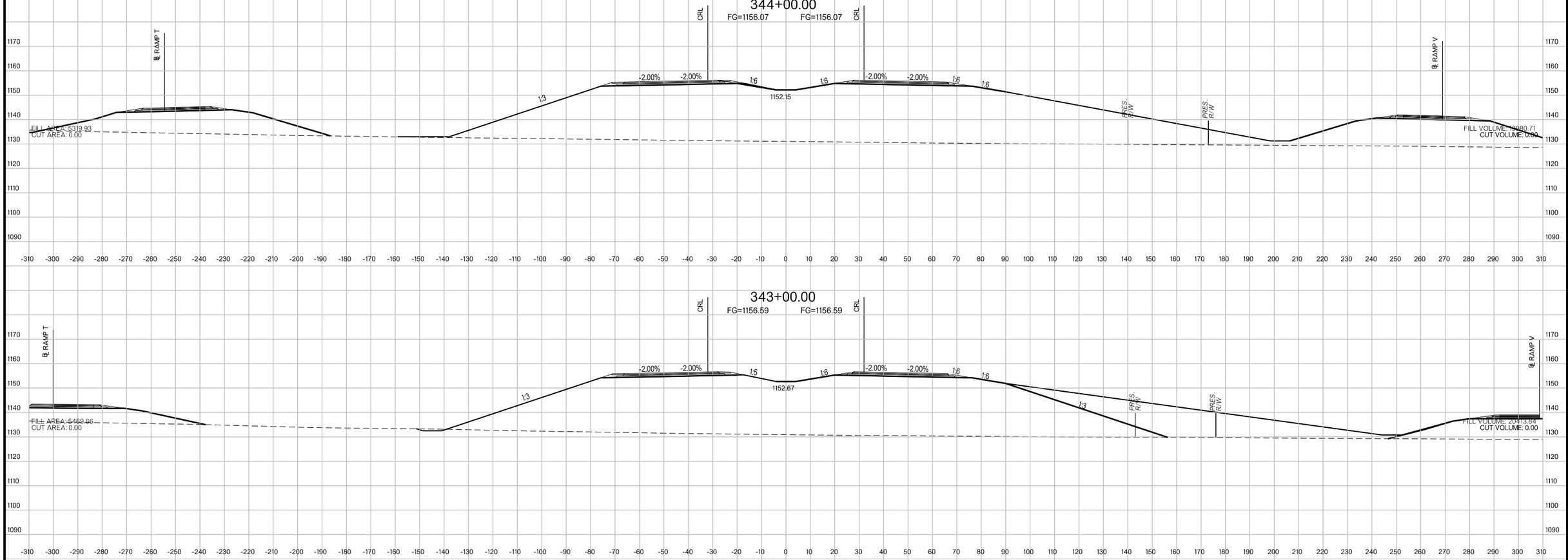
FG=1158.28 FG=1158.28



US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X098

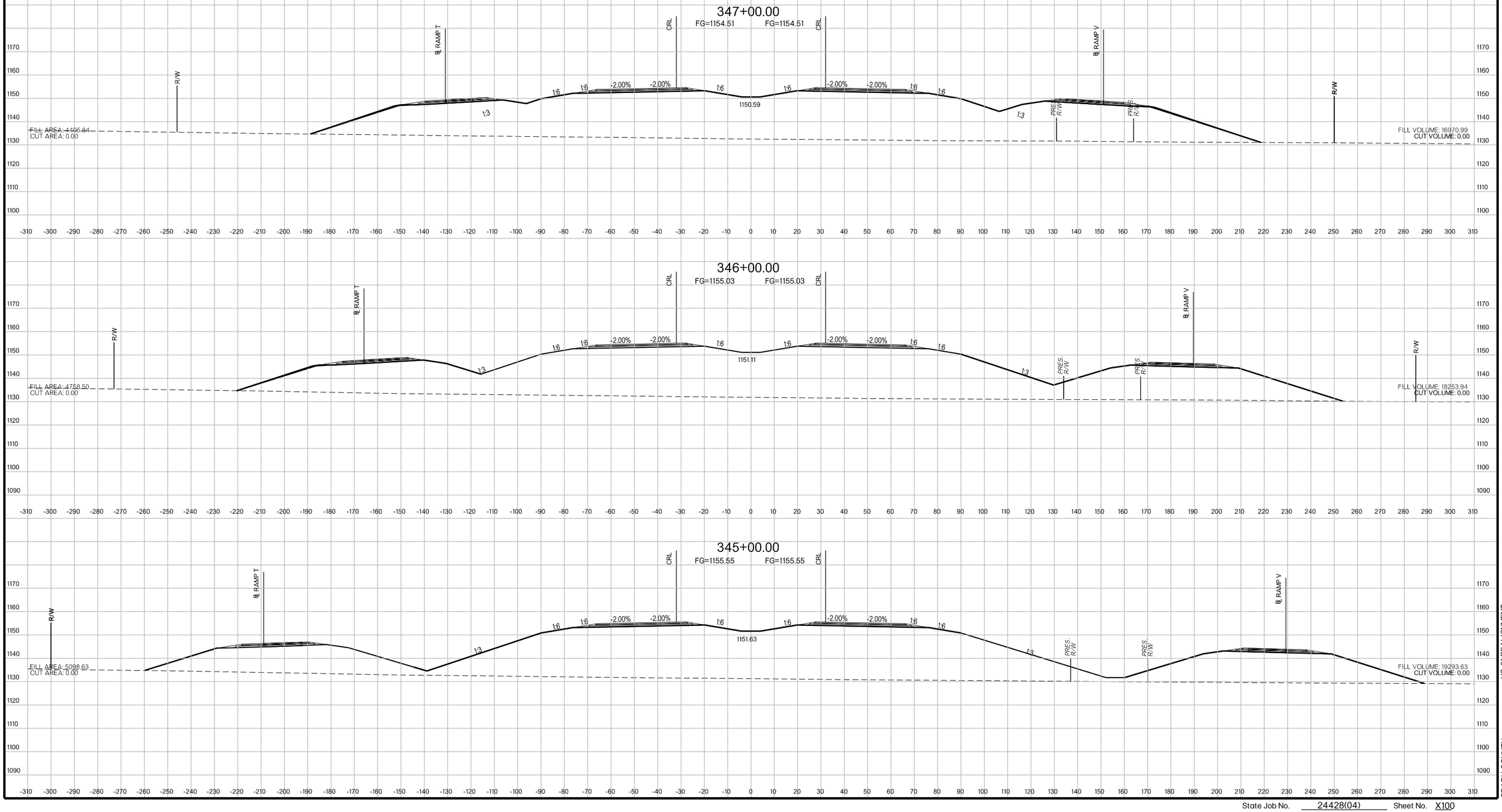
PROPOSED
R/W
AUGUST 2017



US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X099

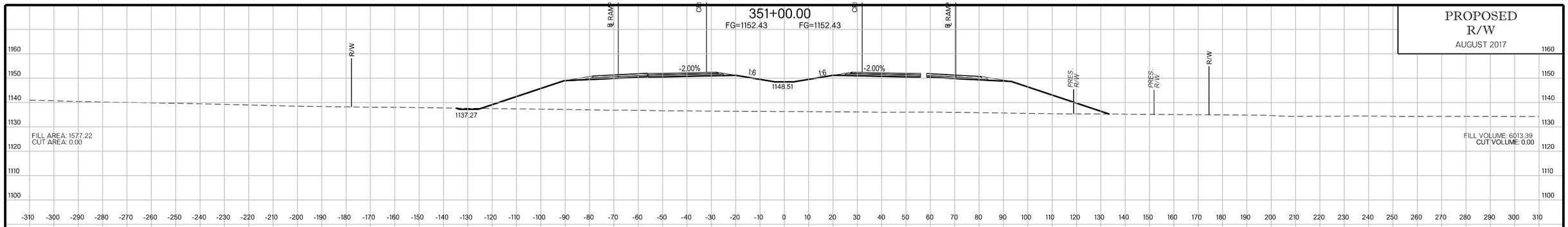
PROPOSED
R/W
AUGUST 2017

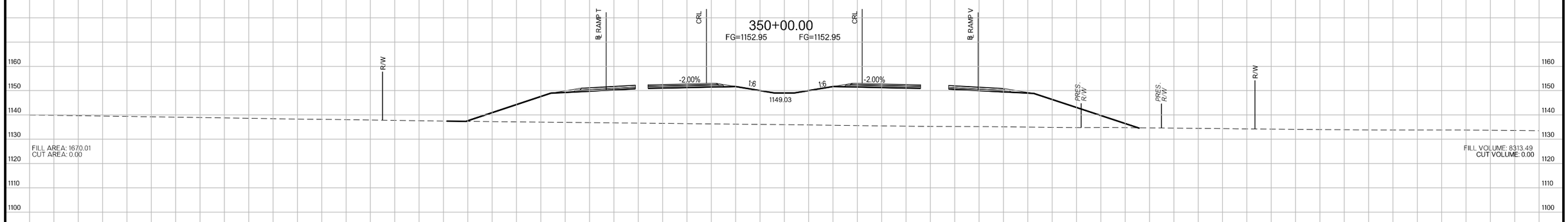


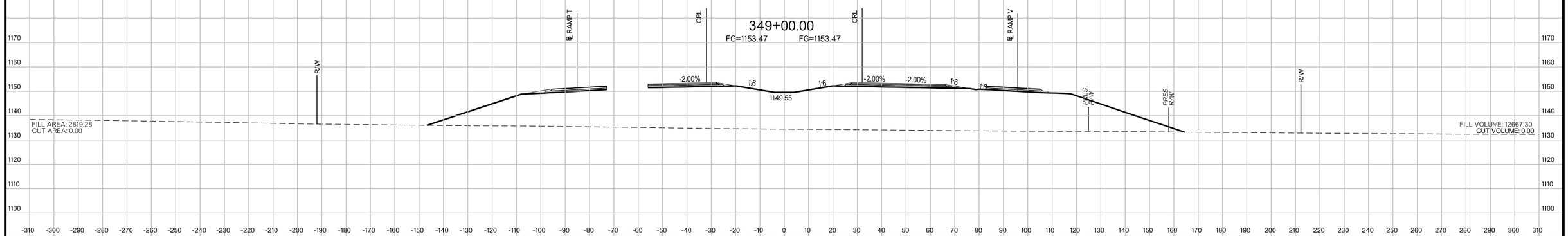
US-81 REALIGNMENT
GRADY COUNTY

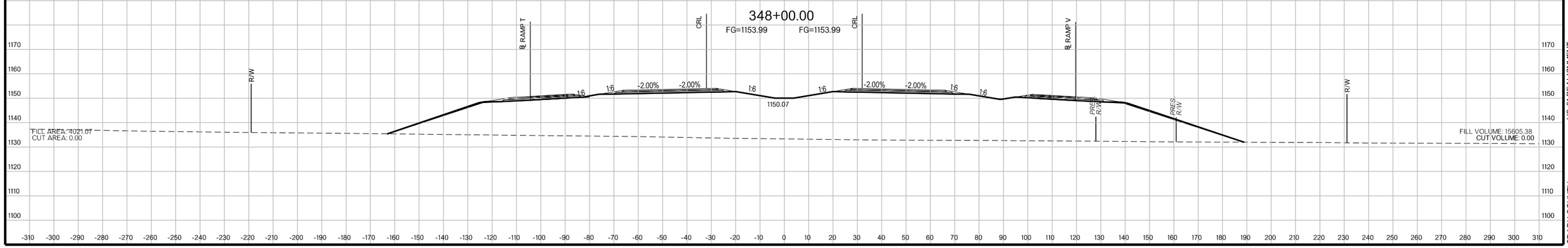
State Job No. 24428(04) Sheet No. X100

PROPOSED
R/W
AUGUST 2017





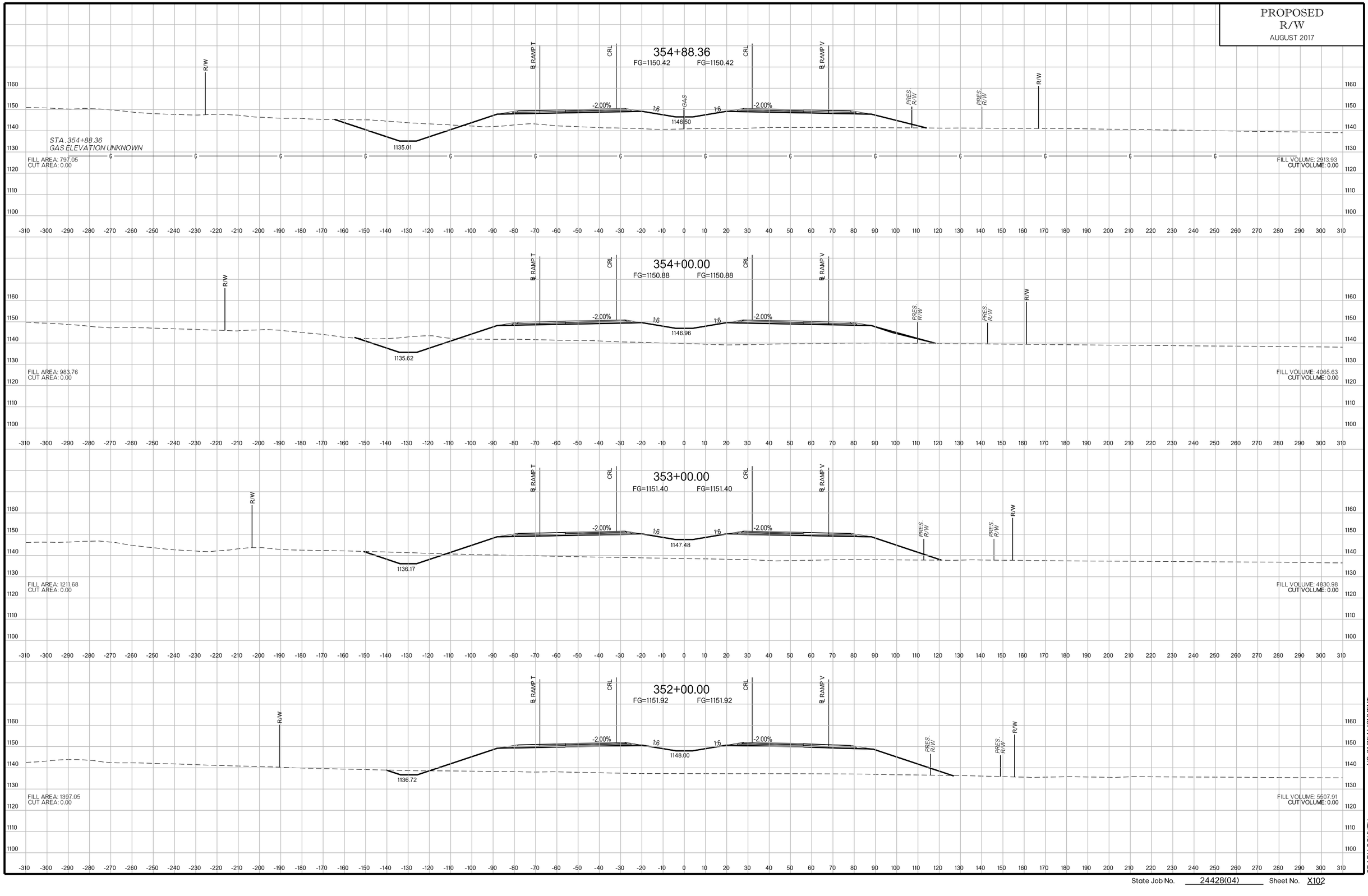




US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X101

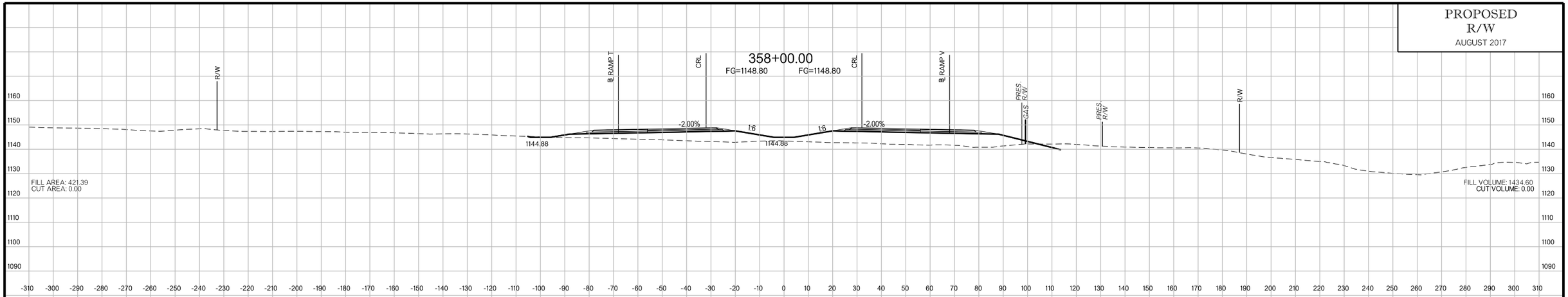
PROPOSED
R/W
AUGUST 2017

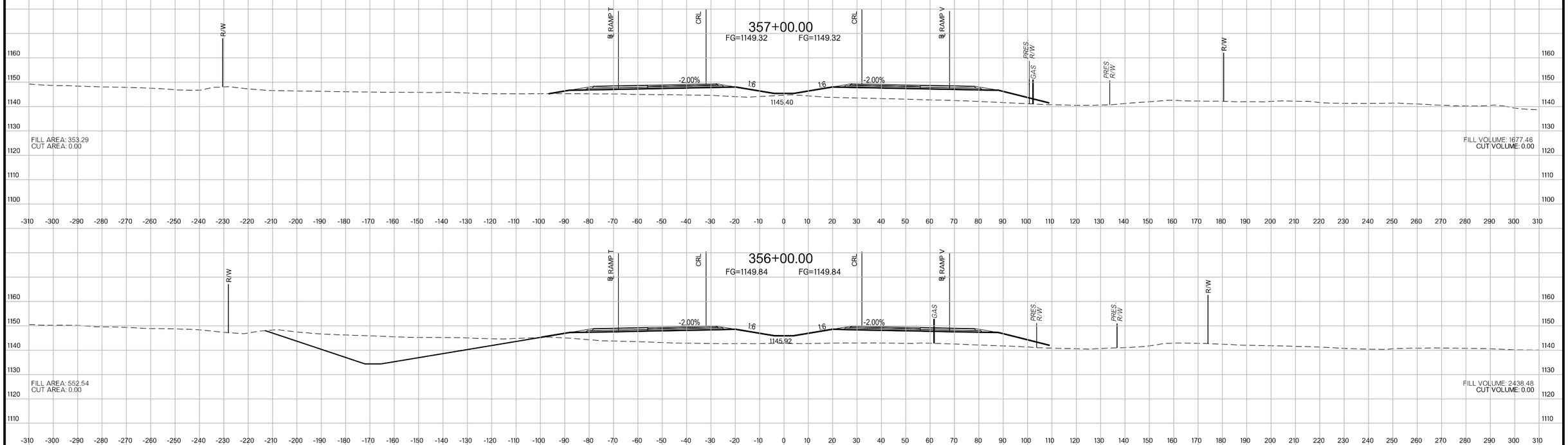


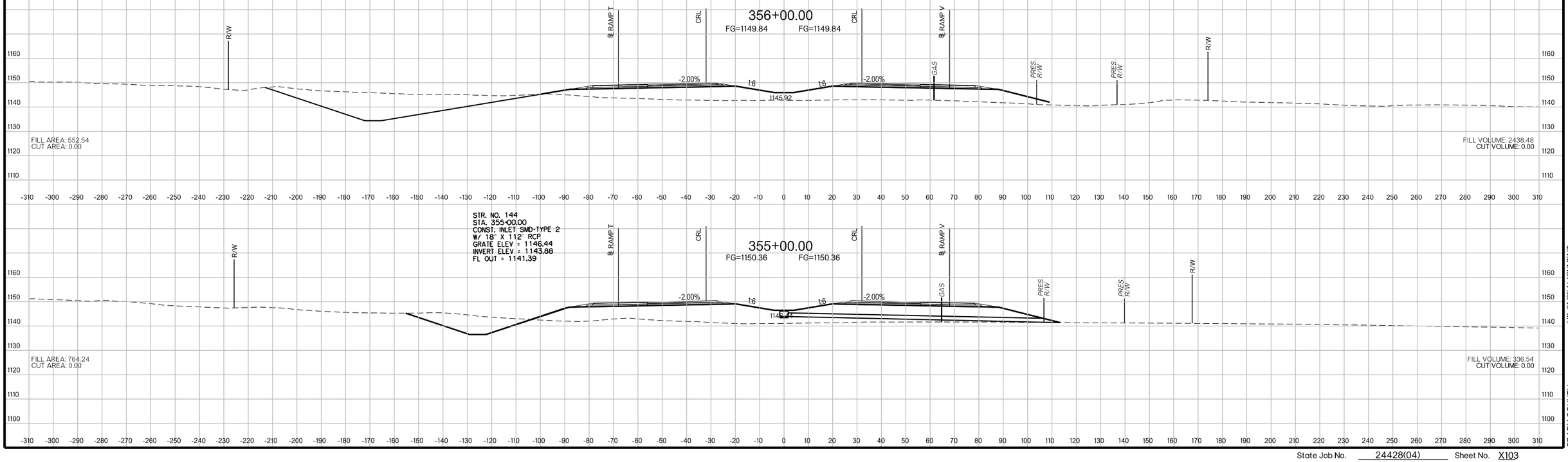
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X102

PROPOSED
R/W
AUGUST 2017



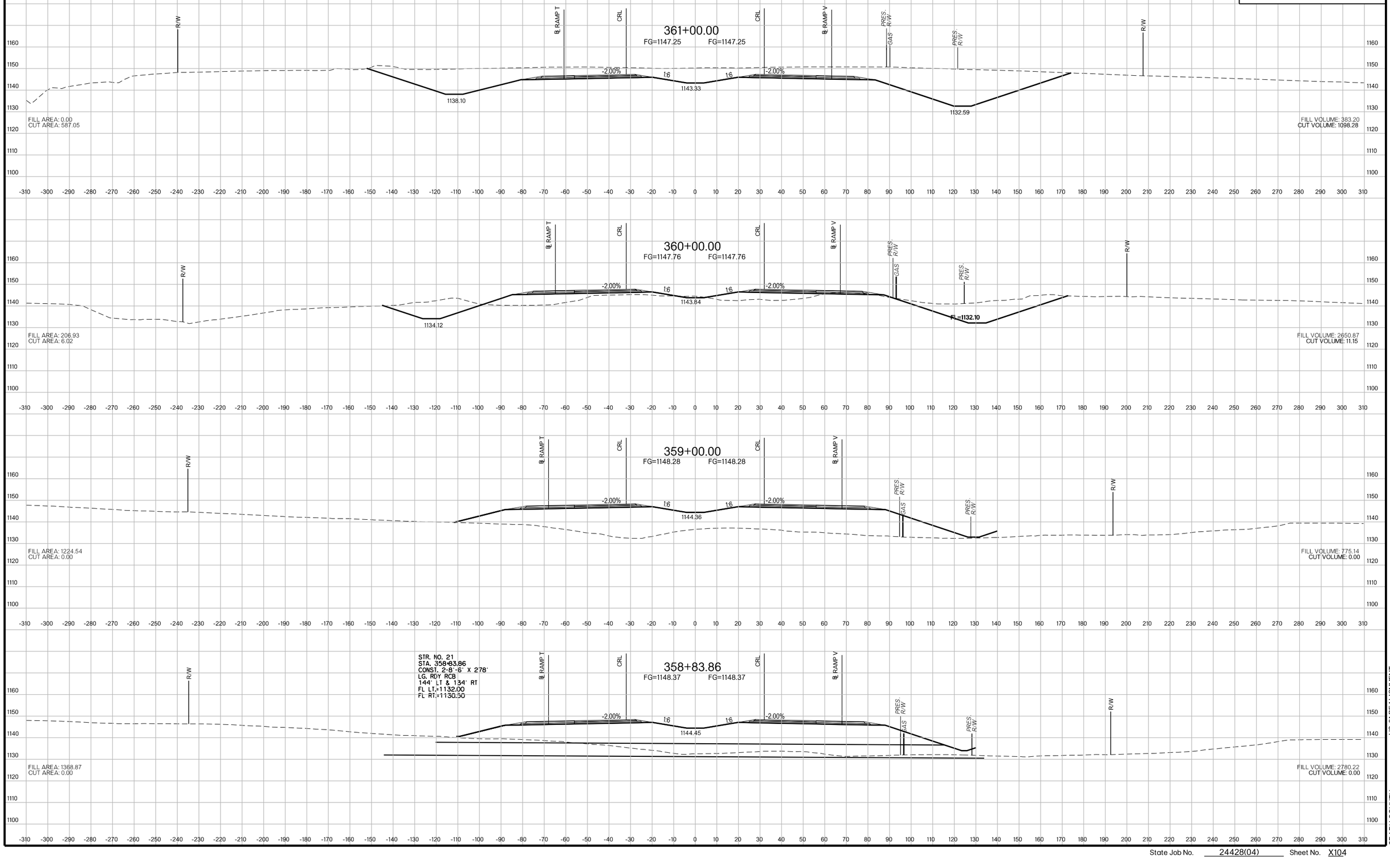




US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X103

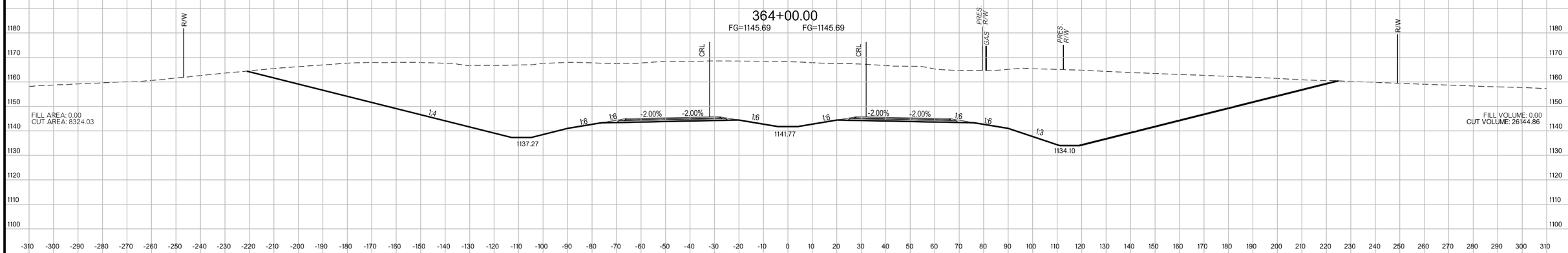
PROPOSED
R/W
AUGUST 2017

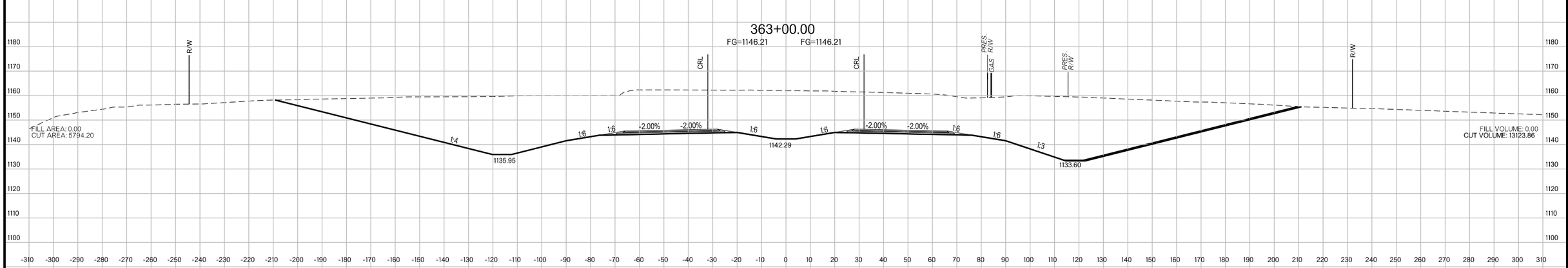


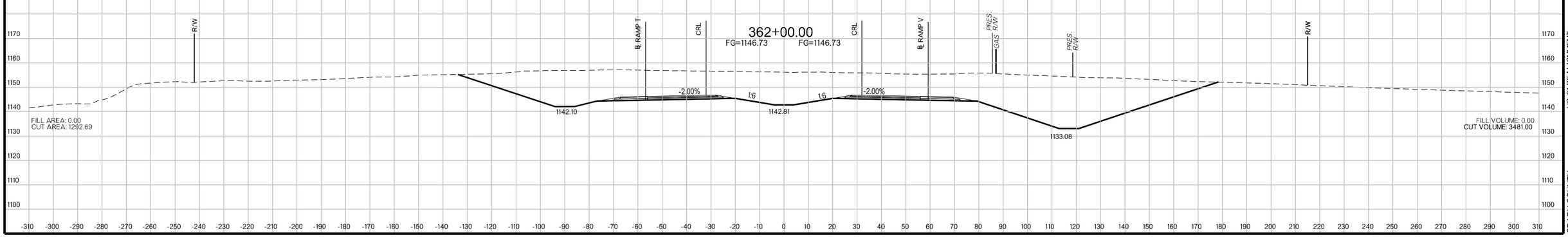
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X104

PROPOSED
R/W
AUGUST 2017







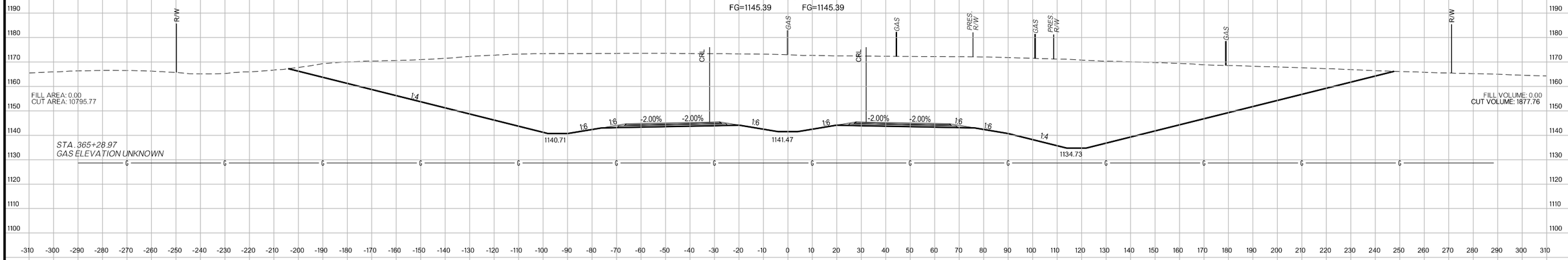
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X105

PROPOSED
R/W
AUGUST 2017

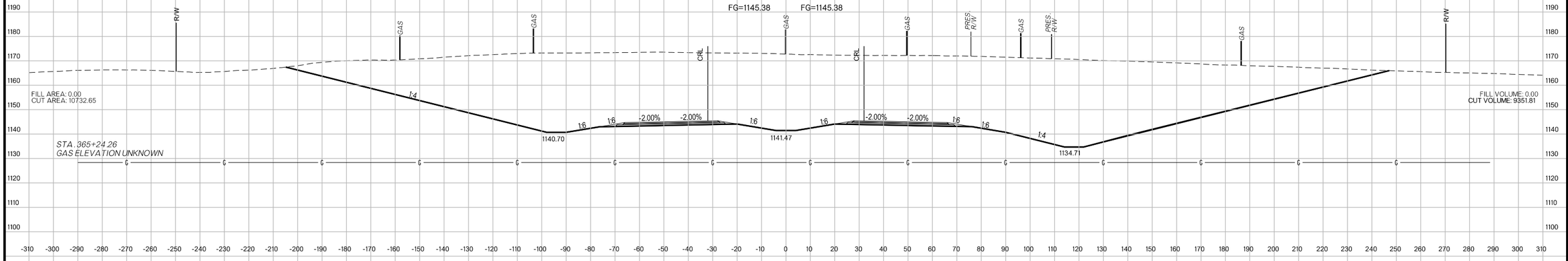
365+28.97

FG=1145.39 FG=1145.39



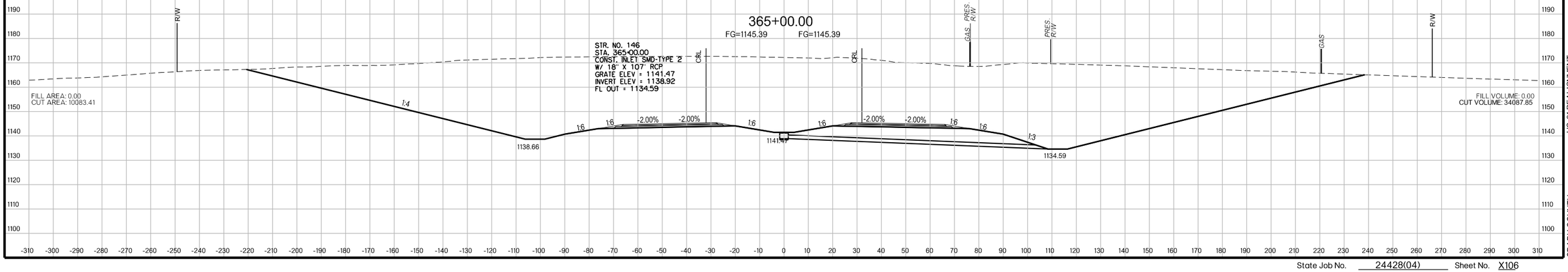
365+24.26

FG=1145.38 FG=1145.38



365+00.00

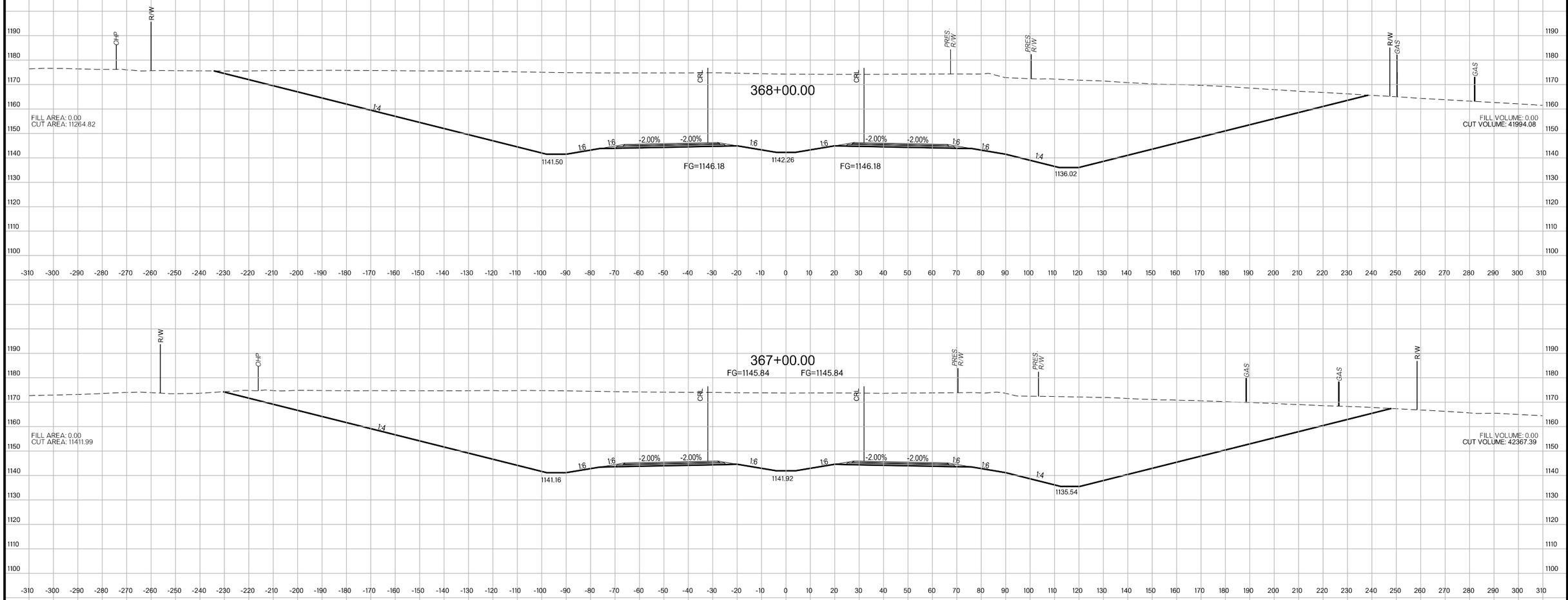
FG=1145.39 FG=1145.39



US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X106

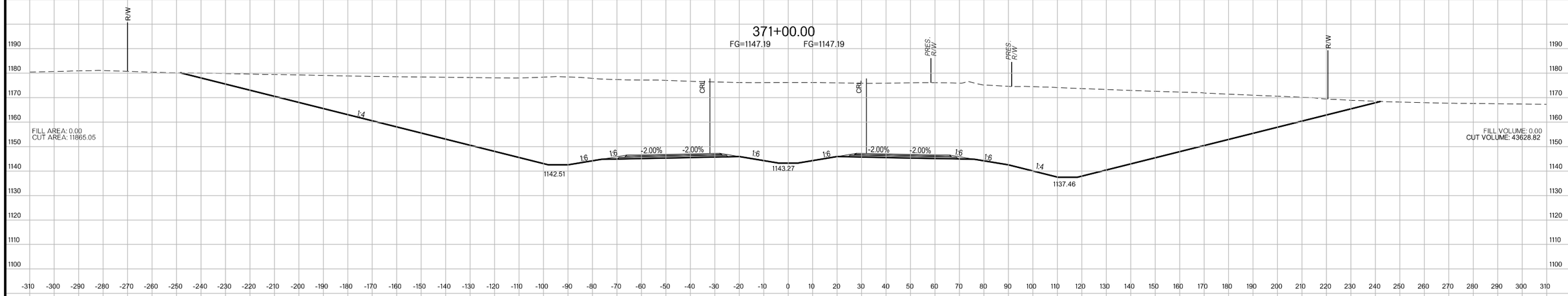
PROPOSED
R/W
AUGUST 2017

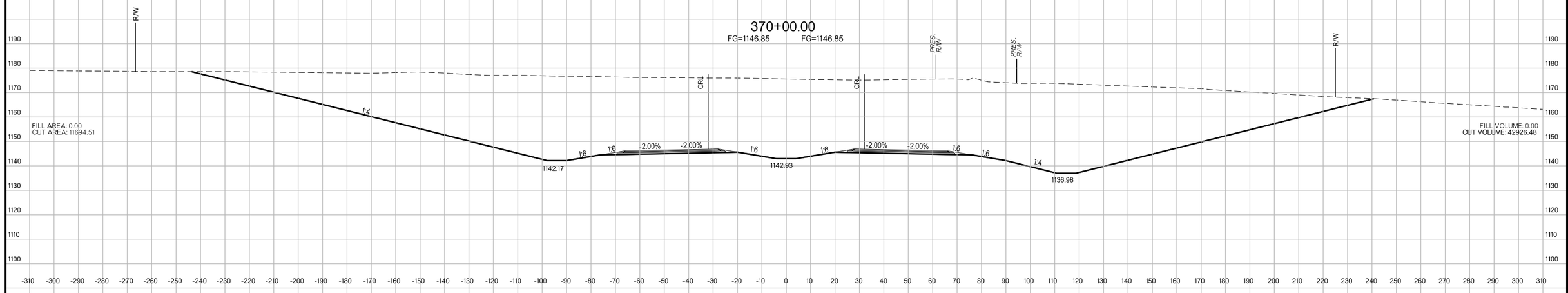


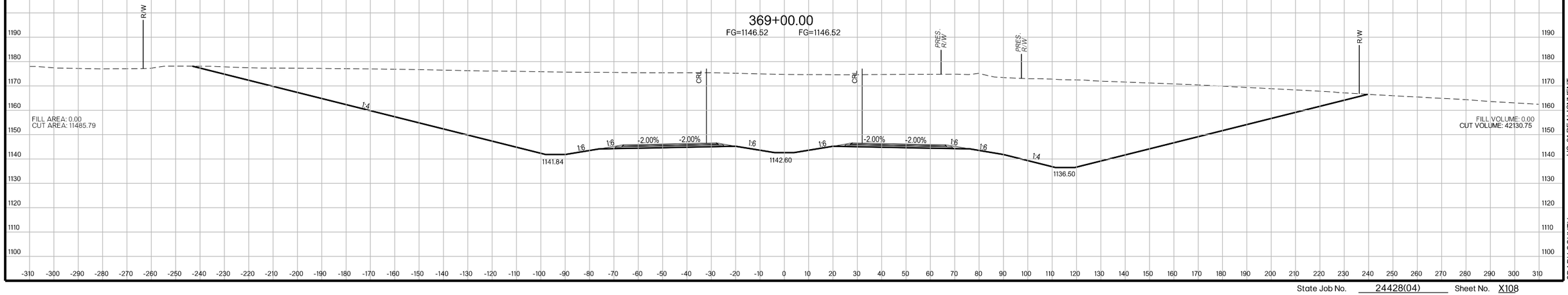
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X107

PROPOSED
R/W
AUGUST 2017



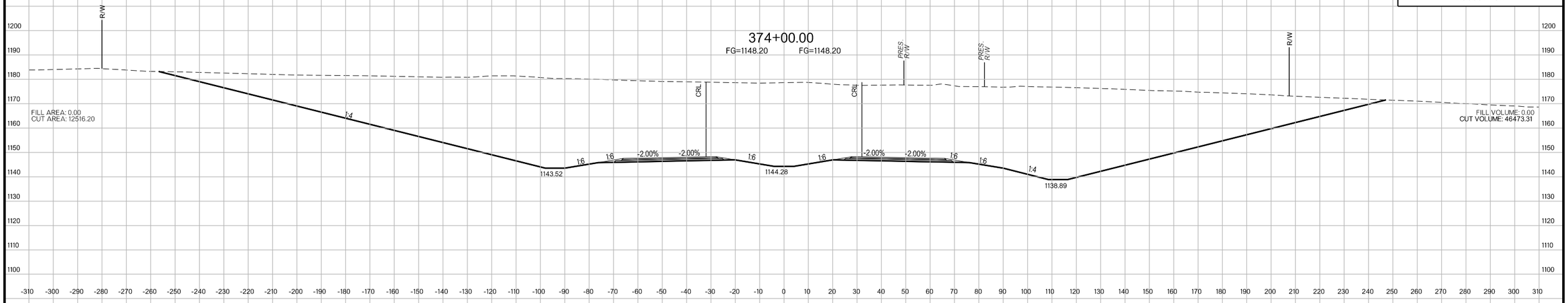


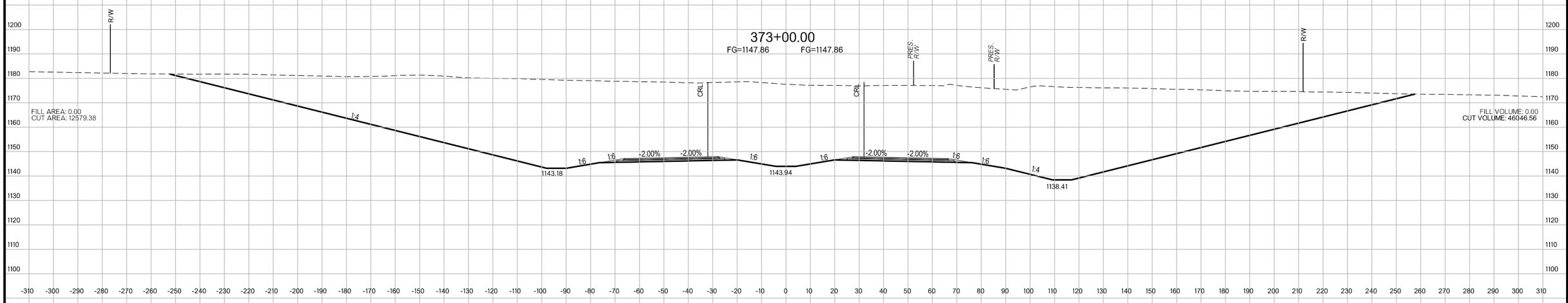


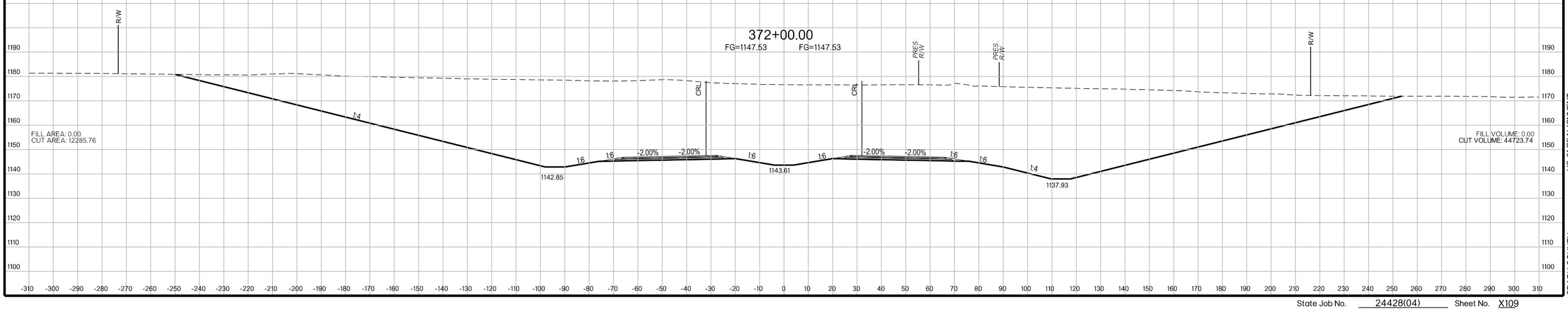
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X108

PROPOSED
R/W
AUGUST 2017



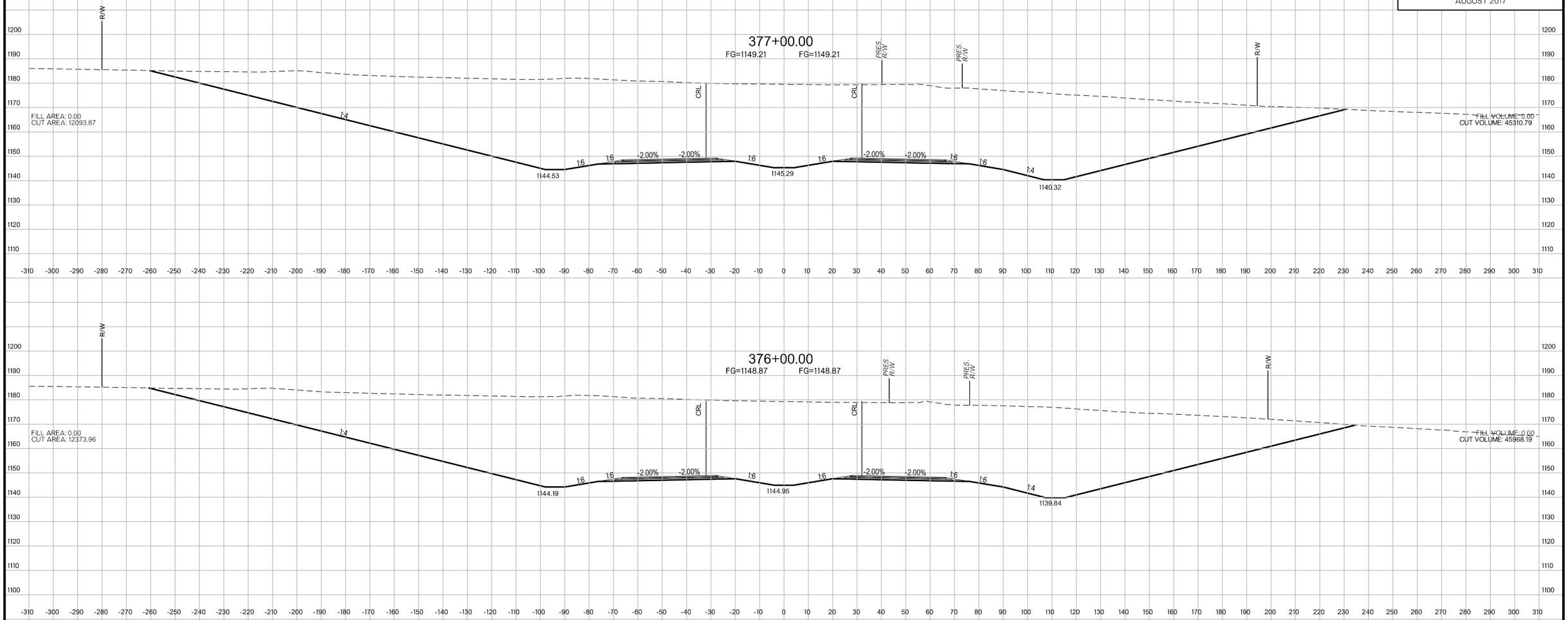


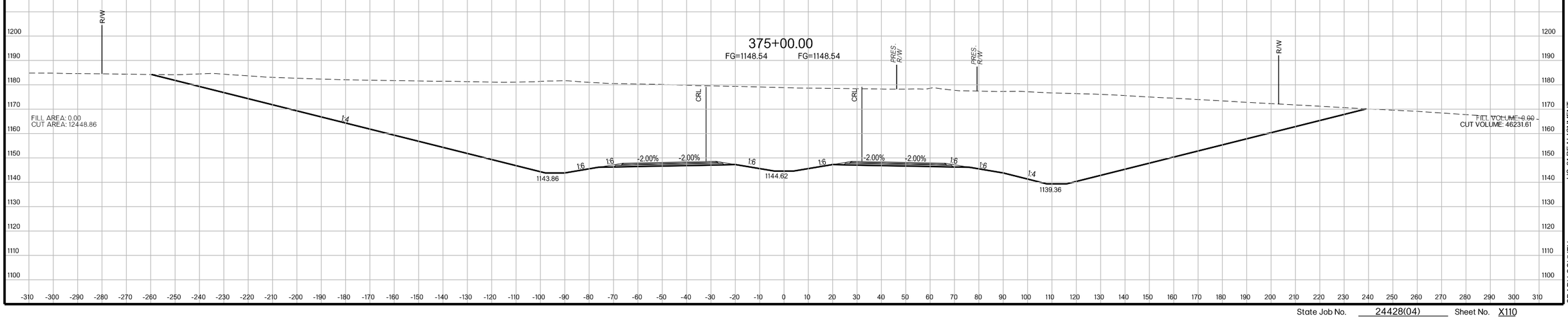


US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X109

PROPOSED
R/W
AUGUST 2017





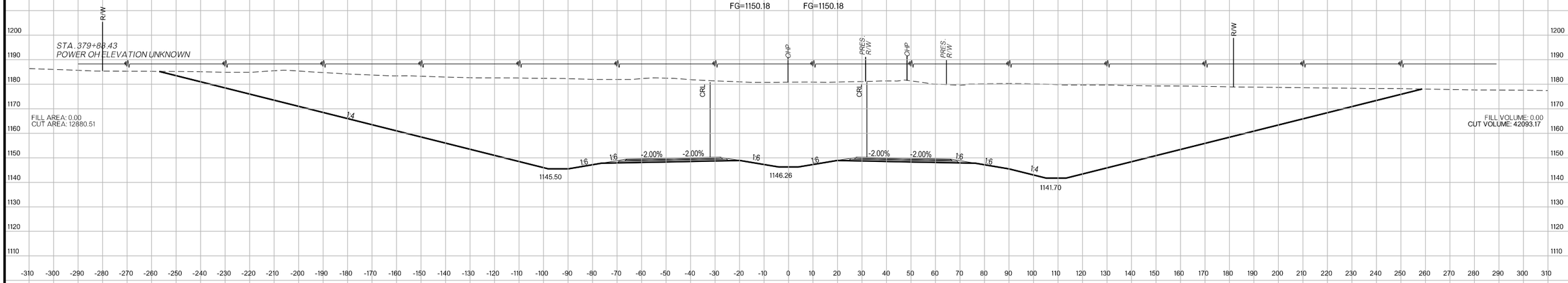
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X110

PROPOSED
R/W
AUGUST 2017

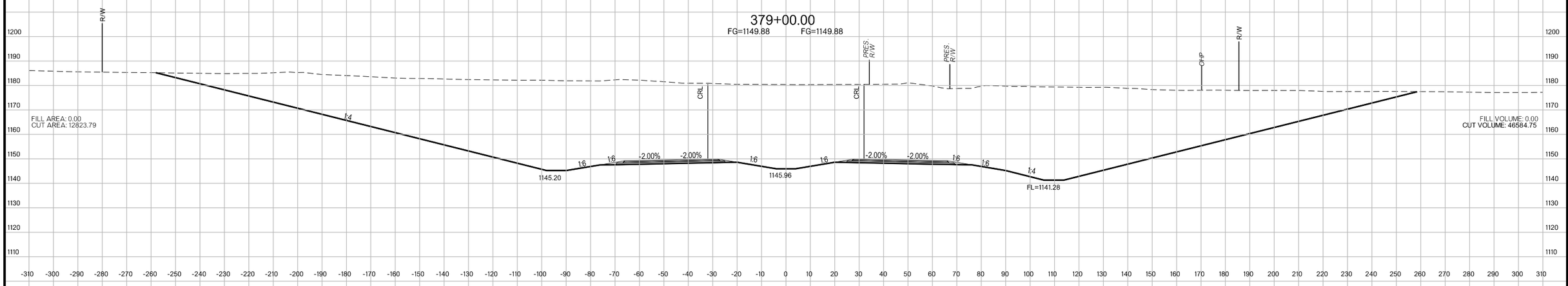
379+88.43

FG=1150.18 FG=1150.18



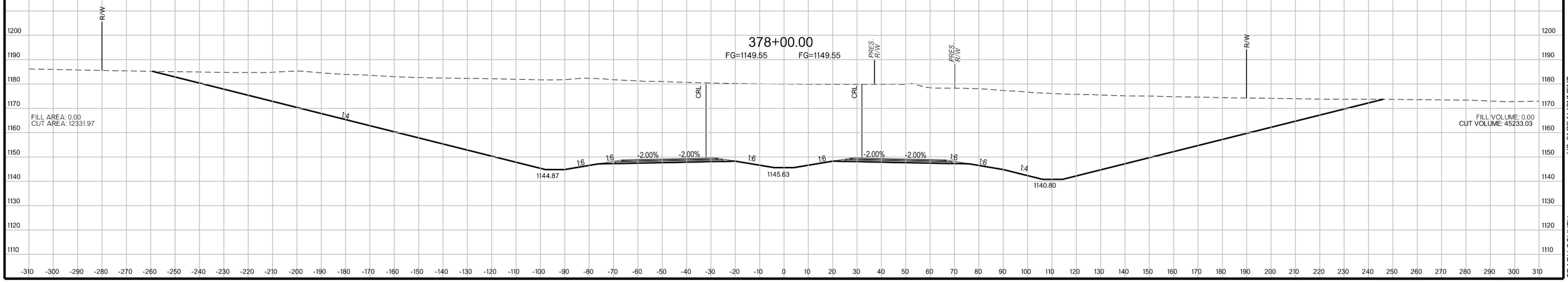
379+00.00

FG=1149.88 FG=1149.88



378+00.00

FG=1149.55 FG=1149.55



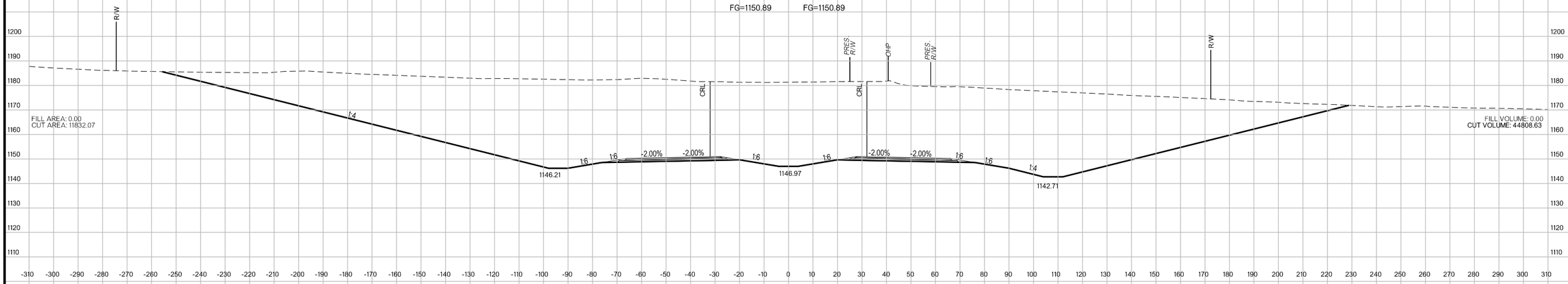
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X111

PROPOSED
R/W
AUGUST 2017

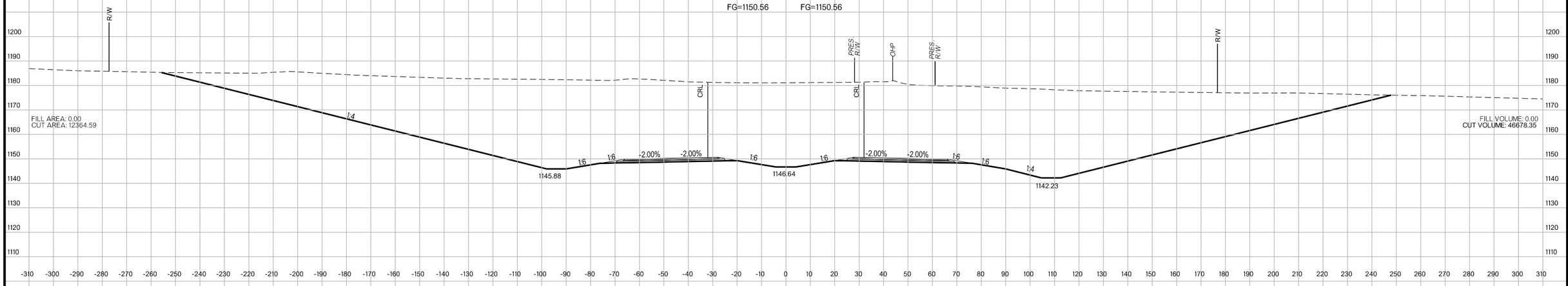
382+00.00

FG=1150.89 FG=1150.89



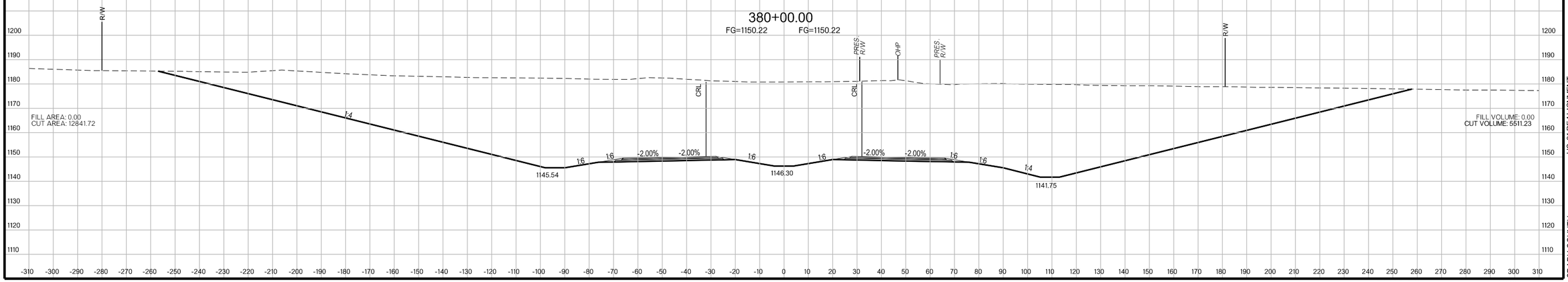
381+00.00

FG=1150.56 FG=1150.56



380+00.00

FG=1150.22 FG=1150.22



US-81 REALIGNMENT

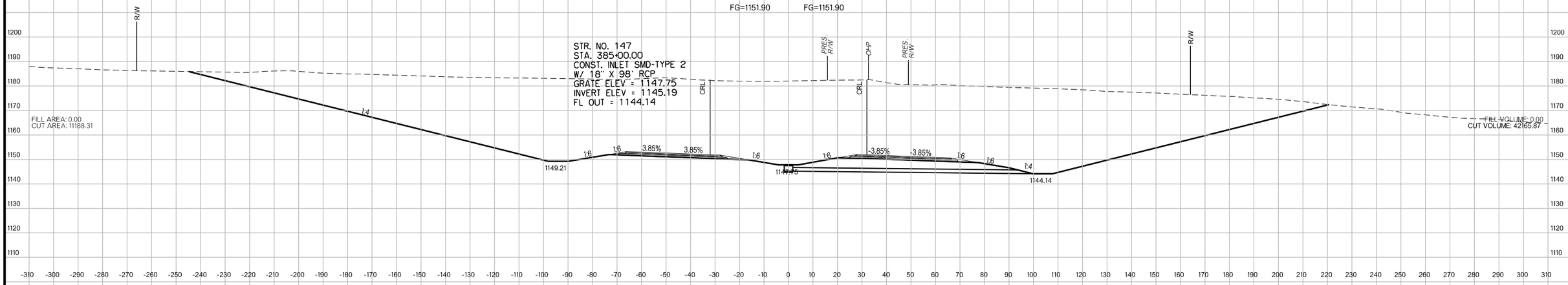
GRADY COUNTY

State Job No. 24428(04) Sheet No. X112

PROPOSED
R/W
AUGUST 2017

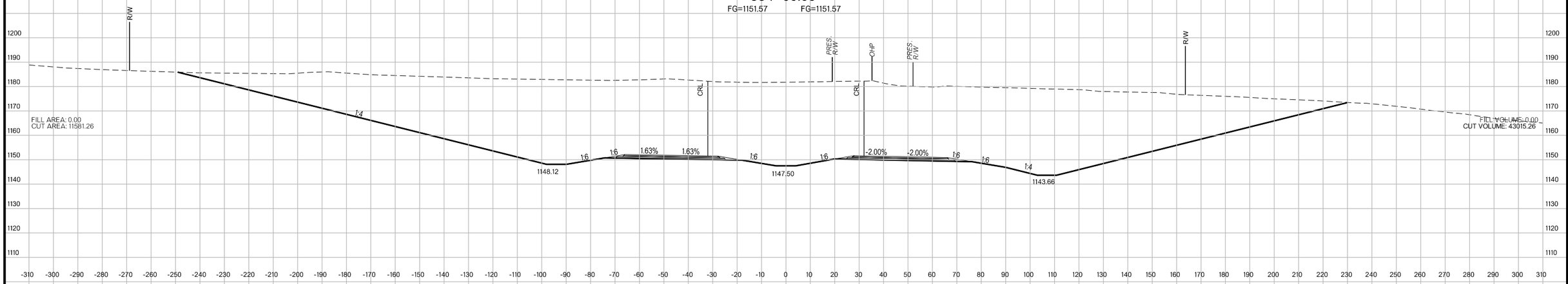
385+00.00

FG=1151.90 FG=1151.90



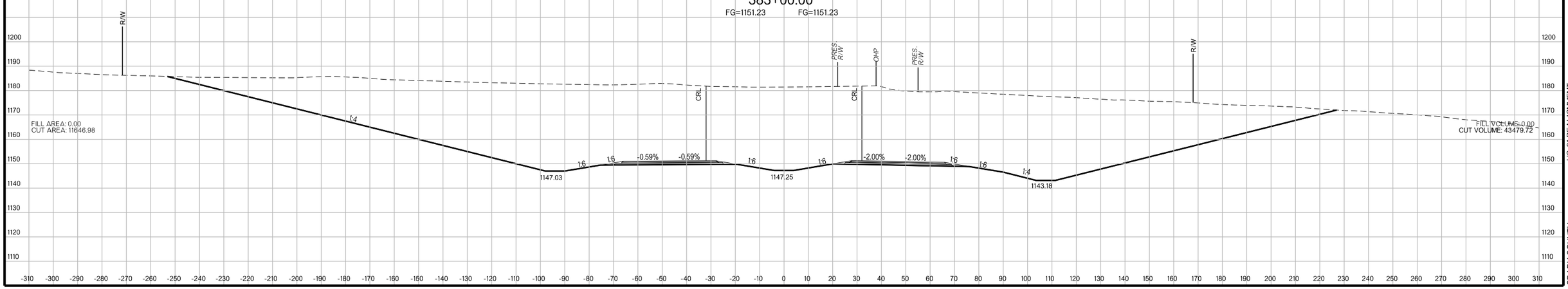
384+00.00

FG=1151.57 FG=1151.57



383+00.00

FG=1151.23 FG=1151.23



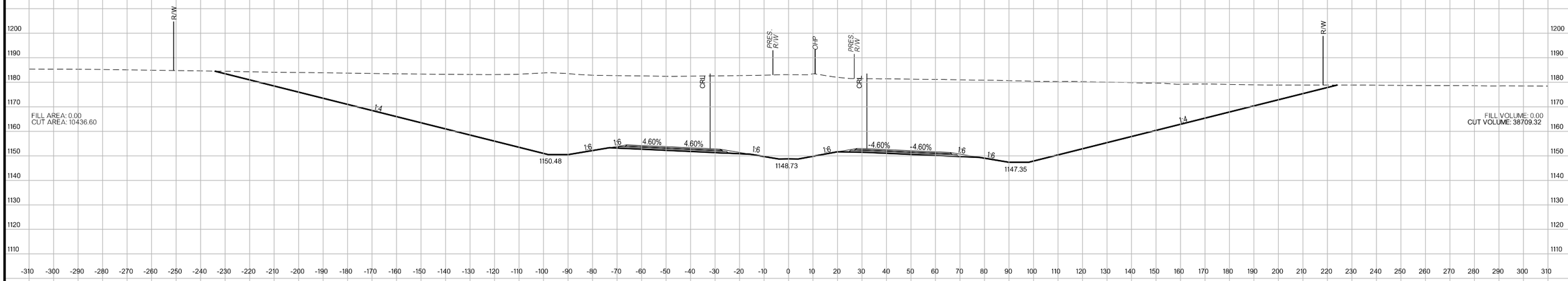
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X113

PROPOSED
R/W
AUGUST 2017

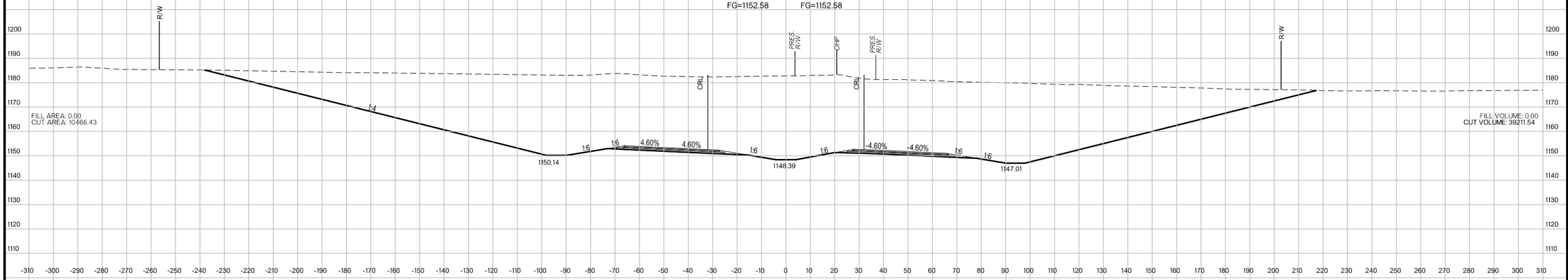
388+00.00

FG=1152.91 FG=1152.91



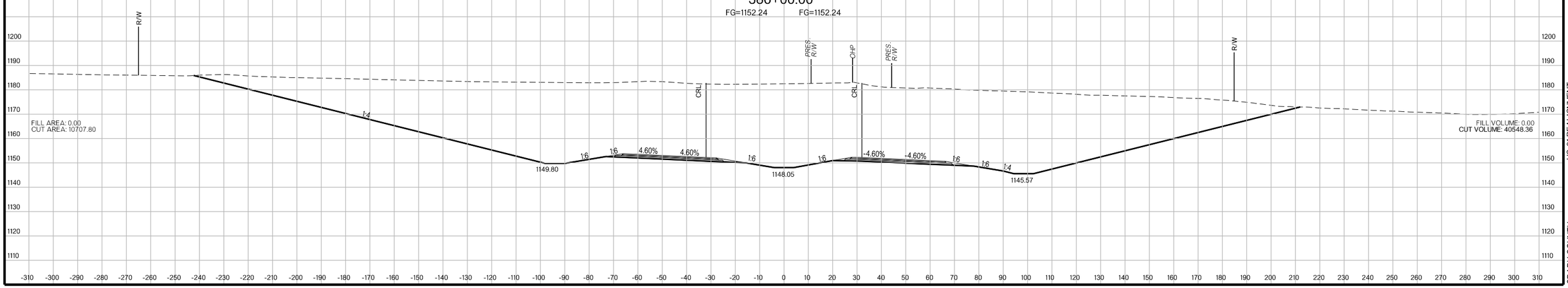
387+00.00

FG=1152.58 FG=1152.58



386+00.00

FG=1152.24 FG=1152.24



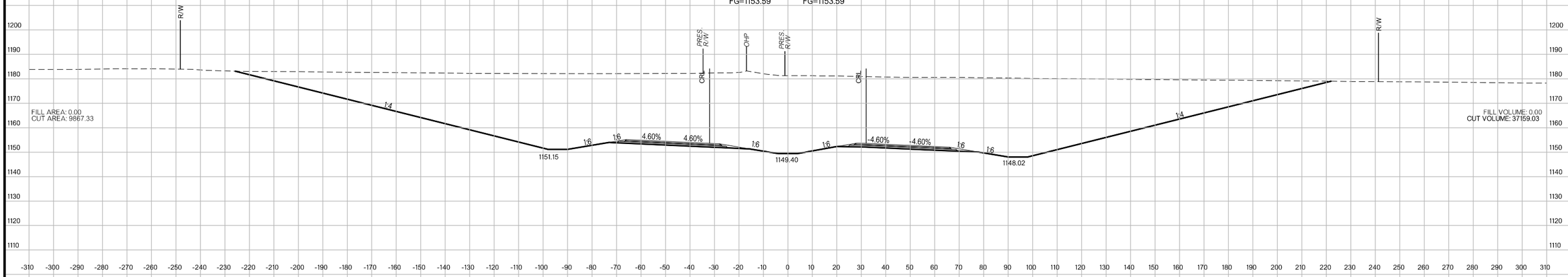
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X114

PROPOSED
R/W
AUGUST 2017

390+00.00

FG=1153.59 FG=1153.59



389+00.00

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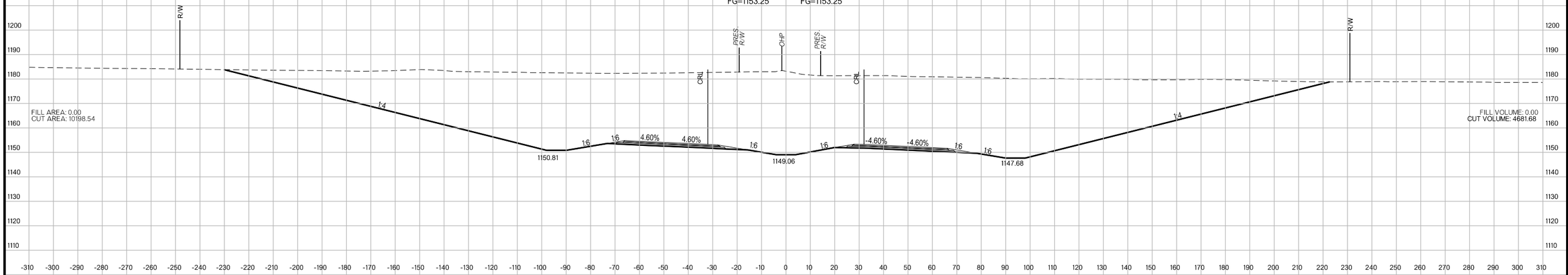
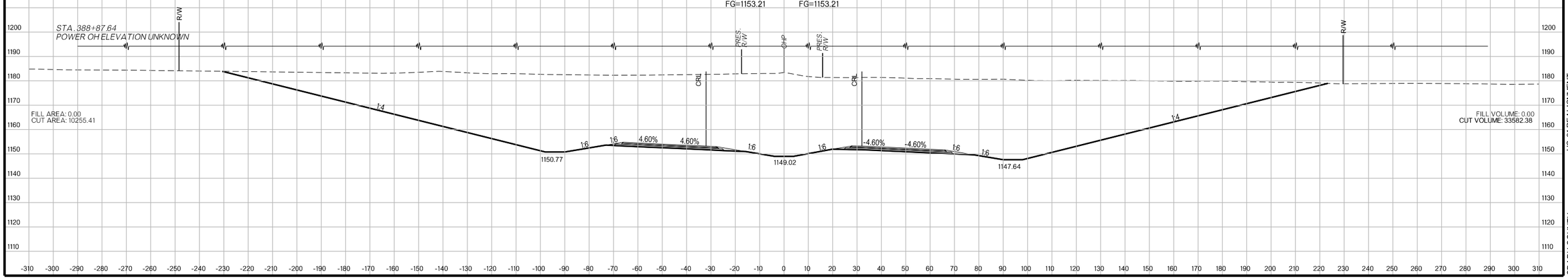


388+87.64

FG=1153.21 FG=1153.21



US-81 REALIGNMENT

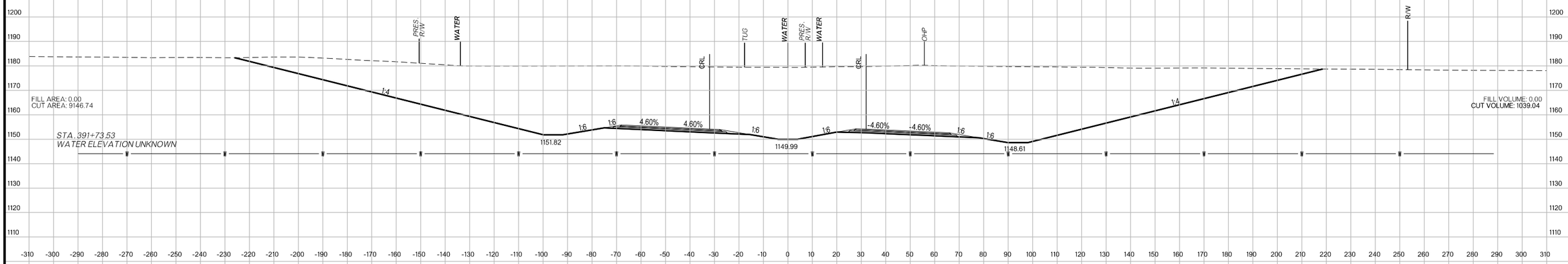
GRADY COUNTY

State Job No. 24428(04) Sheet No. X115

PROPOSED
R/W
AUGUST 2017

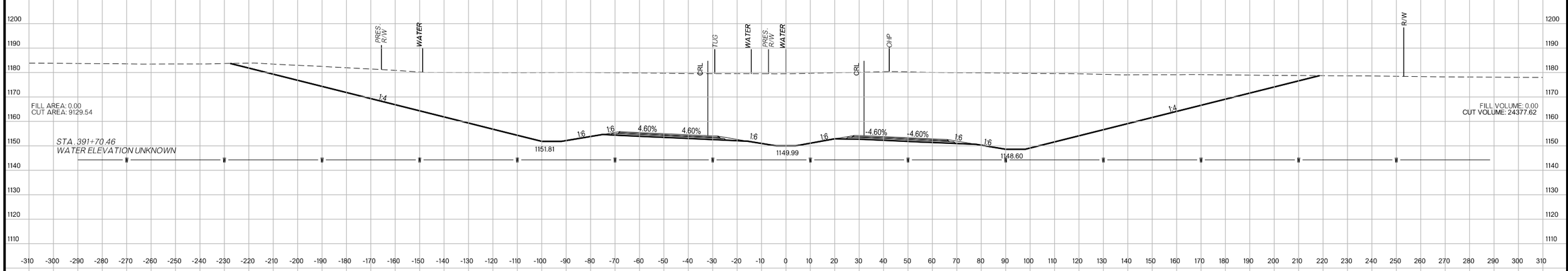
391+73.53

FG=1154.17 FG=1154.17



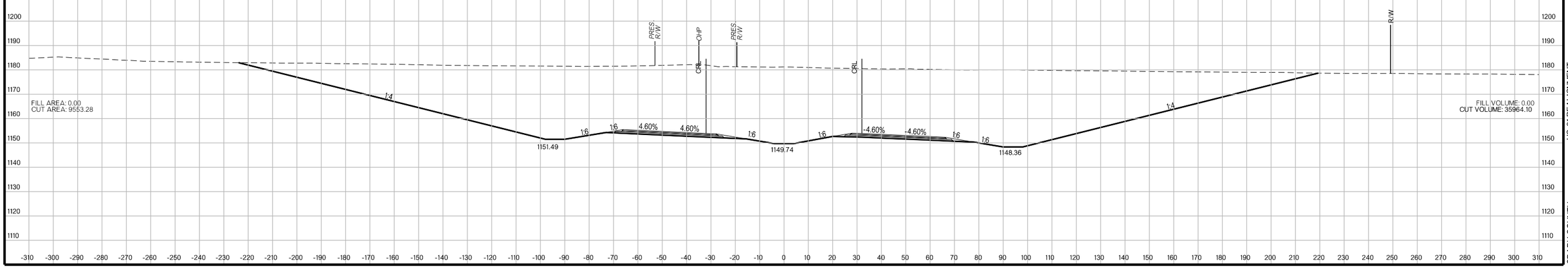
391+70.46

FG=1154.16 FG=1154.16



391+00.00

FG=1153.92 FG=1153.92



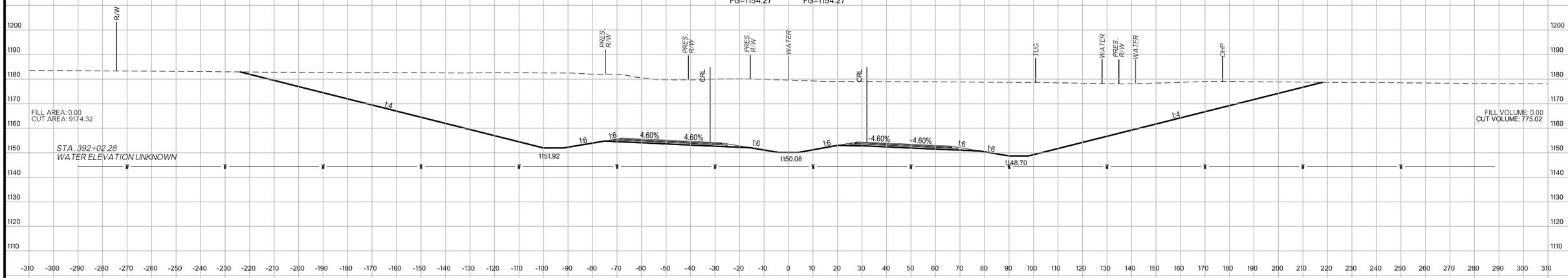
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X116

PROPOSED
R/W
AUGUST 2017

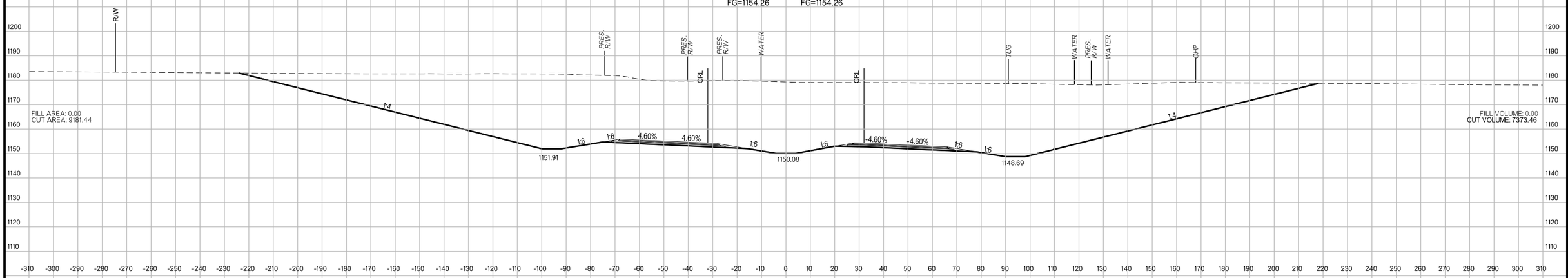
392+02.28

FG=1154.27 FG=1154.27



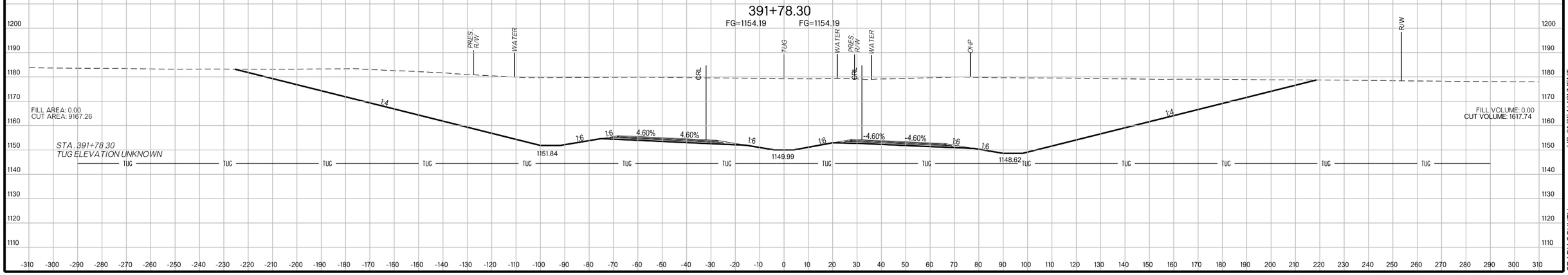
392+00.00

FG=1154.26 FG=1154.26



391+78.30

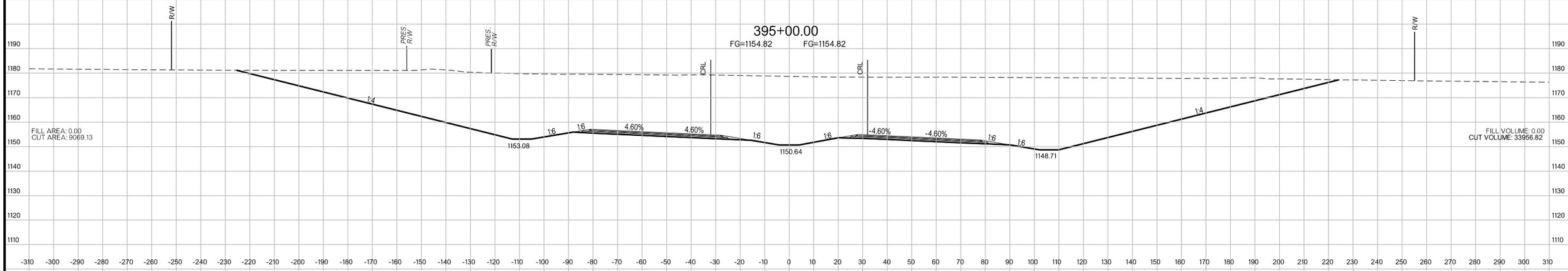
FG=1154.19 FG=1154.19

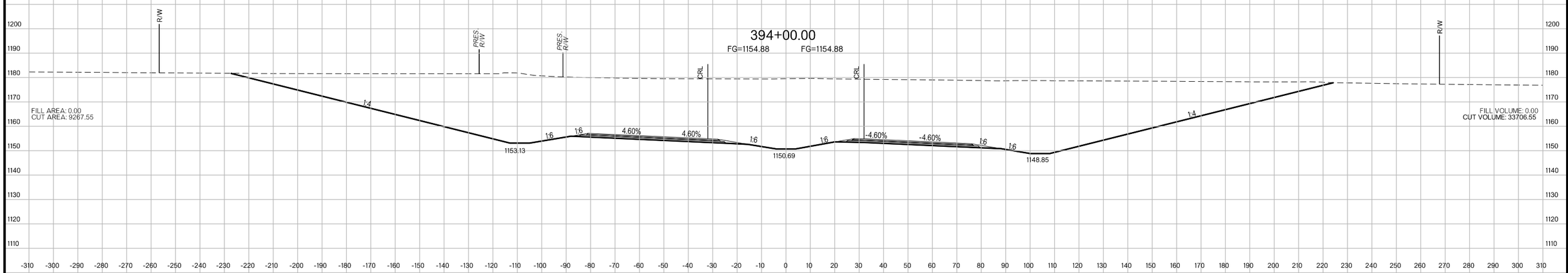


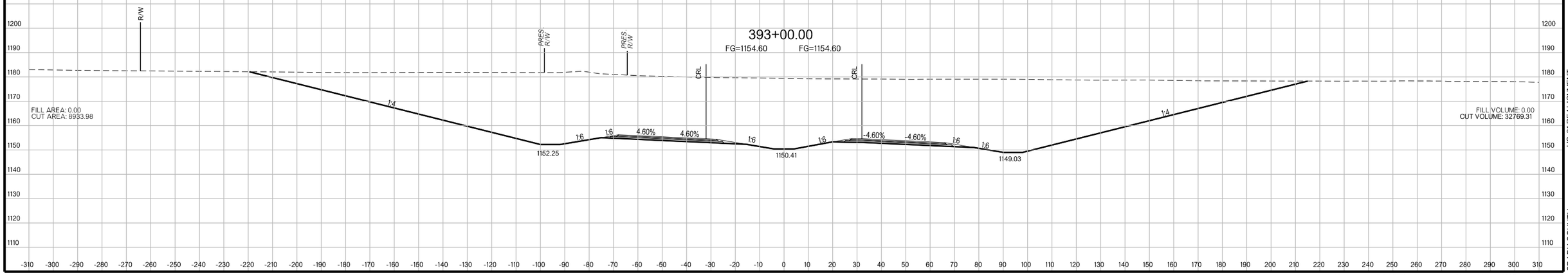
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X117

PROPOSED
R/W
AUGUST 2017



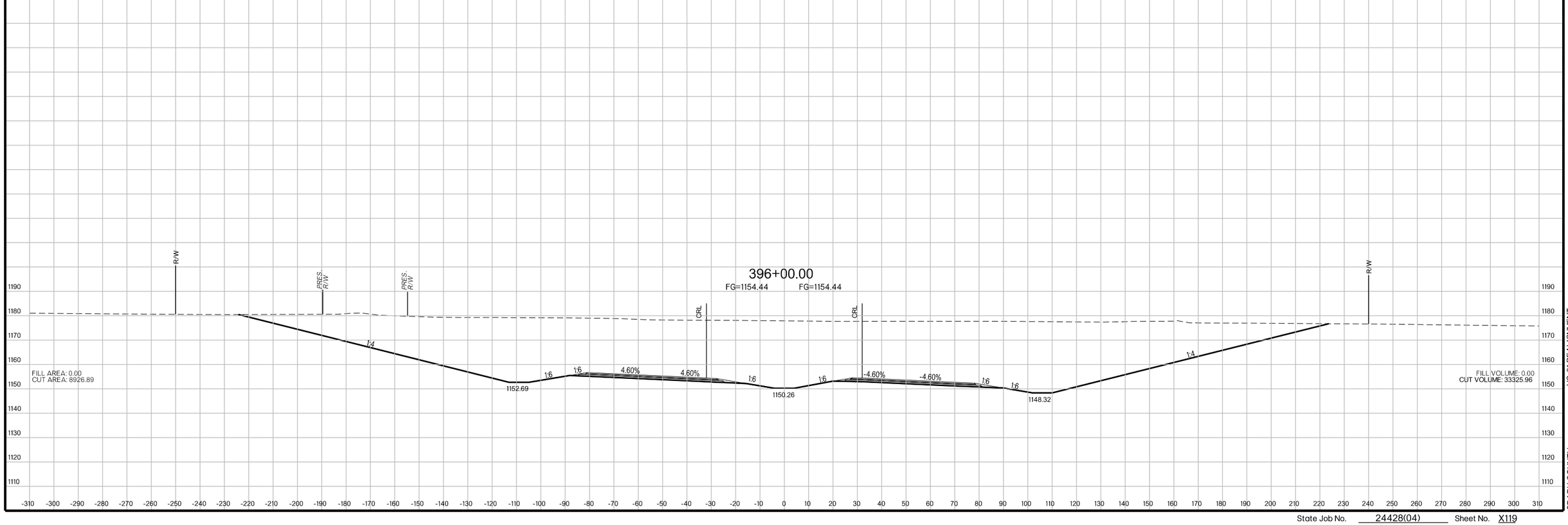




US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X118

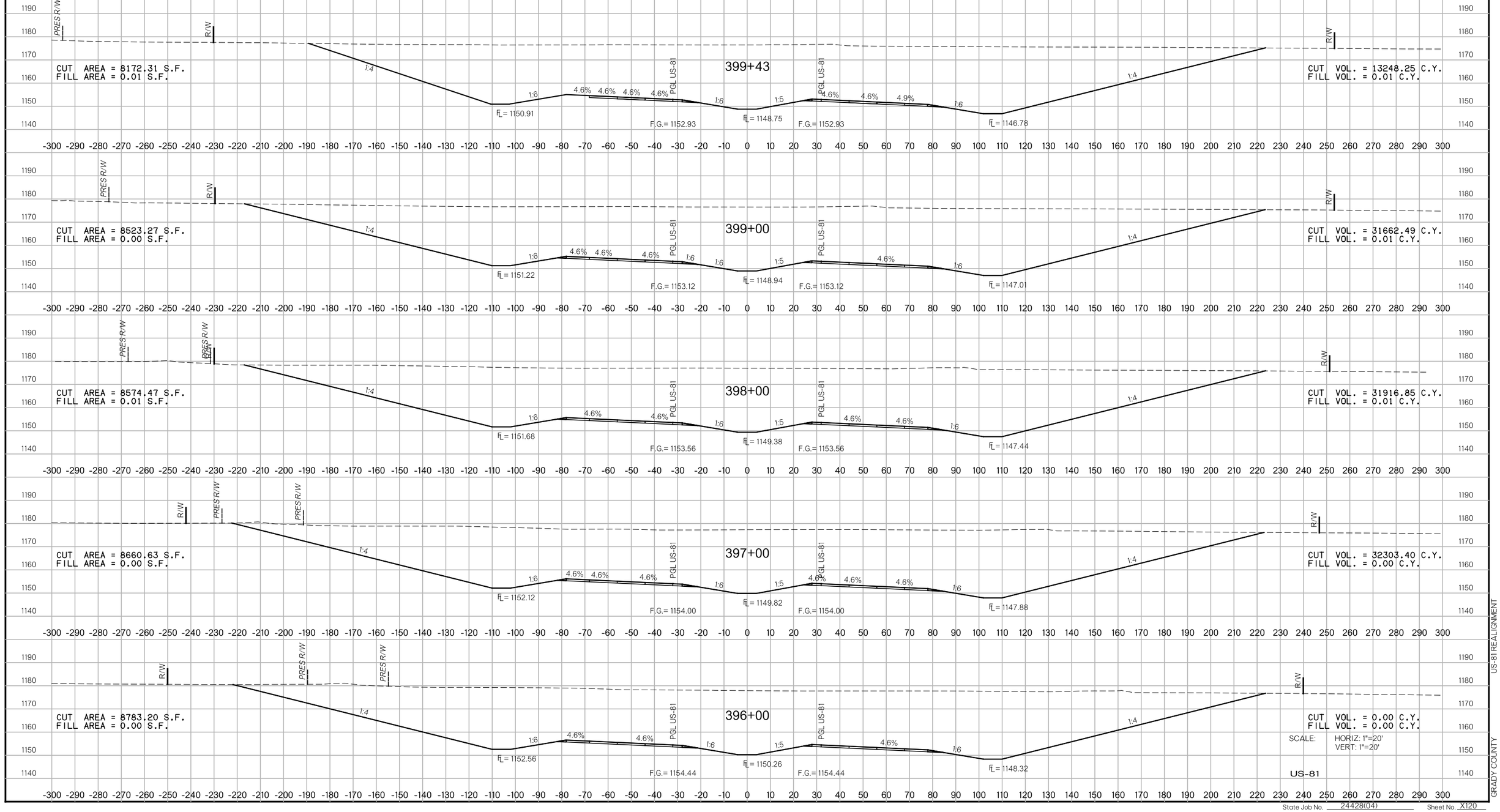
PROPOSED
R/W
AUGUST 2017



State Job No. 24428(04) Sheet No. X119

US-81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017



State Job No. 24428(04) Sheet No. X120

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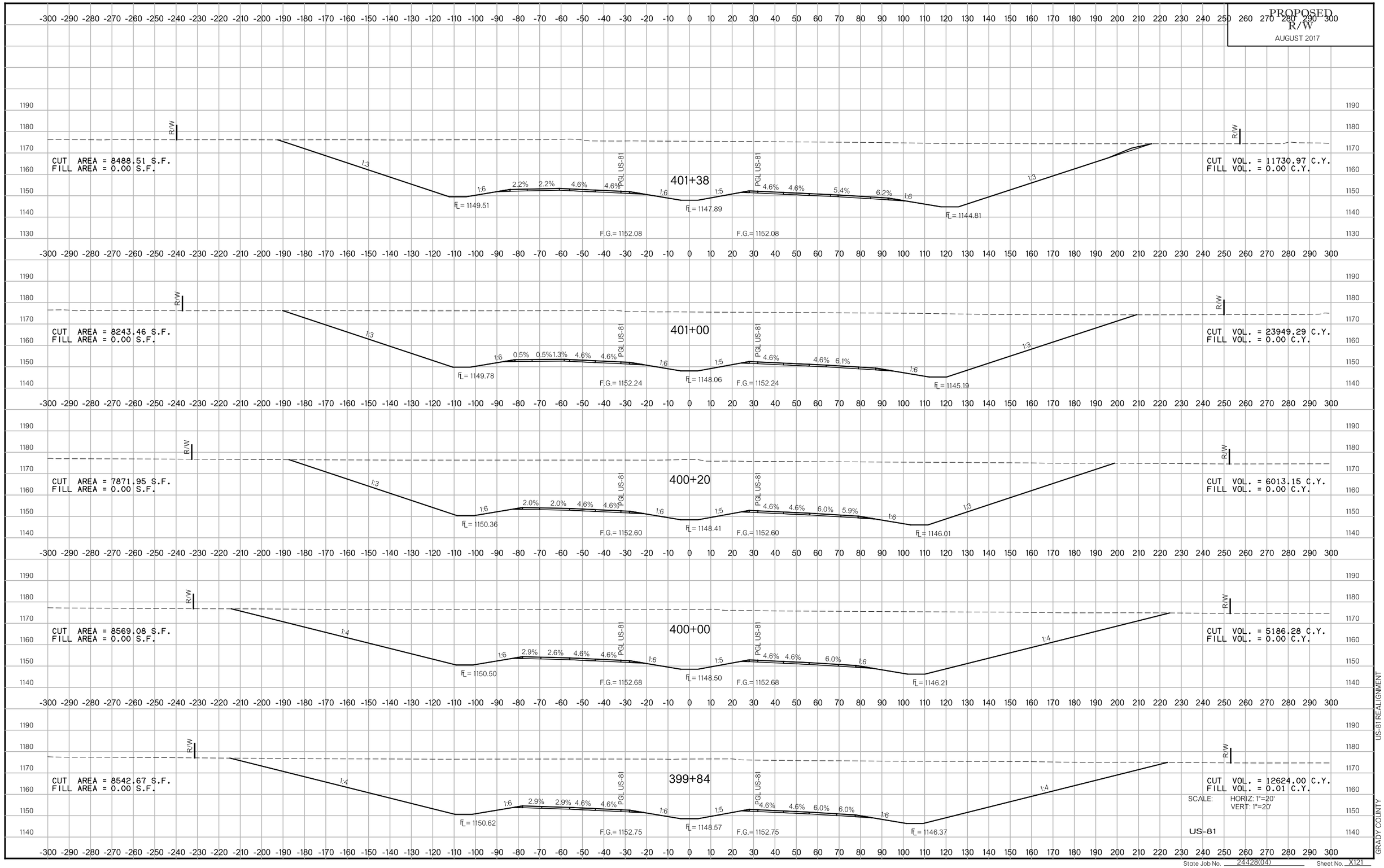
US-81 REALIGNMENT GRADY COUNTY

PROPOSED R/W

AUGUST 2017



SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X121

8/27/2017 7:27:59 PM

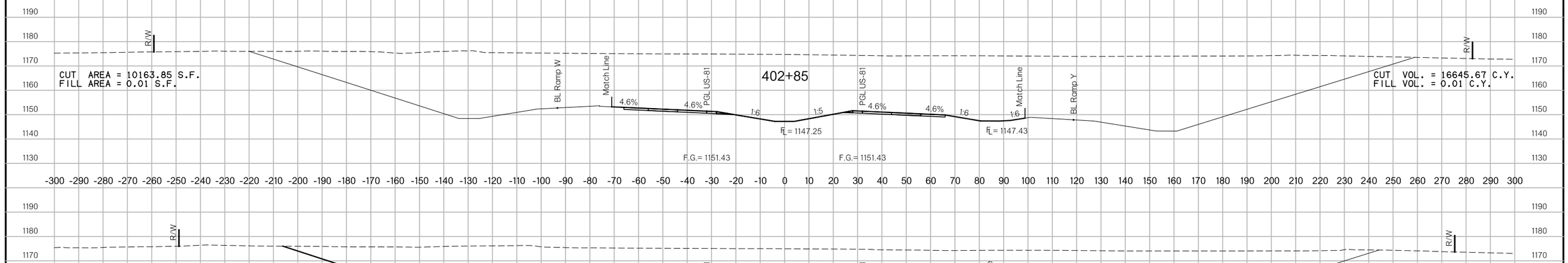
F:\2016\100-1500\016-1182\40-Design\Microstation\US-81\DGN\CVSEC12I.dgn

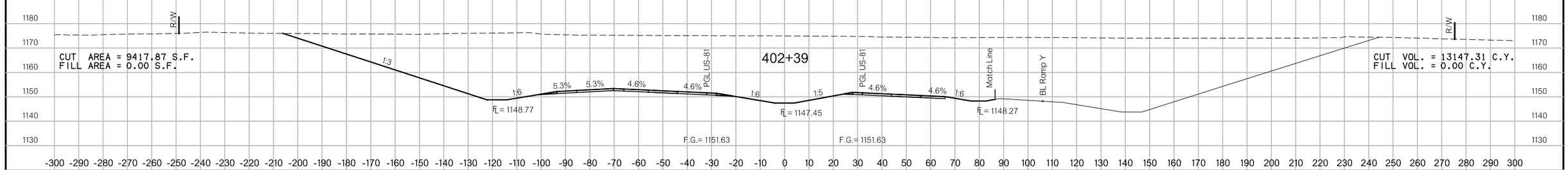
US-81 REALIGNMENT

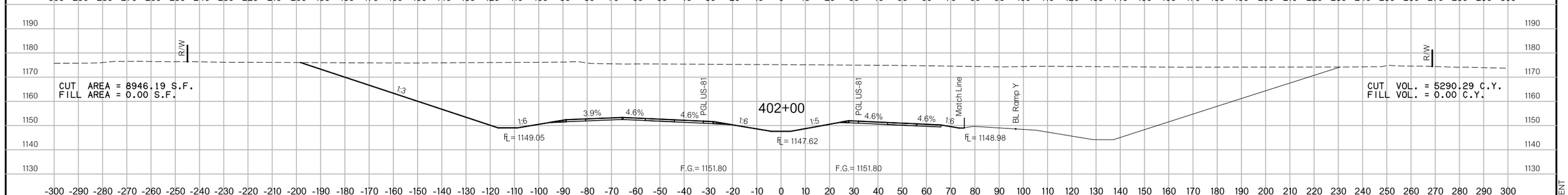
GRADY COUNTY

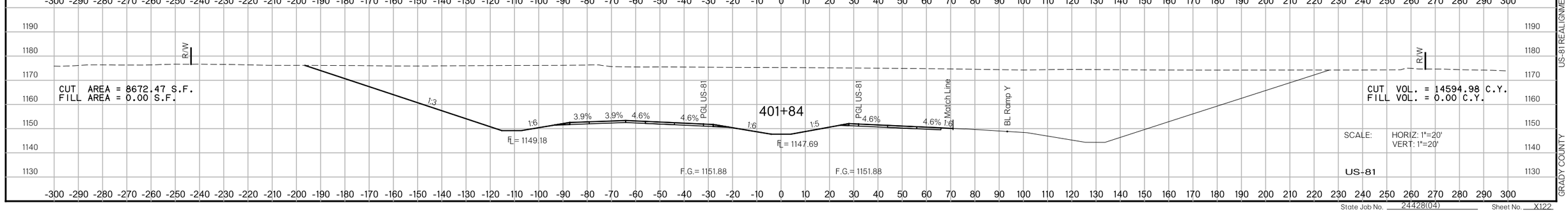
8/27/2017

PROPOSED
R/W
AUGUST 2017









SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X122

7:28:01 PM

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US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

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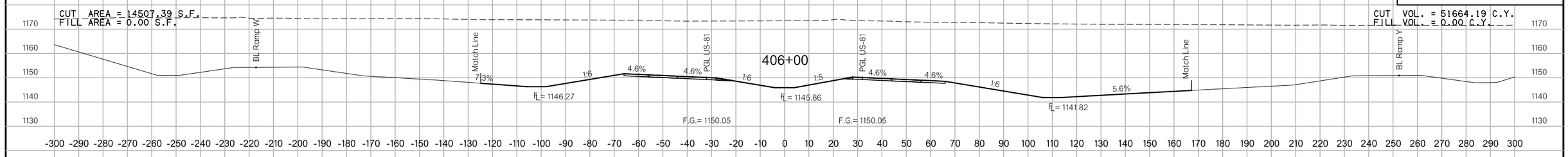
PROPOSED
R/W
AUGUST 2017

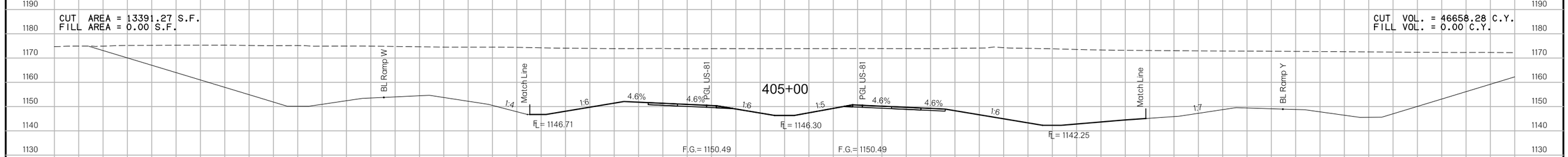
CUT AREA = 14507.39 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 51664.19 C.Y.
FILL VOL. = 0.00 C.Y.



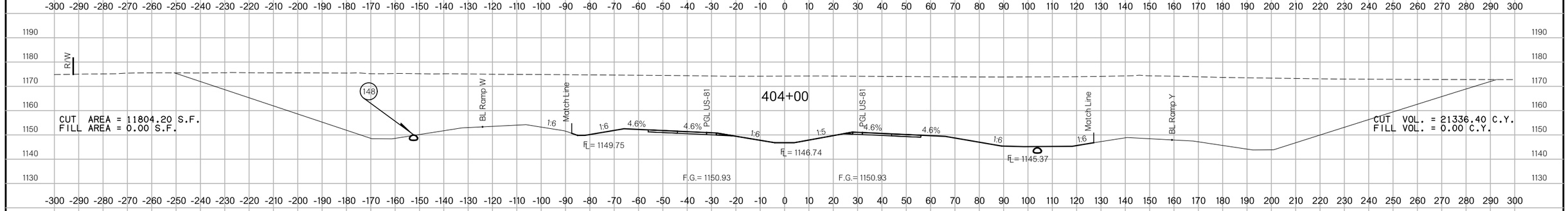
CUT AREA = 13391.27 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 46658.28 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 11804.20 S.F.
FILL AREA = 0.00 S.F.

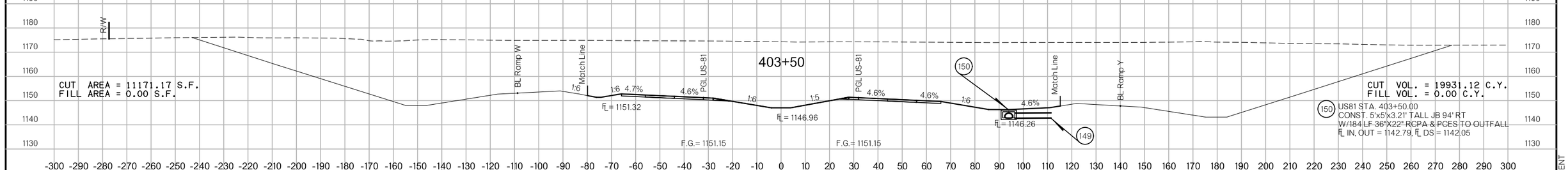
CUT VOL. = 21336.40 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 11171.17 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 19931.12 C.Y.
FILL VOL. = 0.00 C.Y.

150 US81 STA. 403+50.00
CONST. 5'x5'x3.21' TALL JB 94' RT
W/184 LF 36"X22" RCPA & PCES TO OUTFALL
FL IN, OUT = 1142.79, FL DS = 1142.05

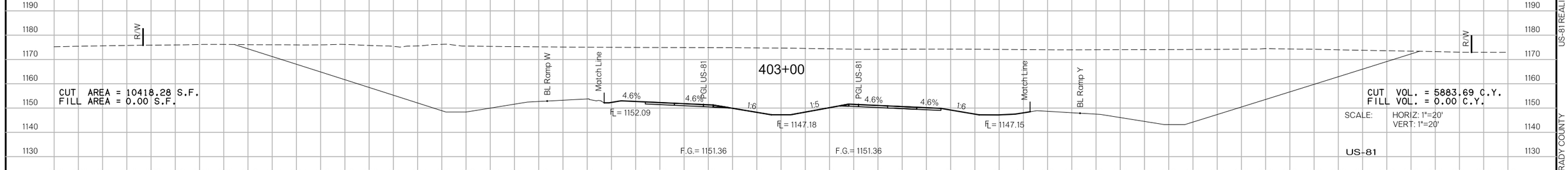


CUT AREA = 10418.28 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 5883.69 C.Y.
FILL VOL. = 0.00 C.Y.

SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81



US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X123

8/27/2017

7:28:03 PM

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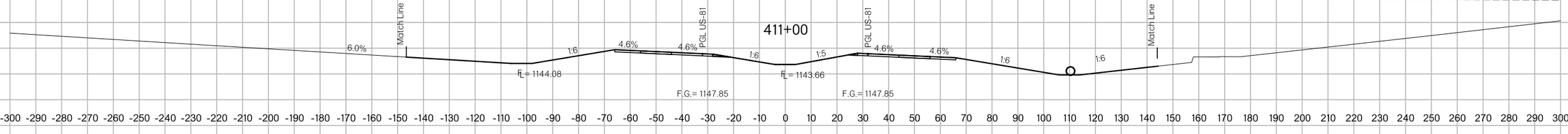
PROPOSED
R/W
AUGUST 2017

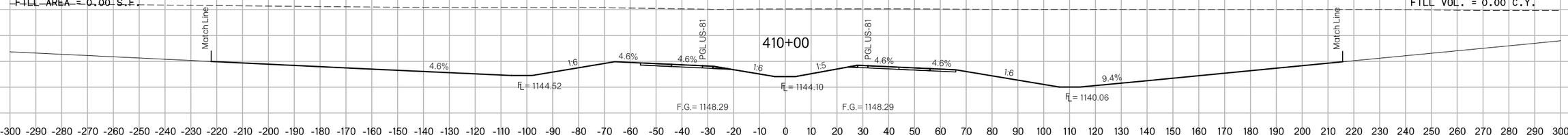
CUT AREA = 12753.60 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 45566.97 C.Y.
FILL VOL. = 0.00 C.Y.



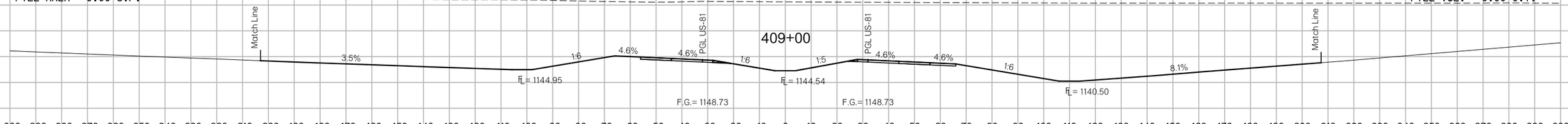
CUT AREA = 11852.57 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 45743.52 C.Y.
FILL VOL. = 0.00 C.Y.



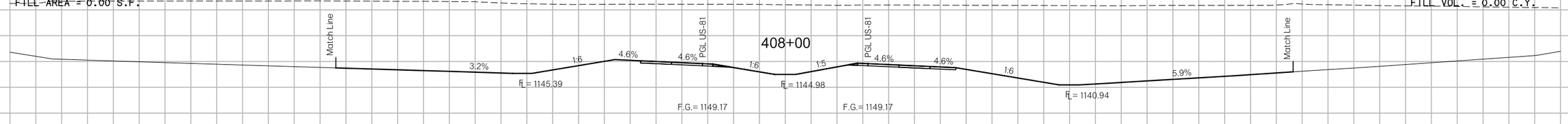
CUT AREA = 12848.94 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 50364.00 C.Y.
FILL VOL. = 0.00 C.Y.



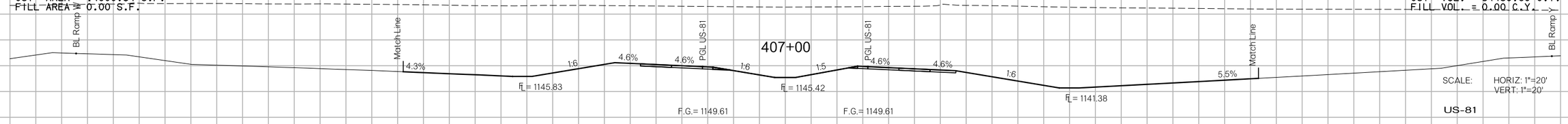
CUT AREA = 14347.62 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 54163.82 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 14900.84 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 54459.69 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04)

Sheet No. X124

US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

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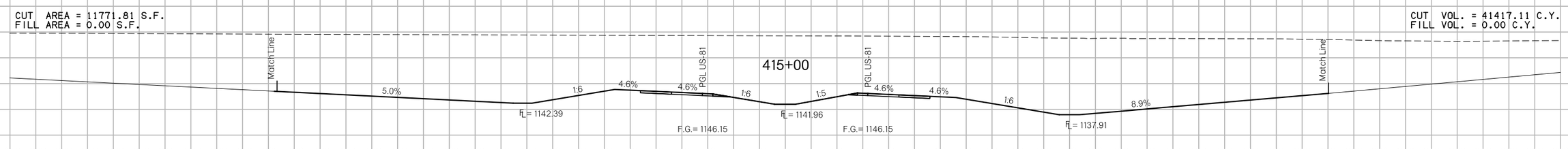
PROPOSED
R/W
AUGUST 2017

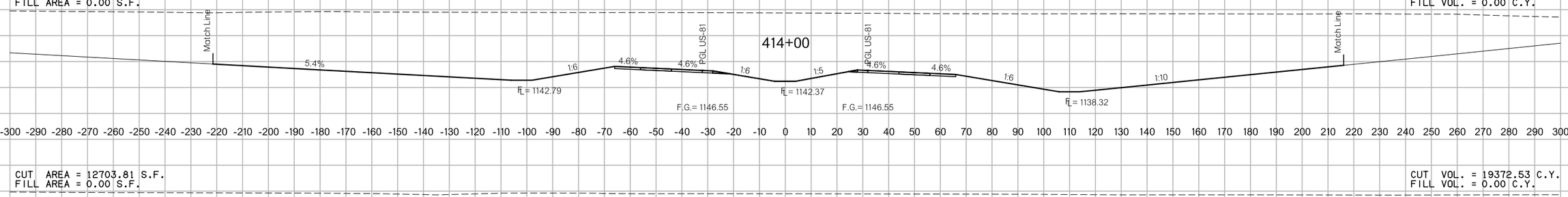
CUT AREA = 11771.81 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 41417.11 C.Y.
FILL VOL. = 0.00 C.Y.



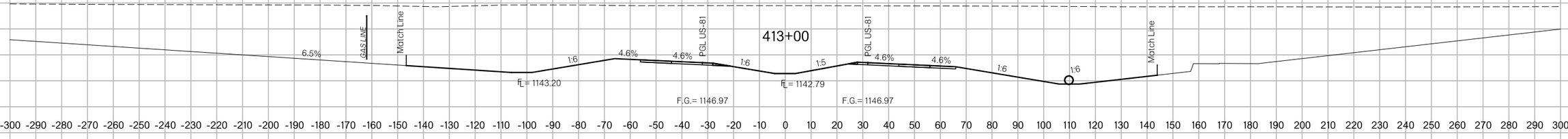
CUT AREA = 10593.43 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 43143.03 C.Y.
FILL VOL. = 0.00 C.Y.



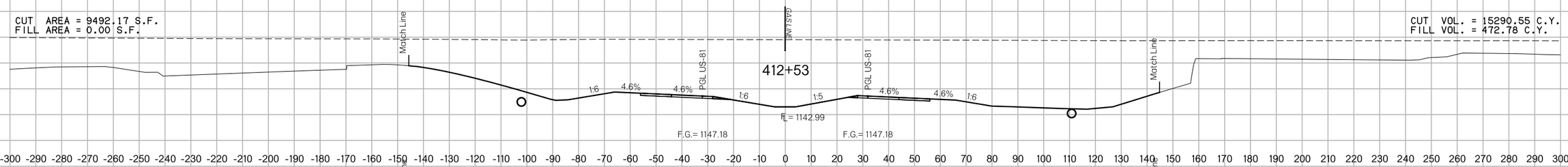
CUT AREA = 12703.81 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 19372.53 C.Y.
FILL VOL. = 0.00 C.Y.



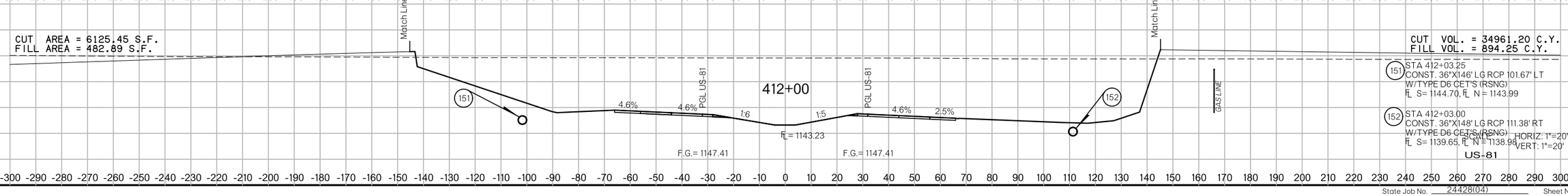
CUT AREA = 9492.17 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 15290.55 C.Y.
FILL VOL. = 472.78 C.Y.



CUT AREA = 6125.45 S.F.
FILL AREA = 482.89 S.F.

CUT VOL. = 34961.20 C.Y.
FILL VOL. = 894.25 C.Y.



(151) STA 412+03.25
CONST. 36"X146' LG RCP 101.67' LT
W/TYPE D6 CET'S (RSNG)
FL S= 1144.70, FL N = 1143.99

(152) STA 412+03.00
CONST. 36"X148' LG RCP 111.38' RT
W/TYPE D6 CET'S (RSNG)
FL S= 1139.65, FL N = 1138.98

SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X125

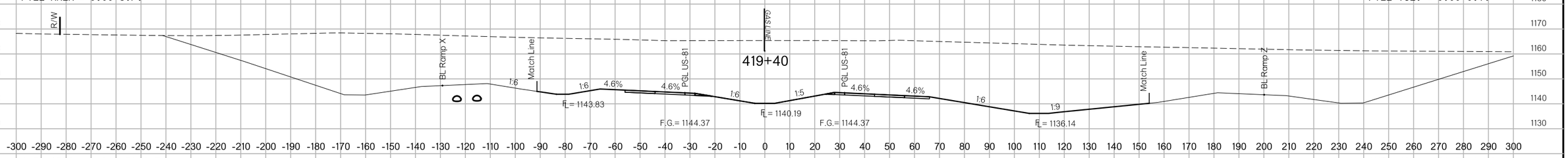
US-81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

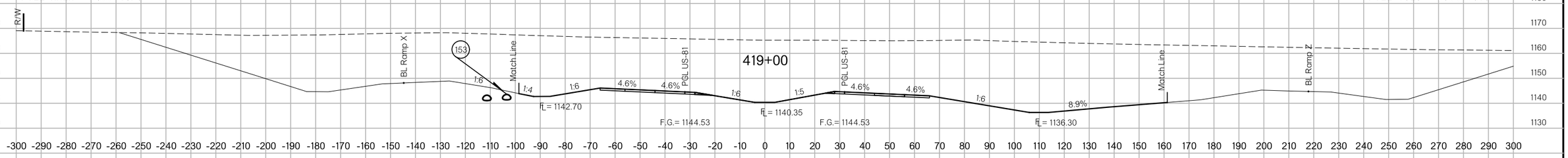
CUT AREA = 10494.14 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 16127.22 C.Y.
FILL VOL. = 0.00 C.Y.



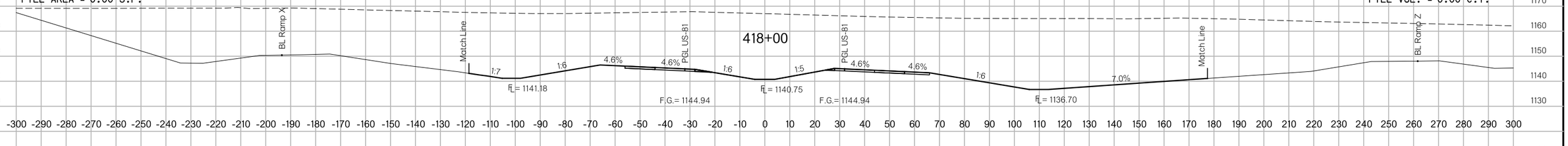
CUT AREA = 11208.56 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 44137.01 C.Y.
FILL VOL. = 0.00 C.Y.



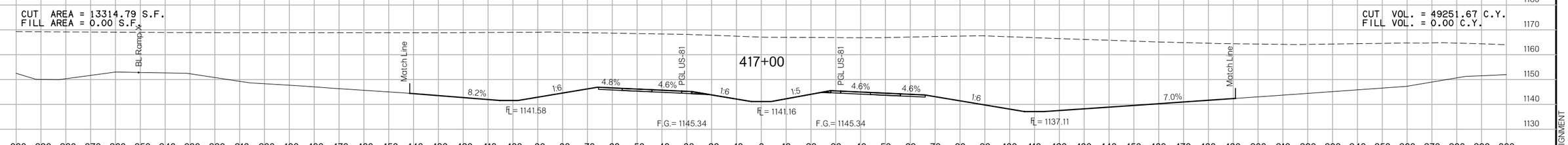
CUT AREA = 12625.43 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 48037.44 C.Y.
FILL VOL. = 0.00 C.Y.



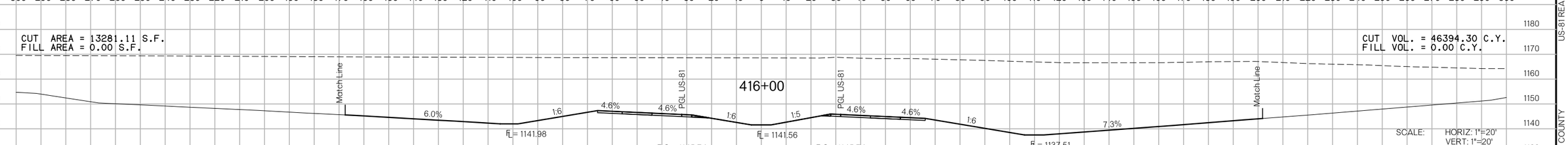
CUT AREA = 13314.79 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 49251.67 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 13281.11 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 46394.30 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X126

8/27/2017

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PROPOSED
R/W
AUGUST 2017

CUT AREA = 8669.89 S.F.
FILL AREA = 0.49 S.F.

CUT VOL. = 20797.02 C.Y.
FILL VOL. = 0.58 C.Y.

R/W | GAS LINE | 1:3 | 1:6 | 3.4% | 3.4% | 4.6% | 4.6% | PGL US-81 | 422+00 | 1:6 | 1:5 | PGL US-81 | 4.6% | 1:6 | Match Line | BL Ramp Z | GAS LINE | R/W

FL = 1140.17 | FL = 1139.14 | FL = 1139.97

F.G.= 1143.32 | F.G.= 1143.32

CUT AREA = 8976.85 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 12098.39 C.Y.
FILL VOL. = 0.00 C.Y.

R/W | 1:3 | 1:6 | 5.2% | 5.2% | 4.6% | 4.6% | PGL US-81 | 421+36 | 1:6 | 1:5 | PGL US-81 | 4.6% | 4.6% | 1:6 | 1:6 | Match Line | BL Ramp Z | R/W

FL = 1140.44 | FL = 1139.40 | FL = 1139.23

F.G.= 1143.58 | F.G.= 1143.58

CUT AREA = 8991.05 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 10063.84 C.Y.
FILL VOL. = 0.00 C.Y.

R/W | 1:3 | 1:6 | 5.2% | 5.2% | 4.6% | 4.6% | 4.6% | PGL US-81 | 421+00 | 1:6 | 1:5 | PGL US-81 | 4.6% | 4.6% | 1:6 | 1:6 | Match Line | BL Ramp Z | R/W

FL = 1140.60 | FL = 1139.54 | FL = 1138.81

F.G.= 1143.73 | F.G.= 1143.73

CUT AREA = 9095.57 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 24810.21 C.Y.
FILL VOL. = 0.00 C.Y.

R/W | BL Ramp X | Match Line | 4.6% | 4.6% | PGL US-81 | 420+70 | 1:6 | 1:5 | PGL US-81 | 4.6% | 4.6% | 1:6 | 1:6 | Match Line | 155 | BL Ramp Z | R/W

FL = 1139.66 | FL = 1138.47

F.G.= 1143.85 | F.G.= 1143.85

CUT AREA = 10056.58 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 22785.71 C.Y.
FILL VOL. = 0.00 C.Y.

154 STA. 420+00.00
CONST. GPI TYPE 1 DES. 2 W/104 LF
30" RCP & TYPE B4 CET (RCGR)
TG = 1139.94, FL = 1135.15, DS FL = 1134.71

R/W | BL Ramp X | Match Line | 4.6% | 4.6% | 4.6% | PGL US-81 | 420+00 | 1:6 | 1:5 | PGL US-81 | 4.6% | 4.6% | 4.6% | 1:6 | 1:6 | Match Line | BL Ramp Z | R/W

FL = 1144.40 | FL = 1139.94 | FL = 1135.90

F.G.= 1144.13 | 154 | F.G.= 1144.13

SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X127

8/27/2017

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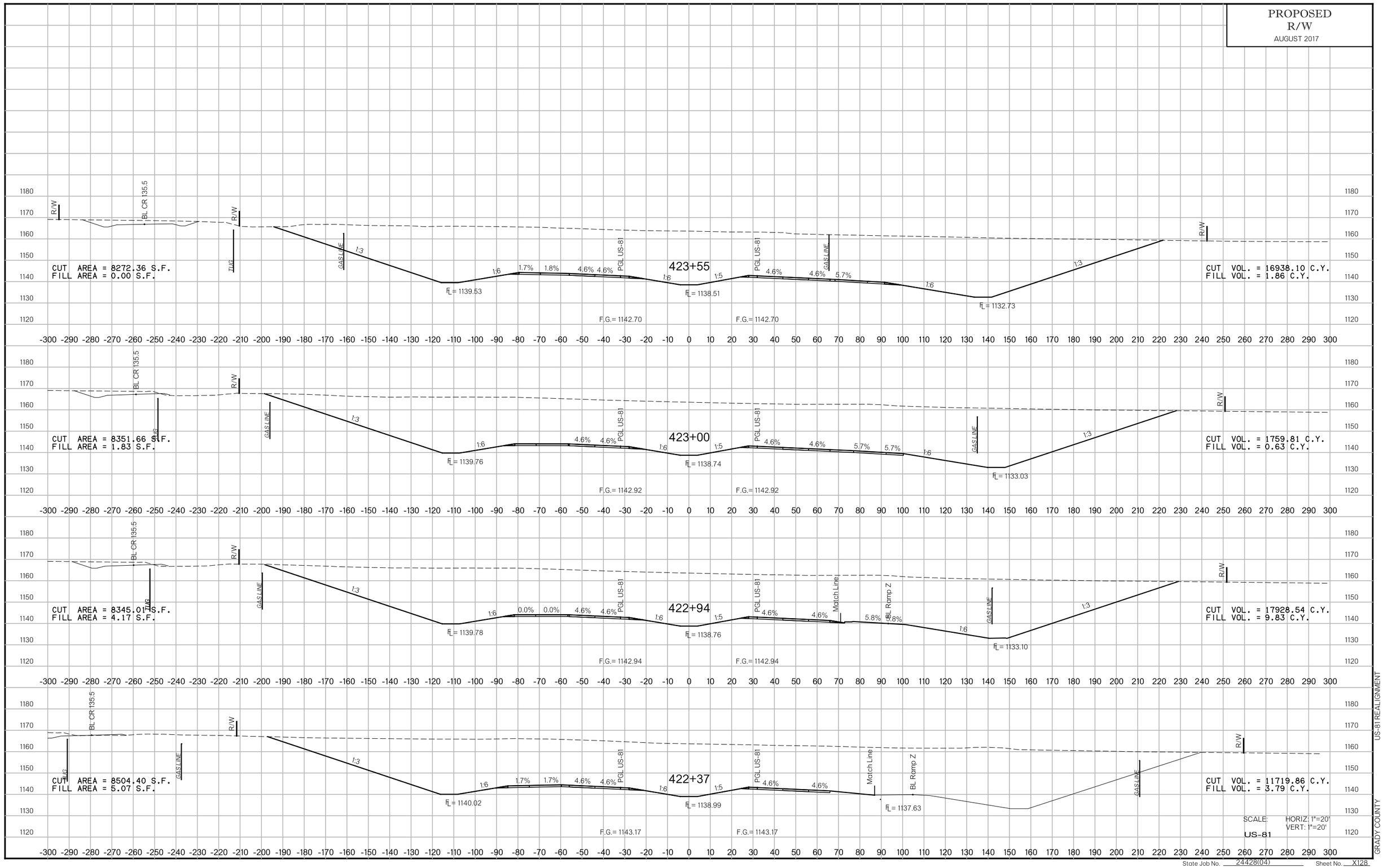
PROPOSED
R/W
AUGUST 2017



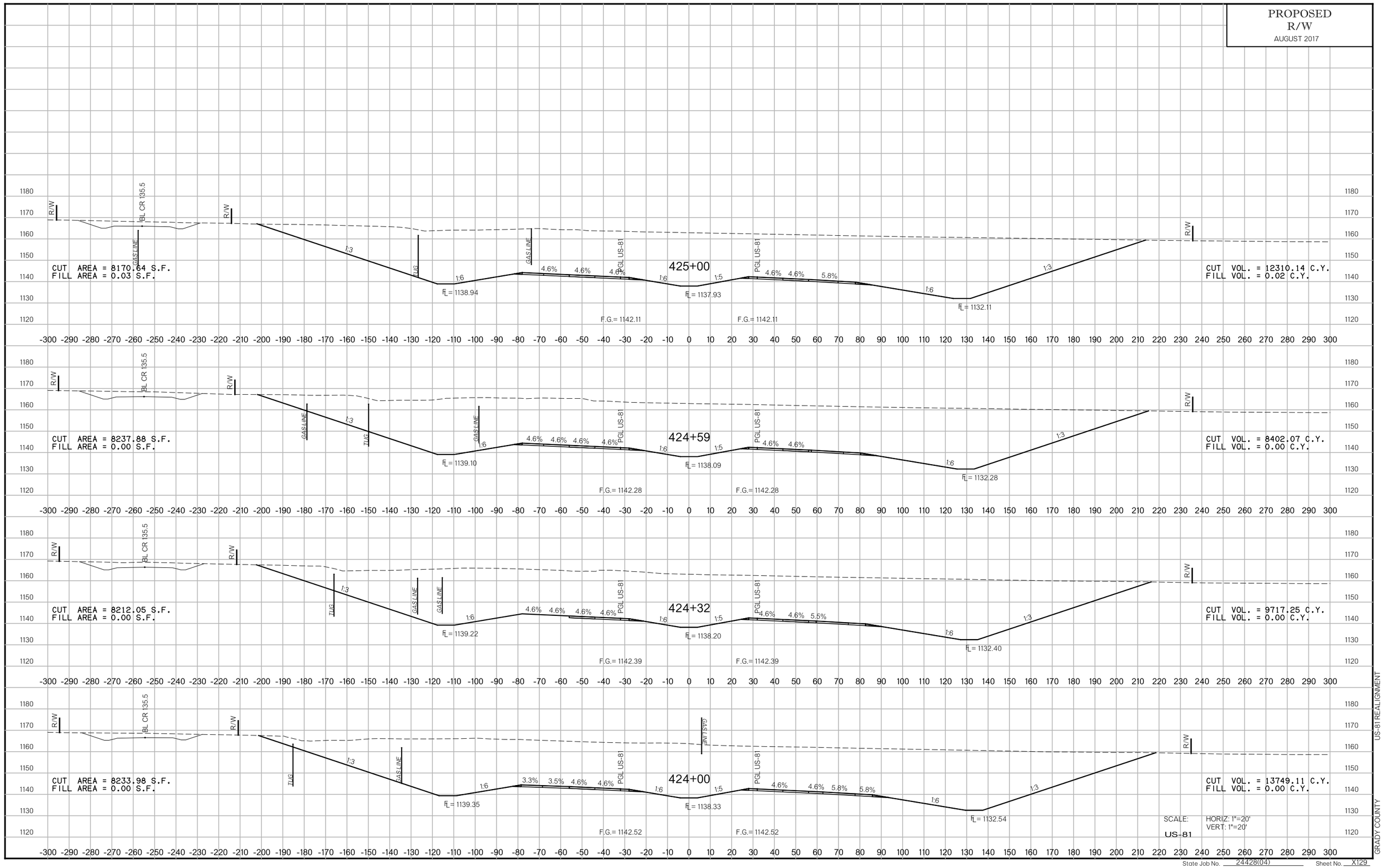
State Job No. 24428(04) Sheet No. X128

US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

PROPOSED
R/W
AUGUST 2017



SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X129

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US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

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PROPOSED
R/W
AUGUST 2017

427+00

CUT AREA = 7832.05 S.F.
FILL AREA = 27.44 S.F.

CUT VOL. = 17483.73 C.Y.
FILL VOL. = 30.42 C.Y.

F.G.= 1141.31 F.G.= 1141.31

FL = 1138.13 FL = 1137.12 FL = 1131.26

426+41

CUT AREA = 8047.51 S.F.
FILL AREA = 0.20 S.F.

CUT VOL. = 12166.30 C.Y.
FILL VOL. = 0.15 C.Y.

F.G.= 1141.55 F.G.= 1141.55

FL = 1138.37 FL = 1137.36 FL = 1131.51

426+00

CUT AREA = 8156.27 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 7623.29 C.Y.
FILL VOL. = 0.00 C.Y.

F.G.= 1141.71 F.G.= 1141.71

FL = 1138.53 FL = 1137.52 FL = 1131.68

425+75

CUT AREA = 8209.14 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 2337.19 C.Y.
FILL VOL. = 0.00 C.Y.

F.G.= 1141.81 F.G.= 1141.81

FL = 1138.63 FL = 1137.63 FL = 1131.78

425+67

CUT AREA = 8190.26 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 20345.08 C.Y.
FILL VOL. = 0.04 C.Y.

F.G.= 1141.84 F.G.= 1141.84

FL = 1138.67 FL = 1137.66 FL = 1131.82

SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X130

8/27/2017

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PROPOSED
R/W
AUGUST 2017

432+00

CUT AREA = 7015.08 S.F.
FILL AREA = 1.39 S.F.

CUT VOL. = 24736.35 C.Y.
FILL VOL. = 193.37 C.Y.

F.G.= 1139.29 F.G.= 1139.29

FL = 1136.11 FL = 1135.11 FL = 1129.19

431+00

CUT AREA = 6342.54 S.F.
FILL AREA = 103.03 S.F.

CUT VOL. = 23014.10 C.Y.
FILL VOL. = 406.09 C.Y.

F.G.= 1139.69 F.G.= 1139.69

FL = 1136.51 FL = 1135.51 FL = 1129.61

430+00

CUT AREA = 6085.07 S.F.
FILL AREA = 116.25 S.F.

CUT VOL. = 23326.99 C.Y.
FILL VOL. = 402.82 C.Y.

F.G.= 1140.10 F.G.= 1140.10

FL = 1136.92 FL = 1135.91 FL = 1130.02

429+00

CUT AREA = 6511.51 S.F.
FILL AREA = 101.27 S.F.

CUT VOL. = 25317.41 C.Y.
FILL VOL. = 251.73 C.Y.

F.G.= 1140.50 F.G.= 1140.50

FL = 1137.32 FL = 1136.32 FL = 1130.43

428+00

CUT AREA = 7159.89 S.F.
FILL AREA = 34.67 S.F.

CUT VOL. = 27762.86 C.Y.
FILL VOL. = 115.01 C.Y.

F.G.= 1140.90 F.G.= 1140.90

FL = 1137.73 FL = 1136.72 FL = 1130.85

SCALE: HORIZ: 1"=20'
VERT: 1"=20'

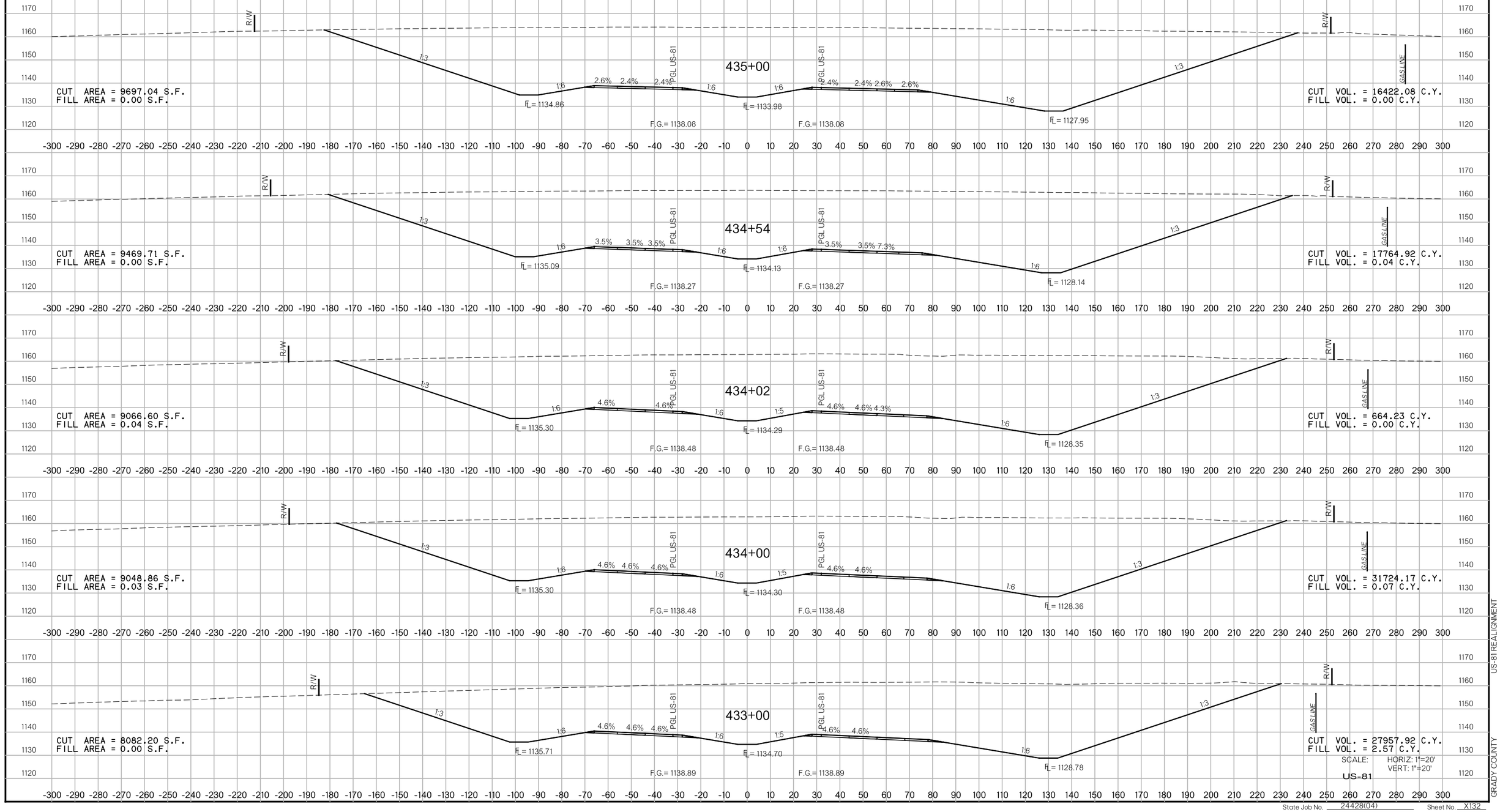
US-81

State Job No. 24428(04) Sheet No. X131

US-81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017



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US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X132

8/27/2017

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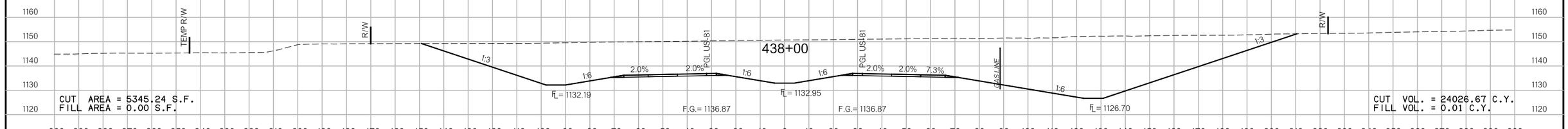
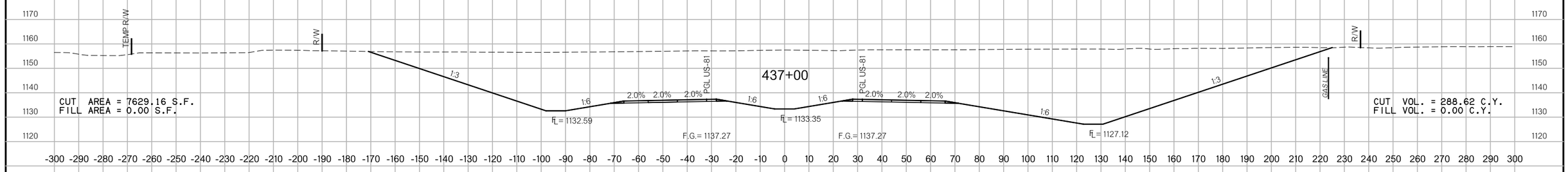
PROPOSED
R/W
AUGUST 2017



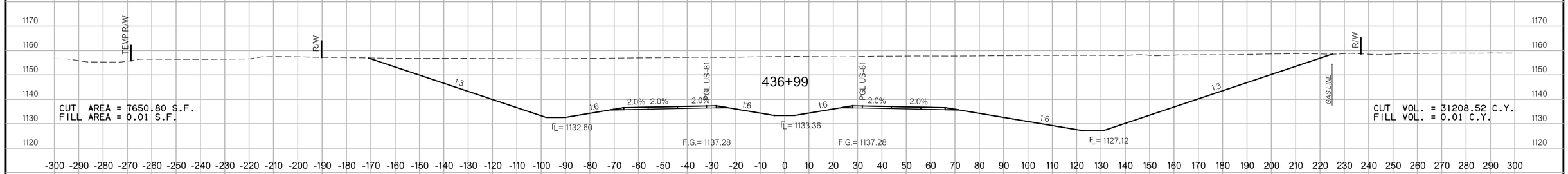
CUT AREA = 5345.24 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 24026.67 C.Y.
FILL VOL. = 0.01 C.Y.



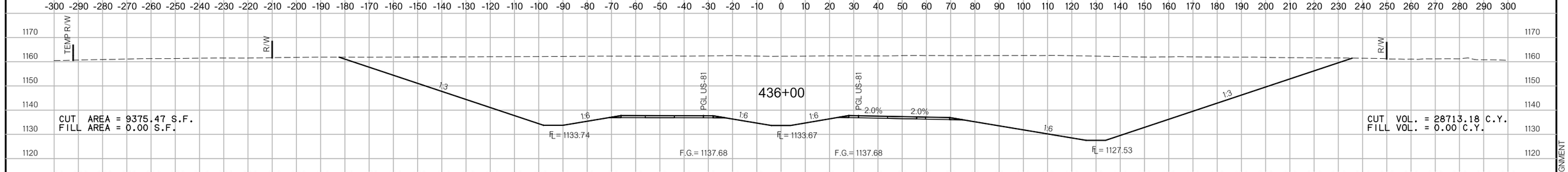
CUT AREA = 7629.16 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 288.62 C.Y.
FILL VOL. = 0.00 C.Y.



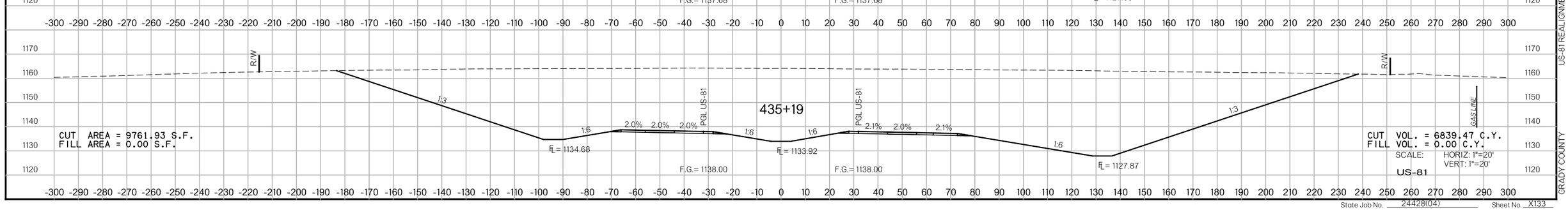
CUT AREA = 7650.80 S.F.
FILL AREA = 0.01 S.F.

CUT VOL. = 31208.52 C.Y.
FILL VOL. = 0.01 C.Y.



CUT AREA = 9375.47 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 28713.18 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 9761.93 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 6839.47 C.Y.
FILL VOL. = 0.00 C.Y.

SCALE: HORIZ. 1"=20'
VERT. 1"=20'

US-81

US-81 REALIGNMENT

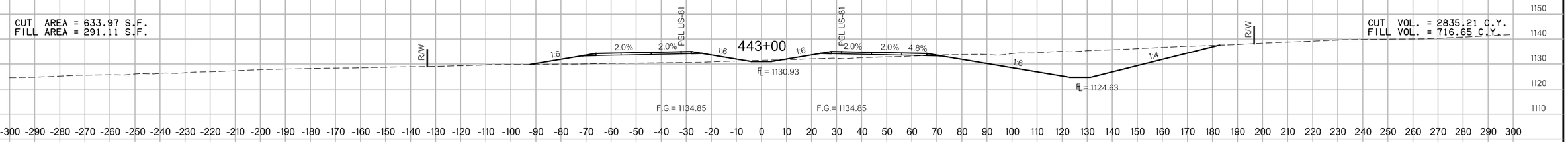
GRADY COUNTY

State Job No. 24428(04) Sheet No. X133

8/27/2017

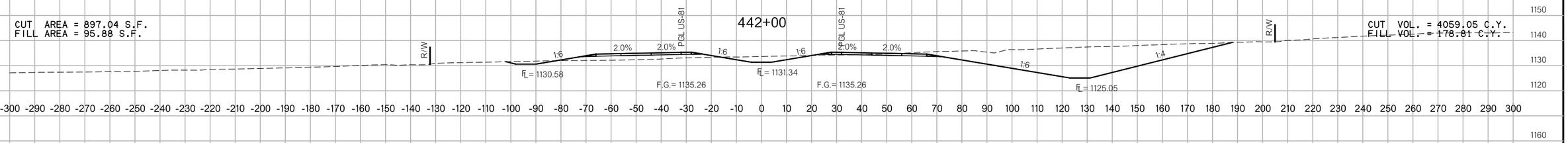
PROPOSED
R/W
AUGUST 2017

CUT AREA = 633.97 S.F.
FILL AREA = 291.11 S.F.



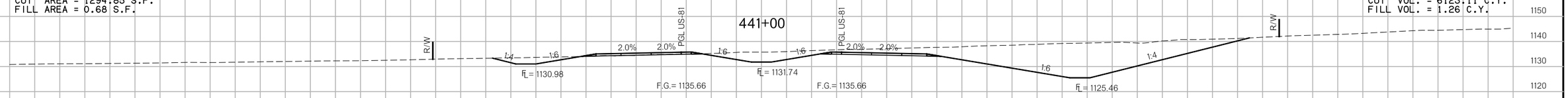
CUT VOL. = 2835.21 C.Y.
FILL VOL. = 716.65 C.Y.

CUT AREA = 897.04 S.F.
FILL AREA = 95.88 S.F.



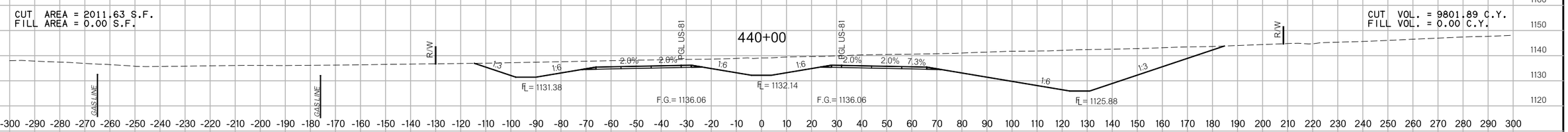
CUT VOL. = 4059.05 C.Y.
FILL VOL. = 178.81 C.Y.

CUT AREA = 1294.85 S.F.
FILL AREA = 0.68 S.F.



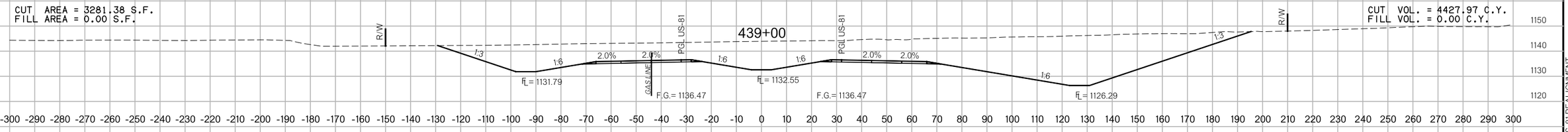
CUT VOL. = 6123.11 C.Y.
FILL VOL. = 1.26 C.Y.

CUT AREA = 2011.63 S.F.
FILL AREA = 0.00 S.F.



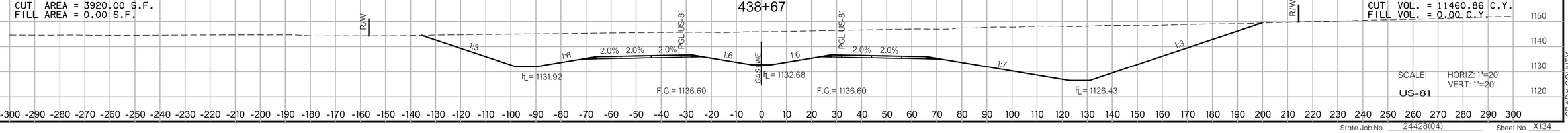
CUT VOL. = 9801.89 C.Y.
FILL VOL. = 0.00 C.Y.

CUT AREA = 3281.38 S.F.
FILL AREA = 0.00 S.F.



CUT VOL. = 4427.97 C.Y.
FILL VOL. = 0.00 C.Y.

CUT AREA = 3920.00 S.F.
FILL AREA = 0.00 S.F.



CUT VOL. = 11460.86 C.Y.
FILL VOL. = 0.00 C.Y.

SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X134

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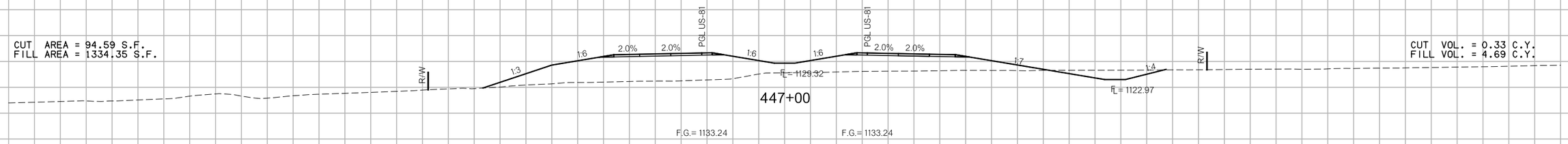
US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

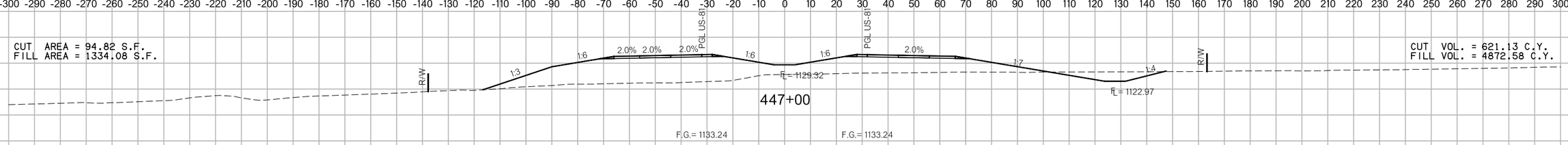
PROPOSED R/W
AUGUST 2017

CUT AREA = 94.59 S.F.
FILL AREA = 1334.35 S.F.



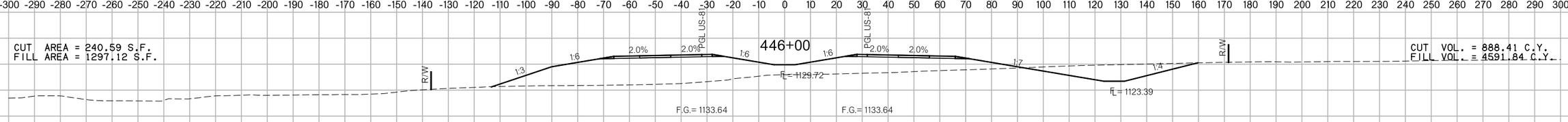
CUT VOL. = 0.33 C.Y.
FILL VOL. = 4.69 C.Y.

CUT AREA = 94.82 S.F.
FILL AREA = 1334.08 S.F.



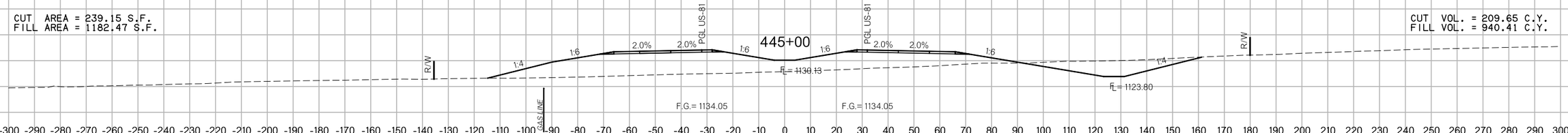
CUT VOL. = 621.13 C.Y.
FILL VOL. = 4872.58 C.Y.

CUT AREA = 240.59 S.F.
FILL AREA = 1297.12 S.F.



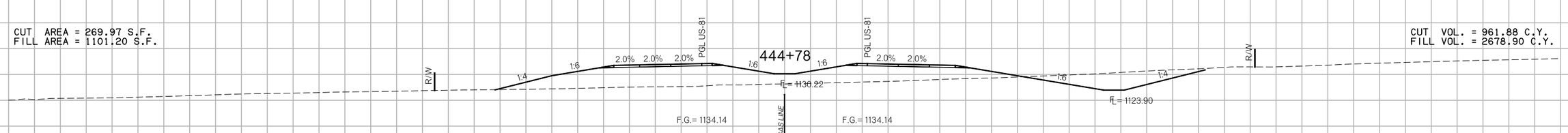
CUT VOL. = 888.41 C.Y.
FILL VOL. = 4591.84 C.Y.

CUT AREA = 239.15 S.F.
FILL AREA = 1182.47 S.F.



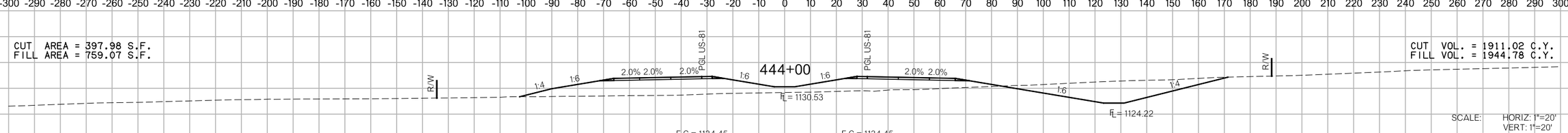
CUT VOL. = 209.65 C.Y.
FILL VOL. = 940.41 C.Y.

CUT AREA = 269.97 S.F.
FILL AREA = 1101.20 S.F.



CUT VOL. = 961.88 C.Y.
FILL VOL. = 2678.90 C.Y.

CUT AREA = 397.98 S.F.
FILL AREA = 759.07 S.F.



CUT VOL. = 1911.02 C.Y.
FILL VOL. = 1944.78 C.Y.

SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X135

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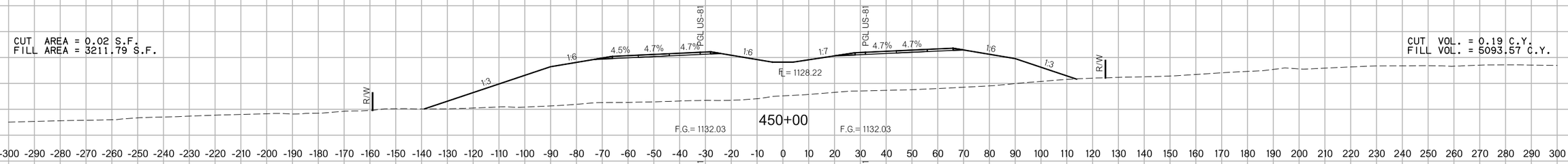
US-81 REALIGNMENT

GRADY COUNTY

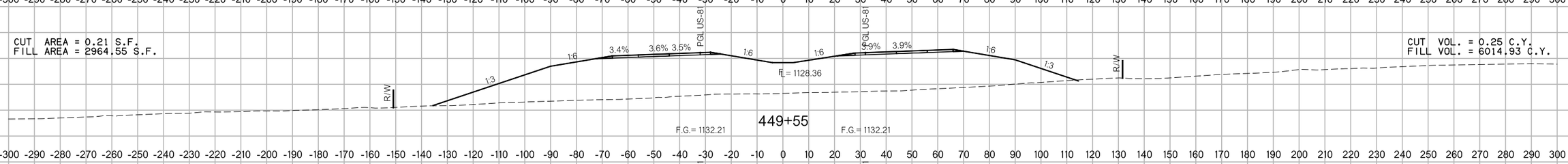
PROPOSED
R/W
AUGUST 2017

CUT AREA = 0.02 S.F.
FILL AREA = 3211.79 S.F.



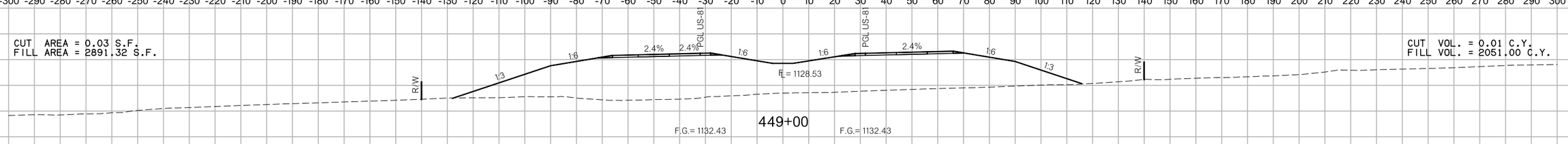
CUT VOL. = 0.19 C.Y.
FILL VOL. = 5093.57 C.Y.

CUT AREA = 0.21 S.F.
FILL AREA = 2964.55 S.F.



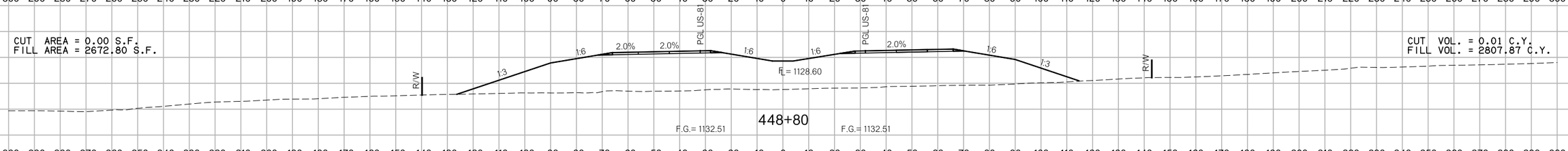
CUT VOL. = 0.25 C.Y.
FILL VOL. = 6014.93 C.Y.

CUT AREA = 0.03 S.F.
FILL AREA = 2891.32 S.F.



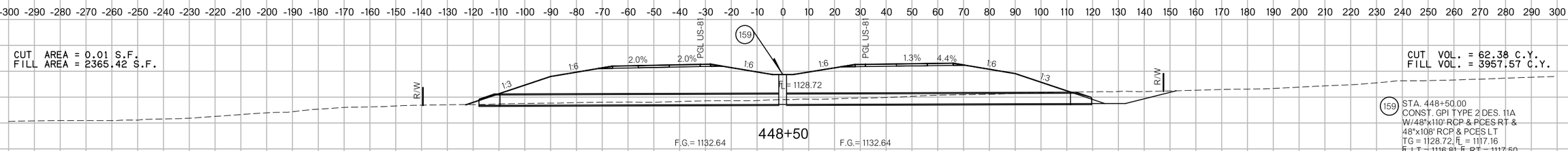
CUT VOL. = 0.01 C.Y.
FILL VOL. = 2051.00 C.Y.

CUT AREA = 0.00 S.F.
FILL AREA = 2672.80 S.F.



CUT VOL. = 0.01 C.Y.
FILL VOL. = 2807.87 C.Y.

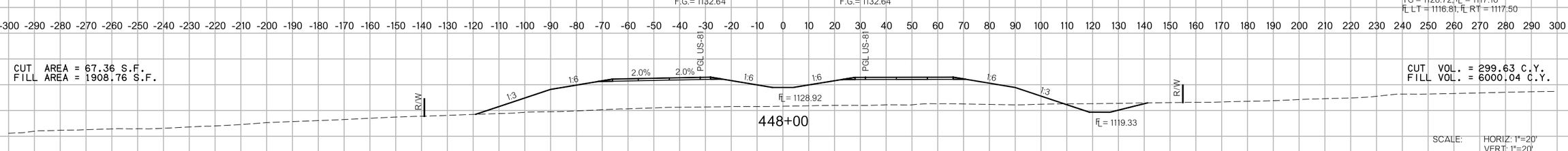
CUT AREA = 0.01 S.F.
FILL AREA = 2365.42 S.F.



CUT VOL. = 62.38 C.Y.
FILL VOL. = 3957.57 C.Y.

159 STA. 448+50.00
CONST. GPI TYPE 2 DES. 11A
W/48"x110' RCP & PCES RT &
48"x108' RCP & PCES LT
TG = 1128.72, FL = 1117.16
FL LT = 1116.81, FL RT = 1117.50

CUT AREA = 67.36 S.F.
FILL AREA = 1908.76 S.F.



CUT VOL. = 299.63 C.Y.
FILL VOL. = 6000.04 C.Y.

SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X136

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US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

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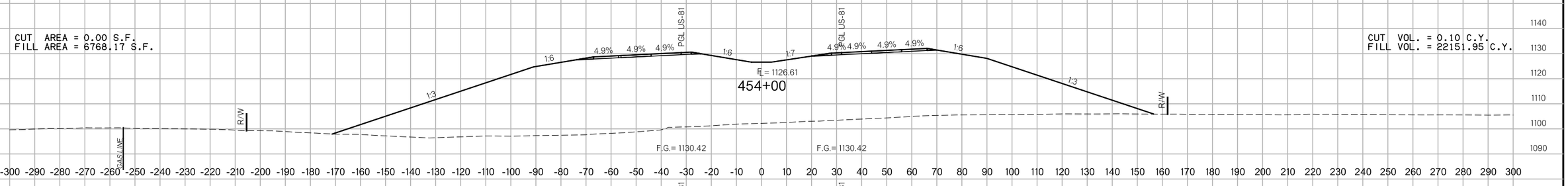
PROPOSED
R/W
AUGUST 2017

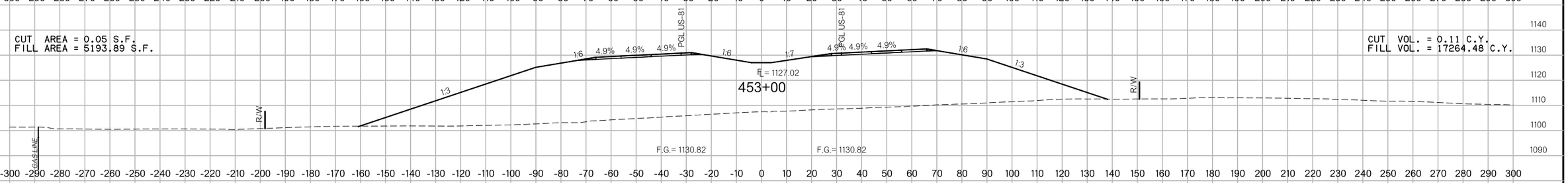
CUT AREA = 0.00 S.F.
FILL AREA = 6768.17 S.F.

CUT VOL. = 0.10 C.Y.
FILL VOL. = 22151.95 C.Y.



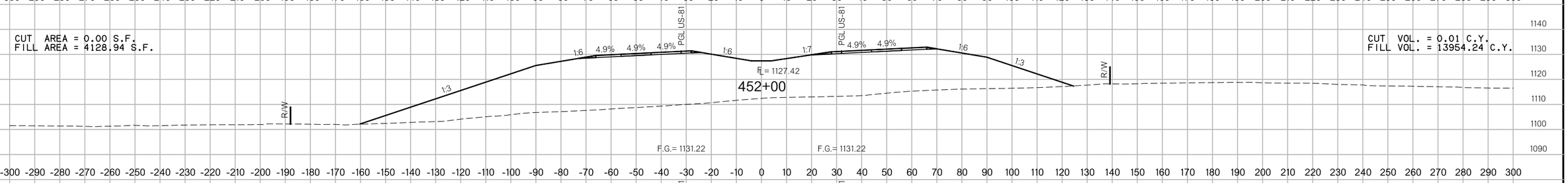
CUT AREA = 0.05 S.F.
FILL AREA = 5193.89 S.F.

CUT VOL. = 0.11 C.Y.
FILL VOL. = 17264.48 C.Y.



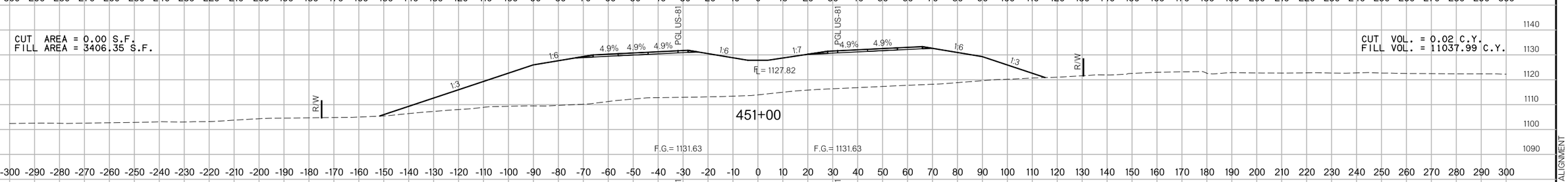
CUT AREA = 0.00 S.F.
FILL AREA = 4128.94 S.F.

CUT VOL. = 0.01 C.Y.
FILL VOL. = 13954.24 C.Y.



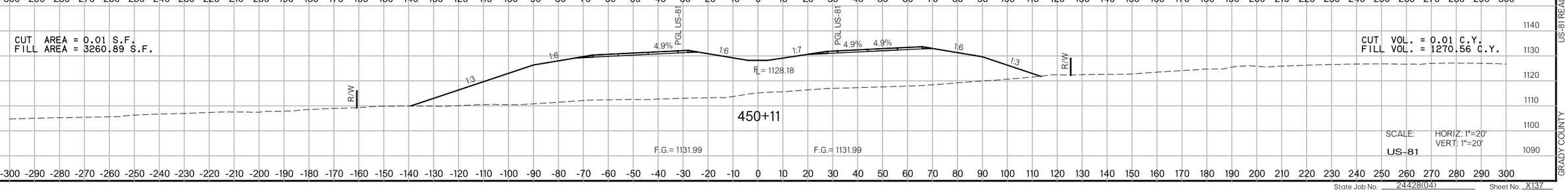
CUT AREA = 0.00 S.F.
FILL AREA = 3406.35 S.F.

CUT VOL. = 0.02 C.Y.
FILL VOL. = 11037.99 C.Y.



CUT AREA = 0.01 S.F.
FILL AREA = 3260.89 S.F.

CUT VOL. = 0.01 C.Y.
FILL VOL. = 1270.56 C.Y.



SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04)

Sheet No. X137

8/27/2017

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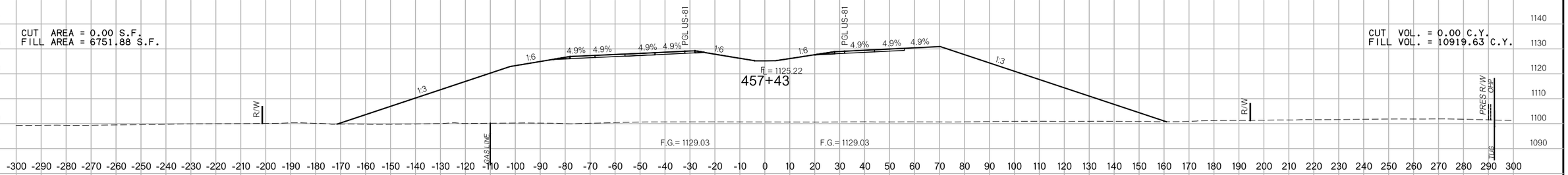
PROPOSED
R/W
AUGUST 2017

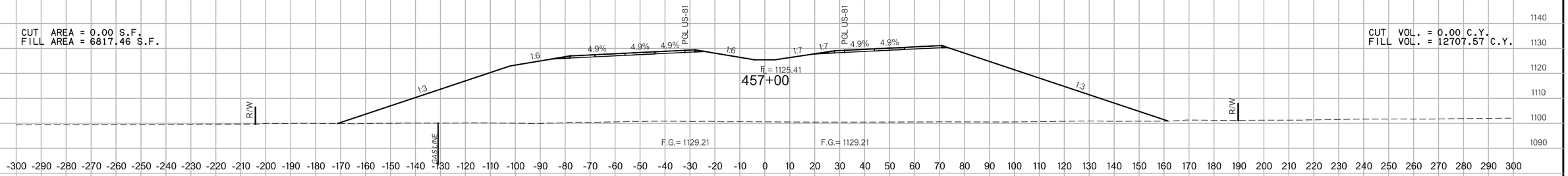
CUT AREA = 0.00 S.F.
FILL AREA = 6751.88 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 10919.63 C.Y.



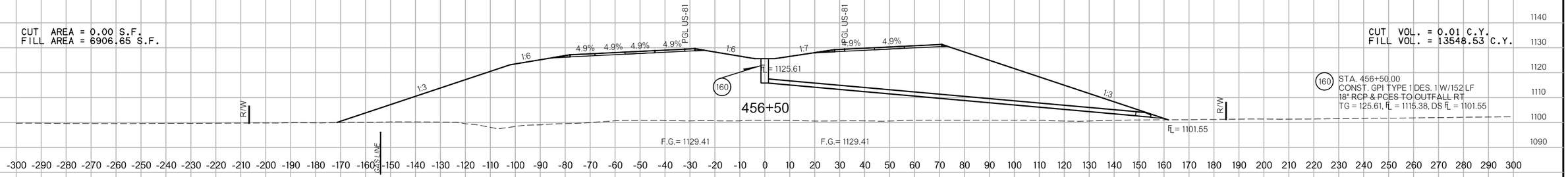
CUT AREA = 0.00 S.F.
FILL AREA = 6817.46 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 12707.57 C.Y.



CUT AREA = 0.00 S.F.
FILL AREA = 6906.65 S.F.

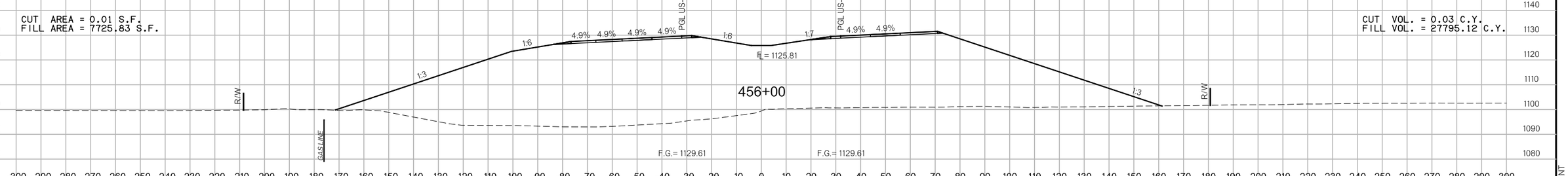
CUT VOL. = 0.01 C.Y.
FILL VOL. = 13548.53 C.Y.



160 STA. 456+50.00
CONST. GPI TYPE 1 DES. 1 W/152 LF
18" RCP & PCES TO OUTFALL RT
TG = 125.61, FL = 1115.38, DS FL = 1101.55

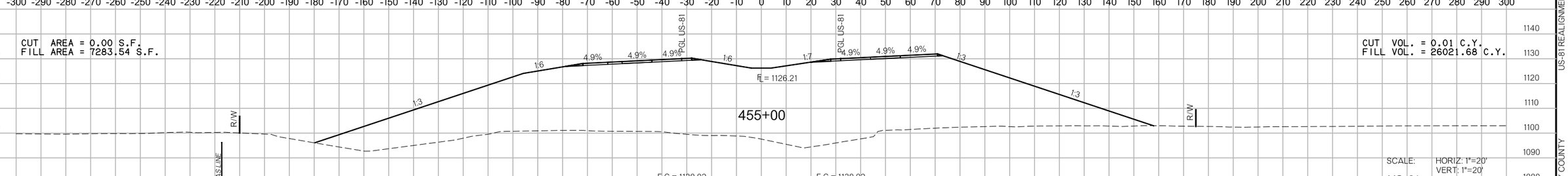
CUT AREA = 0.01 S.F.
FILL AREA = 7725.83 S.F.

CUT VOL. = 0.03 C.Y.
FILL VOL. = 27795.12 C.Y.



CUT AREA = 0.00 S.F.
FILL AREA = 7283.54 S.F.

CUT VOL. = 0.01 C.Y.
FILL VOL. = 26021.68 C.Y.



SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X138

US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

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PROPOSED
R/W
AUGUST 2017

459+43

CUT AREA = 0.00 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 0.00 C.Y.

459+00

CUT AREA = 0.00 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 0.00 C.Y.

459+00

CUT AREA = 0.00 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 2890.50 C.Y.

458+44

CUT AREA = 0.00 S.F.
FILL AREA = 2795.05 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 834.28 C.Y.

458+36

CUT AREA = 0.00 S.F.
FILL AREA = 3068.75 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 5483.18 C.Y.

458+00

CUT AREA = 0.00 S.F.
FILL AREA = 5067.58 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 1347.92 C.Y.

457+93

CUT AREA = 0.00 S.F.
FILL AREA = 5127.16 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 2142.84 C.Y.

457+83

CUT AREA = 0.00 S.F.
FILL AREA = 6126.63 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 9330.42 C.Y.

SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04)

Sheet No. X139

8/27/2017

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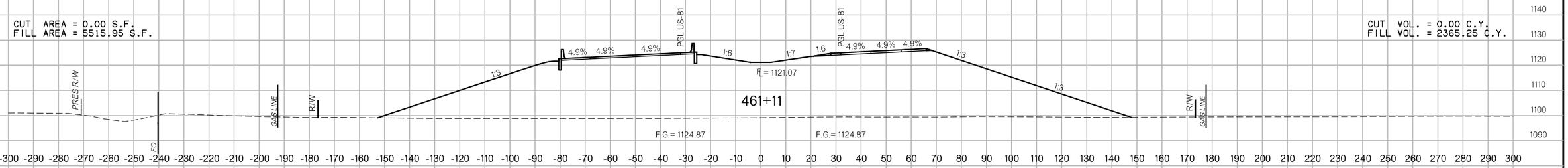
PROPOSED
R/W
AUGUST 2017

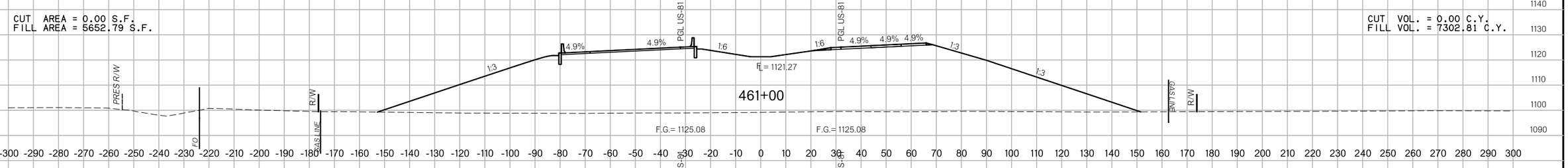
CUT AREA = 0.00 S.F.
FILL AREA = 5515.95 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 2365.25 C.Y.



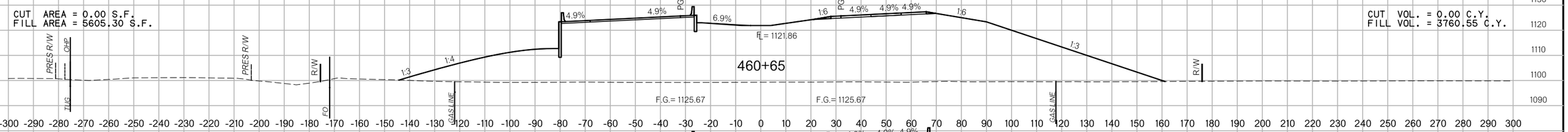
CUT AREA = 0.00 S.F.
FILL AREA = 5652.79 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 7302.81 C.Y.



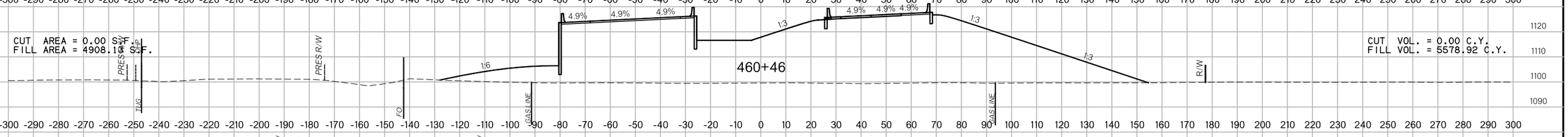
CUT AREA = 0.00 S.F.
FILL AREA = 5605.30 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 3760.55 C.Y.



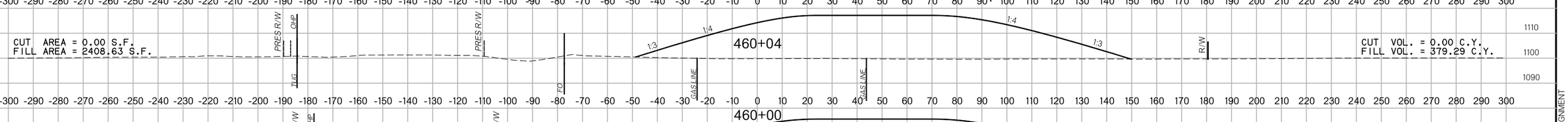
CUT AREA = 0.00 S.F.
FILL AREA = 4908.16 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 5578.92 C.Y.



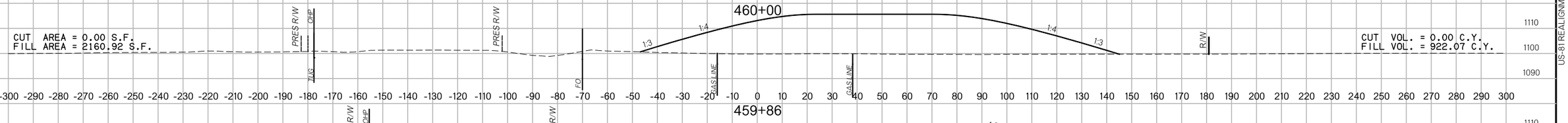
CUT AREA = 0.00 S.F.
FILL AREA = 2408.63 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 379.29 C.Y.



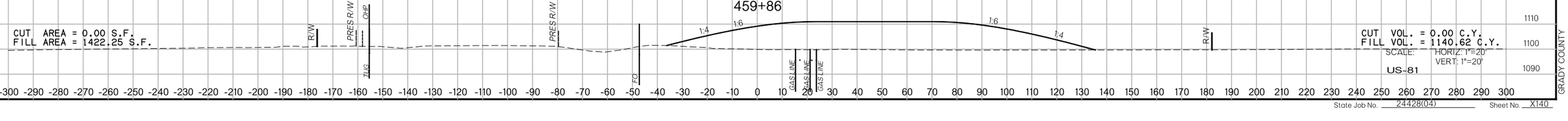
CUT AREA = 0.00 S.F.
FILL AREA = 2160.92 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 922.07 C.Y.



CUT AREA = 0.00 S.F.
FILL AREA = 1422.25 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 1140.62 C.Y.



SCALE: HORIZ. 1"=20'
VERT. 1"=20'

US-81

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04)

Sheet No. X140

8/27/2017

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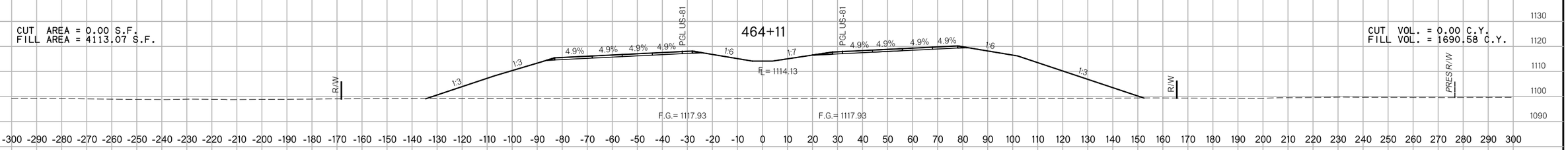
PROPOSED
R/W
AUGUST 2017

464+11

CUT AREA = 0.00 S.F.
FILL AREA = 4113.07 S.F.

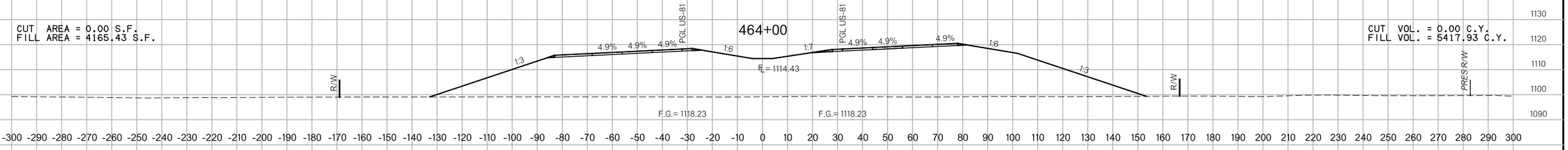
CUT VOL. = 0.00 C.Y.
FILL VOL. = 1690.58 C.Y.



464+00

CUT AREA = 0.00 S.F.
FILL AREA = 4165.43 S.F.

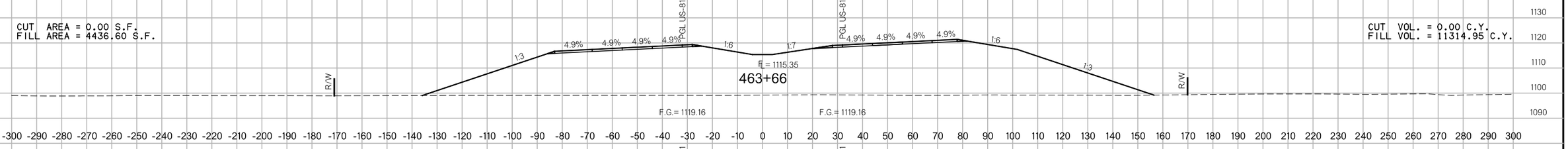
CUT VOL. = 0.00 C.Y.
FILL VOL. = 5417.93 C.Y.



463+66

CUT AREA = 0.00 S.F.
FILL AREA = 4436.60 S.F.

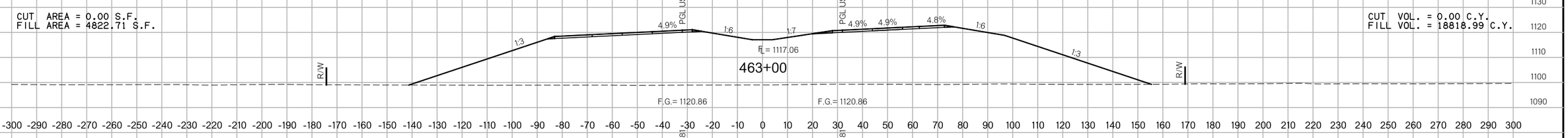
CUT VOL. = 0.00 C.Y.
FILL VOL. = 11314.95 C.Y.



463+00

CUT AREA = 0.00 S.F.
FILL AREA = 4822.71 S.F.

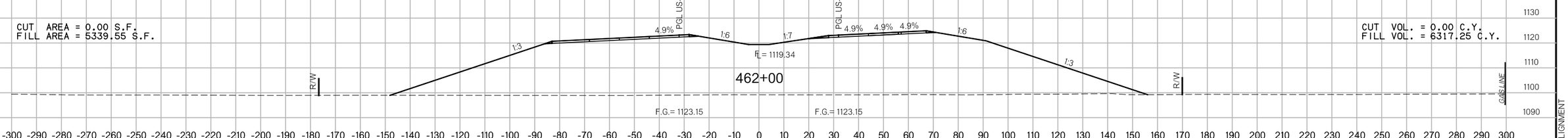
CUT VOL. = 0.00 C.Y.
FILL VOL. = 18818.99 C.Y.



462+00

CUT AREA = 0.00 S.F.
FILL AREA = 5339.55 S.F.

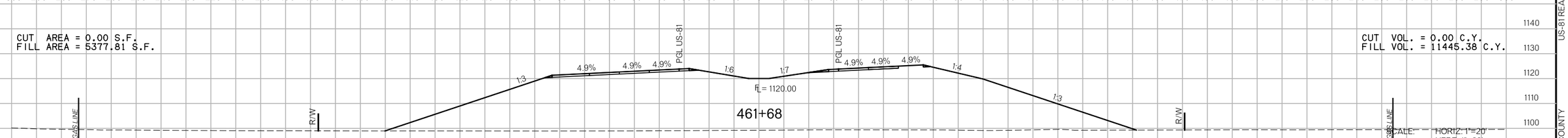
CUT VOL. = 0.00 C.Y.
FILL VOL. = 6317.25 C.Y.



461+68

CUT AREA = 0.00 S.F.
FILL AREA = 5377.81 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 11445.38 C.Y.



SCALE: HORIZ. 1"=20'
VERT. 1"=20'

US-81

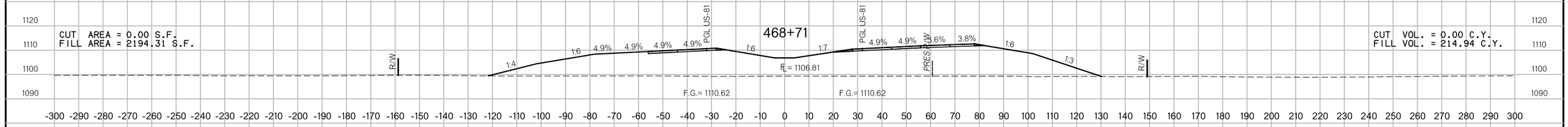
US-81 REALIGNMENT

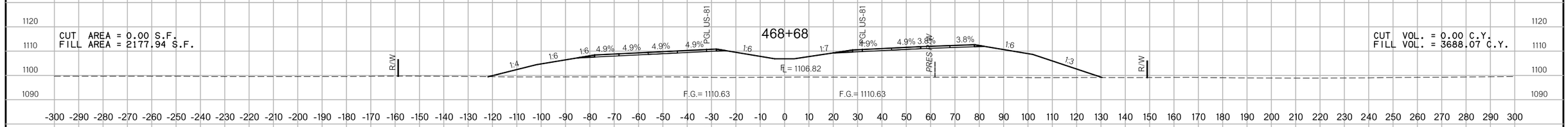
GRADY COUNTY

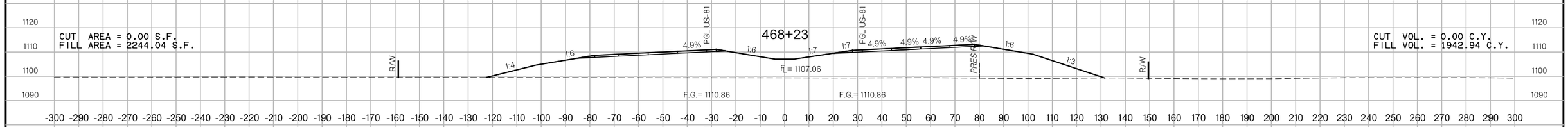
State Job No. 24428(04)

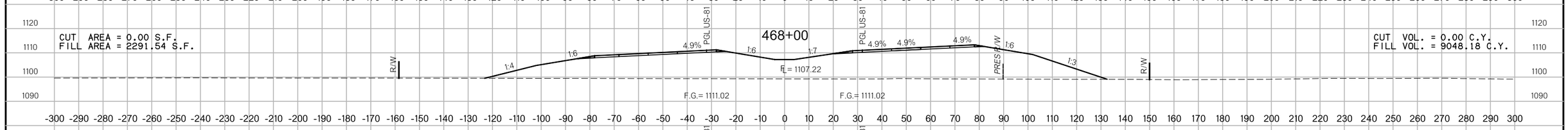
Sheet No. X141

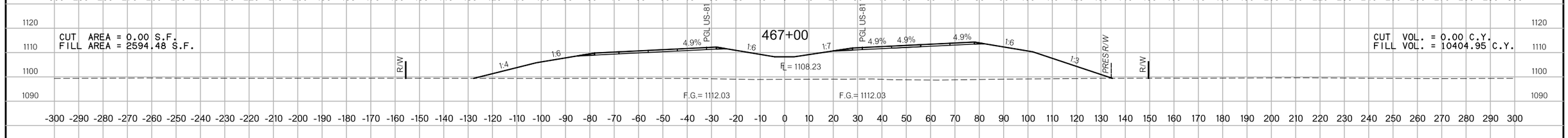
PROPOSED
R/W
AUGUST 2017

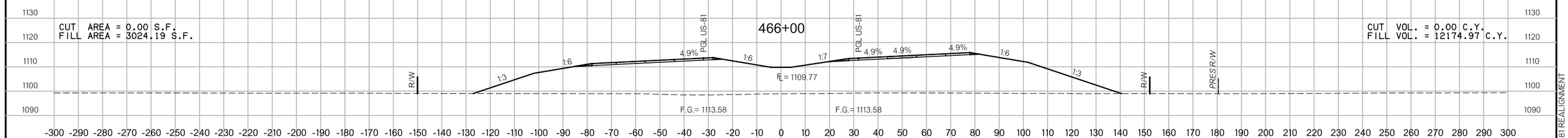


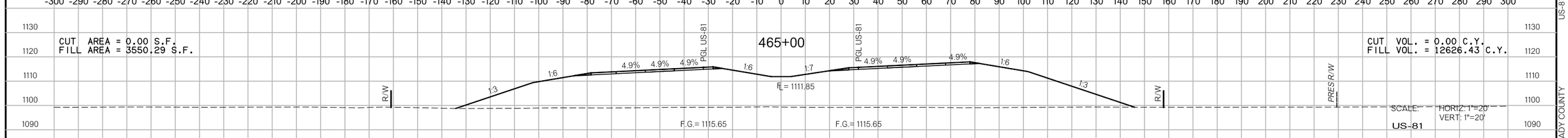












SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

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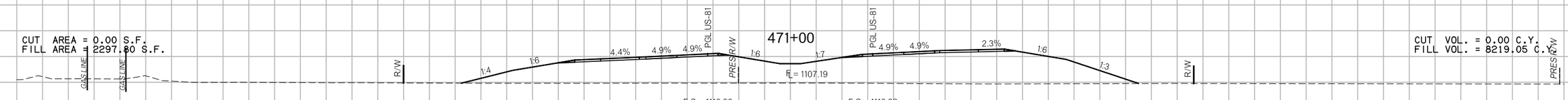
US-81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

471+00

CUT AREA = 0.00 S.F.
FILL AREA = 2297.80 S.F.

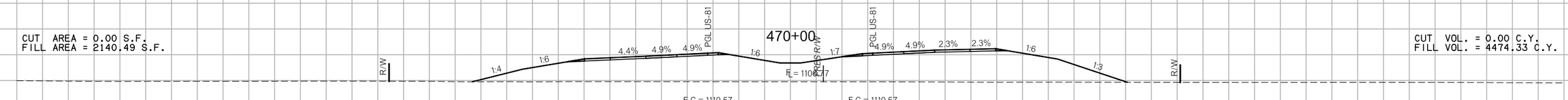
CUT VOL. = 0.00 C.Y.
FILL VOL. = 8219.05 C.Y.



470+00

CUT AREA = 0.00 S.F.
FILL AREA = 2140.49 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 4474.33 C.Y.

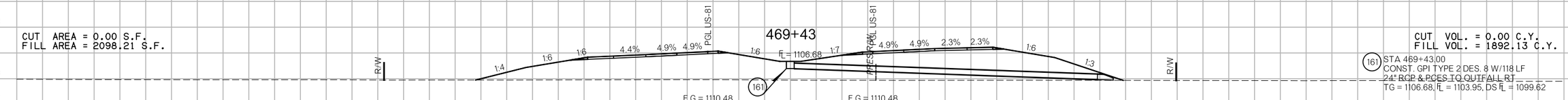


469+43

CUT AREA = 0.00 S.F.
FILL AREA = 2098.21 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 1892.13 C.Y.

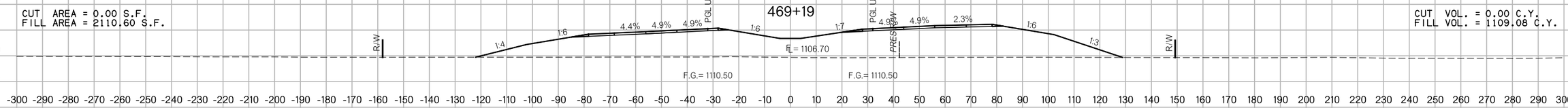
(161) STA 469+43.00
CONST. GPI TYPE 2 DES. 8 W/118 LF
24" RCP & PCES TO OUTFALL RT
TG = 1106.68, FL = 1103.95, DS FL = 1099.62



469+19

CUT AREA = 0.00 S.F.
FILL AREA = 2110.60 S.F.

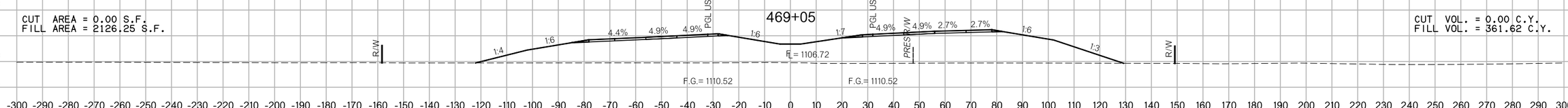
CUT VOL. = 0.00 C.Y.
FILL VOL. = 1109.08 C.Y.



469+05

CUT AREA = 0.00 S.F.
FILL AREA = 2126.25 S.F.

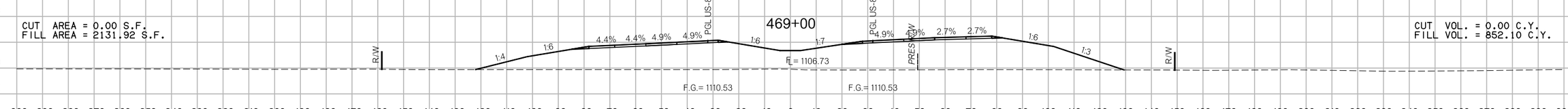
CUT VOL. = 0.00 C.Y.
FILL VOL. = 361.62 C.Y.



469+00

CUT AREA = 0.00 S.F.
FILL AREA = 2131.92 S.F.

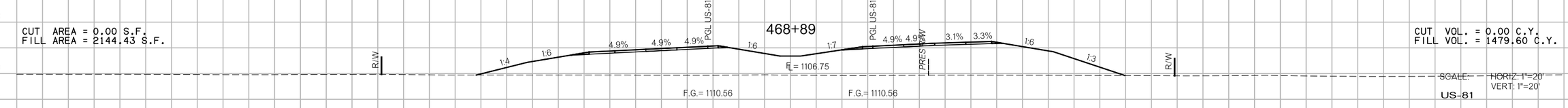
CUT VOL. = 0.00 C.Y.
FILL VOL. = 852.10 C.Y.



468+89

CUT AREA = 0.00 S.F.
FILL AREA = 2144.43 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 1479.60 C.Y.



SCALE: HORIZ. 1"=20'
VERT. 1"=20'

US-81

State Job No. 24428(04) Sheet No. X143

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US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

7:28:26 PM

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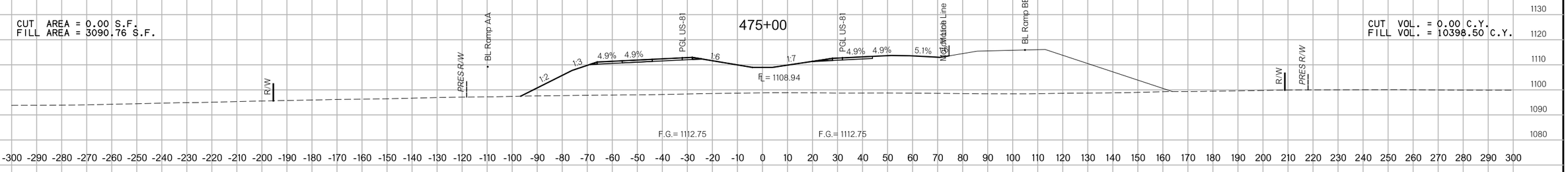
PROPOSED
R/W
AUGUST 2017

CUT AREA = 0.00 S.F.
FILL AREA = 3090.76 S.F.

475+00

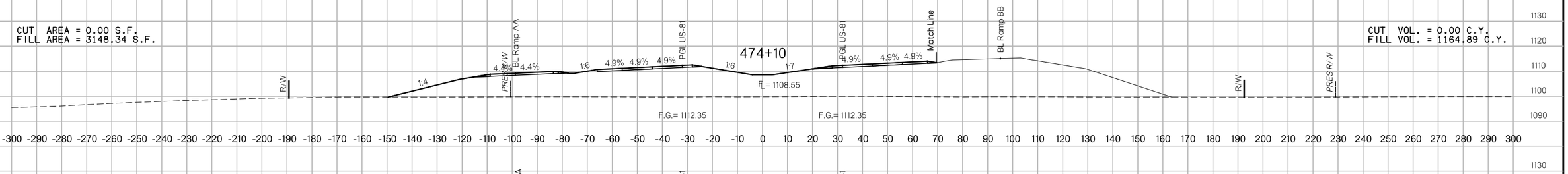
CUT VOL. = 0.00 C.Y.
FILL VOL. = 10398.50 C.Y.



CUT AREA = 0.00 S.F.
FILL AREA = 3148.34 S.F.

474+10

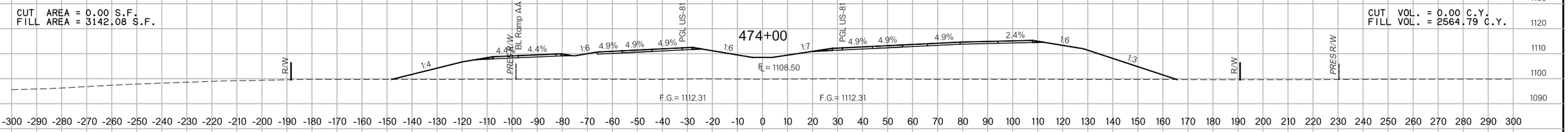
CUT VOL. = 0.00 C.Y.
FILL VOL. = 1164.89 C.Y.



CUT AREA = 0.00 S.F.
FILL AREA = 3142.08 S.F.

474+00

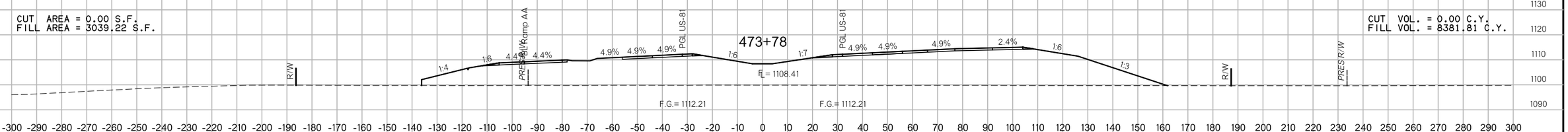
CUT VOL. = 0.00 C.Y.
FILL VOL. = 2564.79 C.Y.



CUT AREA = 0.00 S.F.
FILL AREA = 3039.22 S.F.

473+78

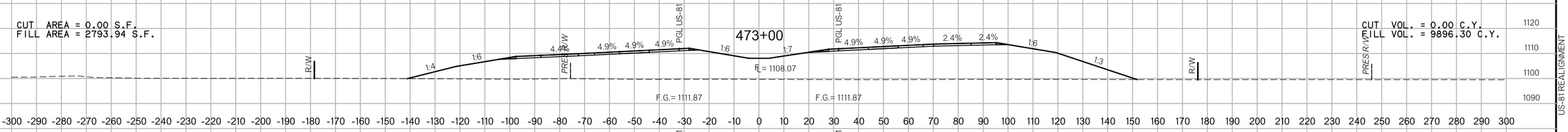
CUT VOL. = 0.00 C.Y.
FILL VOL. = 8381.81 C.Y.



CUT AREA = 0.00 S.F.
FILL AREA = 2793.94 S.F.

473+00

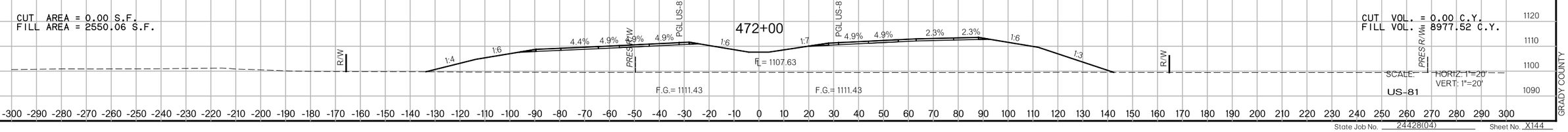
CUT VOL. = 0.00 C.Y.
FILL VOL. = 9896.30 C.Y.



CUT AREA = 0.00 S.F.
FILL AREA = 2550.06 S.F.

472+00

CUT VOL. = 0.00 C.Y.
FILL VOL. = 8977.52 C.Y.



SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X144

US-81 REALIGNMENT

GRADY COUNTY

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PROPOSED
R/W
AUGUST 2017

480+85

CUT AREA = 0.00 S.F.
FILL AREA = 149.50 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 7037.77 C.Y.

476+30

CUT AREA = 0.00 S.F.
FILL AREA = 686.05 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 2253.39 C.Y.

475+73

CUT AREA = 0.00 S.F.
FILL AREA = 1449.89 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 2121.60 C.Y.

475+43

CUT AREA = 0.00 S.F.
FILL AREA = 2404.88 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 443.60 C.Y.

475+38

CUT AREA = 0.00 S.F.
FILL AREA = 2724.26 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 3335.94 C.Y.

475+08

CUT AREA = 0.00 S.F.
FILL AREA = 3224.00 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 939.72 C.Y.

F.G.= 1113.07 F.G.= 1113.07
F.G.= 1112.93 F.G.= 1112.93
F.G.= 1112.91 F.G.= 1112.91
F.G.= 1112.78 F.G.= 1112.78
FL = 1108.98

SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X145

PROPOSED
R/W
AUGUST 2017

481+69

CUT AREA = 7.38 S.F.
FILL AREA = 4904.31 S.F.

CUT VOL. = 2.65 C.Y.
FILL VOL. = 3005.86 C.Y.

F.G.= 1116.05

481+50

CUT AREA = 0.00 S.F.
FILL AREA = 3459.48 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 514.11 C.Y.

F.G.= 1115.86

481+46

CUT AREA = 0.00 S.F.
FILL AREA = 2992.42 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 475.59 C.Y.

F.G.= 1115.82

481+41

CUT AREA = 0.00 S.F.
FILL AREA = 2686.72 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 2632.57 C.Y.

F.G.= 1115.78

481+00

CUT AREA = 0.00 S.F.
FILL AREA = 765.83 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 262.39 C.Y.

F.G.= 1115.45

SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X146

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8/27/2017

7:28:30 PM

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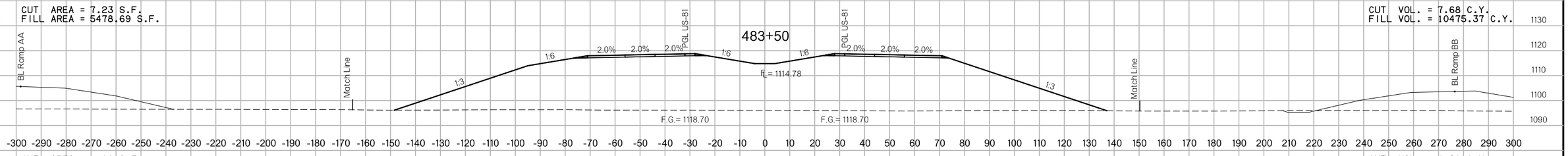
PROPOSED
R/W
AUGUST 2017

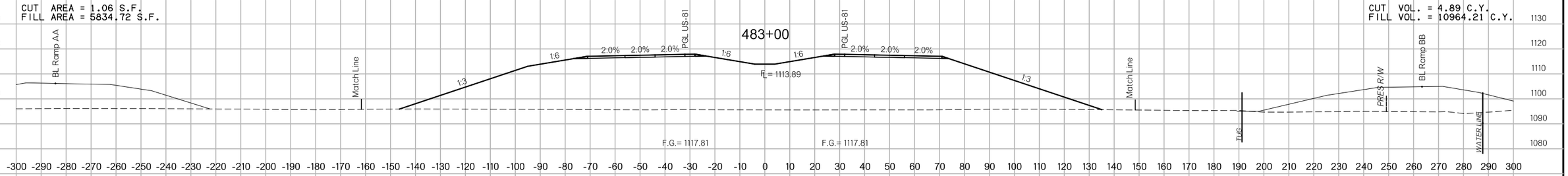
CUT AREA = 7.23 S.F.
FILL AREA = 5478.69 S.F.

CUT VOL. = 7.68 C.Y.
FILL VOL. = 10475.37 C.Y.



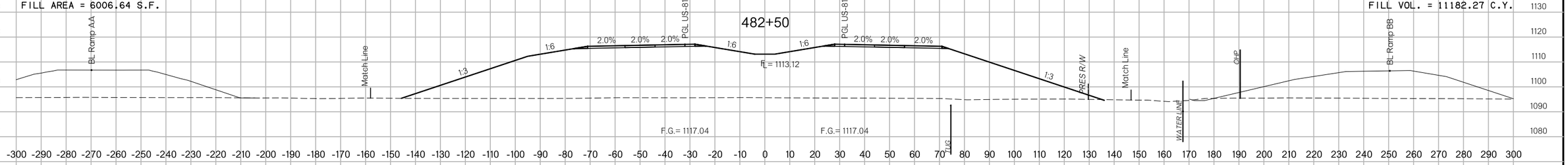
CUT AREA = 1.06 S.F.
FILL AREA = 5834.72 S.F.

CUT VOL. = 4.89 C.Y.
FILL VOL. = 10964.21 C.Y.



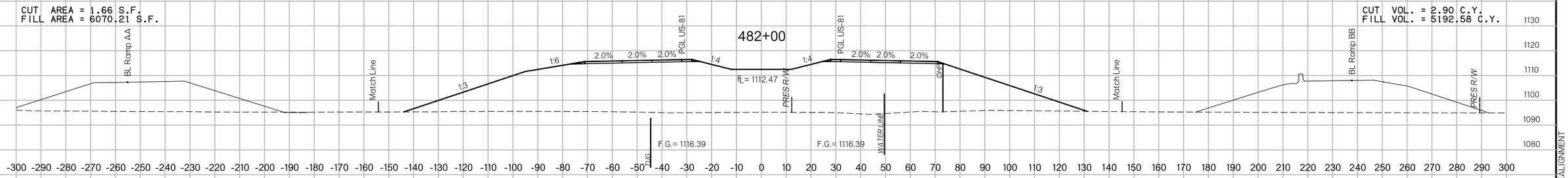
CUT AREA = 4.21 S.F.
FILL AREA = 6006.64 S.F.

CUT VOL. = 5.44 C.Y.
FILL VOL. = 11182.27 C.Y.



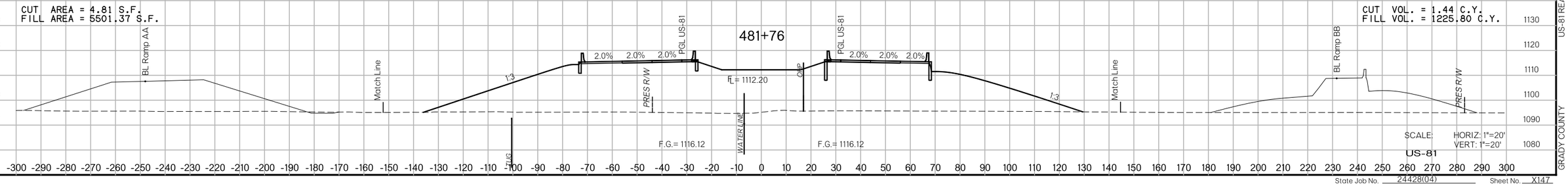
CUT AREA = 1.66 S.F.
FILL AREA = 6070.21 S.F.

CUT VOL. = 2.90 C.Y.
FILL VOL. = 5192.58 C.Y.



CUT AREA = 4.81 S.F.
FILL AREA = 5501.37 S.F.

CUT VOL. = 1.44 C.Y.
FILL VOL. = 1225.80 C.Y.



SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

GRADY COUNTY

US-81 REALIGNMENT

State Job No. 24428(04)

Sheet No. X147

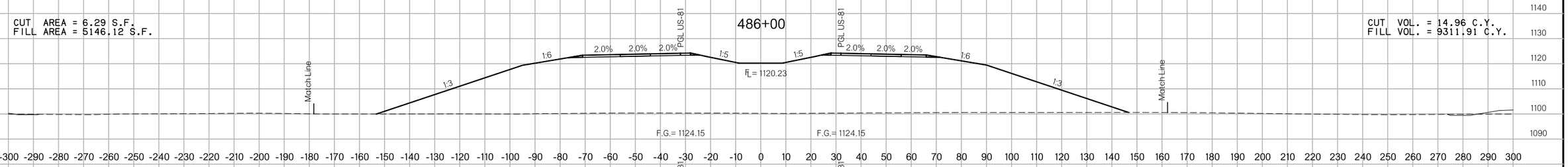
8/27/2017

PROPOSED
R/W
AUGUST 2017

CUT AREA = 6.29 S.F.
FILL AREA = 5146.12 S.F.

486+00

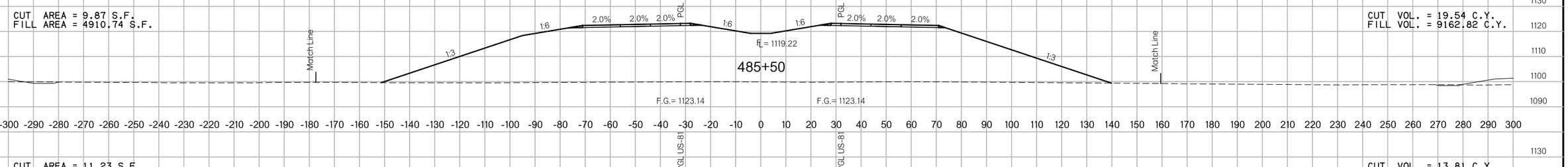
CUT VOL. = 14.96 C.Y.
FILL VOL. = 9311.91 C.Y.



CUT AREA = 9.87 S.F.
FILL AREA = 4910.74 S.F.

485+50

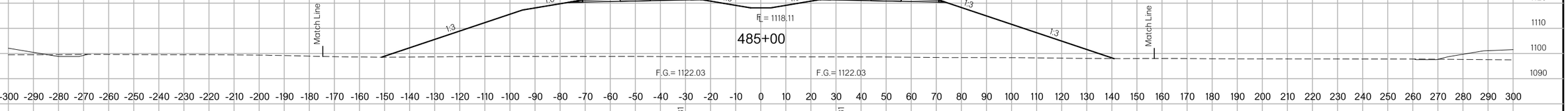
CUT VOL. = 19.54 C.Y.
FILL VOL. = 9162.82 C.Y.



CUT AREA = 11.23 S.F.
FILL AREA = 4985.10 S.F.

485+00

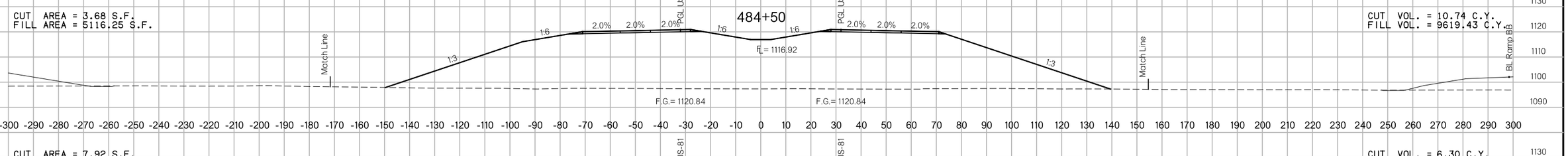
CUT VOL. = 13.81 C.Y.
FILL VOL. = 9353.11 C.Y.



CUT AREA = 3.68 S.F.
FILL AREA = 5116.25 S.F.

484+50

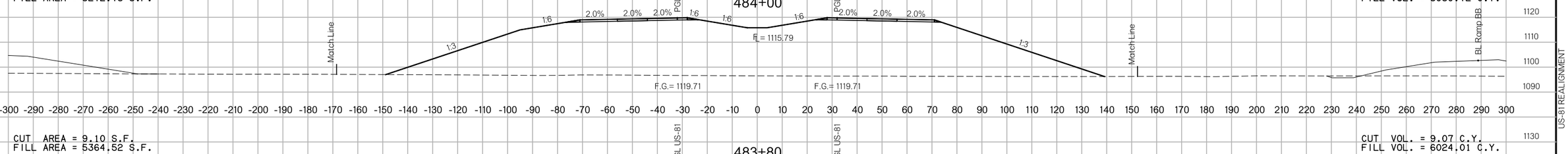
CUT VOL. = 10.74 C.Y.
FILL VOL. = 9619.43 C.Y.



CUT AREA = 7.92 S.F.
FILL AREA = 5272.73 S.F.

484+00

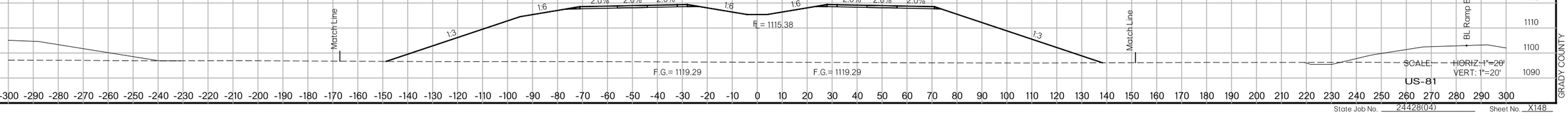
CUT VOL. = 6.30 C.Y.
FILL VOL. = 3939.72 C.Y.



CUT AREA = 9.10 S.F.
FILL AREA = 5364.52 S.F.

483+80

CUT VOL. = 9.07 C.Y.
FILL VOL. = 6024.01 C.Y.



SCALE: HORIZ.=1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04)

Sheet No. X148

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US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

PROPOSED
R/W
AUGUST 2017

487+20

CUT AREA = 0.38 S.F.
FILL AREA = 158.62 S.F.

CUT VOL. = 0.44 C.Y.
FILL VOL. = 510.46 C.Y.

487+00

CUT AREA = 0.82 S.F.
FILL AREA = 1231.88 S.F.

CUT VOL. = 1.78 C.Y.
FILL VOL. = 2476.59 C.Y.

486+71

CUT AREA = 2.50 S.F.
FILL AREA = 3374.81 S.F.

CUT VOL. = 1.35 C.Y.
FILL VOL. = 2425.45 C.Y.

486+55

CUT AREA = 2.00 S.F.
FILL AREA = 4697.31 S.F.

CUT VOL. = 0.33 C.Y.
FILL VOL. = 831.98 C.Y.

$\overline{FL}$ = 1099.96

486+50

CUT AREA = 1.78 S.F.
FILL AREA = 4773.55 S.F.

CUT VOL. = 1.02 C.Y.
FILL VOL. = 2232.80 C.Y.

$\overline{FL}$ = 1100.09

486+38

CUT AREA = 2.77 S.F.
FILL AREA = 5160.13 S.F.

CUT VOL. = 1.98 C.Y.
FILL VOL. = 3058.73 C.Y.

$\overline{FL}$ = 1120.94

F.G.= 1124.85

F.G.= 1124.85

$\overline{FL}$ = 1100.07

486+22

CUT AREA = 3.98 S.F.
FILL AREA = 5248.70 S.F.

CUT VOL. = 4.18 C.Y.
FILL VOL. = 4233.77 C.Y.

$\overline{FL}$ = 1120.65

F.G.= 1124.57

F.G.= 1124.57

SCALE: HORZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X149

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US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

PROPOSED
R/W
AUGUST 2017

490+11

CUT AREA = 6.46 S.F.
FILL AREA = 5923.80 S.F.

CUT VOL. = 2.70 C.Y.
FILL VOL. = 2203.39 C.Y.

F.G.= 1128.86

490+00

CUT AREA = 7.11 S.F.
FILL AREA = 5159.76 S.F.

CUT VOL. = 1.10 C.Y.
FILL VOL. = 791.27 C.Y.

F.G.= 1128.82

489+96

CUT AREA = 6.96 S.F.
FILL AREA = 4934.85 S.F.

CUT VOL. = 5.22 C.Y.
FILL VOL. = 2807.20 C.Y.

F.G.= 1129.10

489+77

CUT AREA = 8.39 S.F.
FILL AREA = 3310.54 S.F.

CUT VOL. = 61.77 C.Y.
FILL VOL. = 2995.81 C.Y.

489+30

CUT AREA = 61.62 S.F.
FILL AREA = 84.40 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 0.00 C.Y.

489+13

487+44

SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X150

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US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

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PROPOSED
R/W
AUGUST 2017

CUT AREA = 2.76 S.F.
FILL AREA = 7658.11 S.F.

492+00

CUT VOL. = 4.97 C.Y.
FILL VOL. = 13874.45 C.Y.

CUT AREA = 2.61 S.F.
FILL AREA = 7326.30 S.F.

491+50

CUT VOL. = 7.44 C.Y.
FILL VOL. = 13338.63 C.Y.

CUT AREA = 5.43 S.F.
FILL AREA = 7079.42 S.F.

491+00

CUT VOL. = 8.78 C.Y.
FILL VOL. = 12911.20 C.Y.

CUT AREA = 4.05 S.F.
FILL AREA = 6864.68 S.F.

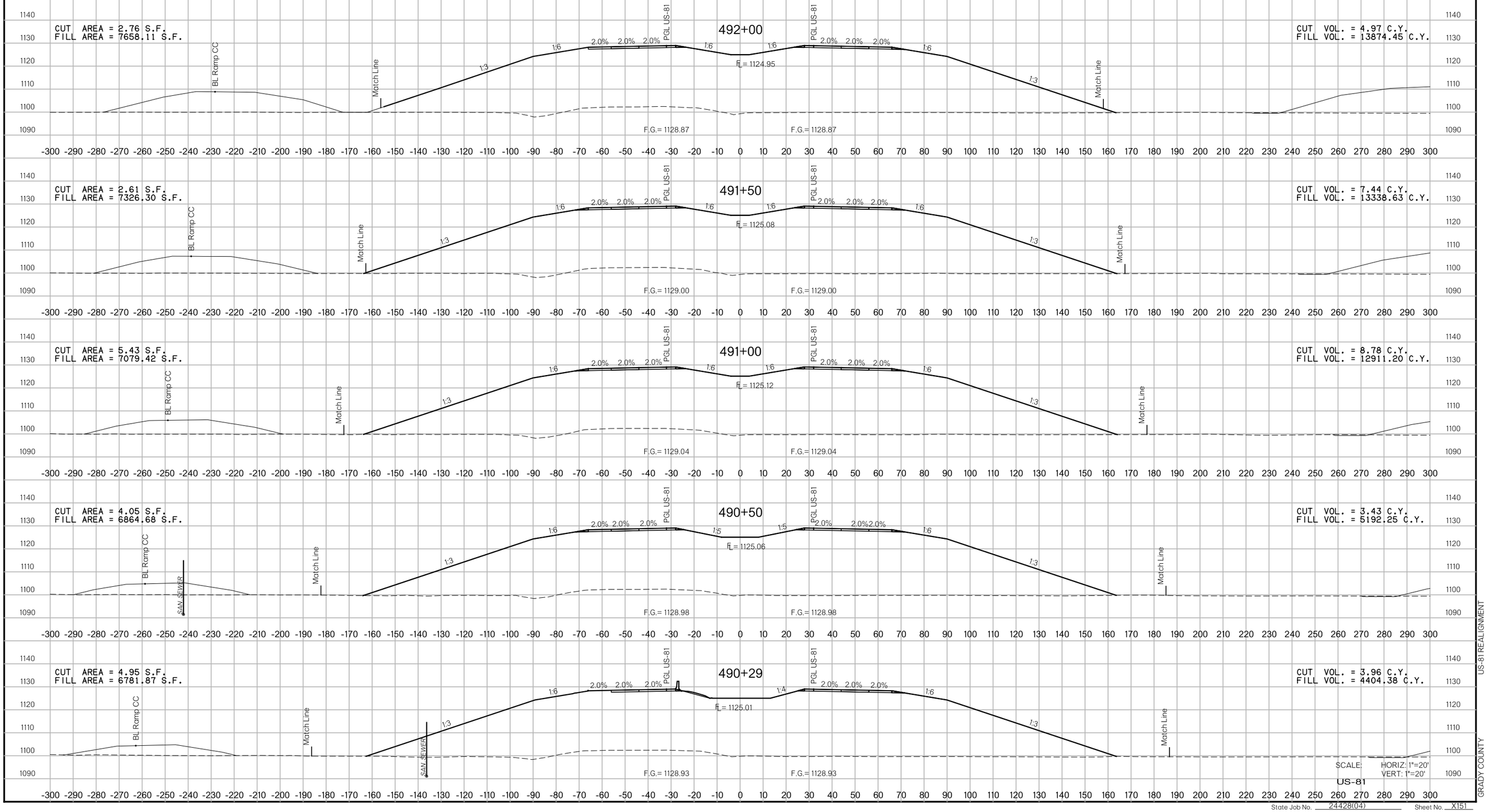
490+50

CUT VOL. = 3.43 C.Y.
FILL VOL. = 5192.25 C.Y.

CUT AREA = 4.95 S.F.
FILL AREA = 6781.87 S.F.

490+29

CUT VOL. = 3.96 C.Y.
FILL VOL. = 4404.38 C.Y.



SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

US-81 REALIGNMENT

GRADY COUNTY

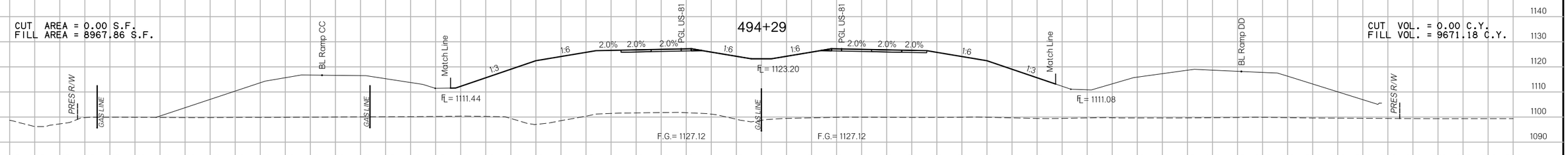
State Job No. 24428(04) Sheet No. X151

PROPOSED
R/W
AUGUST 2017

494+29

CUT AREA = 0.00 S.F.
FILL AREA = 8967.86 S.F.

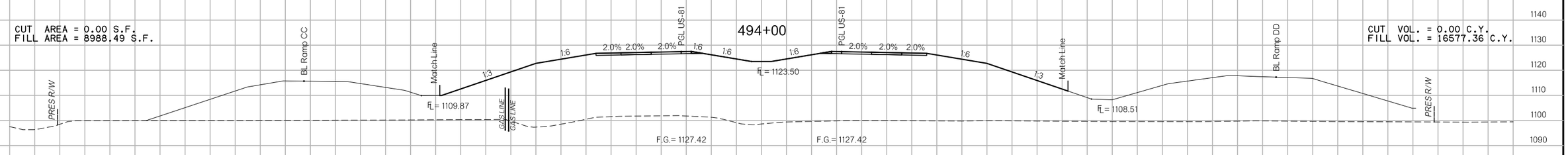
CUT VOL. = 0.00 C.Y.
FILL VOL. = 9671.18 C.Y.



494+00

CUT AREA = 0.00 S.F.
FILL AREA = 8988.49 S.F.

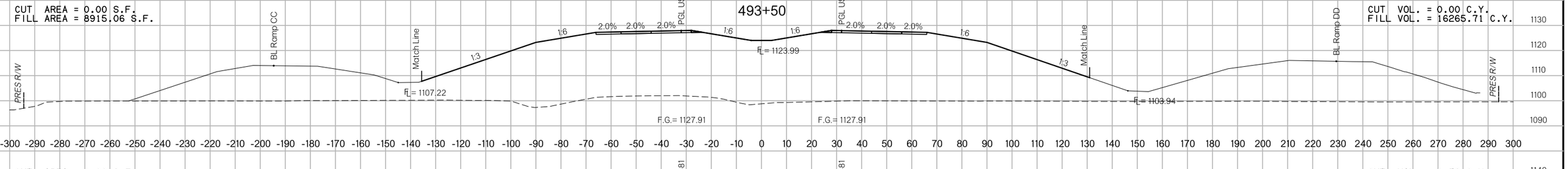
CUT VOL. = 0.00 C.Y.
FILL VOL. = 16577.36 C.Y.



493+50

CUT AREA = 0.00 S.F.
FILL AREA = 8915.06 S.F.

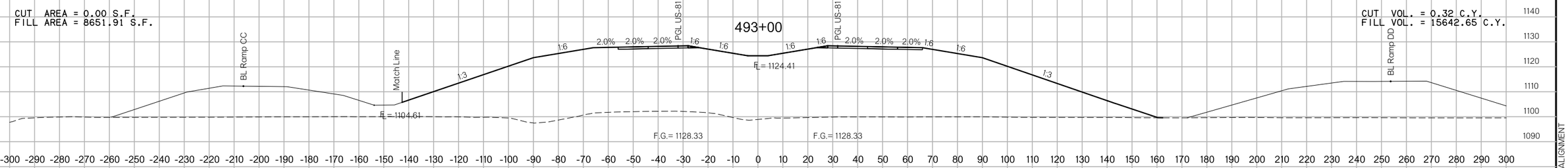
CUT VOL. = 0.00 C.Y.
FILL VOL. = 16265.71 C.Y.



493+00

CUT AREA = 0.00 S.F.
FILL AREA = 8651.91 S.F.

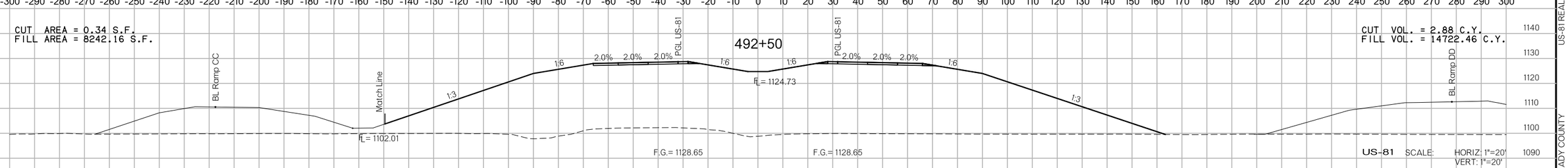
CUT VOL. = 0.32 C.Y.
FILL VOL. = 15642.65 C.Y.



492+50

CUT AREA = 0.34 S.F.
FILL AREA = 8242.16 S.F.

CUT VOL. = 2.88 C.Y.
FILL VOL. = 14722.46 C.Y.



US-81 SCALE: HORIZ. 1"=20'
VERT. 1"=20'

State Job No. 24428(04) Sheet No. X152

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US-81 REALIGNMENT
GRADY COUNTY

8/27/2017

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PROPOSED
R/W
AUGUST 2017

496+50

CUT AREA = 0.00 S.F.
FILL AREA = 7403.83 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 14338.80 C.Y.

BL Ramp CC | Match Line | PGL US-81 | PGL US-81 | Match Line | BL Ramp DD
1:6 | 2.0% 2.0% 2.0% | 1:6 | 1:6 | 2.0% 2.0% 2.0% | 1:6
FL = 1121.40 | FL = 1120.95 | FL = 1122.28
TLG | PRES R/W | PRES R/W
F.G.= 1124.87 | F.G.= 1124.87

496+00

CUT AREA = 0.00 S.F.
FILL AREA = 8082.08 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 15331.91 C.Y.

BL Ramp CC | Match Line | PGL US-81 | PGL US-81 | Match Line | BL Ramp DD
1:6 | 2.0% 2.0% 2.0% | 1:6 | 1:6 | 2.0% 2.0% 2.0% | 1:6 | 1:6
FL = 1120.06 | FL = 1121.46 | FL = 1121.24
TLG | PRES R/W | PRES R/W
F.G.= 1125.38 | F.G.= 1125.38

495+50

CUT AREA = 0.00 S.F.
FILL AREA = 8476.38 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 15909.20 C.Y.

BL Ramp CC | Match Line | PGL US-81 | PGL US-81 | Match Line | BL Ramp DD
1:3 | 1:6 | 2.0% 2.0% 2.0% | 1:6 | 1:6 | 2.0% 2.0% 2.0% | 1:6 | 1:6
FL = 1117.96 | FL = 1121.97 | FL = 1119.69
TLG | PRES R/W | PRES R/W
F.G.= 1125.89 | F.G.= 1125.89

495+00

CUT AREA = 0.00 S.F.
FILL AREA = 8705.56 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 16324.17 C.Y.

BL Ramp CC | Match Line | PGL US-81 | PGL US-81 | Match Line | BL Ramp DD
1:3 | 1:6 | 2.0% 2.0% 2.0% | 1:6 | 1:6 | 2.0% 2.0% 2.0% | 1:6 | 1:3
FL = 1115.45 | FL = 1122.48 | FL = 1116.53
TLG | GAS LINE | PRES R/W | GAS LINE | PRES R/W
F.G.= 1126.40 | F.G.= 1126.40

494+50

CUT AREA = 0.00 S.F.
FILL AREA = 8924.55 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 6930.31 C.Y.

BL Ramp CC | Match Line | PGL US-81 | PGL US-81 | Match Line | BL Ramp DD
1:6 | 2.0% 2.0% 2.0% | 1:6 | 1:6 | 2.0% 2.0% 2.0% | 1:6 | 1:3
FL = 1112.58 | FL = 1122.99 | FL = 1112.82
PRES R/W | GAS LINE | GAS LINE | GAS LINE | PRES R/W
F.G.= 1126.91 | F.G.= 1126.91

SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X153

8/27/2017

7:28:38 PM

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PROPOSED
R/W
AUGUST 2017

CUT AREA = 0.00 S.F.
FILL AREA = 5845.53 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 11110.51 C.Y.

FL = 1118.97

498+50

F.G.= 1122.89 F.G.= 1122.89

CUT AREA = 0.00 S.F.
FILL AREA = 6153.81 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 9523.24 C.Y.

FL = 1119.41

498+00

F.G.= 1123.33 F.G.= 1123.33

CUT AREA = 0.00 S.F.
FILL AREA = 6466.27 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 2214.52 C.Y.

FL = 1119.83

497+59

F.G.= 1123.75 F.G.= 1123.75

CUT AREA = 0.00 S.F.
FILL AREA = 6460.22 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 6498.83 C.Y.

FL = 1119.93

497+50

F.G.= 1123.84 F.G.= 1123.84

CUT AREA = 0.00 S.F.
FILL AREA = 6804.13 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 6011.15 C.Y.

FL = 1120.20

497+24

F.G.= 1124.11 F.G.= 1124.11

CUT AREA = 0.00 S.F.
FILL AREA = 6983.60 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 13321.70 C.Y.

FL = 1122.29

FL = 1120.44

497+00

F.G.= 1124.35 F.G.= 1124.35

SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X154

PROPOSED
R/W
AUGUST 2017

CUT AREA = 0.00 S.F.
FILL AREA = 5637.99 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 4585.46 C.Y.

PGL US-81 | 1:6 | 5.2% | 5.2% | 2.0% | 2.0% | 1:6 | 1:6 | 2.0% | 2.0% | 2.0% | 2.0% | 1:6 | 1:3

FL = 1118.44

499+99

TIE | PRES R/W | F.G.= 1122.36 | F.G.= 1122.36 | GAS LINE | PRES R/W

CUT AREA = 0.00 S.F.
FILL AREA = 5595.94 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 5549.29 C.Y.

PGL US-81 | 1:6 | 5.2% | 5.2% | 2.0% | 2.0% | 1:6 | 1:6 | 2.0% | 2.0% | 3.9% | 5.4% | 1:6 | 1:3

FL = 1118.44

499+77

TIE | PRES R/W | F.G.= 1122.36 | F.G.= 1122.36 | GAS LINE | PRES R/W

CUT AREA = 0.00 S.F.
FILL AREA = 5540.73 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 2752.60 C.Y.

PGL US-81 | 1:6 | 5.2% | 5.2% | 2.0% | 2.0% | 1:6 | 1:6 | 2.0% | 2.0% | 4.8% | 5.0% | 4.3% | 1:3

FL = 1118.48

499+50

TIE | PRES R/W | F.G.= 1122.40 | F.G.= 1122.40 | GAS LINE | PRES R/W

CUT AREA = 0.00 S.F.
FILL AREA = 5543.56 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 7567.93 C.Y.

PGL US-81 | 1:6 | 5.2% | 5.2% | 2.0% | 2.0% | 1:6 | 1:6 | 1:6 | 2.0% | 2.0% | 5.2% | 5.2% | 1:3

FL = 1118.52

499+37

TIE | PRES R/W | F.G.= 1122.44 | F.G.= 1122.44 | GAS LINE | PRES R/W

CUT AREA = 0.00 S.F.
FILL AREA = 5625.30 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 10621.14 C.Y.

PGL US-81 | 1:6 | 5.1% | 5.1% | 2.0% | 2.0% | 1:6 | 1:6 | 1:6 | 2.0% | 2.0% | 5.2% | 5.2% | 1:3

FL = 1118.66

499+00

TIE | PRES R/W | F.G.= 1122.58 | F.G.= 1122.58 | GAS LINE | PRES R/W

1130 1120 1110 1100 1090 1080

-300 -290 -280 -270 -260 -250 -240 -230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300

SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X155

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US-81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

CUT AREA = 0.00 S.F.
FILL AREA = 5954.98 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 1002.47 C.Y.

PGL US-81 | 1:6 | 2.0% 2.0% | PGL US-81 | 1:6 | 1:6 | 2.0% 2.0% 2.0% 2.0% | 1:3 | 1:3 | PRES R/W | PRES R/W | TLG | GAS LINE

FL = 1118.74

501+00

F.G.= 1122.67 F.G.= 1122.67

CUT AREA = 0.00 S.F.
FILL AREA = 5942.47 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 9882.81 C.Y.

PGL US-81 | 1:6 | 2.0% | PGL US-81 | 1:6 | 1:6 | 2.0% 2.0% 2.0% | 1:3 | 1:3 | PRES R/W | PRES R/W | TLG | GAS LINE

FL = 1118.72

500+95

F.G.= 1122.64 F.G.= 1122.64

CUT AREA = 0.00 S.F.
FILL AREA = 5799.48 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 3443.23 C.Y.

PGL US-81 | 1:6 | 3.2% 3.2% 2.0% 2.0% | PGL US-81 | 1:6 | 1:6 | 2.0% 2.0% 2.0% | 1:3 | 1:3 | PRES R/W | PRES R/W | TLG | GAS LINE

FL = 1118.53

500+50

F.G.= 1122.44 F.G.= 1122.44

CUT AREA = 0.00 S.F.
FILL AREA = 5759.86 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 7147.32 C.Y.

PGL US-81 | 1:6 | 3.9% 3.9% 2.0% 2.0% | PGL US-81 | 1:6 | 1:6 | 2.0% 2.0% 2.0% 2.0% | 1:3 | 1:3 | PRES R/W | PRES R/W | TLG | GAS LINE

FL = 1118.48

500+34

F.G.= 1122.40 F.G.= 1122.40

CUT AREA = 0.00 S.F.
FILL AREA = 5620.28 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 219.04 C.Y.

PGL US-81 | 1:6 | 5.2% 5.2% 2.0% 2.0% | PGL US-81 | 1:6 | 1:6 | 2.0% 2.0% 2.0% 2.0% | 1:3 | 1:3 | PRES R/W | PRES R/W | TLG | TLG | GAS LINE

FL = 1118.44

500+00

(164) STA. 500+00.00
CONST. GPI TYPE 2 DES. 8 W/144 LF
18" RCP & PCES TO OUTFALL RT
TG = 1118.44, FL = 1110.71, DS FL = 1097.82

F.G.= 1122.36 F.G.= 1122.36

SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X156

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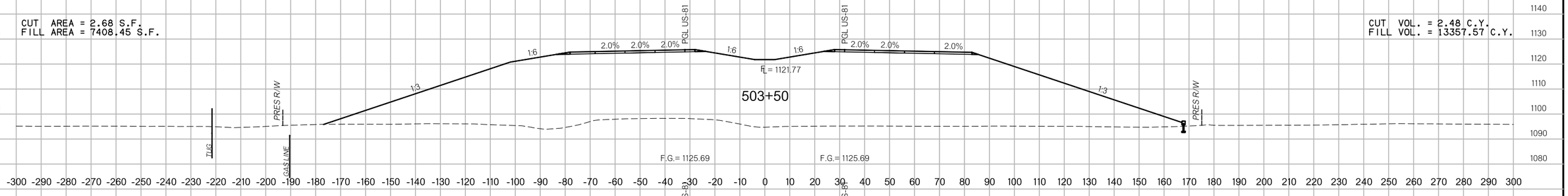
US-81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

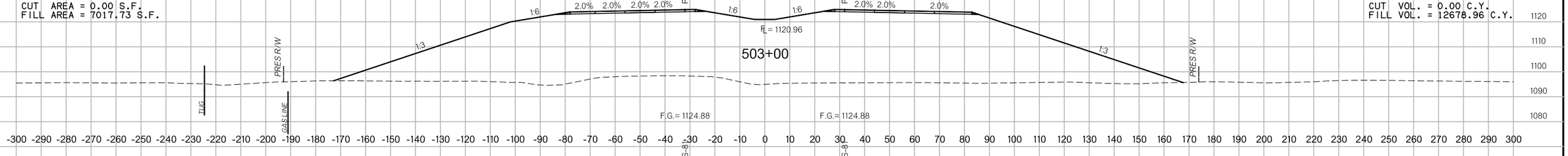
CUT AREA = 2.68 S.F.
FILL AREA = 7408.45 S.F.

CUT VOL. = 2.48 C.Y.
FILL VOL. = 13357.57 C.Y.



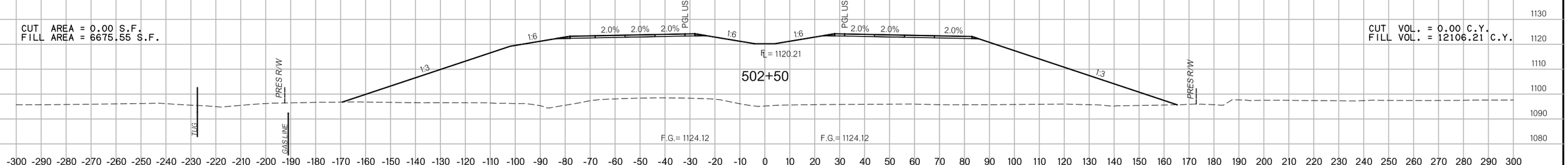
CUT AREA = 0.00 S.F.
FILL AREA = 7017.73 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 12678.96 C.Y.



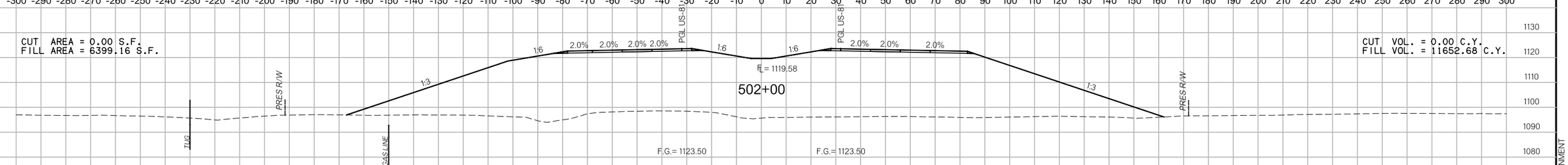
CUT AREA = 0.00 S.F.
FILL AREA = 6675.55 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 12106.21 C.Y.



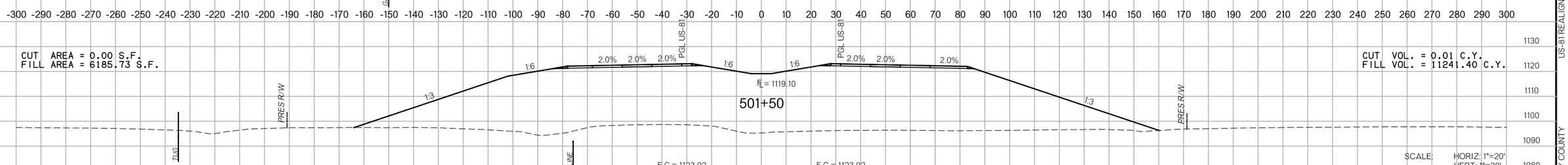
CUT AREA = 0.00 S.F.
FILL AREA = 6399.16 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 11652.68 C.Y.



CUT AREA = 0.00 S.F.
FILL AREA = 6185.73 S.F.

CUT VOL. = 0.01 C.Y.
FILL VOL. = 11241.40 C.Y.



SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X157

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US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

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PROPOSED
R/W
AUGUST 2017

CUT AREA = 2.68 S.F.
FILL AREA = 8855.54 S.F.

CUT VOL. = 4.98 C.Y.
FILL VOL. = 16098.78 C.Y.

505+50

F.G.= 1128.85 F.G.= 1128.85

FL = 1124.93

CUT AREA = 2.70 S.F.
FILL AREA = 8531.14 S.F.

CUT VOL. = 4.98 C.Y.
FILL VOL. = 15408.63 C.Y.

505+00

F.G.= 1128.14 F.G.= 1128.14

FL = 1124.22

CUT AREA = 2.68 S.F.
FILL AREA = 8110.18 S.F.

CUT VOL. = 4.98 C.Y.
FILL VOL. = 14707.26 C.Y.

504+50

F.G.= 1127.33 F.G.= 1127.33

FL = 1123.41

CUT AREA = 2.70 S.F.
FILL AREA = 7773.67 S.F.

CUT VOL. = 4.98 C.Y.
FILL VOL. = 14057.52 C.Y.

504+00

F.G.= 1126.51 F.G.= 1126.51

FL = 1122.59

PGL US-81 · PRES R/W · TUG · GAS LINE · 1:3 · 1:6 · 2.0%

$CALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

US-81 REALIGNMENT

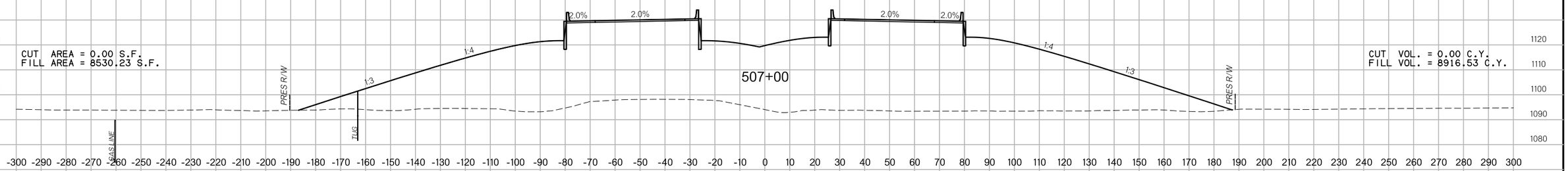
GRADY COUNTY

State Job No. 24428(04) Sheet No. X158

PROPOSED
R/W
AUGUST 2017

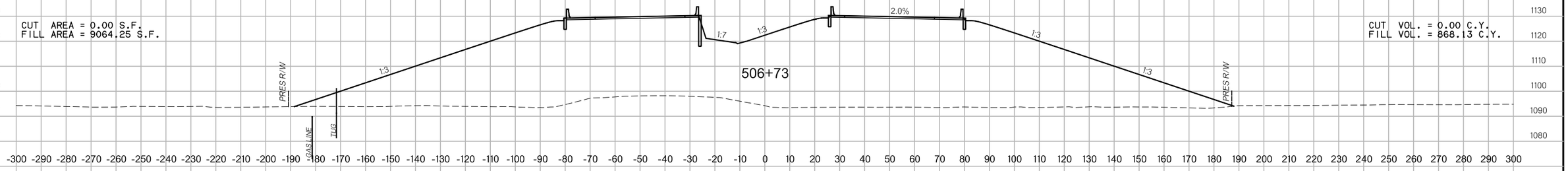
CUT AREA = 0.00 S.F.
FILL AREA = 8530.23 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 8916.53 C.Y.



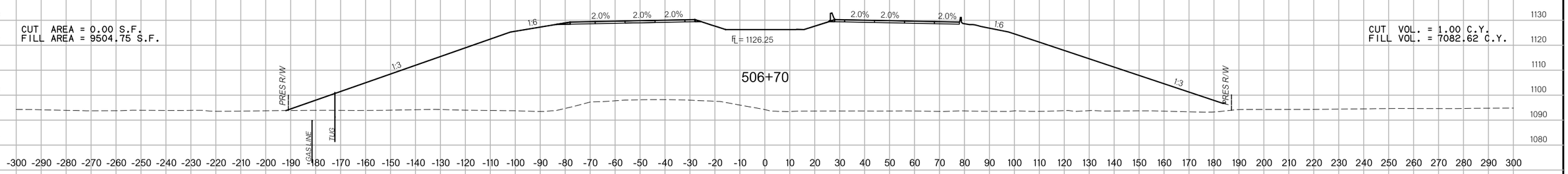
CUT AREA = 0.00 S.F.
FILL AREA = 9064.25 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 868.13 C.Y.



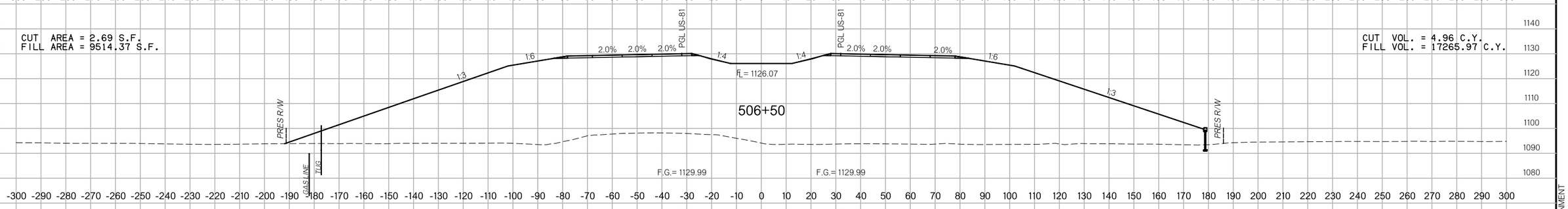
CUT AREA = 0.00 S.F.
FILL AREA = 9504.75 S.F.

CUT VOL. = 1.00 C.Y.
FILL VOL. = 7082.62 C.Y.



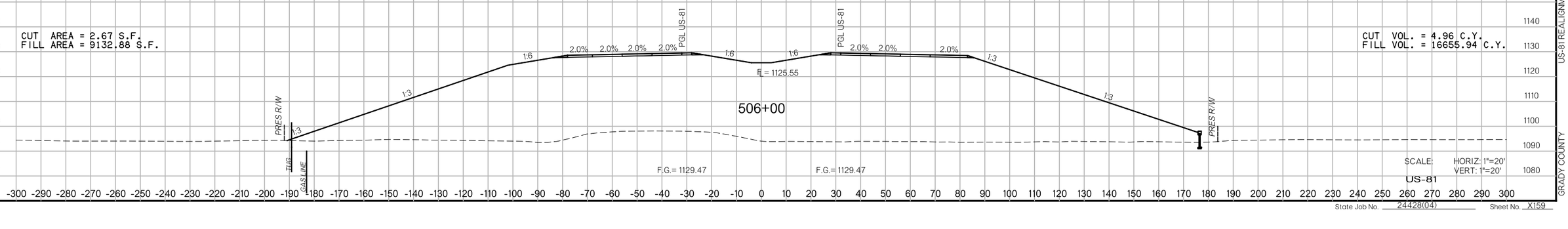
CUT AREA = 2.69 S.F.
FILL AREA = 9514.37 S.F.

CUT VOL. = 4.96 C.Y.
FILL VOL. = 17265.97 C.Y.



CUT AREA = 2.67 S.F.
FILL AREA = 9132.88 S.F.

CUT VOL. = 4.96 C.Y.
FILL VOL. = 16655.94 C.Y.



SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X159

8/27/2017

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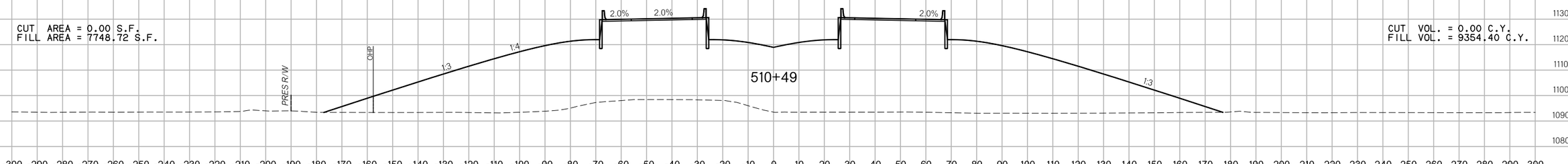
PROPOSED
R/W
AUGUST 2017

CUT AREA = 0.00 S.F.
FILL AREA = 7748.72 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 9354.40 C.Y.

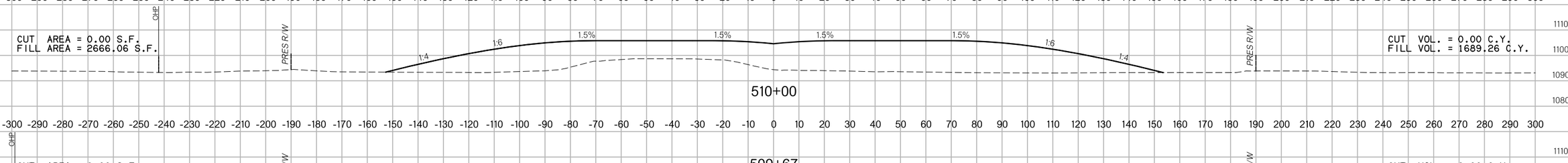
510+49



CUT AREA = 0.00 S.F.
FILL AREA = 2666.06 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 1689.26 C.Y.

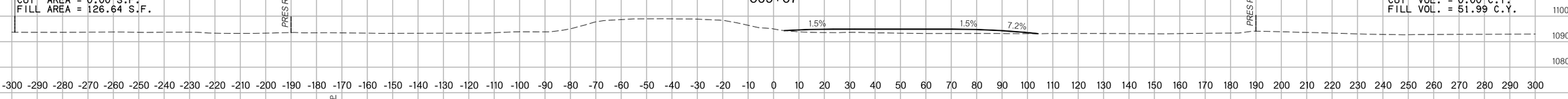
510+00



CUT AREA = 0.00 S.F.
FILL AREA = 126.64 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 51.99 C.Y.

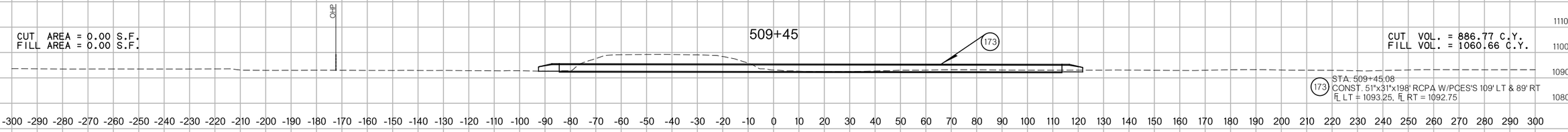
509+67



CUT AREA = 0.00 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 886.77 C.Y.
FILL VOL. = 1060.66 C.Y.

509+45

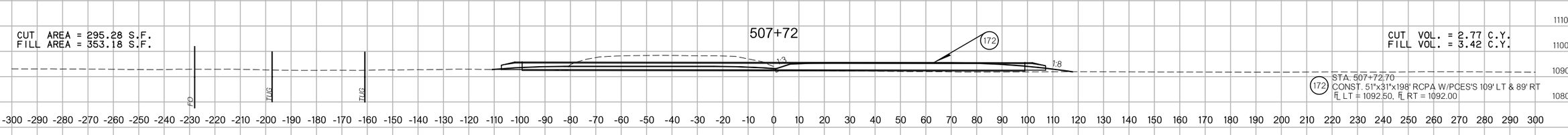


(173) STA. 509+45.08
CONST. 51"x31"x198' RCPA W/PCES'S 109' LT & 89' RT
FL LT = 1093.25, FL RT = 1092.75

CUT AREA = 295.28 S.F.
FILL AREA = 353.18 S.F.

CUT VOL. = 2.77 C.Y.
FILL VOL. = 3.42 C.Y.

507+72

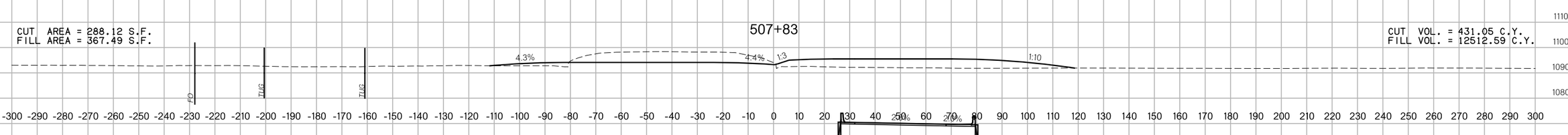


(172) STA. 507+72.70
CONST. 51"x31"x198' RCPA W/PCES'S 109' LT & 89' RT
FL LT = 1092.50, FL RT = 1092.00

CUT AREA = 288.12 S.F.
FILL AREA = 367.49 S.F.

CUT VOL. = 431.05 C.Y.
FILL VOL. = 12512.59 C.Y.

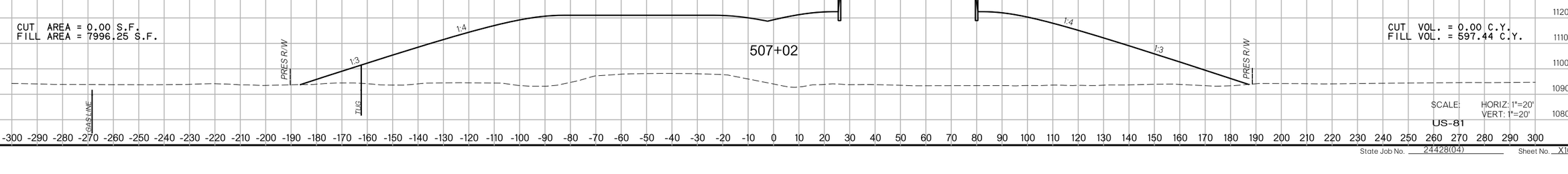
507+83



CUT AREA = 0.00 S.F.
FILL AREA = 7996.25 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 597.44 C.Y.

507+02



SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X160

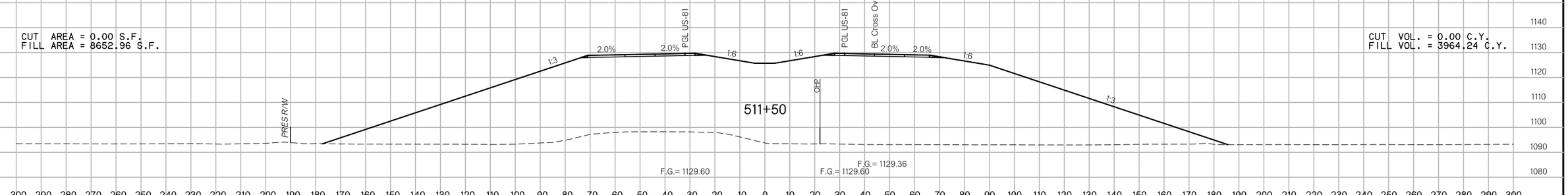
US-81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

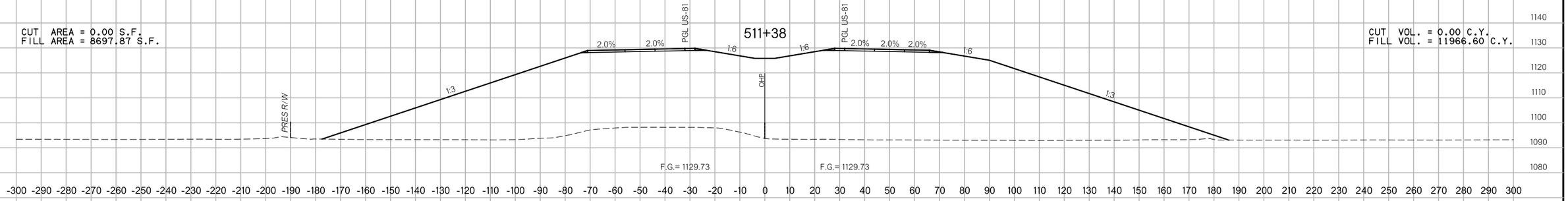
CUT AREA = 0.00 S.F.
FILL AREA = 8652.96 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 3964.24 C.Y.



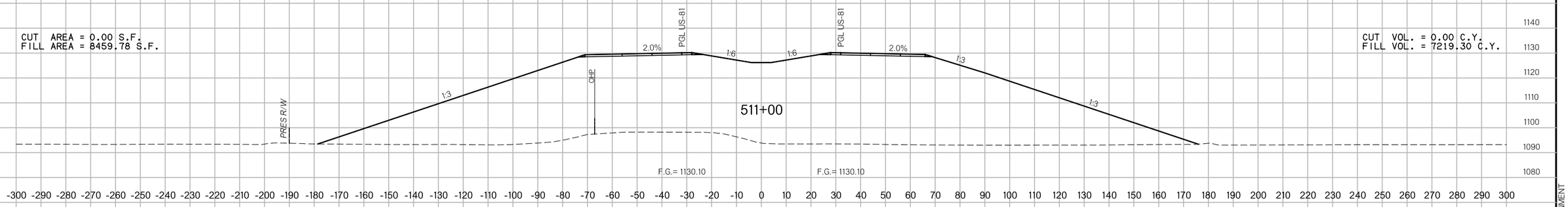
CUT AREA = 0.00 S.F.
FILL AREA = 8697.87 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 11966.60 C.Y.



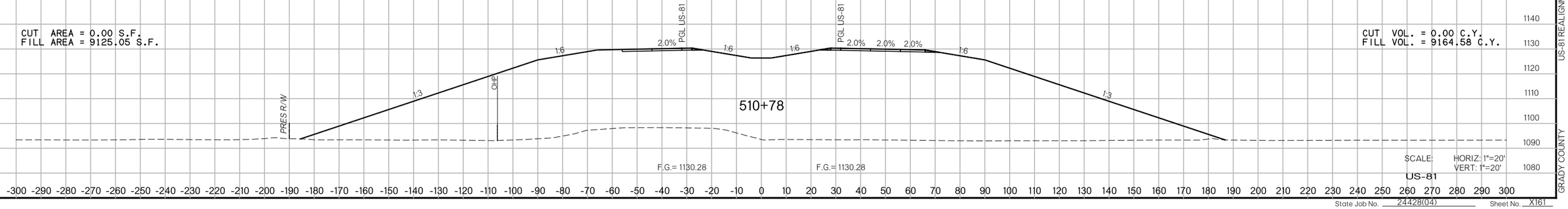
CUT AREA = 0.00 S.F.
FILL AREA = 8459.78 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 7219.30 C.Y.



CUT AREA = 0.00 S.F.
FILL AREA = 9125.05 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 9164.58 C.Y.



SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X161

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US-81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

CUT AREA = 0.00 S.F.
FILL AREA = 6910.07 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 13254.08 C.Y.

514+50

F.G.= 1124.55 F.G.= 1124.55 F.G.= 1124.31

CUT AREA = 0.00 S.F.
FILL AREA = 7404.34 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 28214.23 C.Y.

514+00

F.G.= 1125.63 F.G.= 1125.63 F.G.= 1125.39

CUT AREA = 0.00 S.F.
FILL AREA = 7831.35 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 10013.16 C.Y.

513+00

F.G.= 1127.52 F.G.= 1127.52 F.G.= 1127.28

CUT AREA = 0.00 S.F.
FILL AREA = 8073.51 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 20191.76 C.Y.

512+66

F.G.= 1128.07 F.G.= 1128.07 F.G.= 1127.83

CUT AREA = 0.00 S.F.
FILL AREA = 8446.16 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 15832.52 C.Y.

512+00

F.G.= 1129.01 F.G.= 1129.01 F.G.= 1128.77

SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X162

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F:\2016\100-1500\016-1182\40-Design\Microstation\US-81\DGN\C\X5EC162.dgn

US-81 REALIGNMENT GRADY COUNTY

8/27/2017

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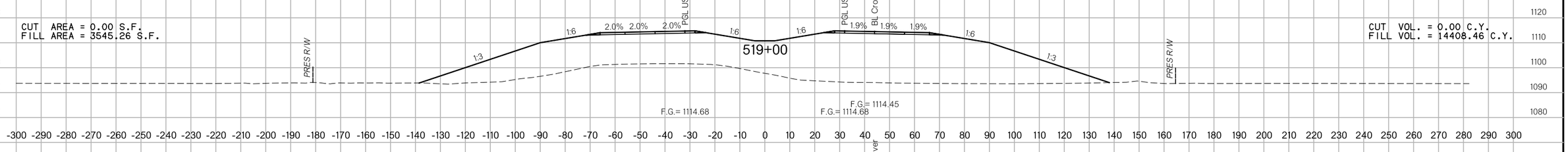
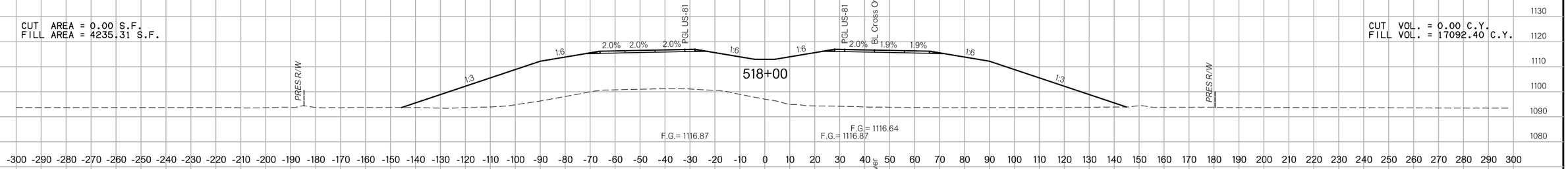
PROPOSED
R/W
AUGUST 2017

CUT AREA = 0.00 S.F.
FILL AREA = 3545.26 S.F.



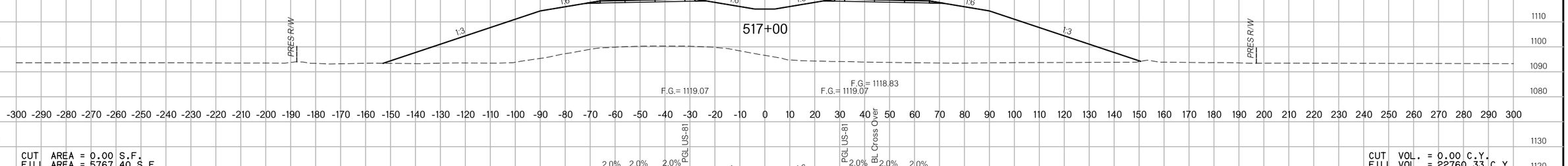
CUT VOL. = 0.00 C.Y.
FILL VOL. = 14408.46 C.Y.

CUT AREA = 0.00 S.F.
FILL AREA = 4235.31 S.F.



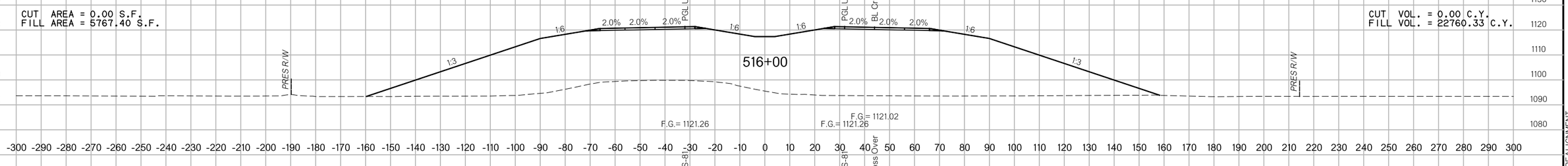
CUT VOL. = 0.00 C.Y.
FILL VOL. = 17092.40 C.Y.

CUT AREA = 0.00 S.F.
FILL AREA = 4994.58 S.F.



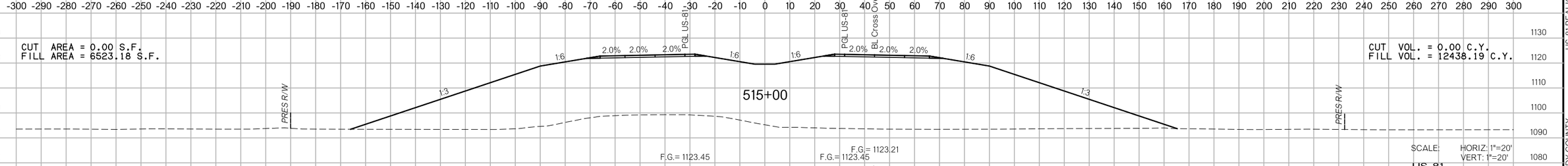
CUT VOL. = 0.00 C.Y.
FILL VOL. = 19929.59 C.Y.

CUT AREA = 0.00 S.F.
FILL AREA = 5767.40 S.F.



CUT VOL. = 0.00 C.Y.
FILL VOL. = 22760.33 C.Y.

CUT AREA = 0.00 S.F.
FILL AREA = 6523.18 S.F.



CUT VOL. = 0.00 C.Y.
FILL VOL. = 12438.19 C.Y.

SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X163

US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

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PROPOSED
R/W
AUGUST 2017

524+00

CUT AREA = 0.00 S.F.
FILL AREA = 599.65 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 2918.38 C.Y.

F.G.= 1104.76 | F.G.= 1104.52 | F.G.= 1104.76

523+00

CUT AREA = 0.00 S.F.
FILL AREA = 976.27 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 4433.57 C.Y.

F.G.= 1106.20 | F.G.= 1105.97 | F.G.= 1106.20

522+00

CUT AREA = 0.00 S.F.
FILL AREA = 1417.86 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 6356.76 C.Y.

F.G.= 1108.10 | F.G.= 1107.87 | F.G.= 1108.10

521+00

CUT AREA = 0.00 S.F.
FILL AREA = 2014.79 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 8698.04 C.Y.

F.G.= 1110.29 | F.G.= 1110.06 | F.G.= 1110.29

520+00

CUT AREA = 0.00 S.F.
FILL AREA = 2682.15 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 4544.70 C.Y.

F.G.= 1112.49 | F.G.= 1112.25 | F.G.= 1112.49

519+57

CUT AREA = 0.00 S.F.
FILL AREA = 2977.00 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 6840.41 C.Y.

F.G.= 1113.44 | F.G.= 1113.20 | F.G.= 1113.44

PRES R/W | PGL US-81 | BL Cross Over | PGL US-81 | PRES R/W

1:4 | 1:6 | 2.0% | 2.0% | 2.0% | 1:6 | 1:6 | 2.0% | 1.9% | 1:6 | 1:3

$SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X164

US-81 REALIGNMENT

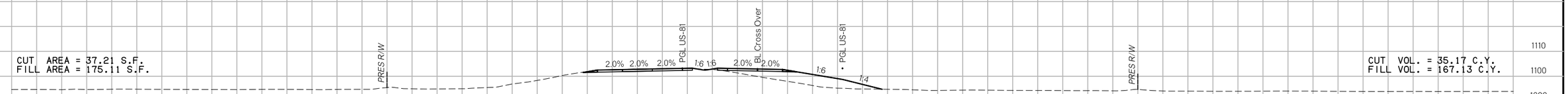
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

529+25

CUT AREA = 37.21 S.F.
FILL AREA = 175.11 S.F.

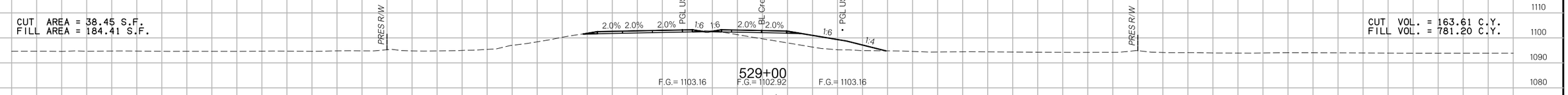
CUT VOL. = 35.17 C.Y.
FILL VOL. = 167.13 C.Y.



529+00

CUT AREA = 38.45 S.F.
FILL AREA = 184.41 S.F.

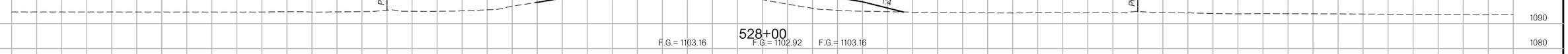
CUT VOL. = 163.61 C.Y.
FILL VOL. = 781.20 C.Y.



528+00

CUT AREA = 49.90 S.F.
FILL AREA = 237.44 S.F.

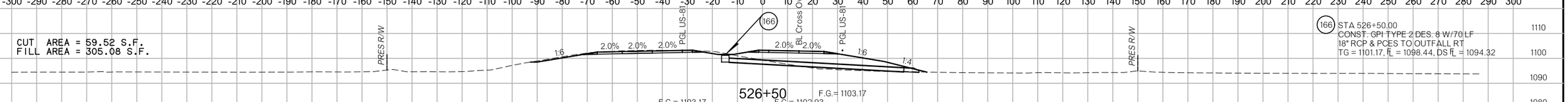
CUT VOL. = 199.59 C.Y.
FILL VOL. = 972.95 C.Y.



527+00

CUT AREA = 57.88 S.F.
FILL AREA = 287.95 S.F.

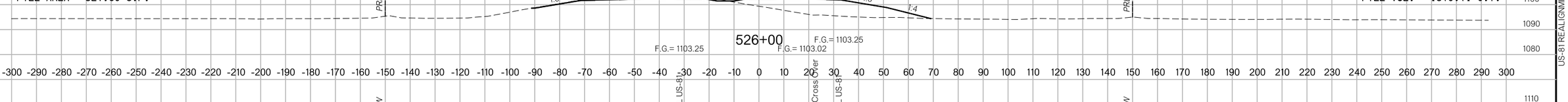
CUT VOL. = 202.65 C.Y.
FILL VOL. = 1140.08 C.Y.



526+50

CUT AREA = 59.52 S.F.
FILL AREA = 305.08 S.F.

(166) STA 526+50.00
CONST. GPI TYPE 2 DES. 8 W/70 LF
18" RCP & PCES TO OUTFALL RT
TG = 1101.17, FL = 1098.44, DS FL = 1094.32



526+00

CUT AREA = 51.56 S.F.
FILL AREA = 327.69 S.F.

CUT VOL. = 136.29 C.Y.
FILL VOL. = 1379.71 C.Y.

525+00

CUT AREA = 22.04 S.F.
FILL AREA = 417.35 S.F.

CUT VOL. = 40.81 C.Y.
FILL VOL. = 1883.35 C.Y.

SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X165

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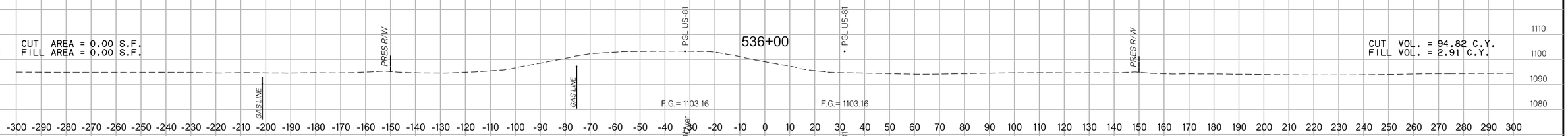
US-81 REALIGNMENT

GRADY COUNTY

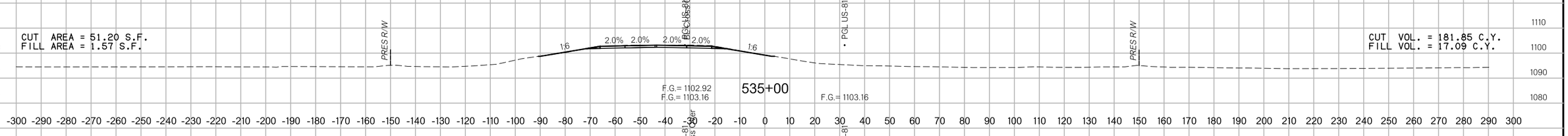
PROPOSED
R/W
AUGUST 2017

CUT AREA = 0.00 S.F.
FILL AREA = 0.00 S.F.



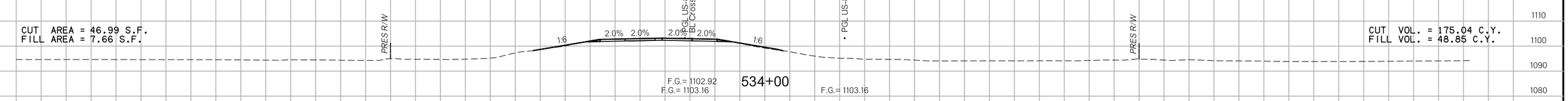
CUT VOL. = 94.82 C.Y.
FILL VOL. = 2.91 C.Y.

CUT AREA = 51.20 S.F.
FILL AREA = 1.57 S.F.



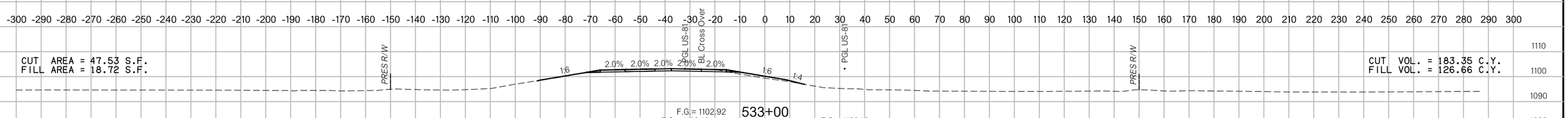
CUT VOL. = 181.85 C.Y.
FILL VOL. = 17.09 C.Y.

CUT AREA = 46.99 S.F.
FILL AREA = 7.66 S.F.



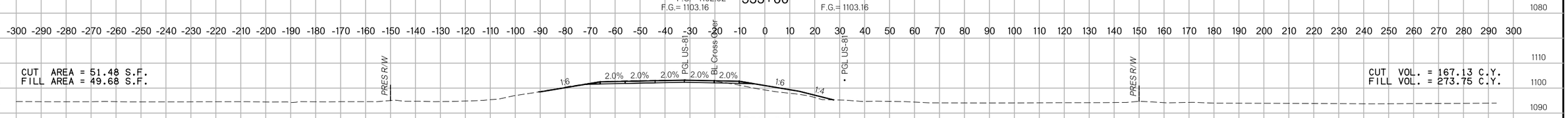
CUT VOL. = 175.04 C.Y.
FILL VOL. = 48.85 C.Y.

CUT AREA = 47.53 S.F.
FILL AREA = 18.72 S.F.



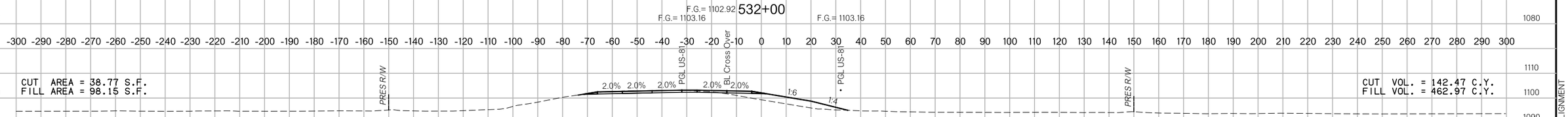
CUT VOL. = 183.35 C.Y.
FILL VOL. = 126.66 C.Y.

CUT AREA = 51.48 S.F.
FILL AREA = 49.68 S.F.



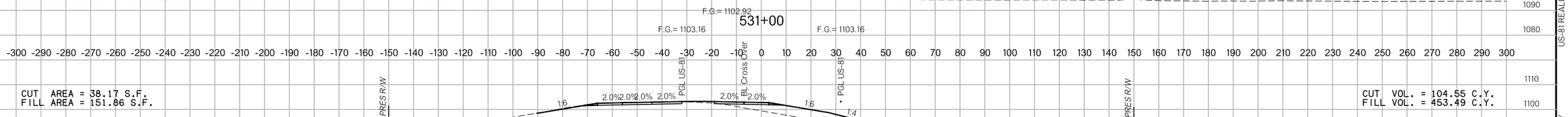
CUT VOL. = 167.13 C.Y.
FILL VOL. = 273.75 C.Y.

CUT AREA = 38.77 S.F.
FILL AREA = 98.15 S.F.



CUT VOL. = 142.47 C.Y.
FILL VOL. = 462.97 C.Y.

CUT AREA = 38.17 S.F.
FILL AREA = 151.86 S.F.



CUT VOL. = 104.55 C.Y.
FILL VOL. = 453.49 C.Y.

SCALE: HORIZ: 1"=20'
VERT: 1"=20'

US-81

State Job No. 24428(04) Sheet No. X166

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US-81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

30+00

R/W | WATER | R/W | OHE | TEMP R/W

1.5 | 1.3 | 1205.64

FILL AREA~0
CUT AREA~58
FILL VOLUME~0
CUT VOLUME~82

29+50

TEMP R/W

1.6 | 1.3 | 1208.13

FILL AREA~0
CUT AREA~30
FILL VOLUME~0
CUT VOLUME~36

29+00

TEMP R/W

1.5 | 1.3 | 1210.61

29+00 BEGIN INCIDENTAL CONSTRUCTION

FILL AREA~0
CUT AREA~8
FILL VOLUME~0
CUT VOLUME~8

28+50

FILL AREA~0
CUT AREA~0
FILL VOLUME~0
CUT VOLUME~0

THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPES & LOCATIONS OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE TO MAKE THE DETERMINATIONS AS TO THE TYPE & LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING OWNERS OF UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS.

28+49.99

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

EW 140.5

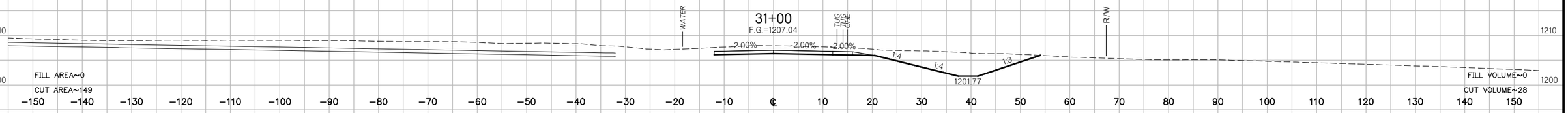
FILL AREA~0
CUT AREA~0
FILL VOLUME~0
CUT VOLUME~0

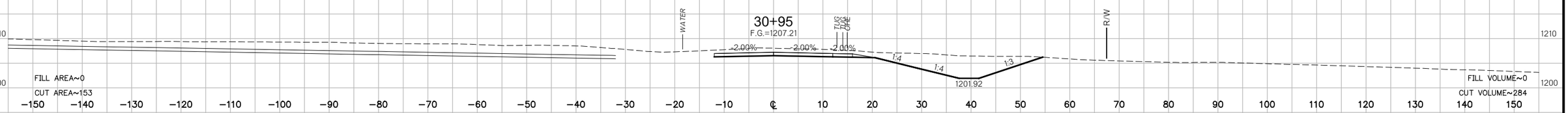
1220 / 1210 / 1200 — −150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

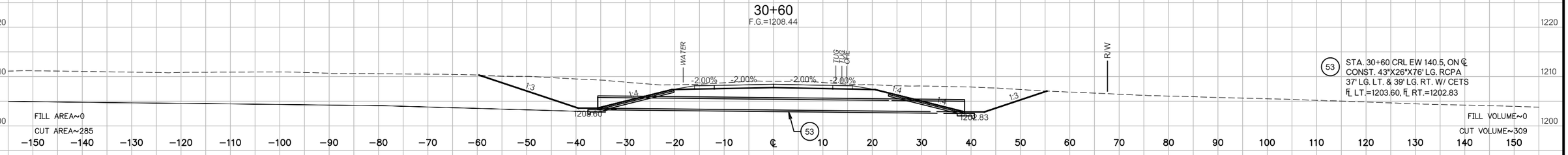
US 81 REALIGNMENT
GRADY COUNTY

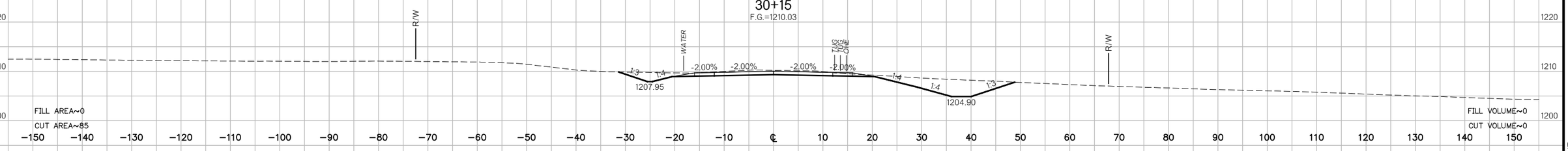
State Job No. 24428(04) Sheet No. X167

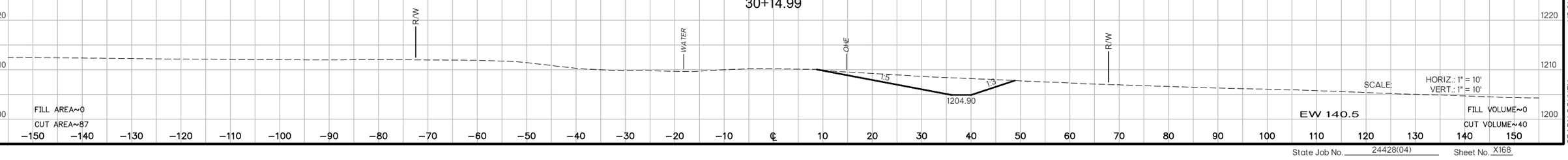
PROPOSED
R/W
AUGUST 2017







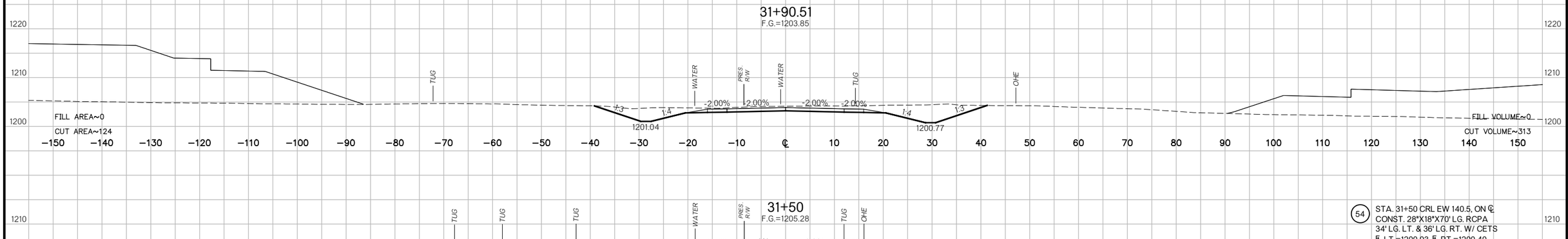




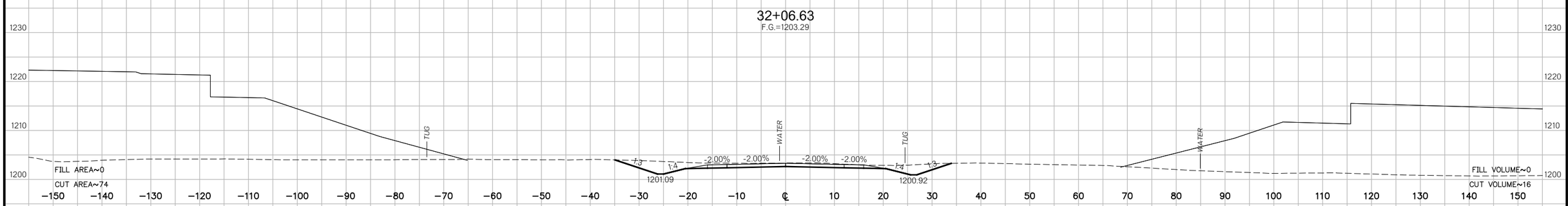
US 81 REALIGNMENT
GRADY COUNTY

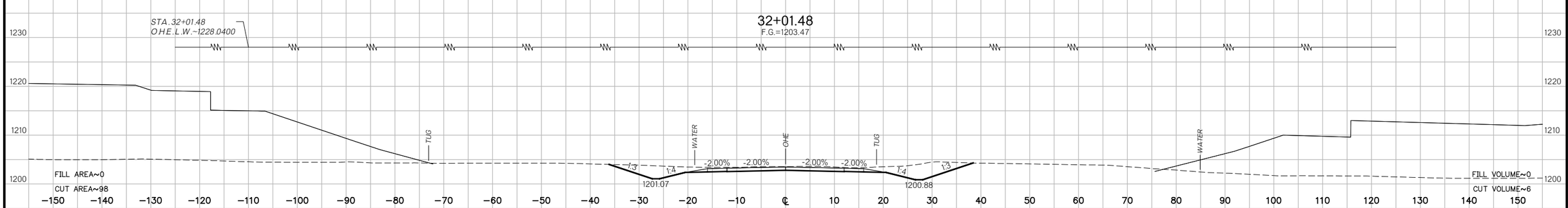
State Job No. 24428(04) Sheet No. X168

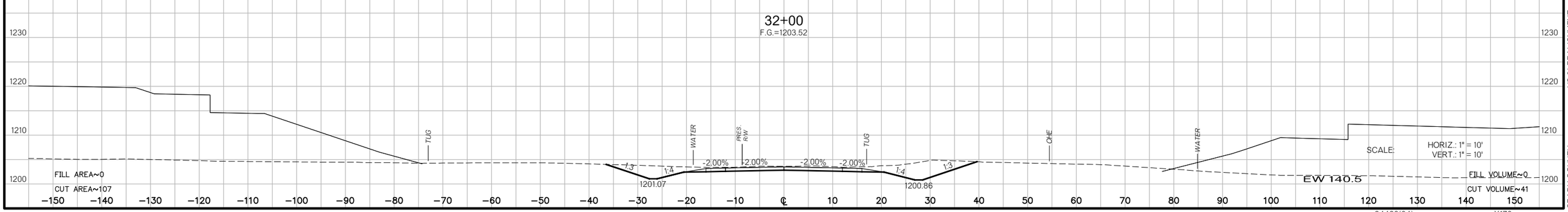
PROPOSED
R/W
AUGUST 2017



PROPOSED
R/W
AUGUST 2017







SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

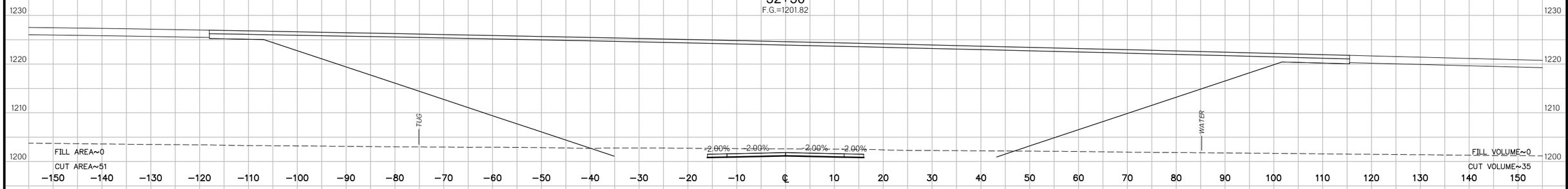
EW 140.5

US 81 REALIGNMENT
GRADY COUNTY

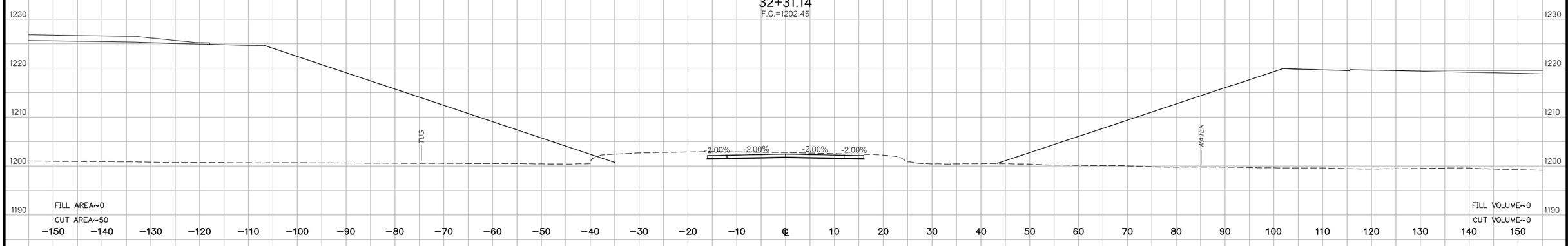
State Job No. 24428(04) Sheet No. X170

PROPOSED
R/W
AUGUST 2017

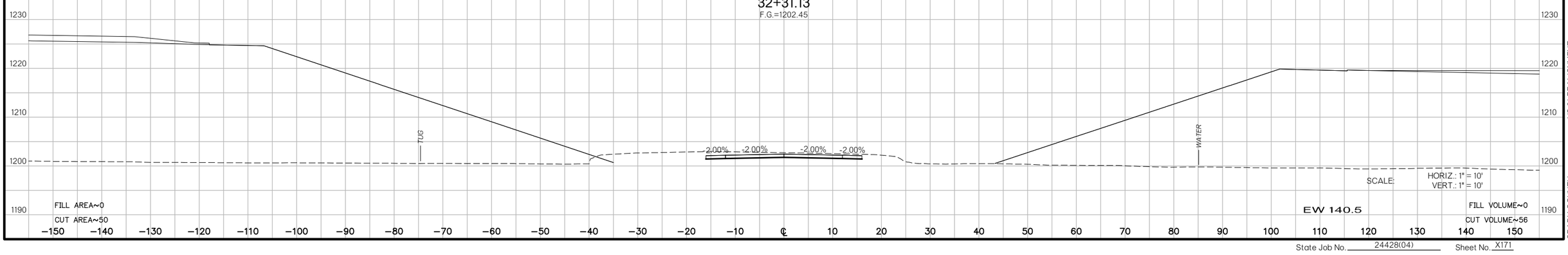
32+50
F.G.=1201.82



32+31.14
F.G.=1202.45



32+31.13
F.G.=1202.45



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

EW 140.5

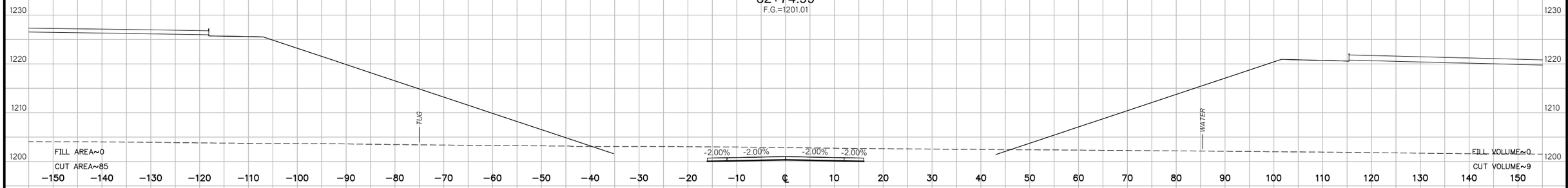
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X171

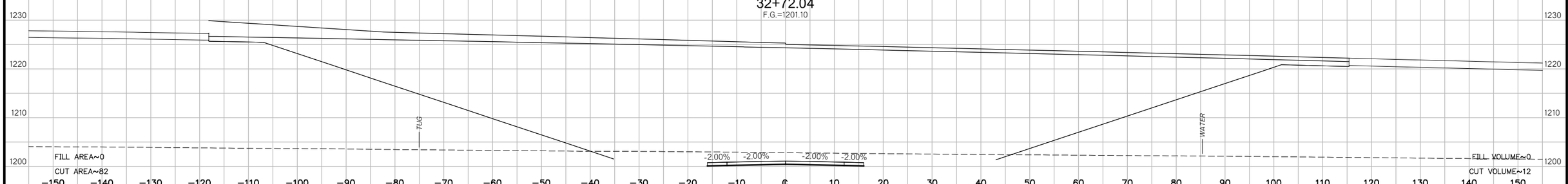
PROPOSED
R/W
AUGUST 2017

32+75
F.G.=1201.01

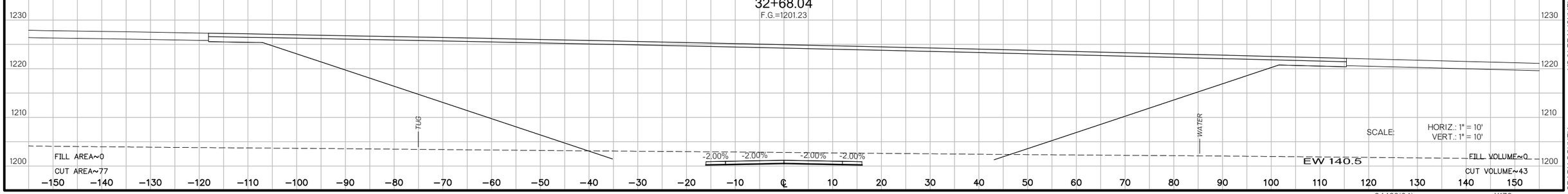
32+74.99
F.G.=1201.01



32+72.04
F.G.=1201.10



32+68.04
F.G.=1201.23



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

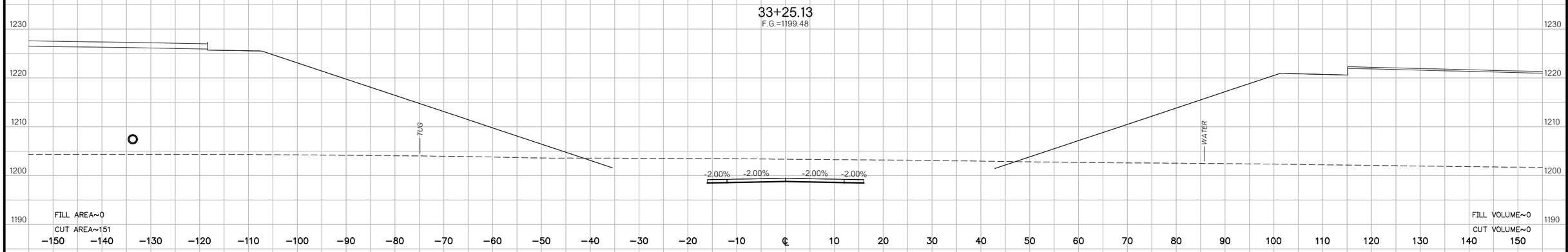
EW 140.5

US 81 REALIGNMENT
GRADY COUNTY

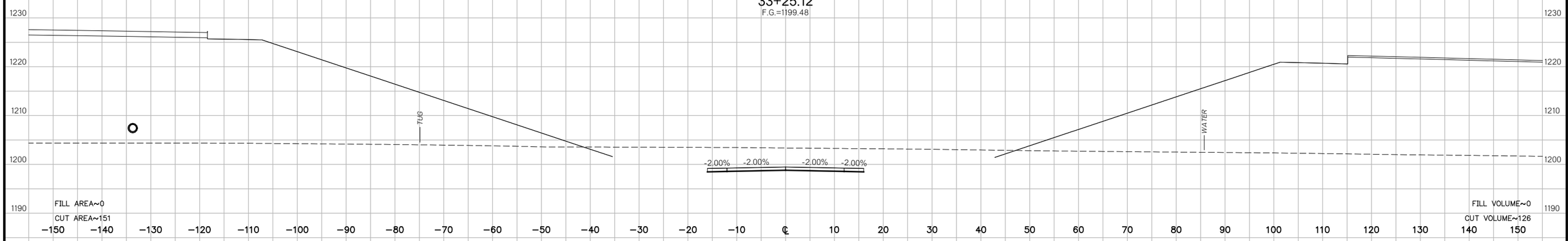
State Job No. 24428(04) Sheet No. X172

PROPOSED
R/W
AUGUST 2017

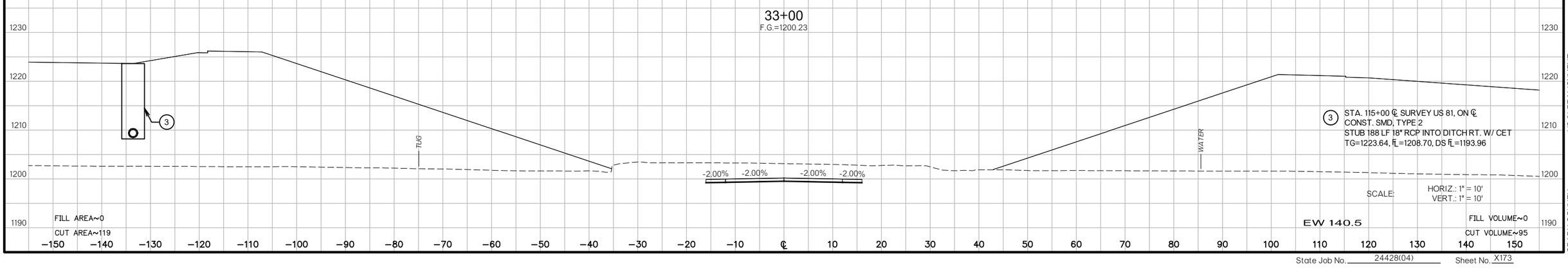
33+25.13
F.G.=1199.48



33+25.12
F.G.=1199.48



33+00
F.G.=1200.23



3 STA. 115+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 188 LF 18" RCP INTO DITCH RT. W/ CET
TG=1223.64, FL=1208.70, DS FL=1193.96

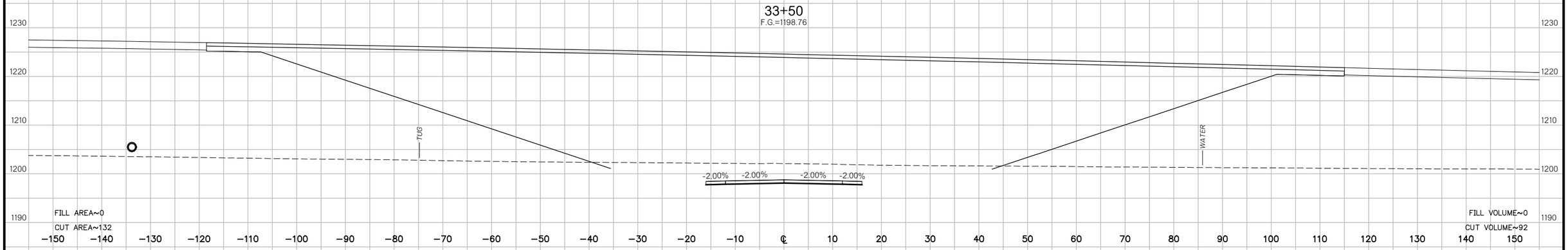
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

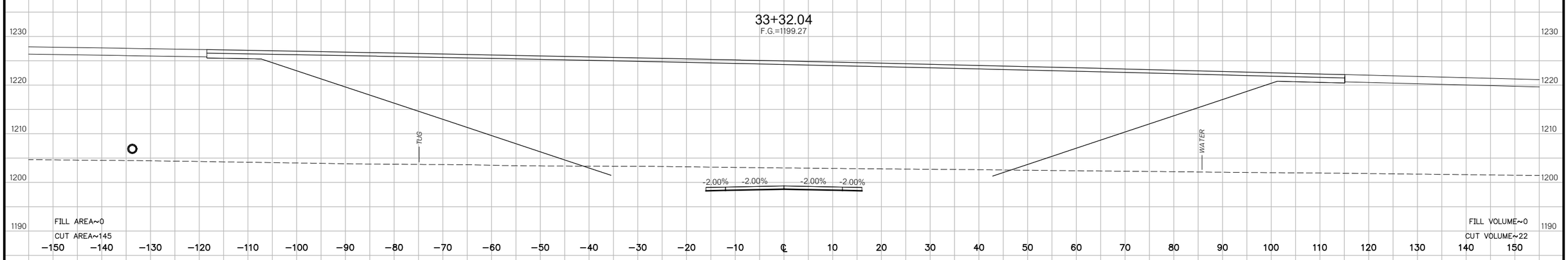
EW 140.5

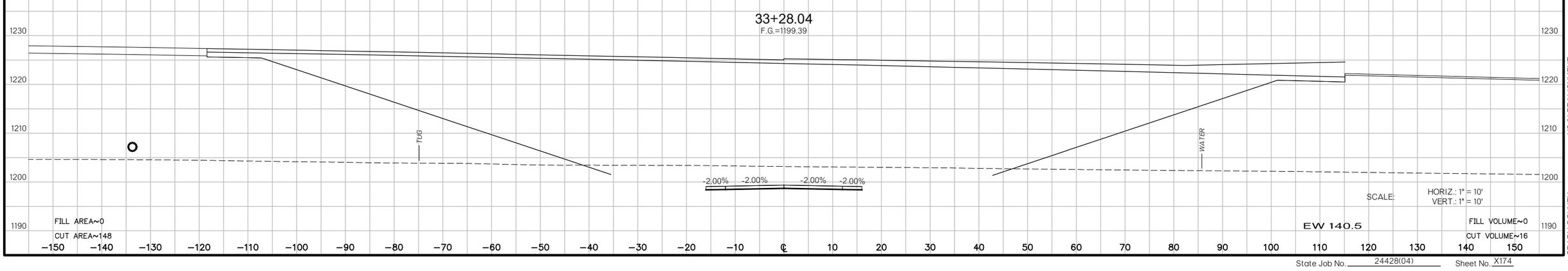
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X173

PROPOSED
R/W
AUGUST 2017







SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

EW 140.5

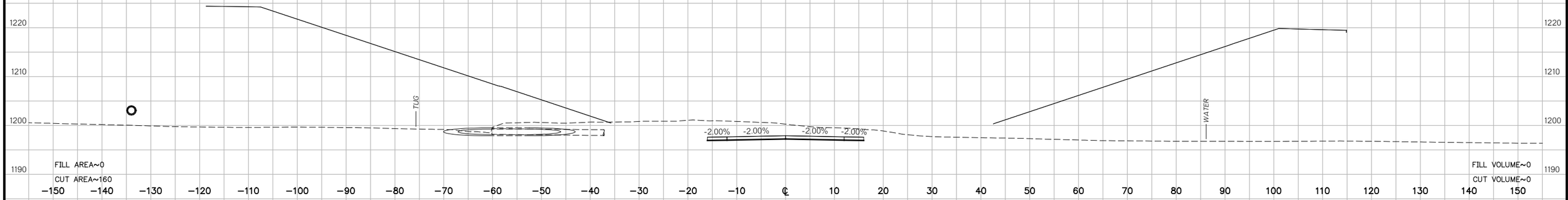
US 81 REALIGNMENT

GRADY COUNTY

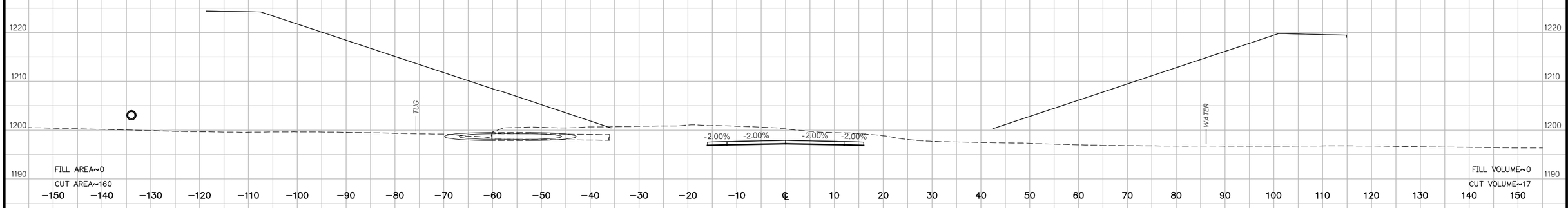
State Job No. 24428(04) Sheet No. X174

PROPOSED
R/W
AUGUST 2017

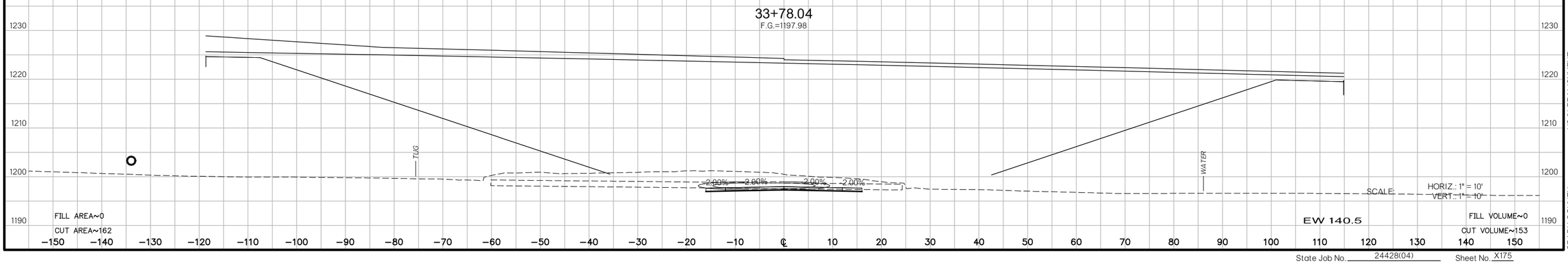
33+80.96
F.G.=1197.91



33+80.95
F.G.=1197.91



33+78.04
F.G.=1197.98



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

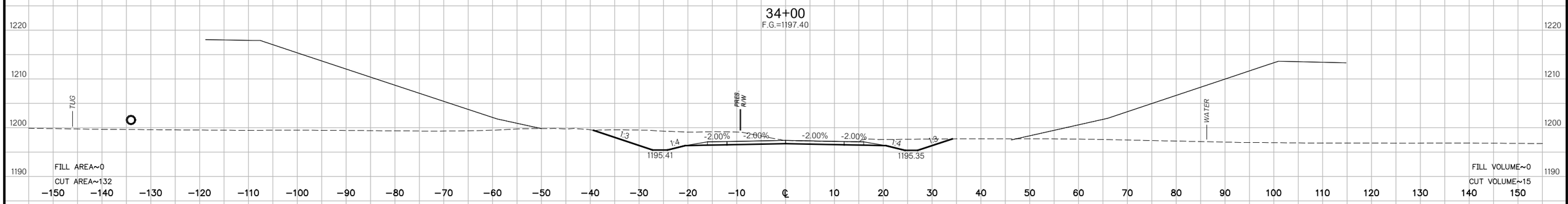
EW 140.5

US 81 REALIGNMENT
GRADY COUNTY

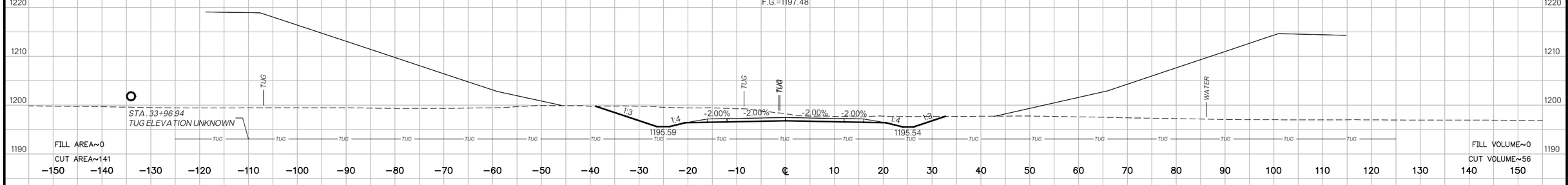
State Job No. 24428(04) Sheet No. X175

PROPOSED
R/W
AUGUST 2017

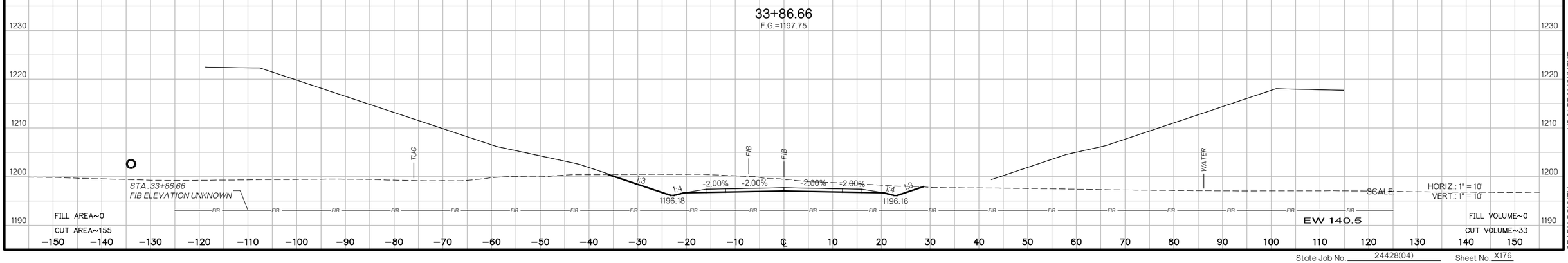
34+00
F.G.=1197.40



33+96.94
F.G.=1197.48



33+86.66
F.G.=1197.75

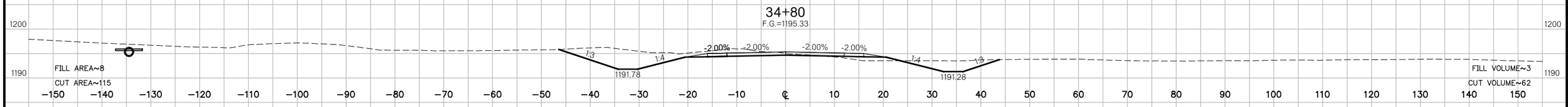


US 81 REALIGNMENT
GRADY COUNTY

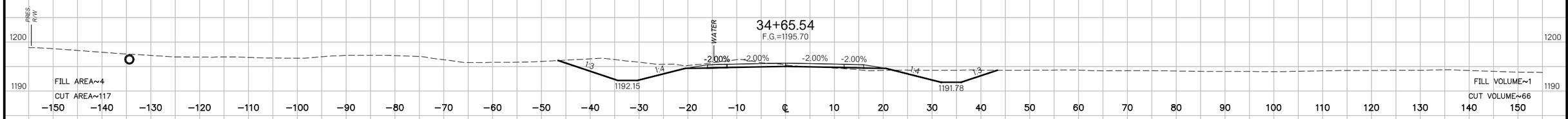
State Job No. 24428(04) Sheet No. X176

PROPOSED
R/W
AUGUST 2017

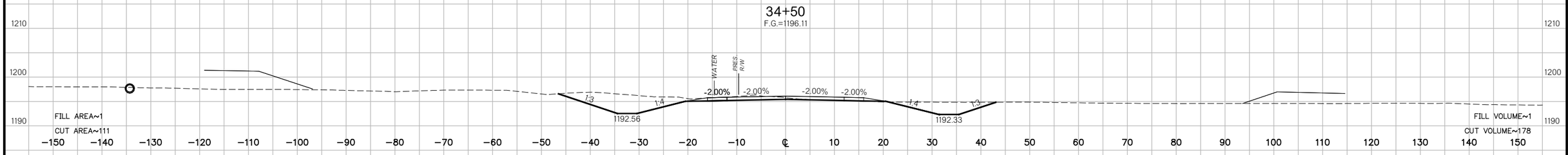
34+80
F.G.=1195.33



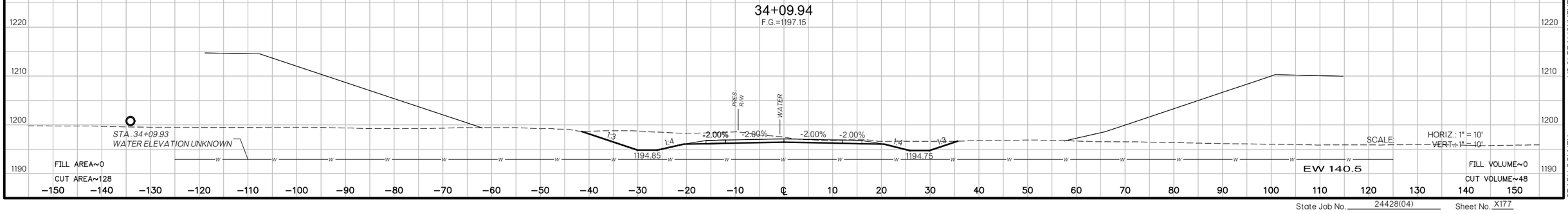
34+65.54
F.G.=1195.70



34+50
F.G.=1196.11



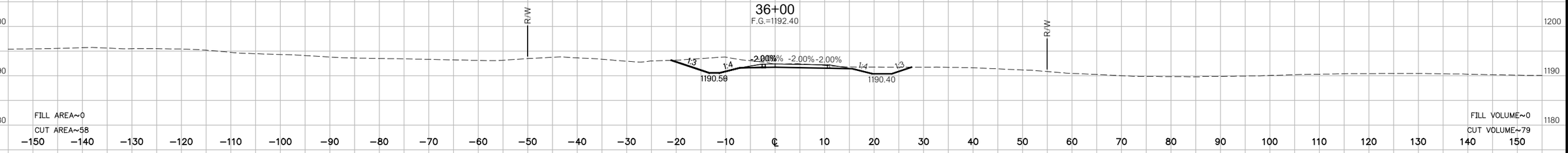
34+09.94
F.G.=1197.15



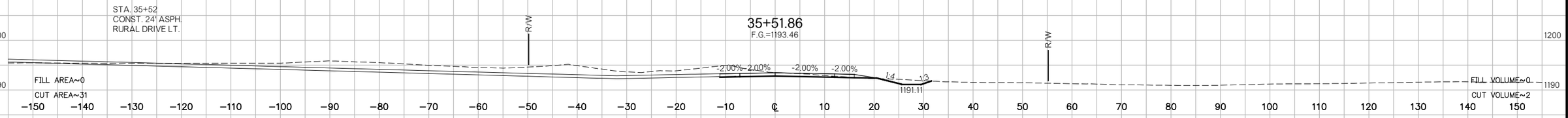
US 81 REALIGNMENT
GRADY COUNTY

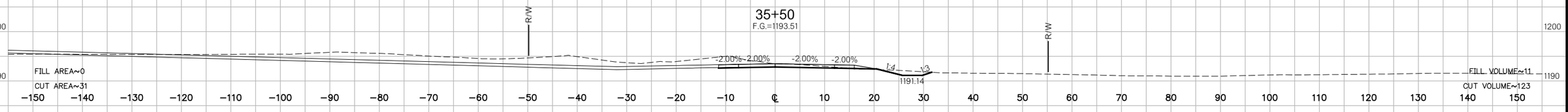
State Job No. 24428(04) Sheet No. X177

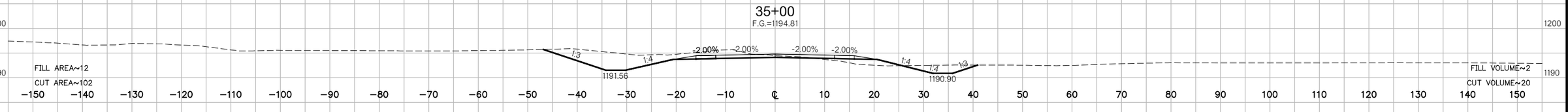
PROPOSED
R/W
AUGUST 2017



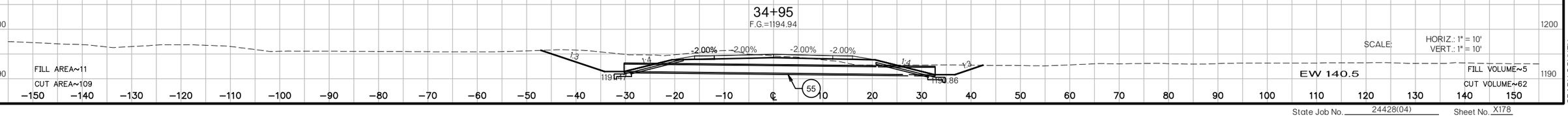
STA. 35+52
CONST. 24' ASPH.
RURAL DRIVE LT.







(55) STA. 34+95 CRL EW 140.5, ON ℄
CONST. 28"X18"X64' LG. RCPA
31' LG. LT. & 33' LG. RT. W/ CETS
℄ LT.=1191.47, ℄ RT.=1190.81

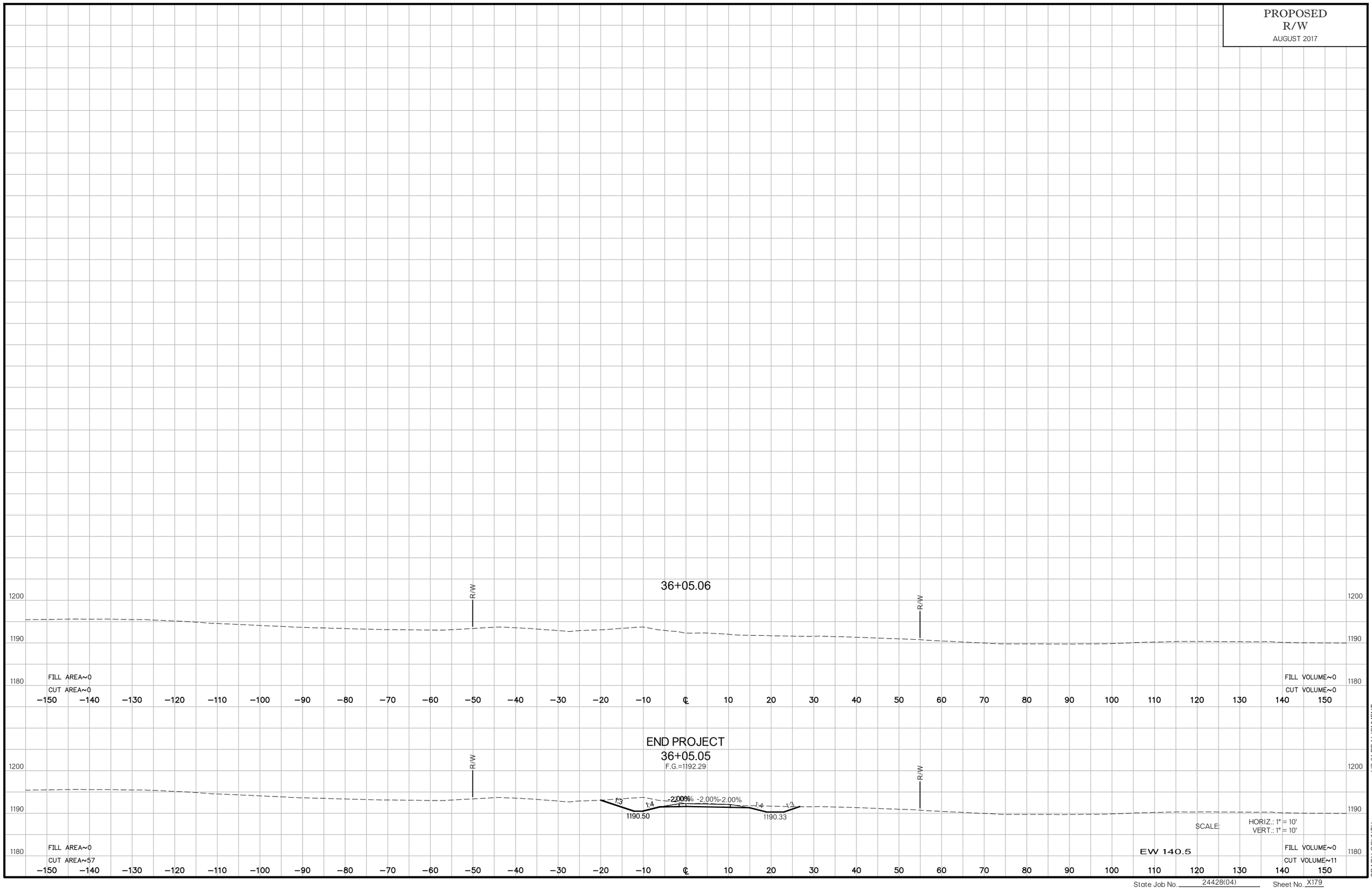


SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X178

PROPOSED
R/W
AUGUST 2017



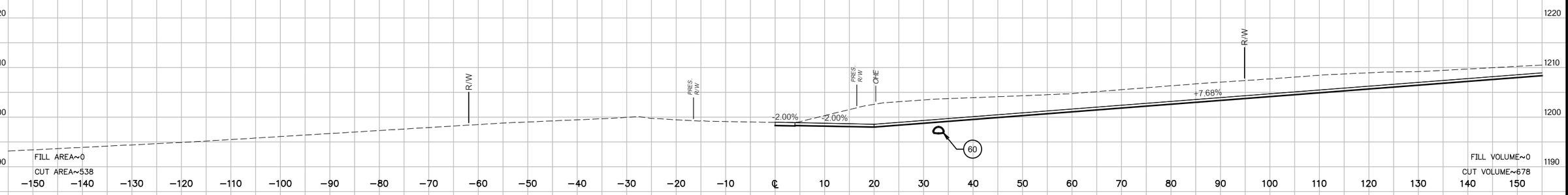
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X179

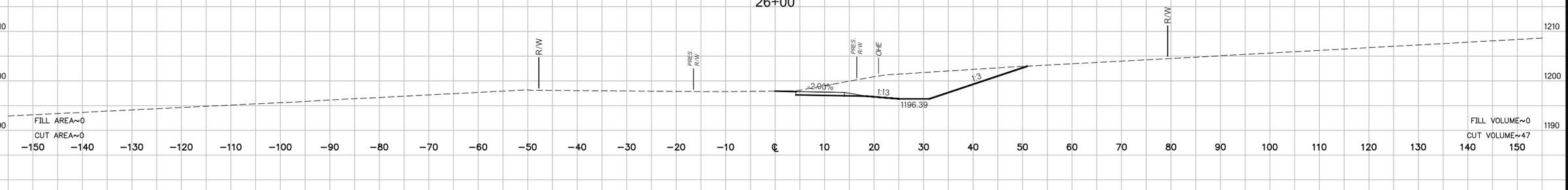
PROPOSED
R/W
AUGUST 2017

26+74.99

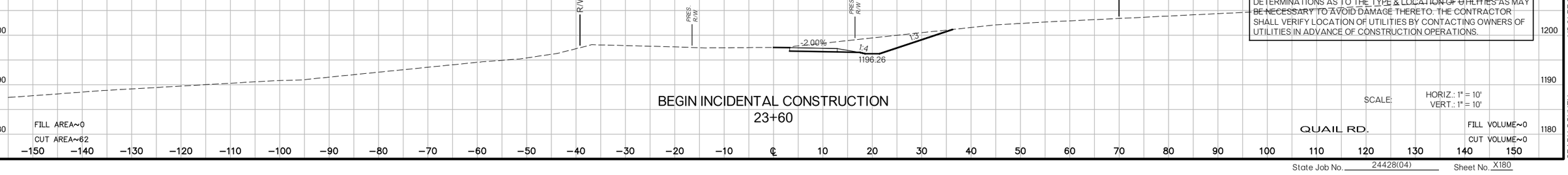
26+68



26+00



25+59



THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPES & LOCATIONS OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE TO MAKE THE DETERMINATIONS AS TO THE TYPE & LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING OWNERS OF UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS.

BEGIN INCIDENTAL CONSTRUCTION
23+60

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

QUAIL RD.

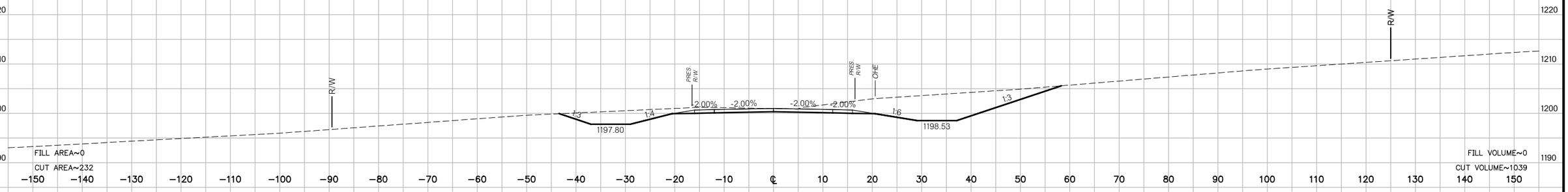
US 81 REALIGNMENT

GRADY COUNTY

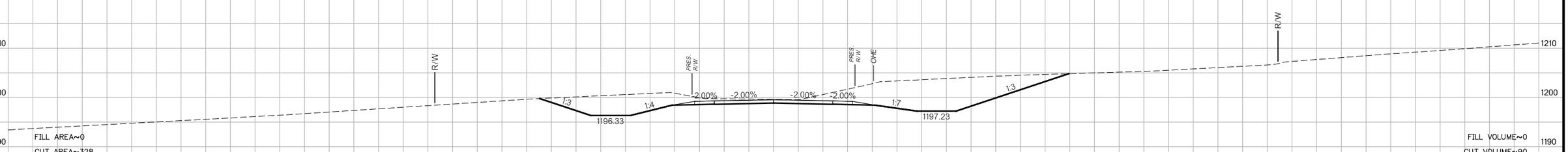
State Job No. 24428(04) Sheet No. X180

PROPOSED
R/W
AUGUST 2017

28+00
F.G.=1200.99

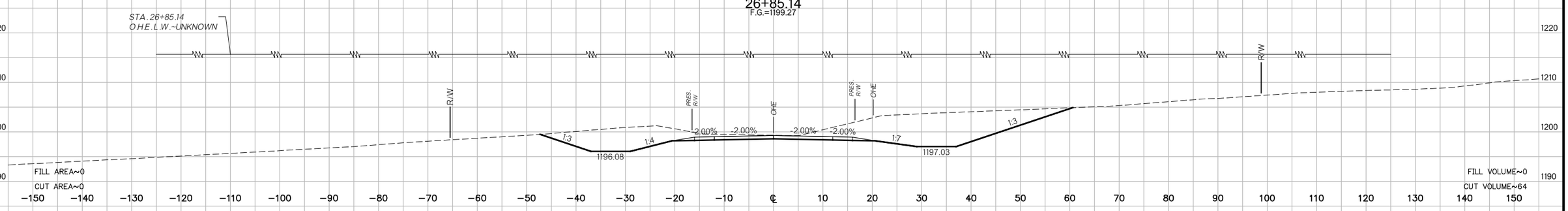


27+00
F.G.=1199.52

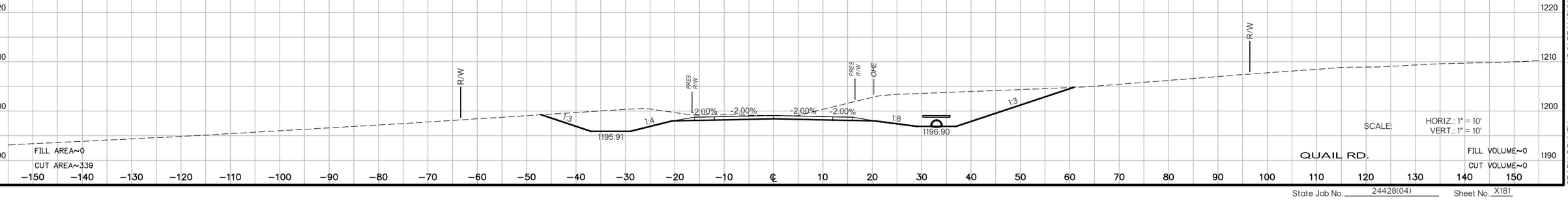


26+85.14
F.G.=1199.27

STA. 26+85.14
O.H.E. L.W.~UNKNOWN



BEGIN PROJECT
26+75
F.G.=1199.10



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

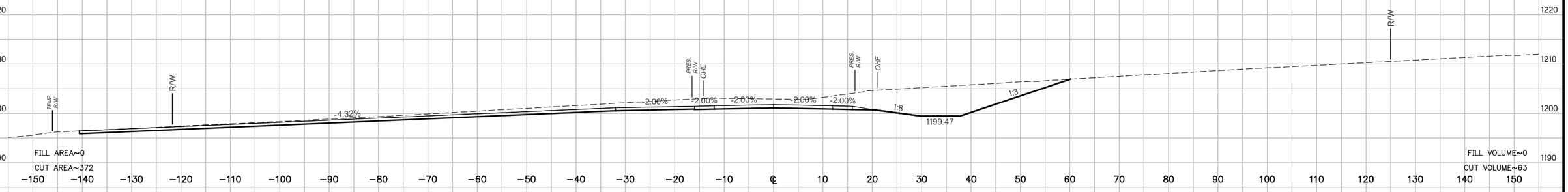
QUAIL RD.

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X181

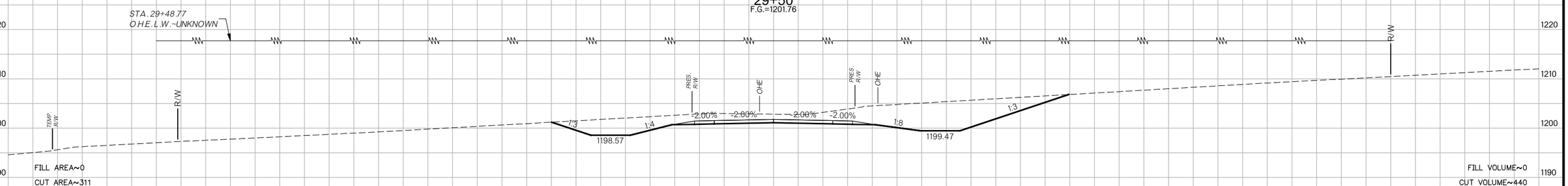
PROPOSED
R/W
AUGUST 2017

29+55
F.G.=1201.76



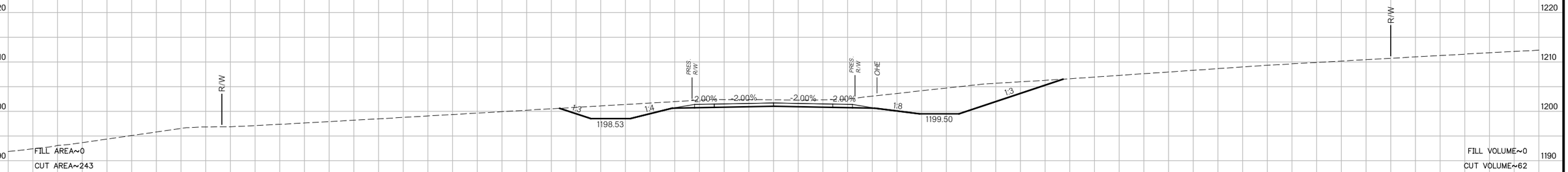
FILL AREA~0
CUT AREA~372
FILL VOLUME~0
CUT VOLUME~63

29+50
F.G.=1201.76



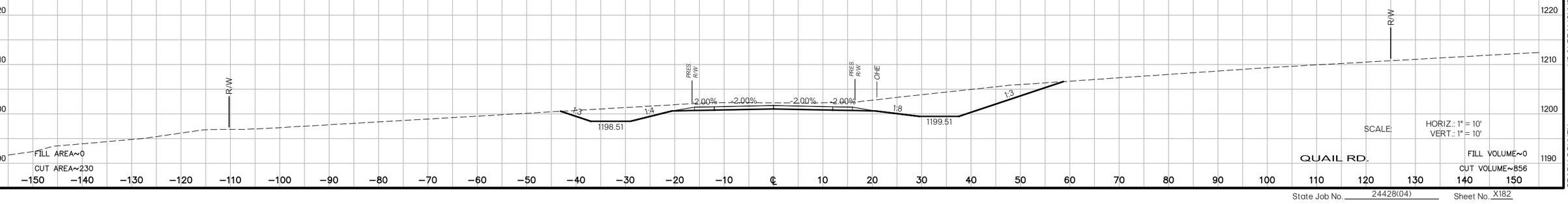
FILL AREA~0
CUT AREA~311
FILL VOLUME~0
CUT VOLUME~440

29+07.11
F.G.=1201.72



FILL AREA~0
CUT AREA~243
FILL VOLUME~0
CUT VOLUME~62

29+00
F.G.=1201.70



FILL AREA~0
CUT AREA~230
FILL VOLUME~0
CUT VOLUME~856

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

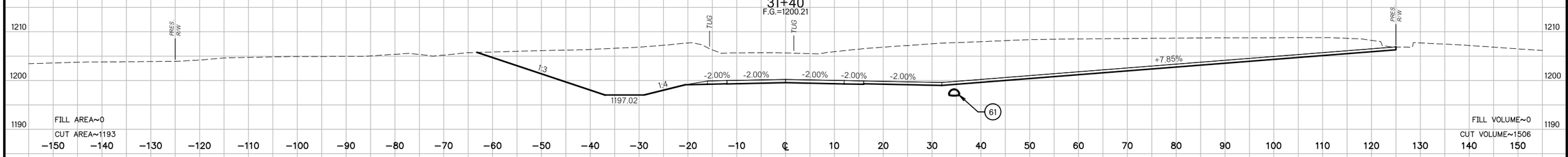
QUAIL RD.

US 81 REALIGNMENT
GRADY COUNTY

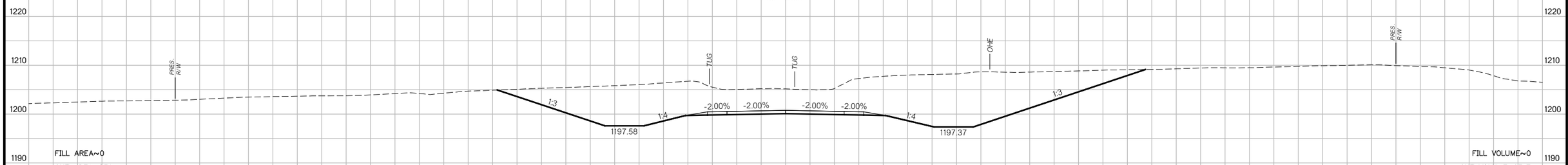
State Job No. 24428(04) Sheet No. X182

PROPOSED
R/W
AUGUST 2017

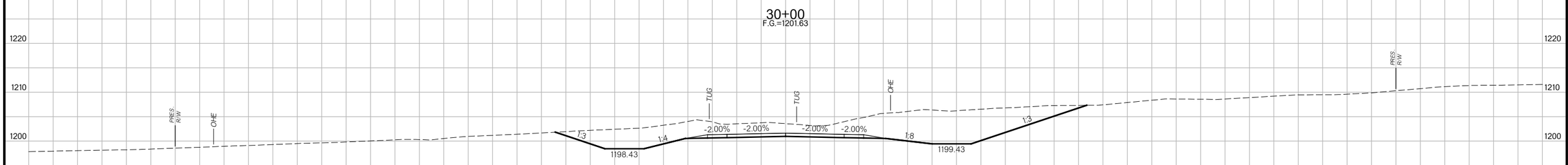
31+40
F.G.=1200.21



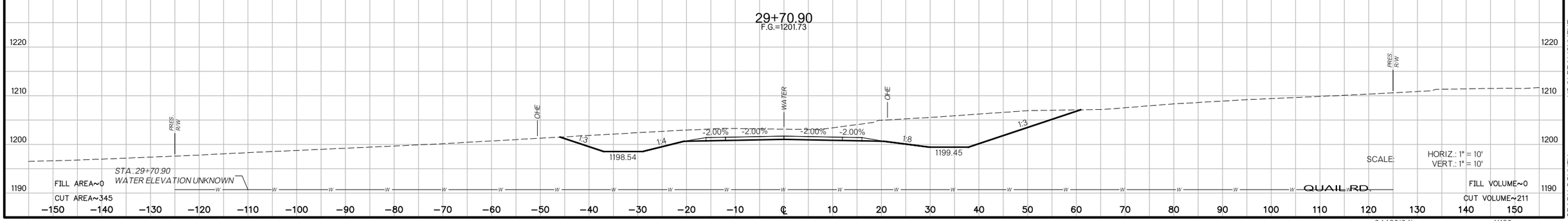
31+00
F.G.=1200.77



30+00
F.G.=1201.63



29+70.90
F.G.=1201.73



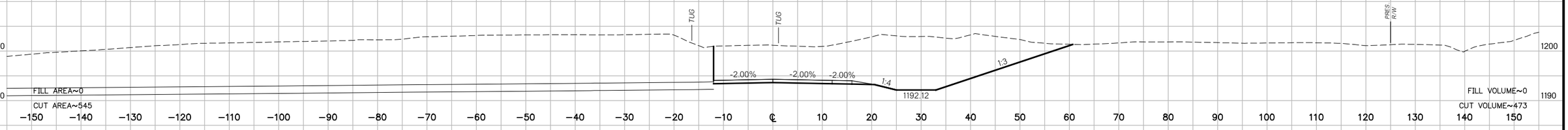
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

US 81 REALIGNMENT
GRADY COUNTY

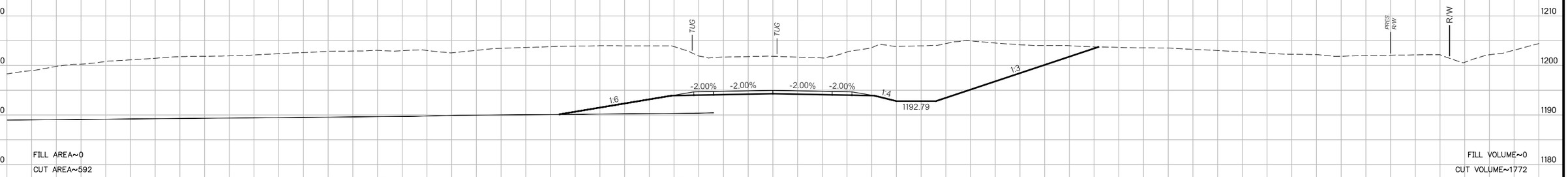
State Job No. 24428(04) Sheet No. X183

PROPOSED
R/W
AUGUST 2017

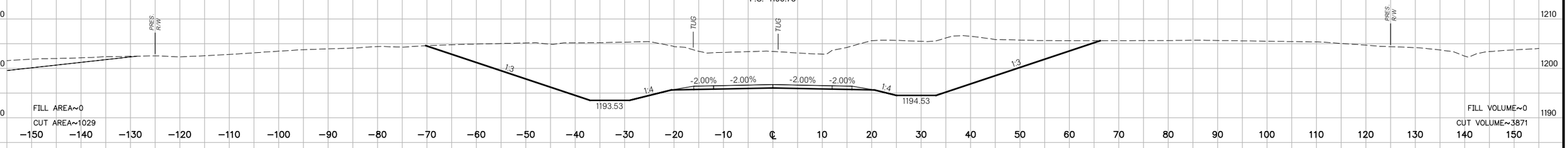
33+81.46
F.G.=1194.31



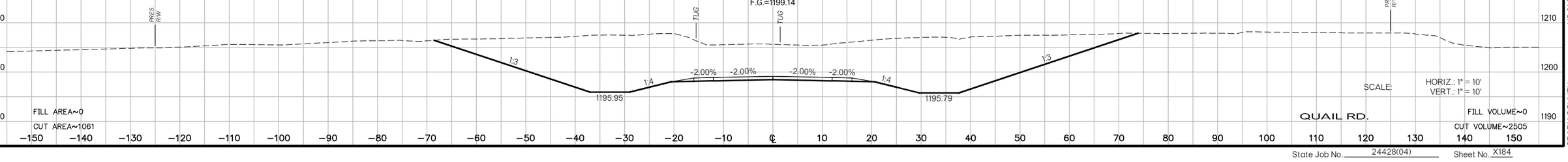
33+59
F.G.=1194.98



33+00
F.G.=1196.73



32+00
F.G.=1199.14

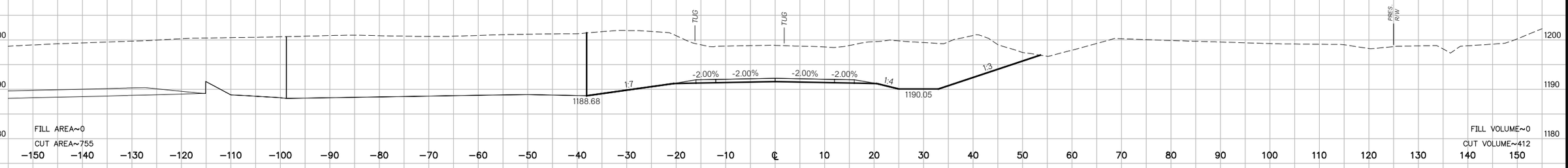


US 81 REALIGNMENT
GRADY COUNTY

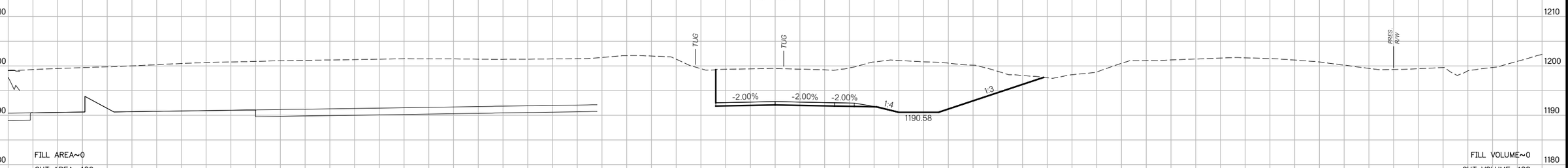
State Job No. 24428(04) Sheet No. X184

PROPOSED
R/W
AUGUST 2017

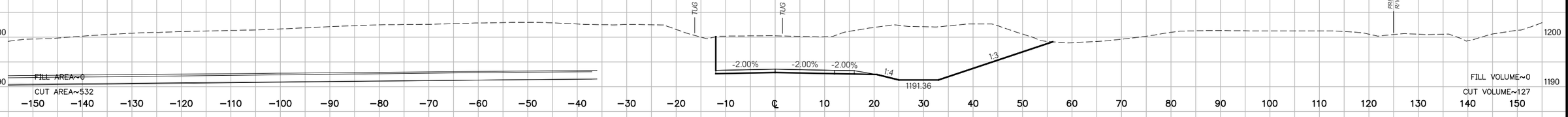
34+50.46
F.G.=1192.24



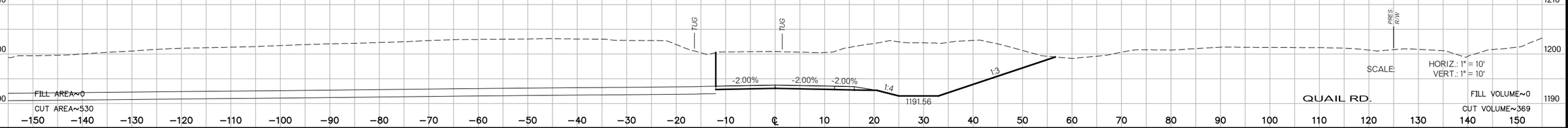
34+32.46
F.G.=1192.78



34+06.46
F.G.=1193.56



34+00
F.G.=1193.75



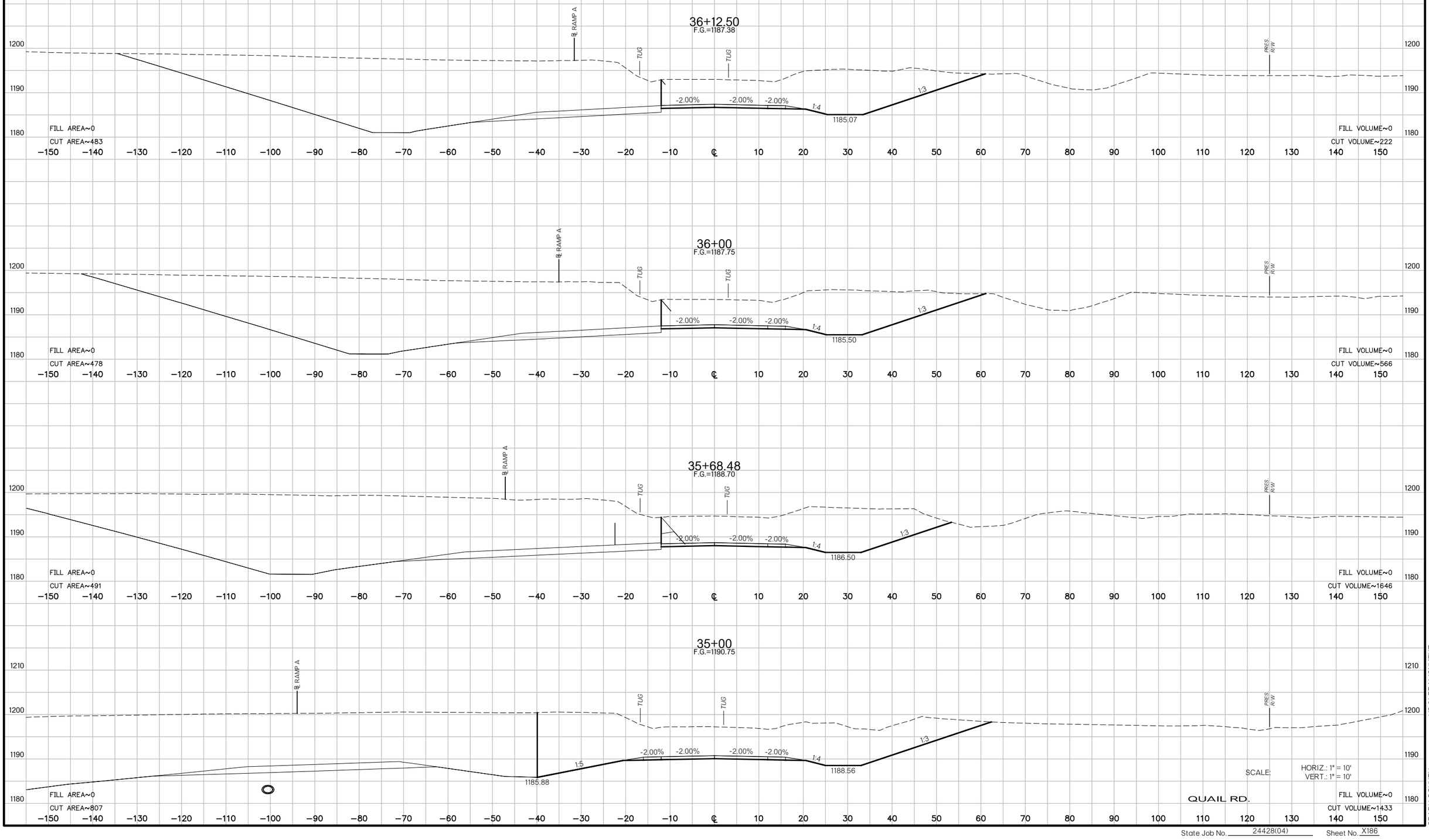
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

QUAIL RD.

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X185

PROPOSED
R/W
AUGUST 2017



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

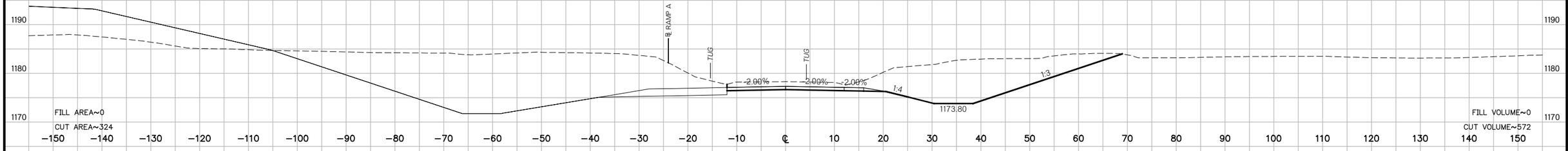
QUAIL RD.

US 81 REALIGNMENT
GRADY COUNTY

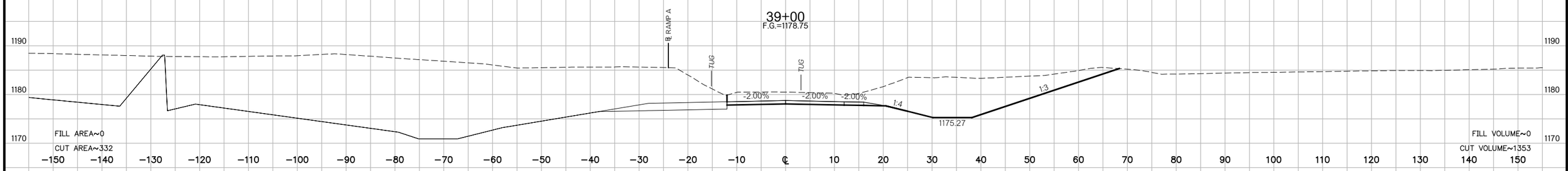
State Job No. 24428(04) Sheet No. X186

PROPOSED
R/W
AUGUST 2017

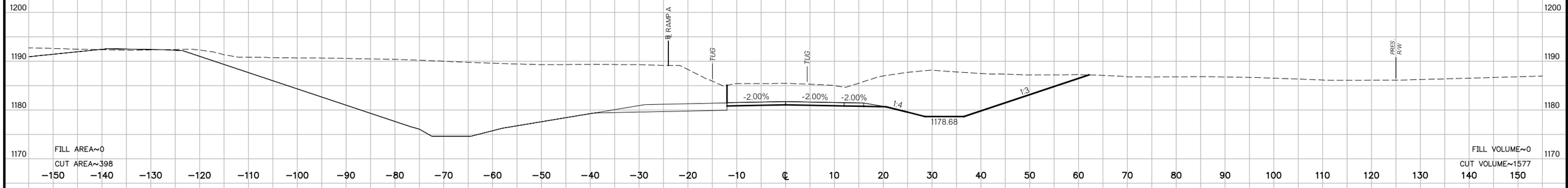
39+47
F.G.=1177.34



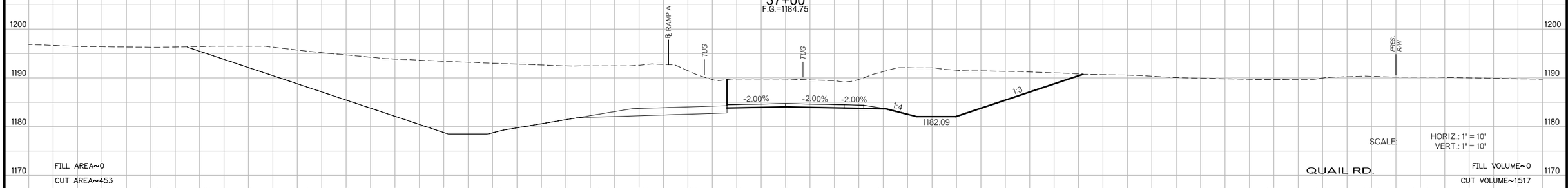
39+00
F.G.=1178.75



38+00
F.G.=1181.75



37+00
F.G.=1184.75



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

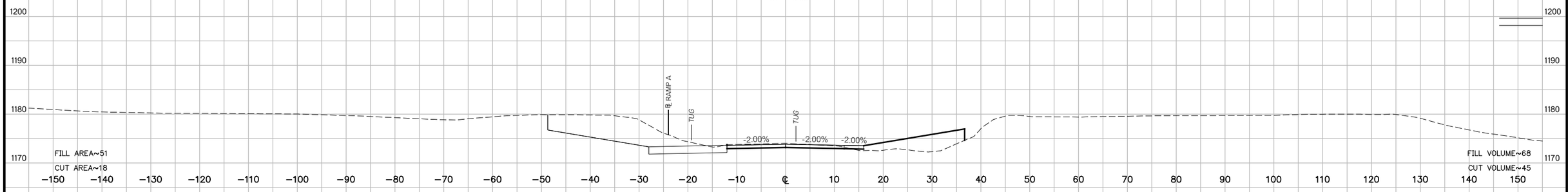
QUAIL RD.

US 81 REALIGNMENT
GRADY COUNTY

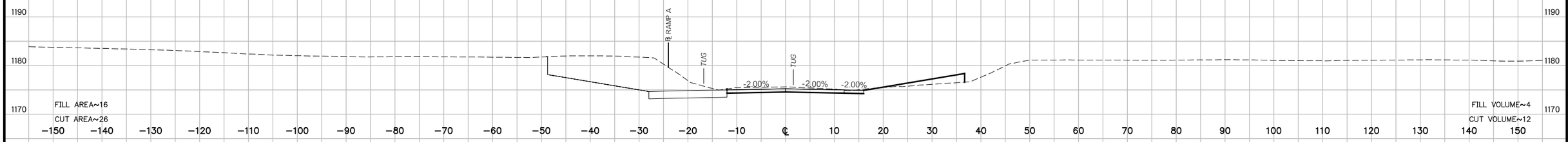
State Job No. 24428(04) Sheet No. X187

PROPOSED
R/W
AUGUST 2017

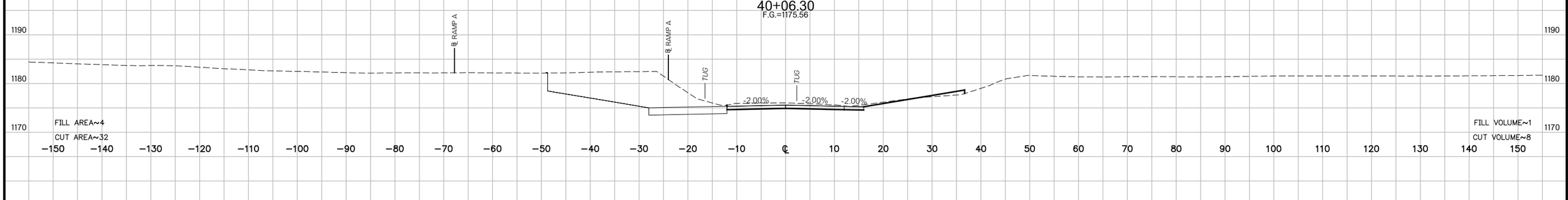
40+72.82
F.G.=1173.83



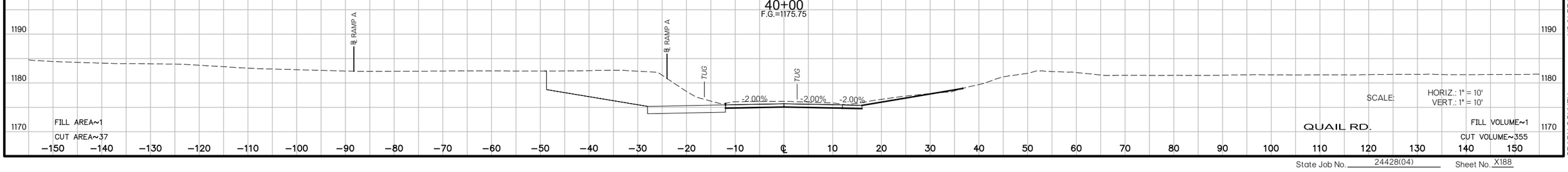
40+17.76
F.G.=1175.23



40+06.30
F.G.=1175.56



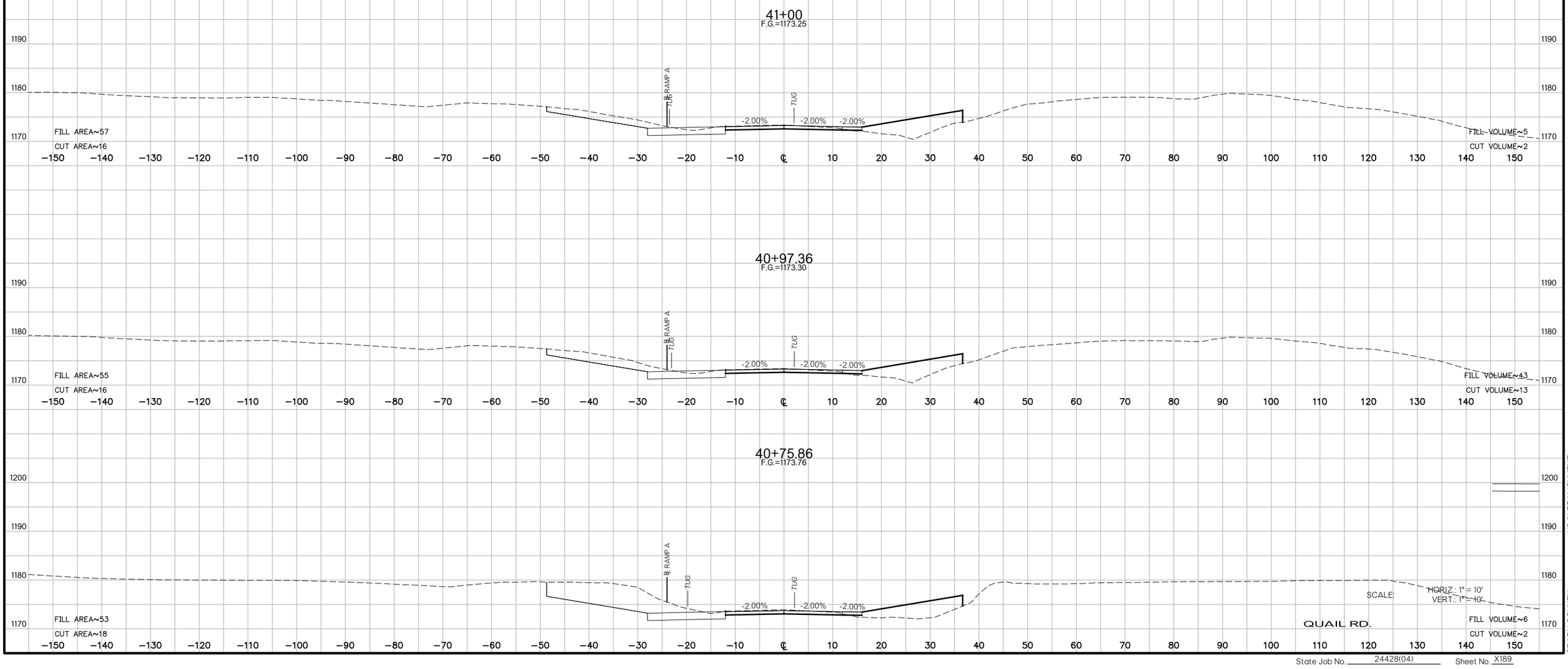
40+00
F.G.=1175.75



US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X188

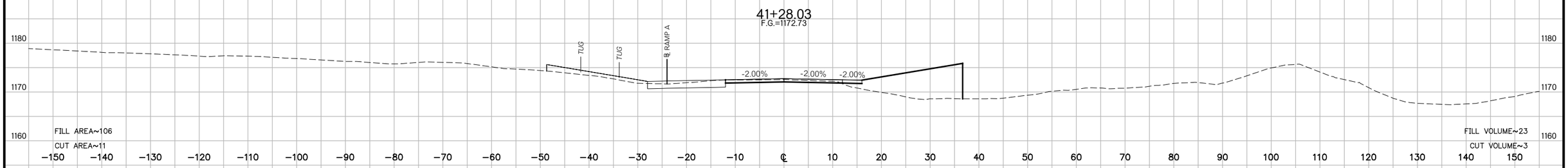
PROPOSED
R/W
AUGUST 2017

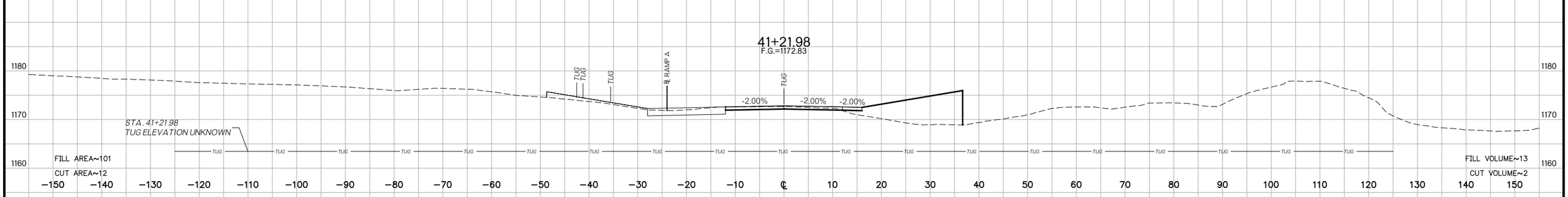


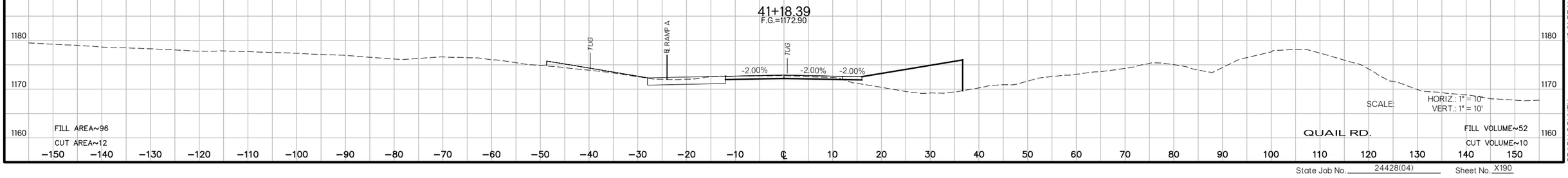
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X189

PROPOSED
R/W
AUGUST 2017







SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

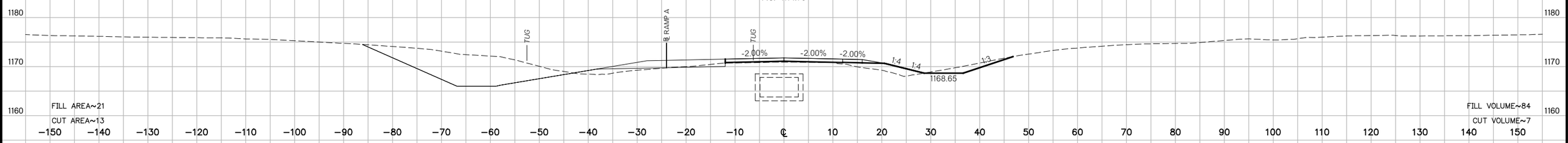
QUAIL RD.

US 81 REALIGNMENT
GRADY COUNTY

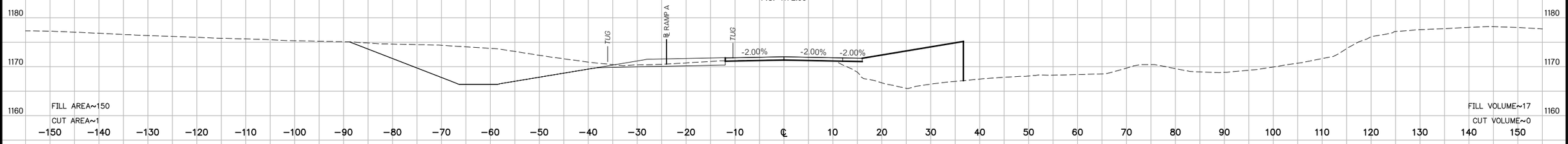
State Job No. 24428(04) Sheet No. X190

PROPOSED
R/W
AUGUST 2017

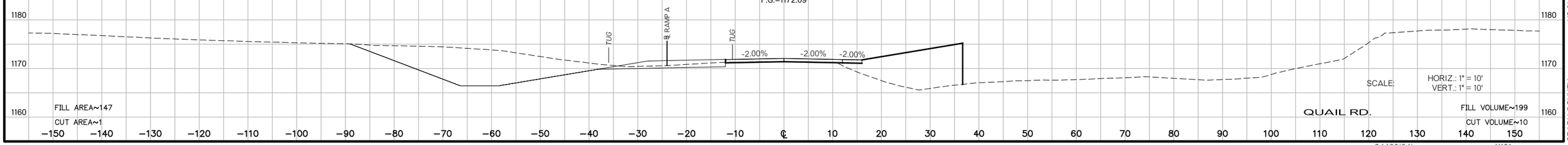
42+00
F.G.=1171.75



41+73.58
F.G.=1172.05



41+70.55
F.G.=1172.09



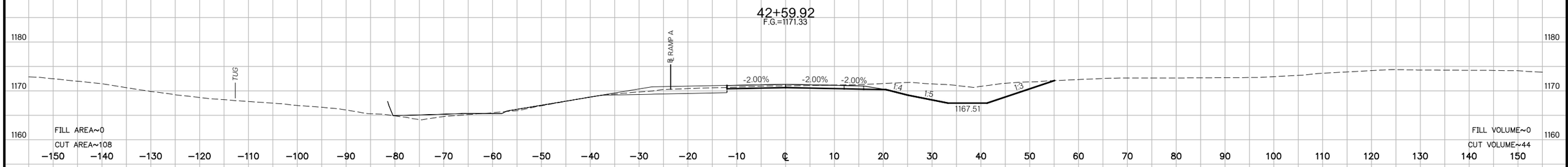
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

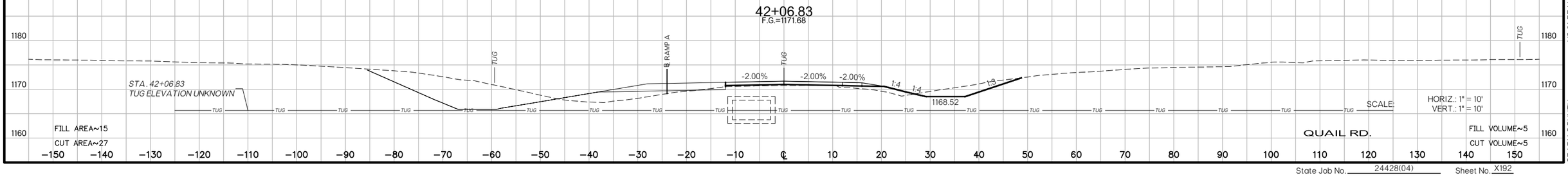
QUAIL RD.

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X191

PROPOSED
R/W
AUGUST 2017



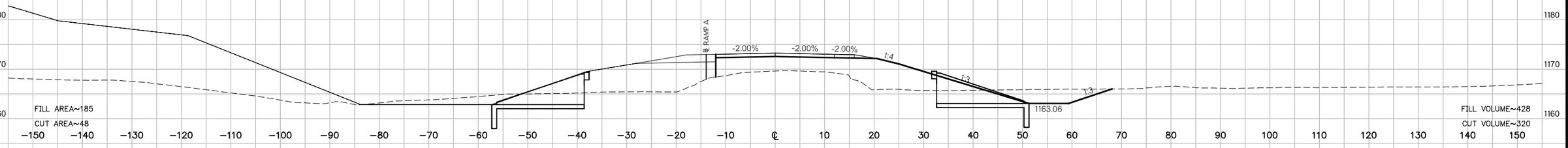


US 81 REALIGNMENT
GRADY COUNTY

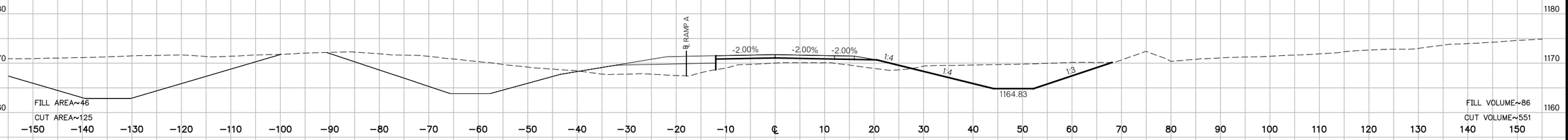
State Job No. 24428(04) Sheet No. X192

PROPOSED
R/W
AUGUST 2017

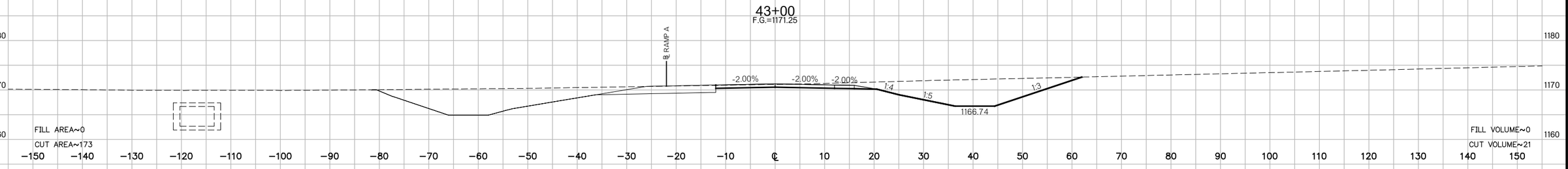
45+00
F.G.=1173.24



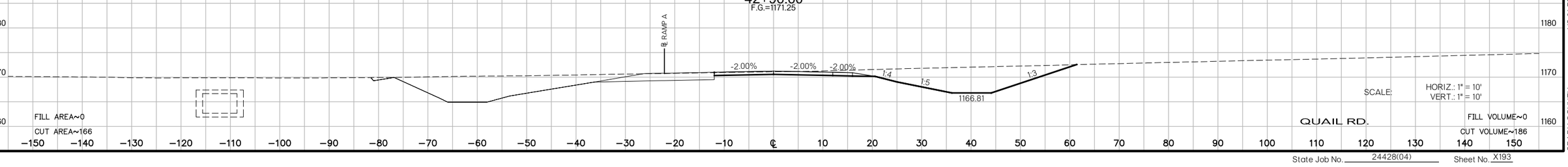
44+00
F.G.=1171.74



43+00
F.G.=1171.25



42+96.60
F.G.=1171.25



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

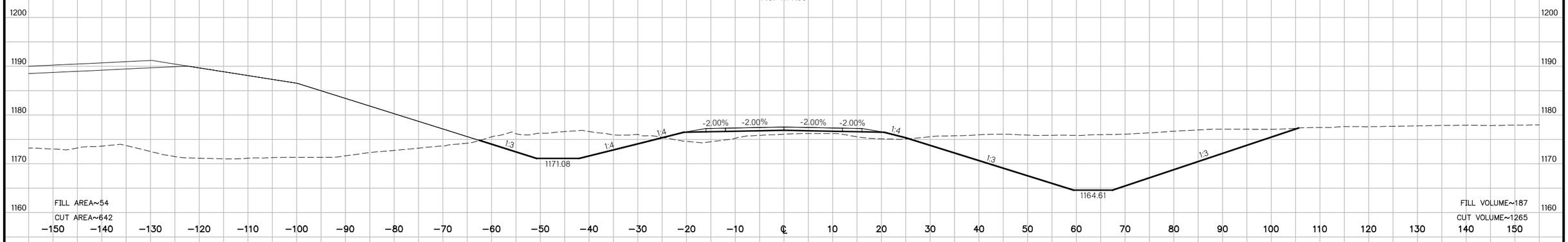
QUAIL RD.

US 81 REALIGNMENT
GRADY COUNTY

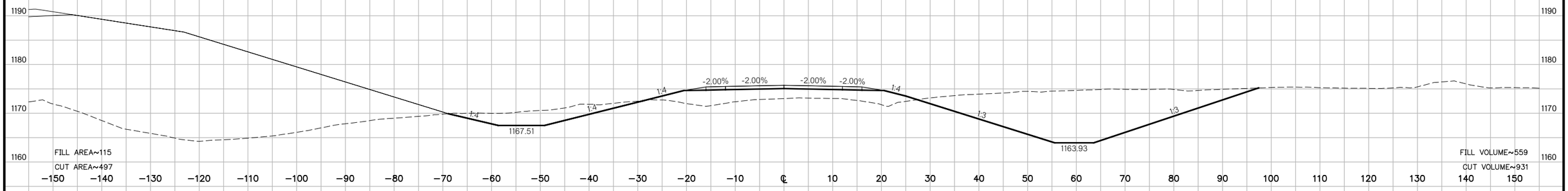
State Job No. 24428(04) Sheet No. X193

PROPOSED
R/W
AUGUST 2017

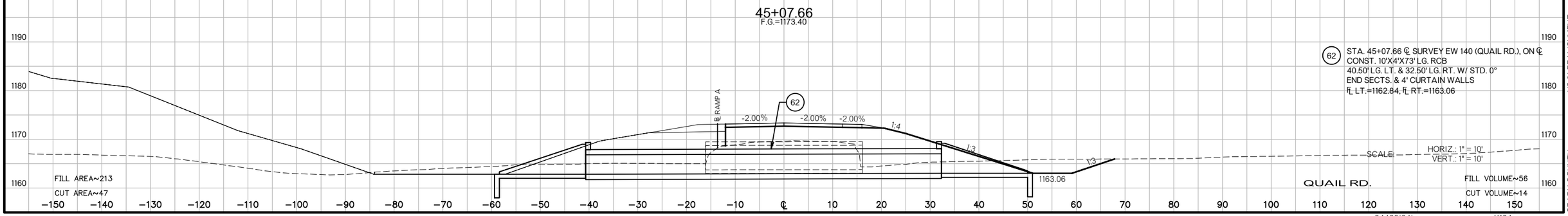
46+59.93
F.G.=1177.53



46+00
F.G.=1175.74



45+07.66
F.G.=1173.40



62 STA. 45+07.66 ℄ SURVEY EW 140 (QUAIL RD.), ON ℄
CONST. 10'X4'X73' LG. RCB
40.50' LG. LT. & 32.50' LG. RT. W/ STD. 0°
END SECTS. & 4' CURTAIN WALLS
FL LT.=1162.84, FL RT.=1163.06

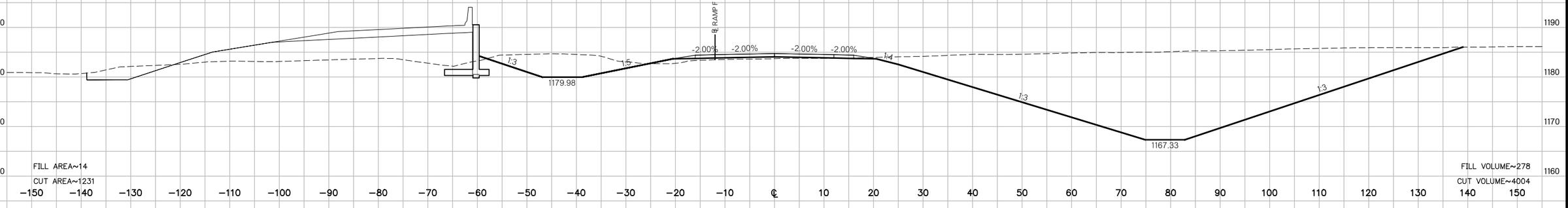
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X194

PROPOSED
R/W
AUGUST 2017

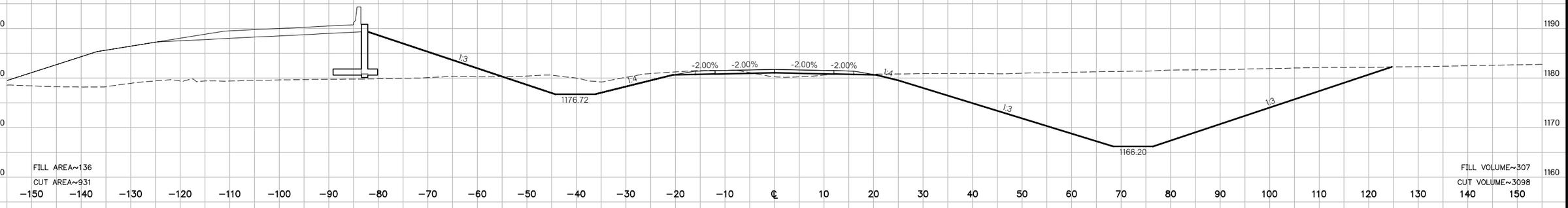
49+00
F.G.=1184.72



FILL AREA~14
CUT AREA~1231

FILL VOLUME~278
CUT VOLUME~4004

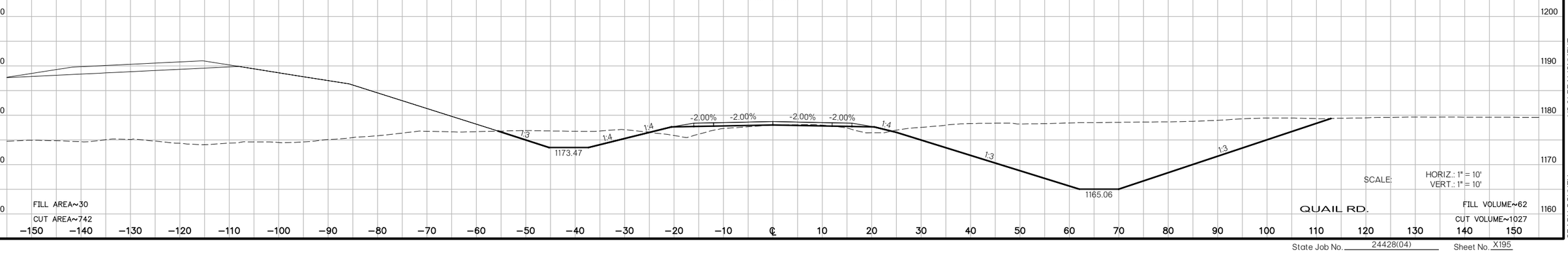
48+00
F.G.=1181.73



FILL AREA~136
CUT AREA~931

FILL VOLUME~307
CUT VOLUME~3098

47+00
F.G.=1178.73



FILL AREA~30
CUT AREA~742

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

QUAIL RD.

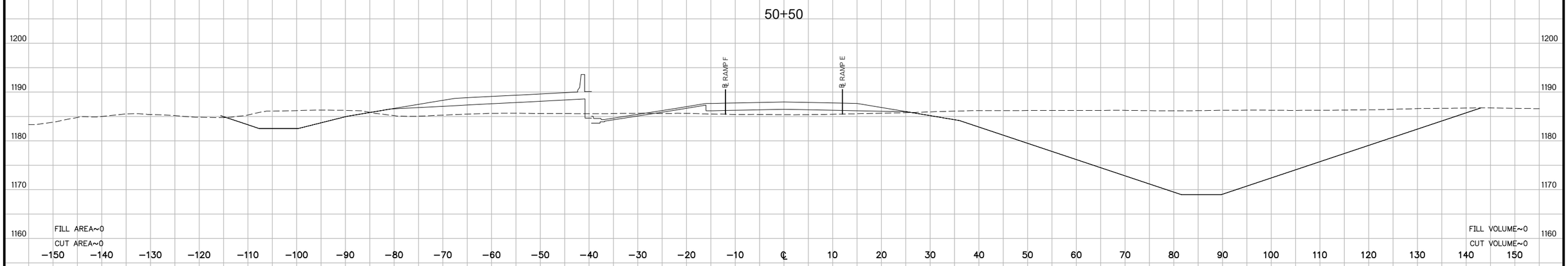
FILL VOLUME~62
CUT VOLUME~1027

US 81 REALIGNMENT
GRADY COUNTY

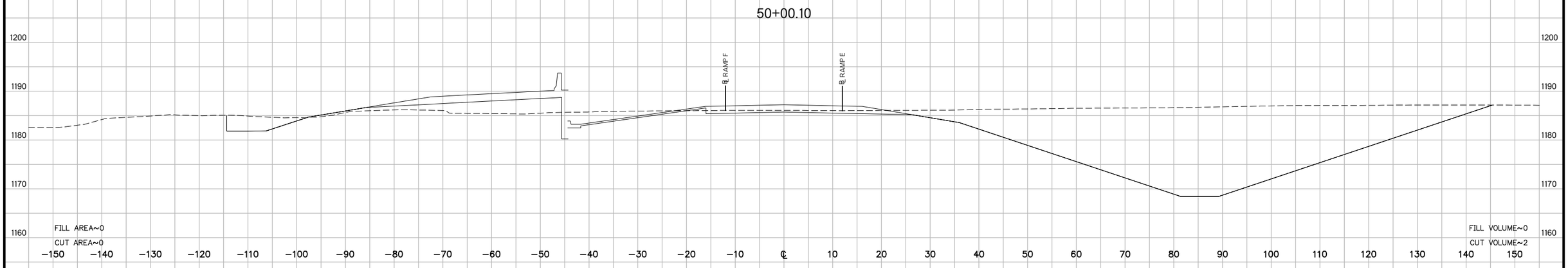
State Job No. 24428(04) Sheet No. X195

PROPOSED
R/W
AUGUST 2017

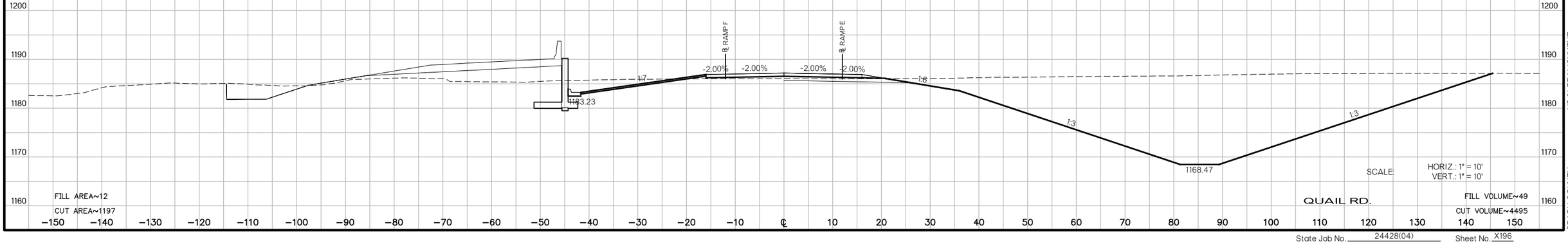
50+50



50+00.10



END PROJECT
50+00
F.G.=1187.22



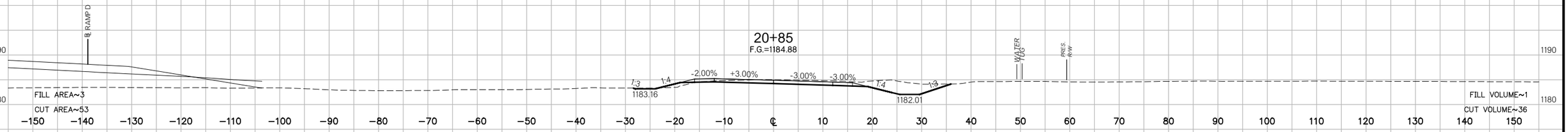
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

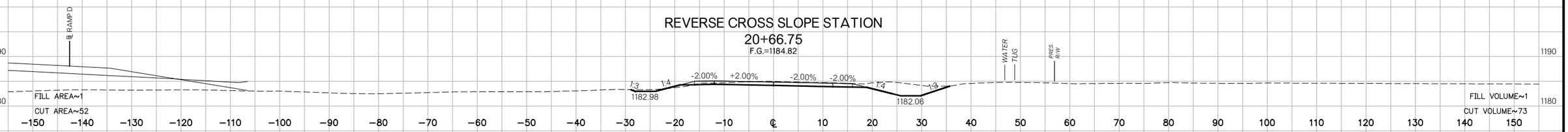
QUAIL RD.

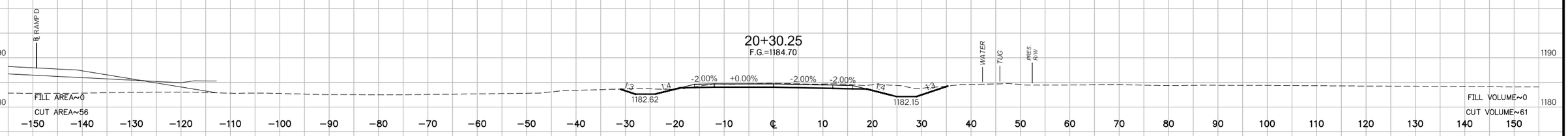
US 81 REALIGNMENT
GRADY COUNTY

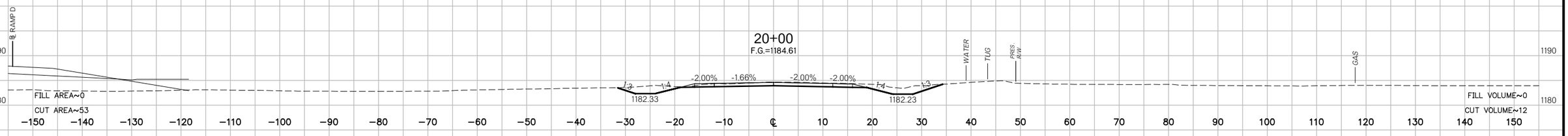
State Job No. 24428(04) Sheet No. X196

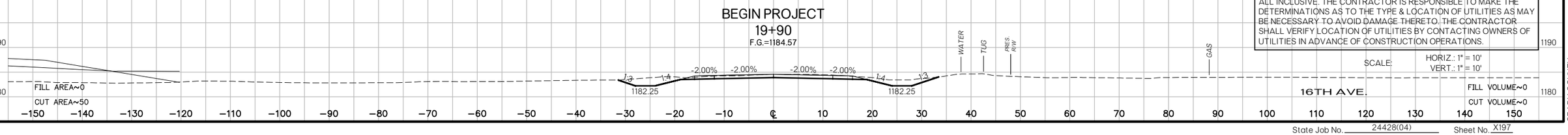
PROPOSED
R/W
AUGUST 2017











THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPES & LOCATIONS OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE TO MAKE THE DETERMINATIONS AS TO THE TYPE & LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING OWNERS OF UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS.

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

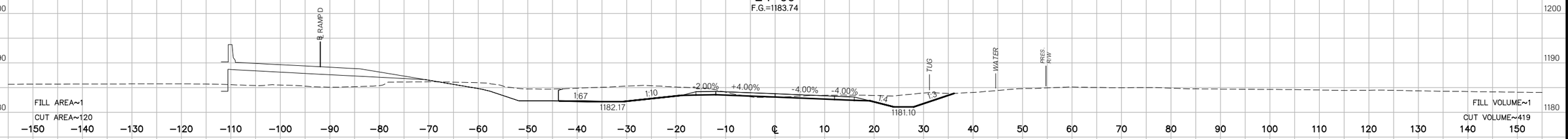
16TH AVE.

US 81 REALIGNMENT
GRADY COUNTY

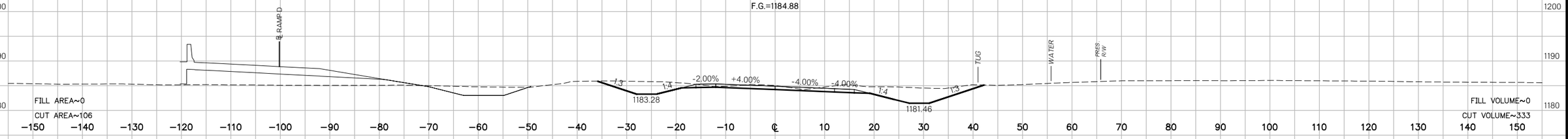
State Job No. 24428(04) Sheet No. X197

PROPOSED
R/W
AUGUST 2017

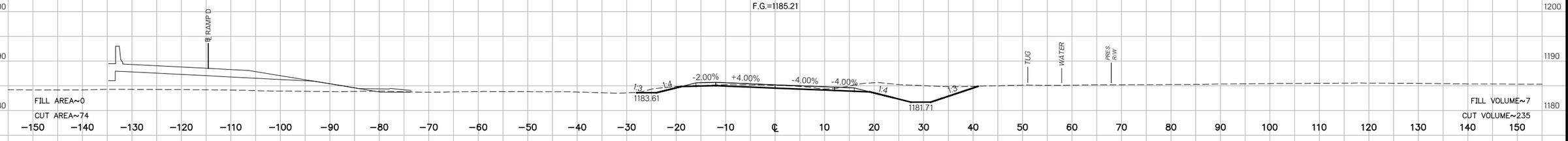
24+00
F.G.=1183.74



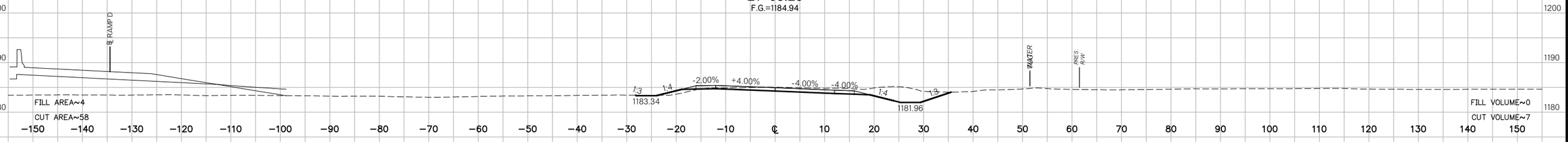
23+00
F.G.=1184.88



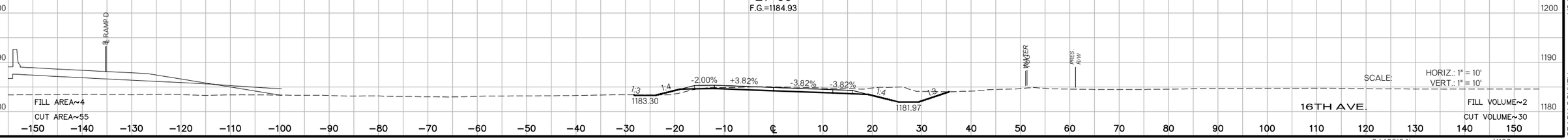
22+00
F.G.=1185.21



BEGIN FULL SUPERELEVATION
21+03.25
F.G.=1184.94



21+00
F.G.=1184.93

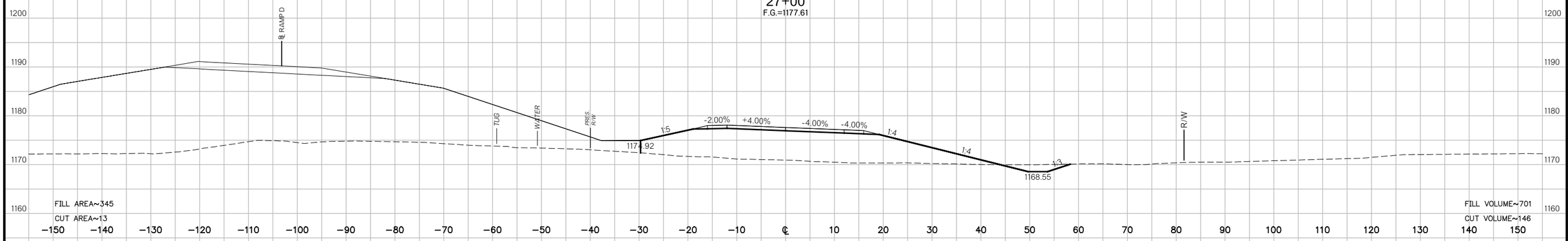


US 81 REALIGNMENT
GRADY COUNTY

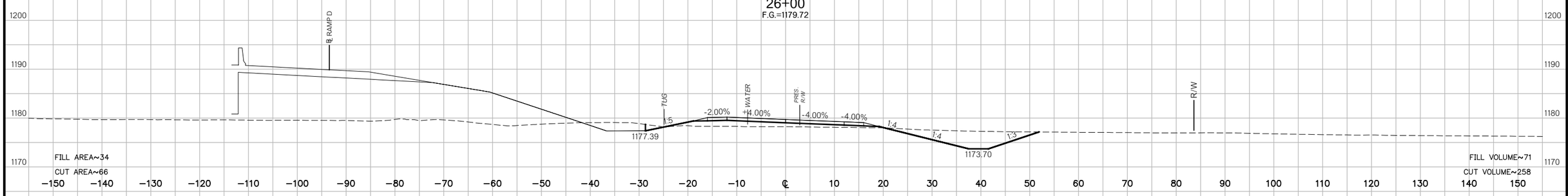
State Job No. 24428(04) Sheet No. X198

PROPOSED
R/W
AUGUST 2017

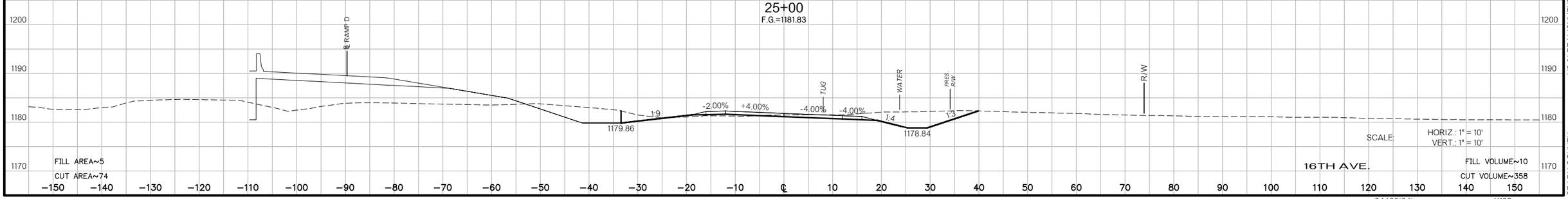
27+00
F.G.=1177.61



26+00
F.G.=1179.72



25+00
F.G.=1181.83



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

16TH AVE.

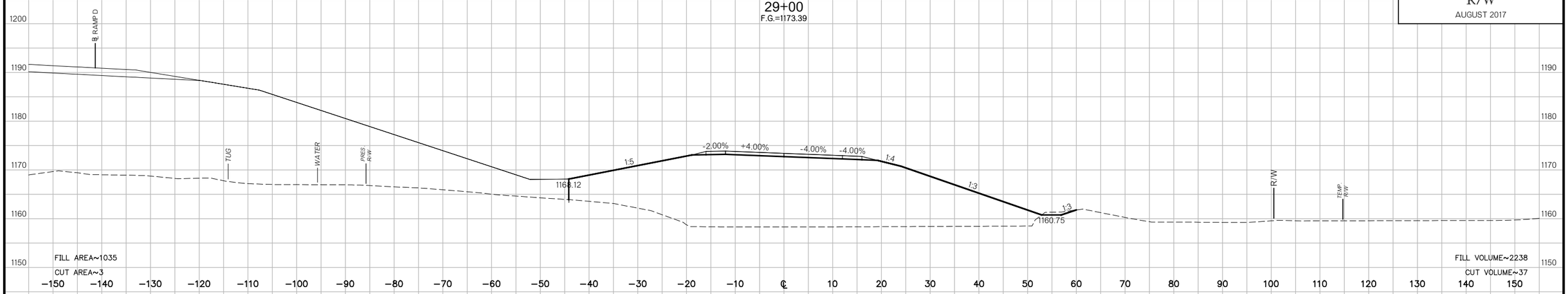
US 81 REALIGNMENT

GRADY COUNTY

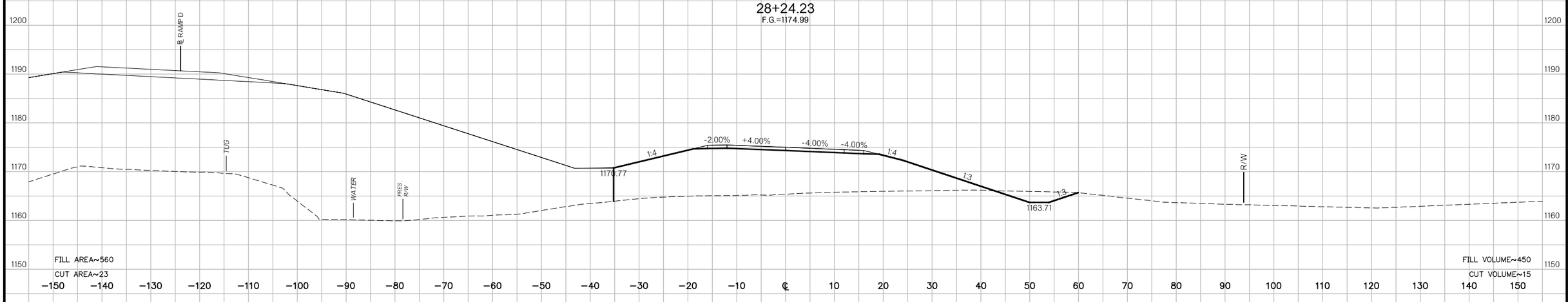
State Job No. 24428(04) Sheet No. X199

PROPOSED
R/W
AUGUST 2017

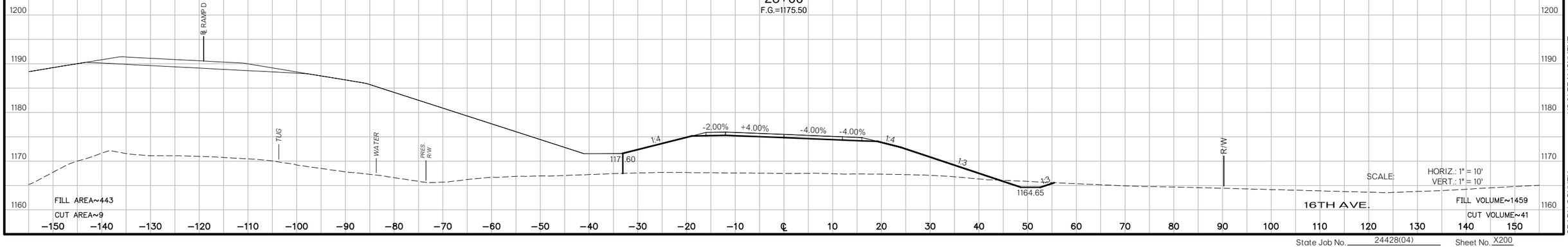
29+00
F.G.=1173.39



28+24.23
F.G.=1174.99



28+00
F.G.=1175.50

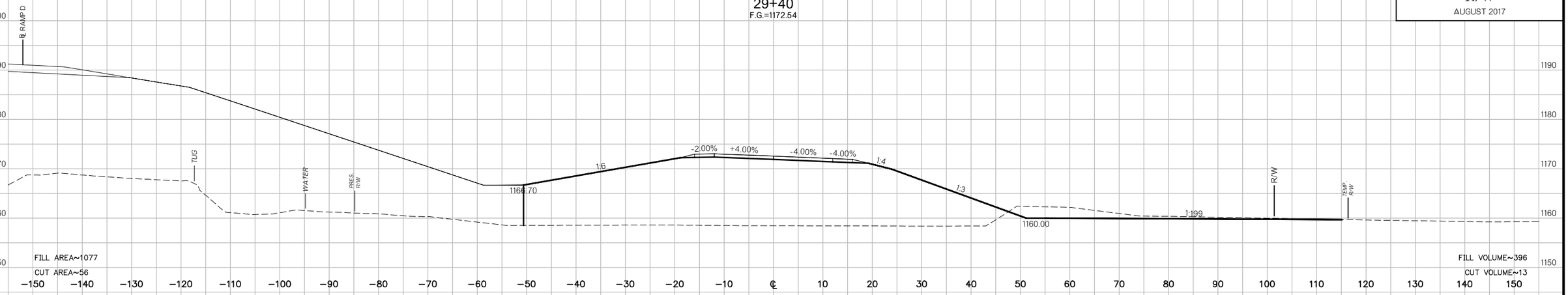


US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X200

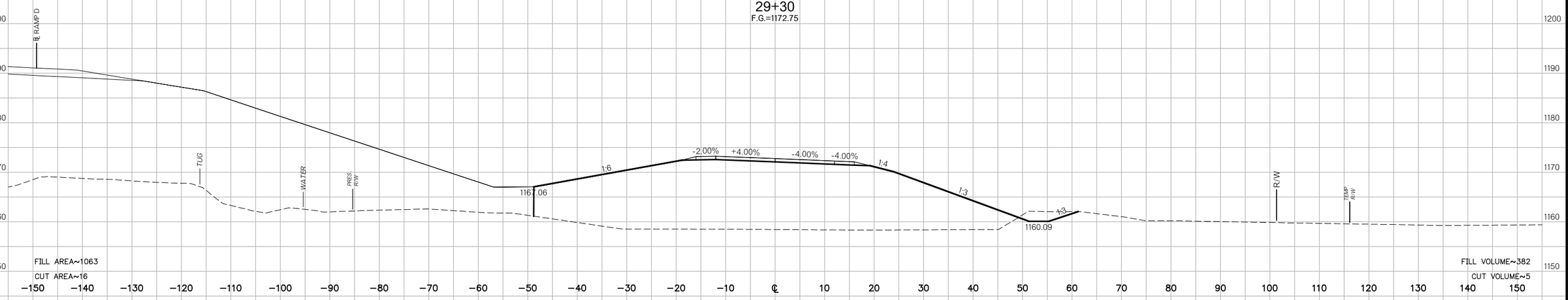
PROPOSED
R/W
AUGUST 2017

29+40
F.G.=1172.54



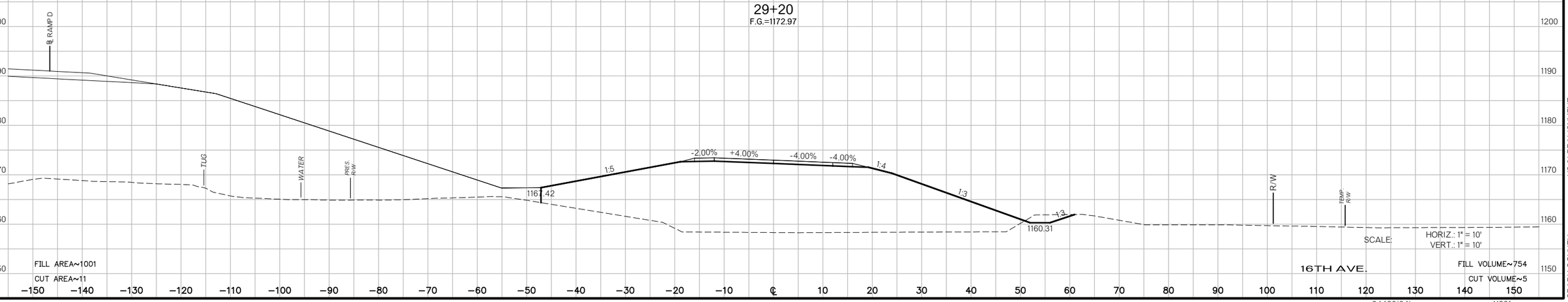
FILL AREA~1077
CUT AREA~56
FILL VOLUME~396
CUT VOLUME~13

29+30
F.G.=1172.75



FILL AREA~1063
CUT AREA~16
FILL VOLUME~382
CUT VOLUME~5

29+20
F.G.=1172.97



FILL AREA~1001
CUT AREA~11
FILL VOLUME~754
CUT VOLUME~5

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

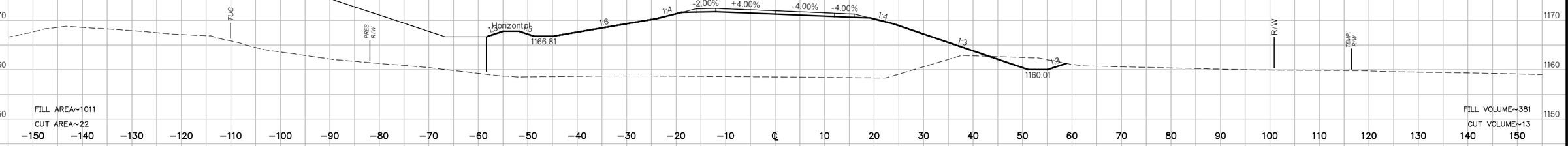
16TH AVE.

US 81 REALIGNMENT
GRADY COUNTY

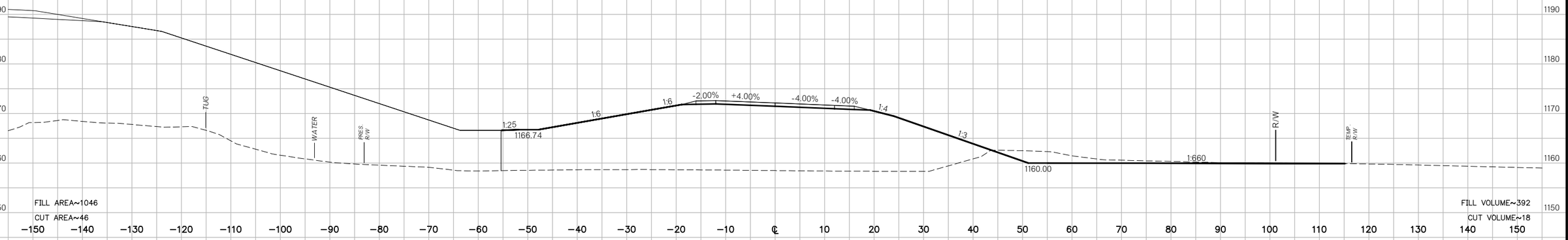
State Job No. 24428(04) Sheet No. X201

PROPOSED
R/W
AUGUST 2017

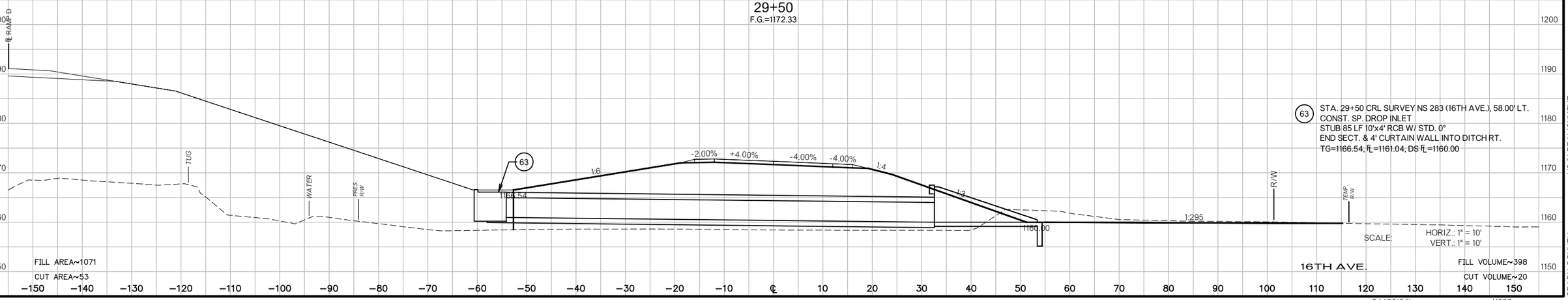
29+70
F.G.=1171.91



29+60
F.G.=1172.12



29+50
F.G.=1172.33



(63) STA. 29+50 CRL SURVEY NS 283 (16TH AVE.), 58.00' LT.
CONST. SP. DROP INLET
STUB 85 LF 10'x4' RCB W/ STD. 0°
END SECT. & 4' CURTAIN WALL INTO DITCH RT.
TG=1166.54; FL=1161.04; DS FL=1160.00

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

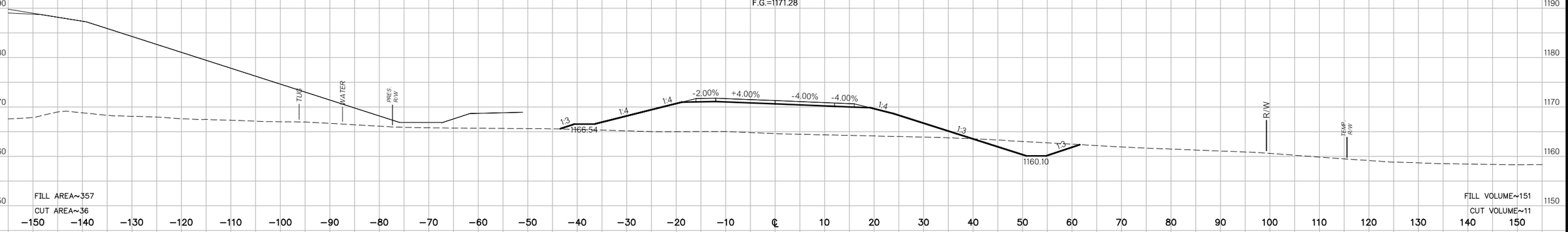
16TH AVE.

US 81 REALIGNMENT
GRADY COUNTY

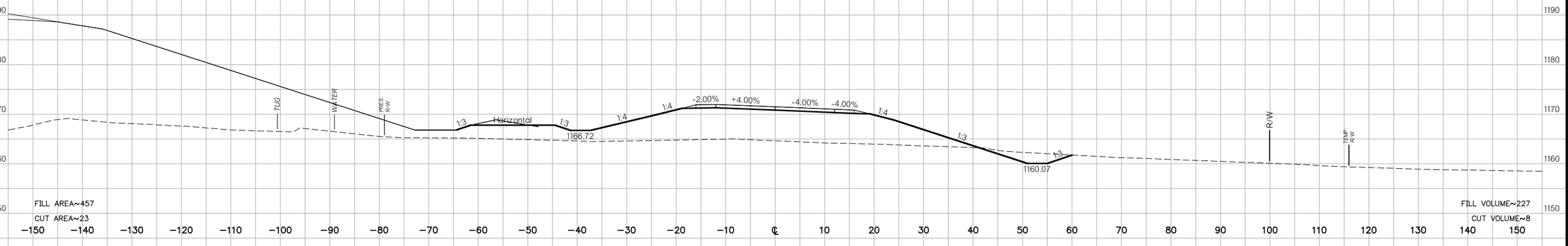
State Job No. 24428(04) Sheet No. X202

PROPOSED
R/W
AUGUST 2017

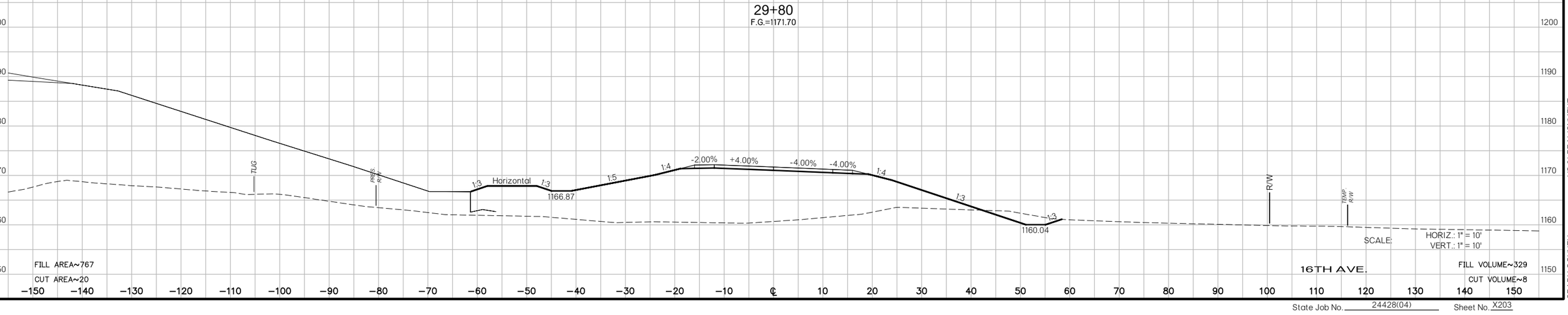
30+00
F.G.=1171.28



29+90
F.G.=1171.49



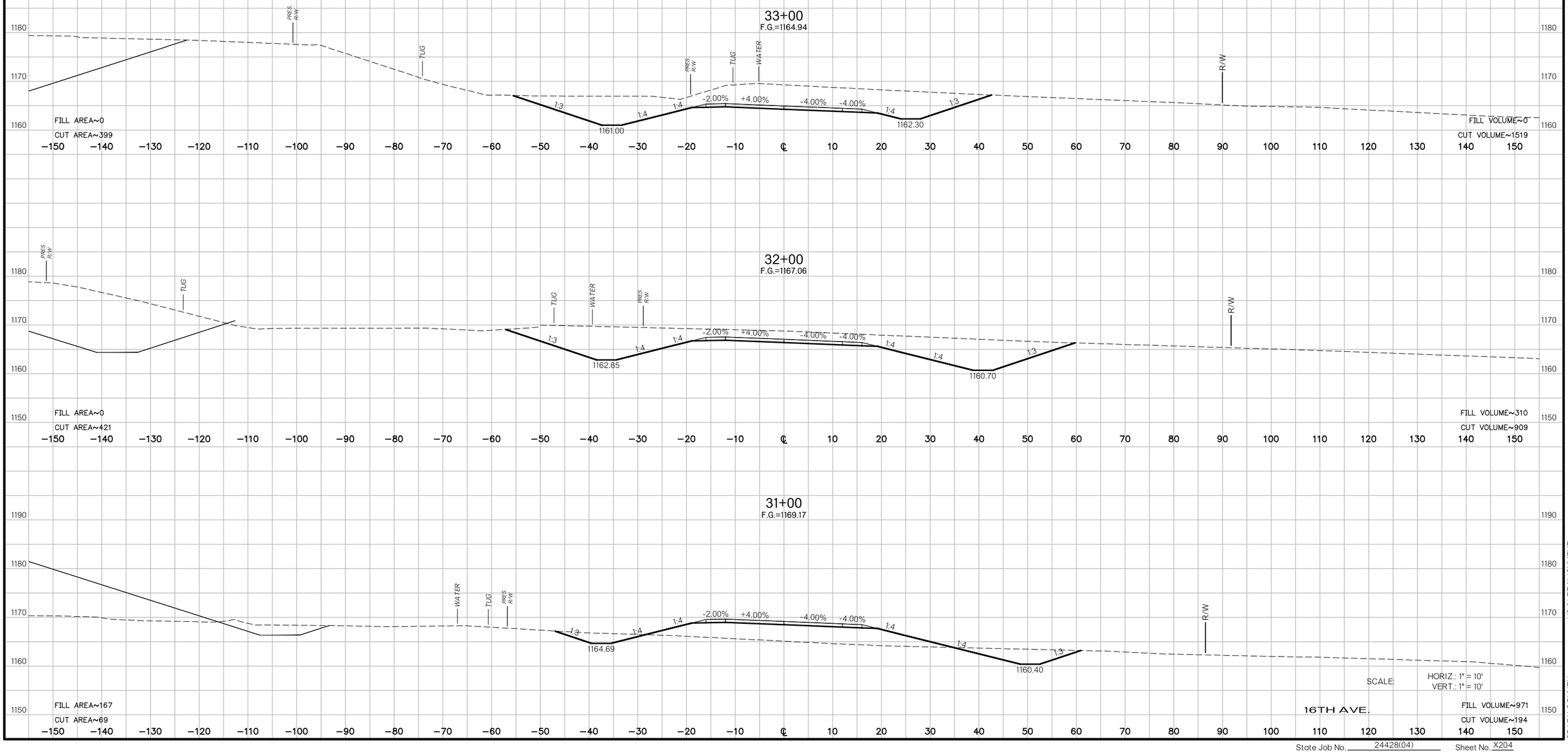
29+80
F.G.=1171.70



US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X203

PROPOSED
R/W
AUGUST 2017



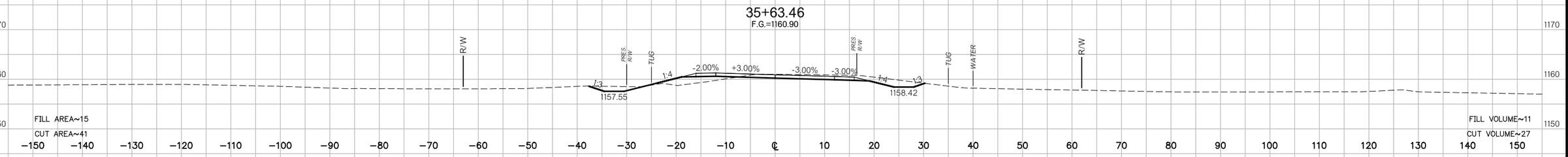
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

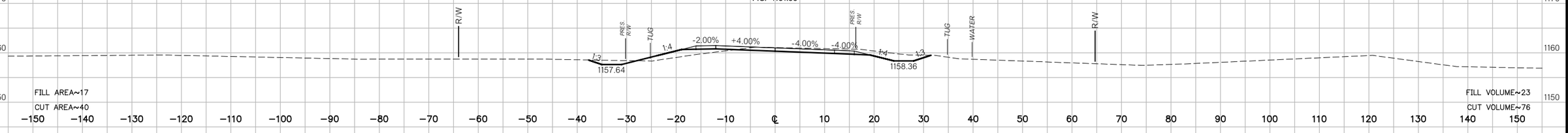
16TH AVE.

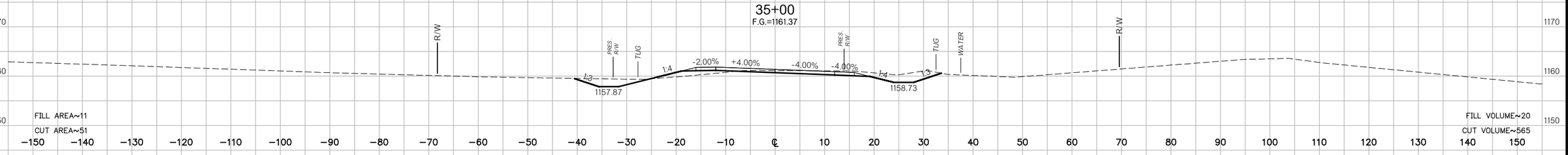
US 81 REALIGNMENT
GRADY COUNTY

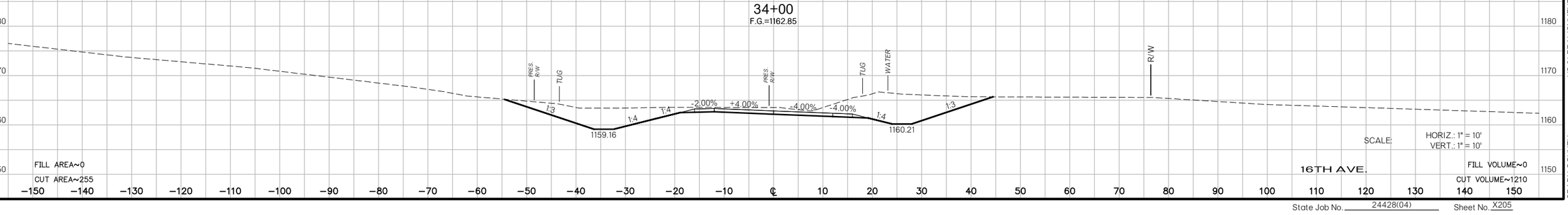
State Job No. 24428(04) Sheet No. X204

PROPOSED
R/W
AUGUST 2017









SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

16TH AVE.

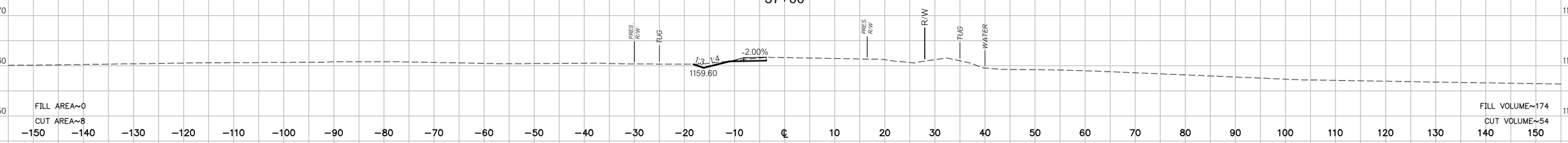
US 81 REALIGNMENT

GRADY COUNTY

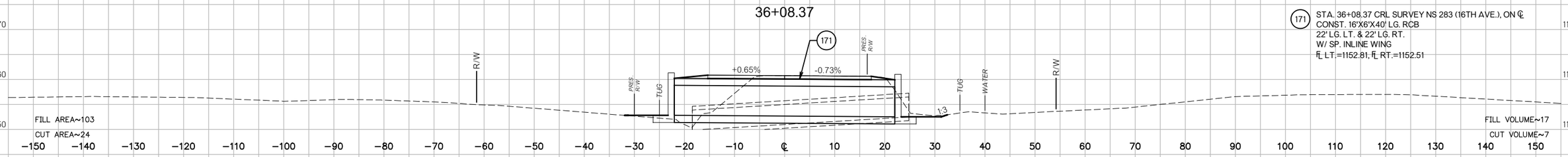
State Job No. 24428(04) Sheet No. X205

PROPOSED
R/W
AUGUST 2017

37+00

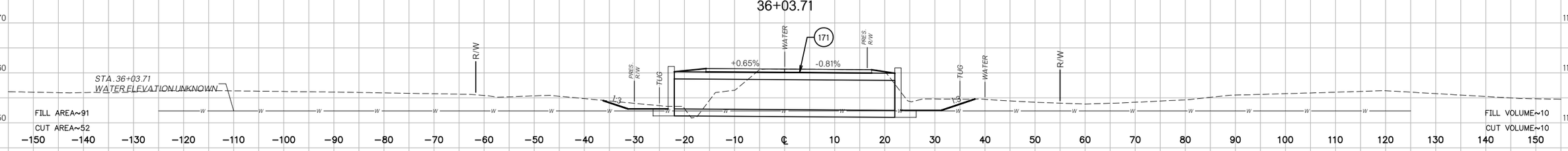


36+08.37

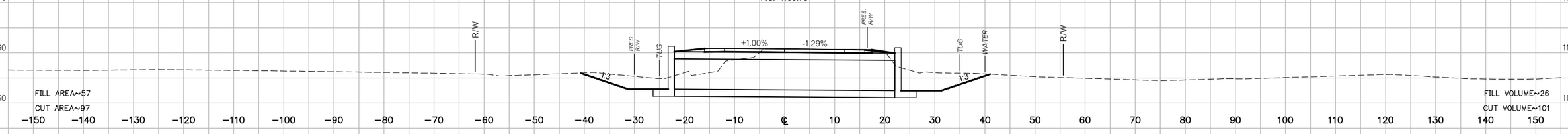


(171) STA. 36+08.37 CRL SURVEY NS 283 (16TH AVE.), ON ℄
CONST. 16'X6'X40' LG. RCB
22' LG. LT. & 22' LG. RT.
W/ SP. INLINE WING
℄ LT.=1152.81, ℄ RT.=1152.51

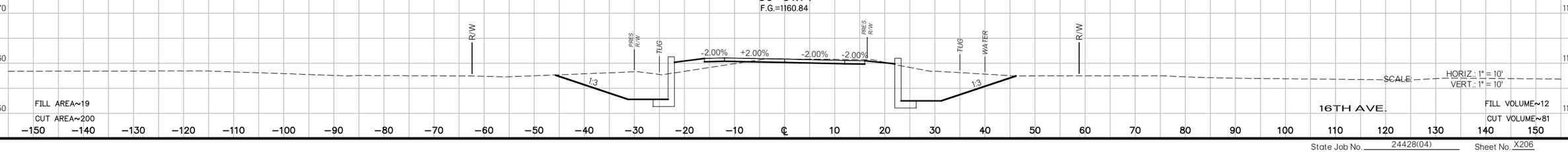
36+03.71



BEGIN INCIDENTAL
36+00
F.G.=1160.78



REVERSE CROSS SLOPE STATION
35+81.71
F.G.=1160.84



SCALE HORIZ.: 1" = 10'
VERT.: 1" = 10'

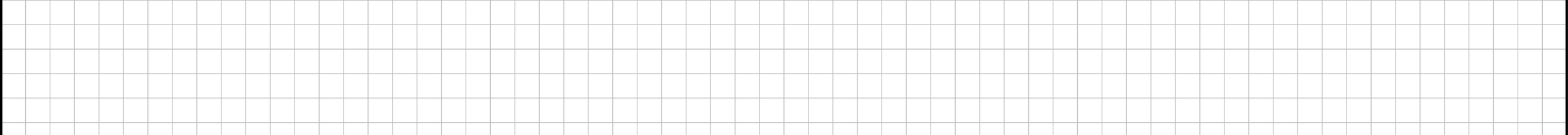
16TH AVE.

US 81 REALIGNMENT
GRADY COUNTY

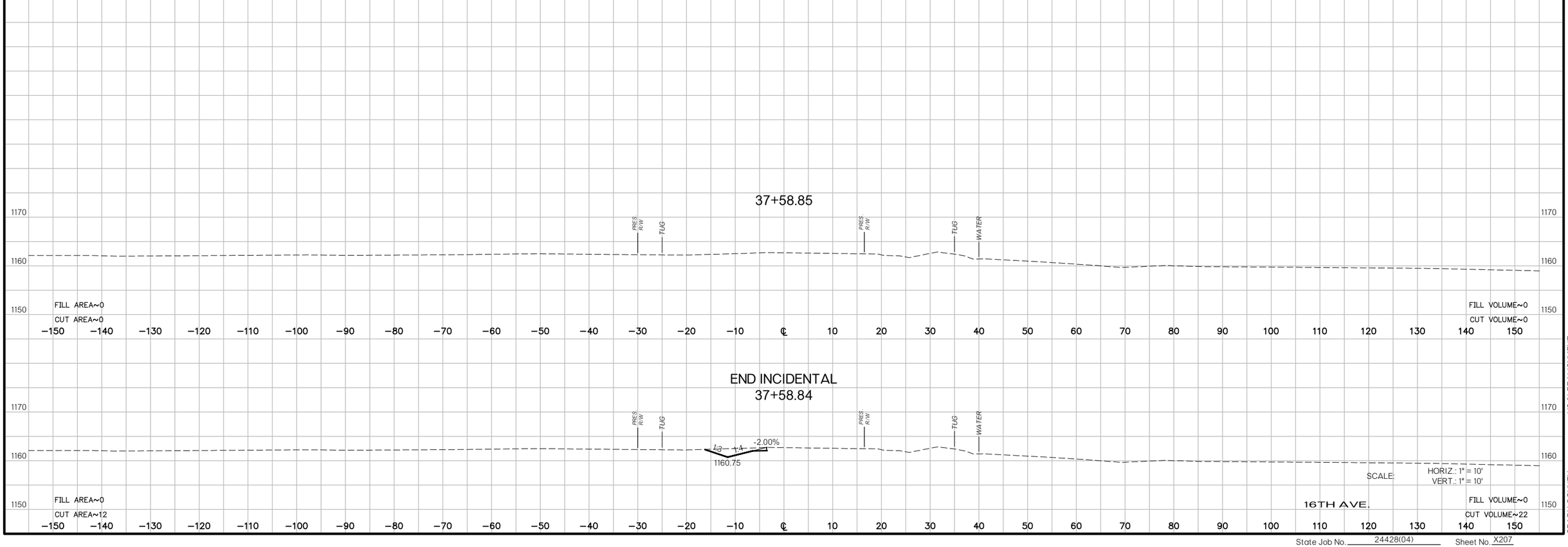
State Job No. 24428(04) Sheet No. X206

PROPOSED
R/W
AUGUST 2017

37+58.85



END INCIDENTAL
37+58.84



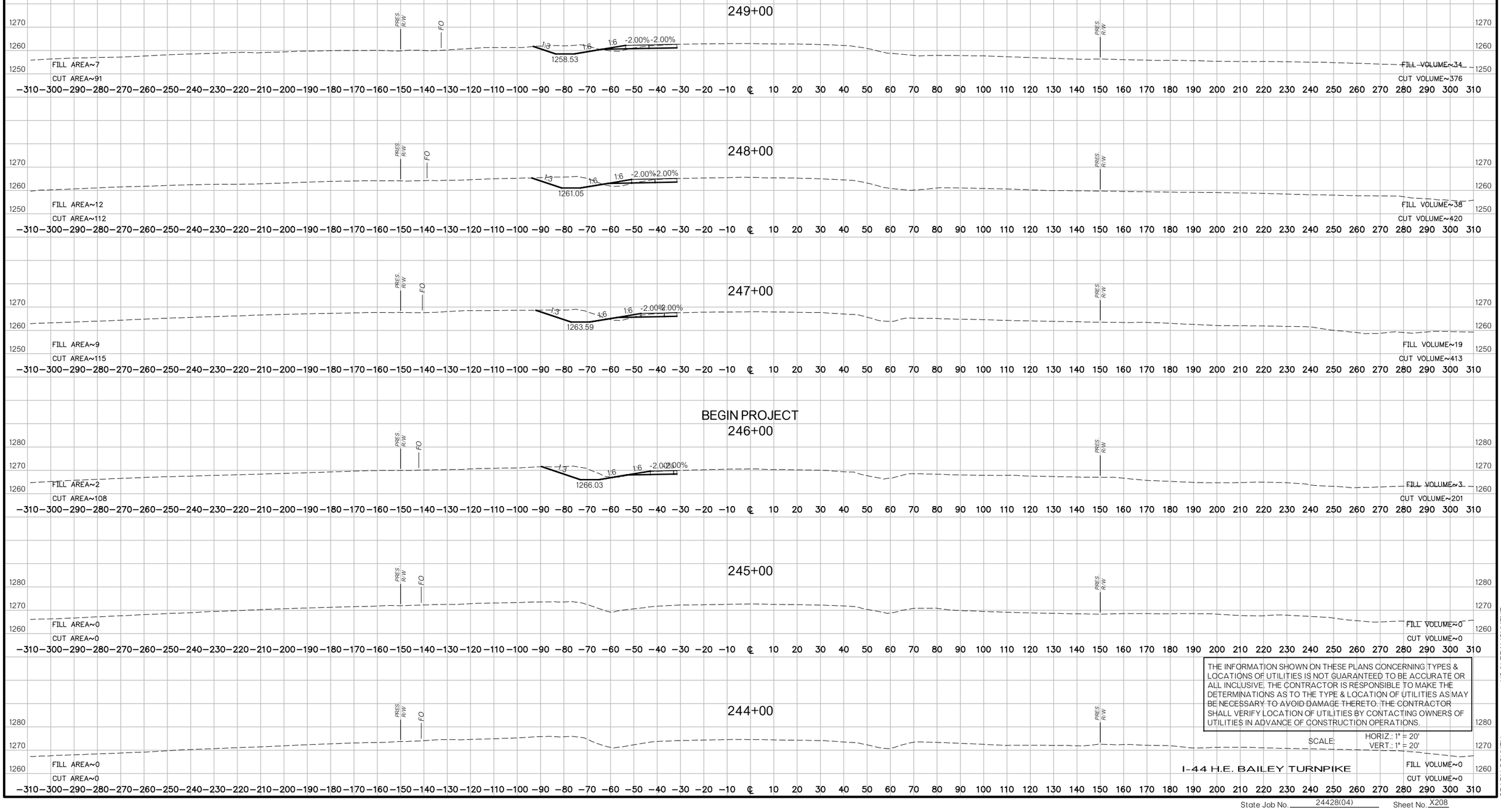
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

16TH AVE.

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X207

PROPOSED
R/W
AUGUST 2017



THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPES & LOCATIONS OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE TO MAKE THE DETERMINATIONS AS TO THE TYPE & LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING OWNERS OF UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS.

SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

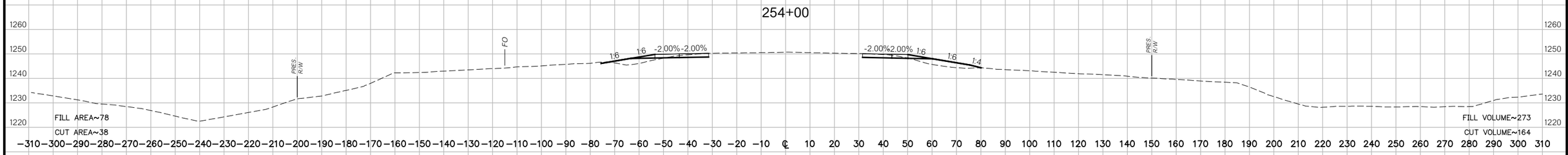
I-44 H.E. BAILEY TURNPIKE

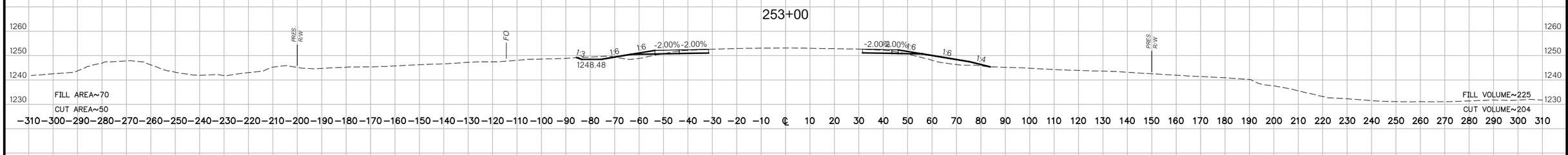
US 81 REALIGNMENT

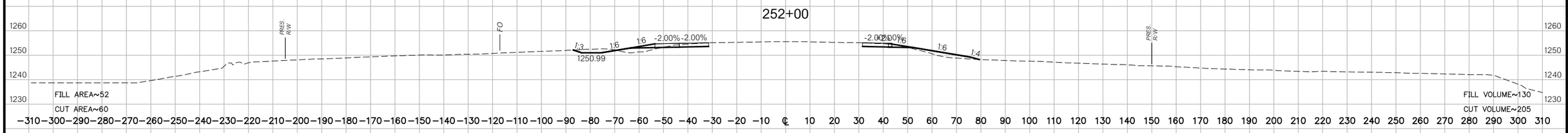
GRADY COUNTY

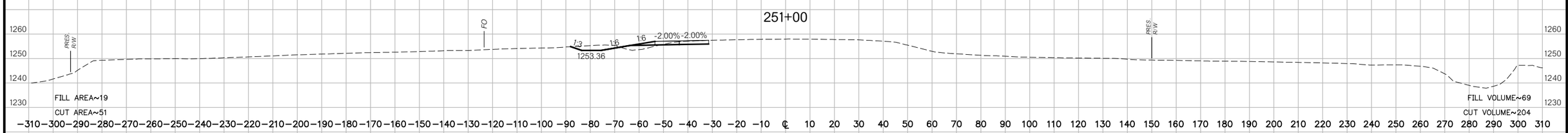
State Job No. 24428(04) Sheet No. X208

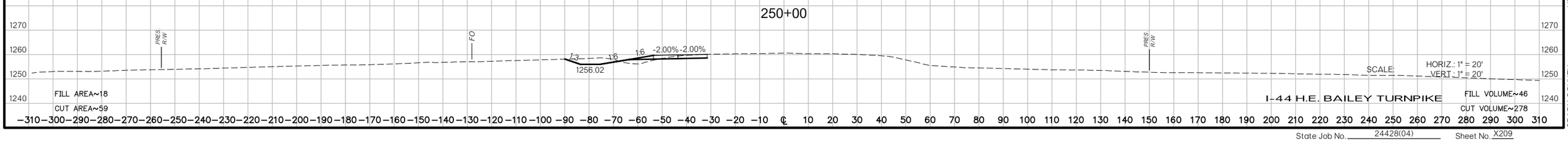
PROPOSED
R/W
AUGUST 2017









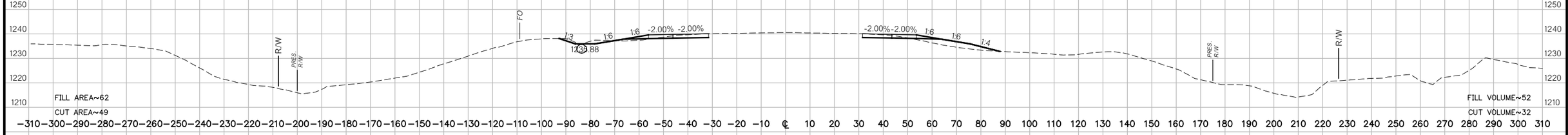


US 81 REALIGNMENT
GRADY COUNTY

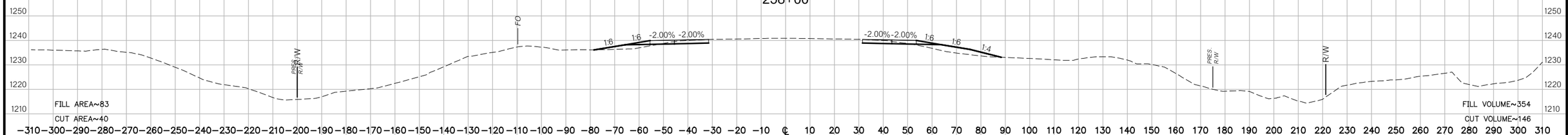
State Job No. 24428(04) Sheet No. X209

PROPOSED
R/W
AUGUST 2017

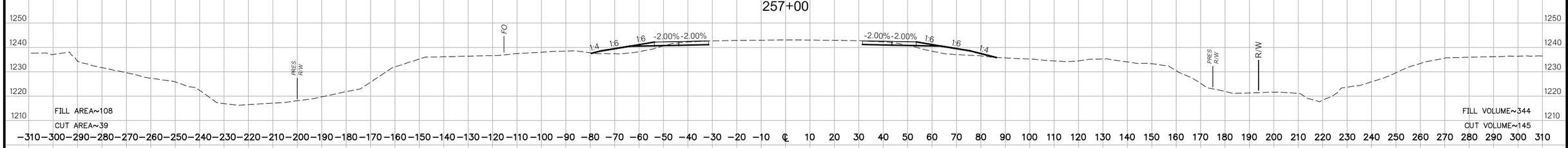
258+19.27



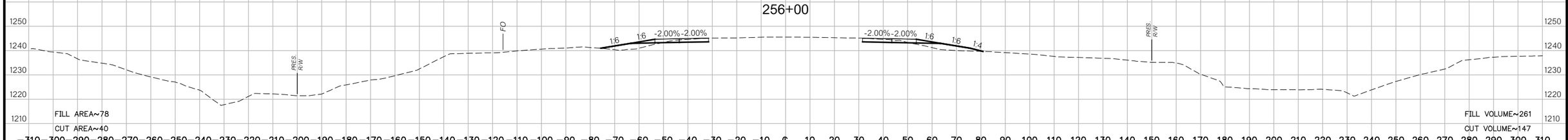
258+00



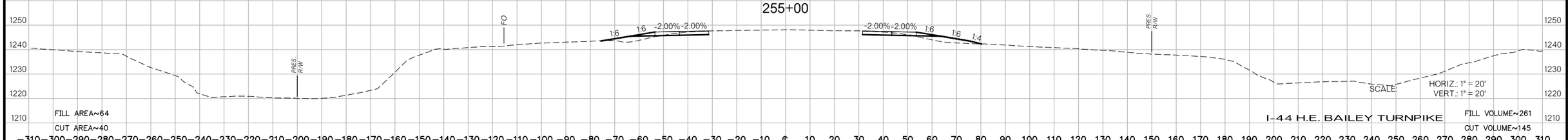
257+00



256+00



255+00



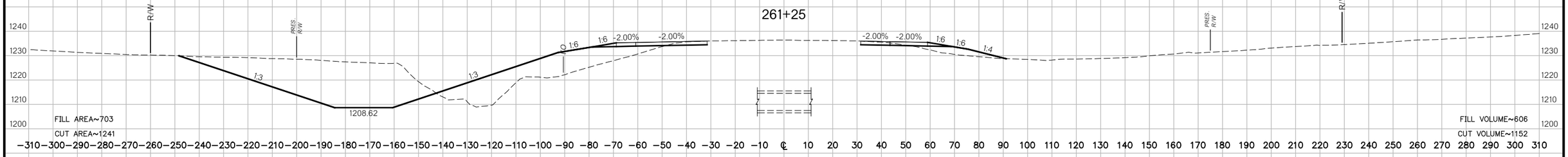
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

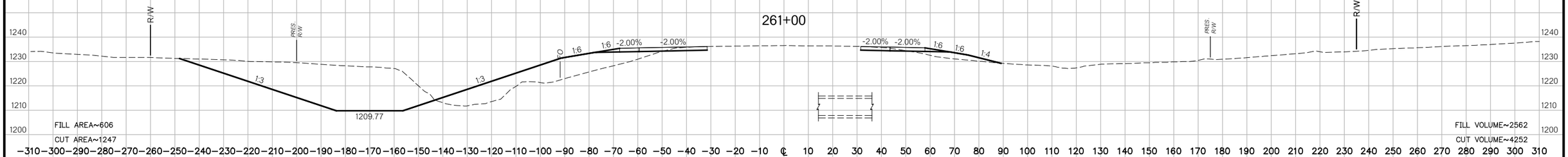
I-44 H.E. BAILEY TURNPIKE

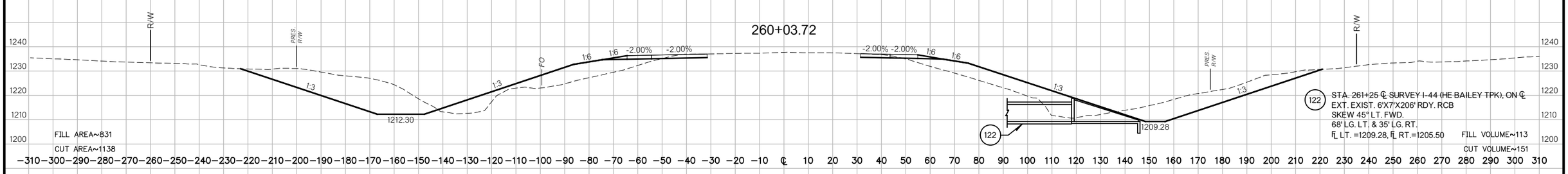
US 81 REALIGNMENT
GRADY COUNTY

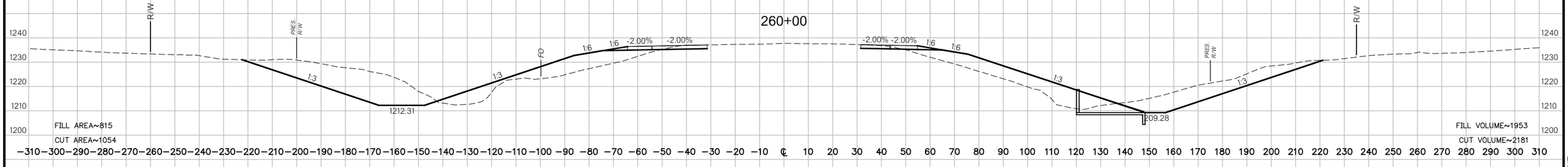
State Job No. 24428(04) Sheet No. X210

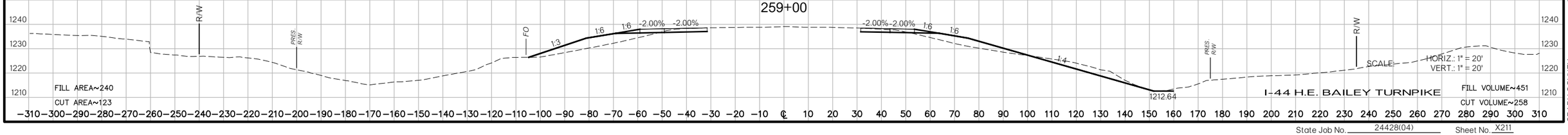
PROPOSED
R/W
AUGUST 2017









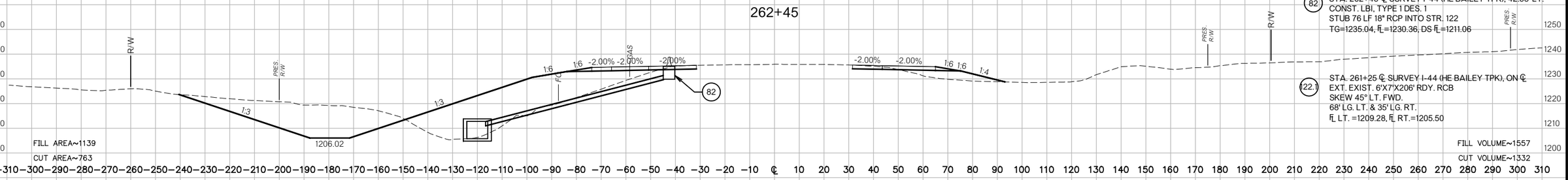


US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X211

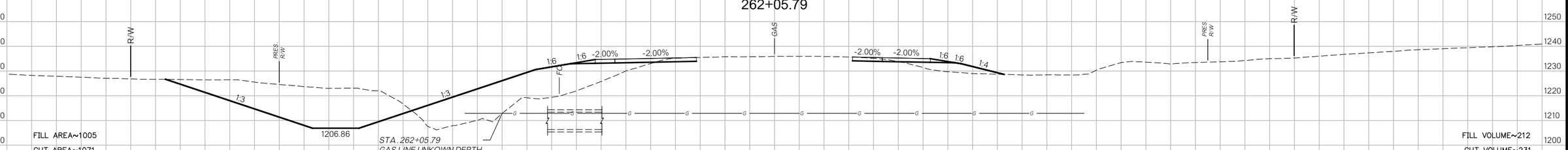
PROPOSED
R/W
AUGUST 2017

262+45



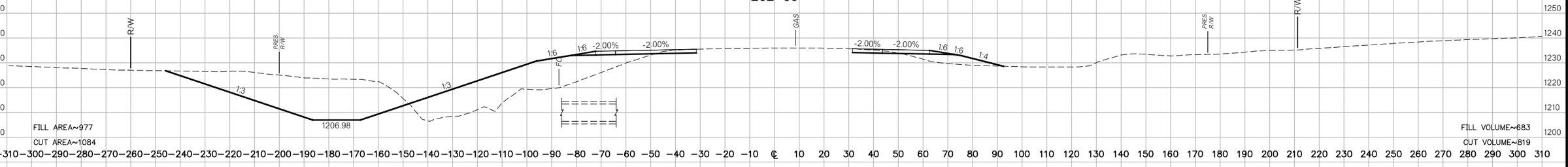
FILL AREA~1139
CUT AREA~763
FILL VOLUME~1557
CUT VOLUME~1332

262+05.79



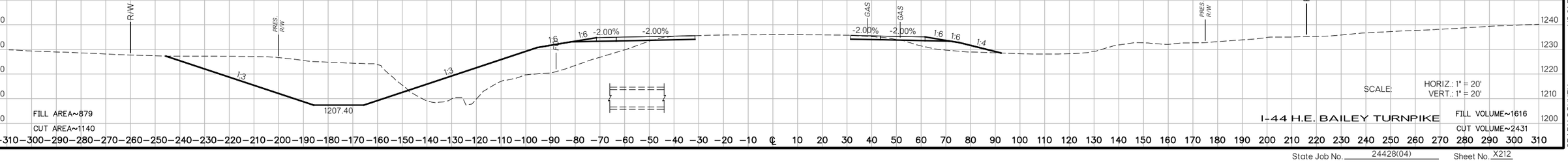
FILL AREA~1005
CUT AREA~1071
FILL VOLUME~212
CUT VOLUME~231

262+00



FILL AREA~977
CUT AREA~1084
FILL VOLUME~683
CUT VOLUME~819

261+80.13



FILL AREA~879
CUT AREA~1140
FILL VOLUME~1616
CUT VOLUME~2431

SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

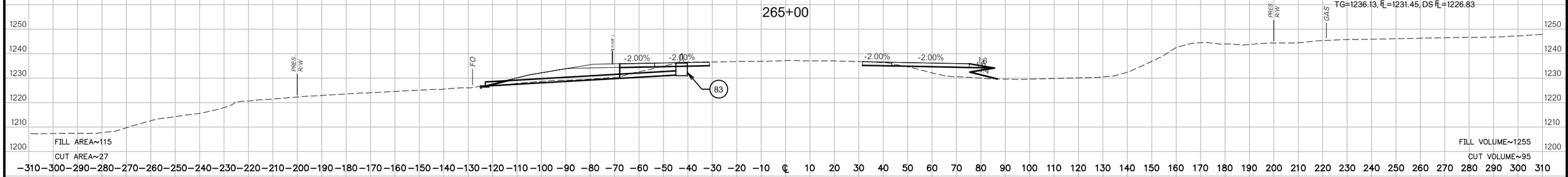
I-44 H.E. BAILEY TURNPIKE

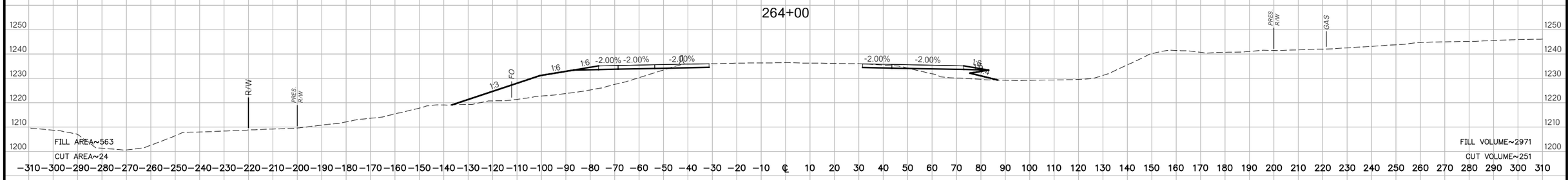
US 81 REALIGNMENT
GRADY COUNTY

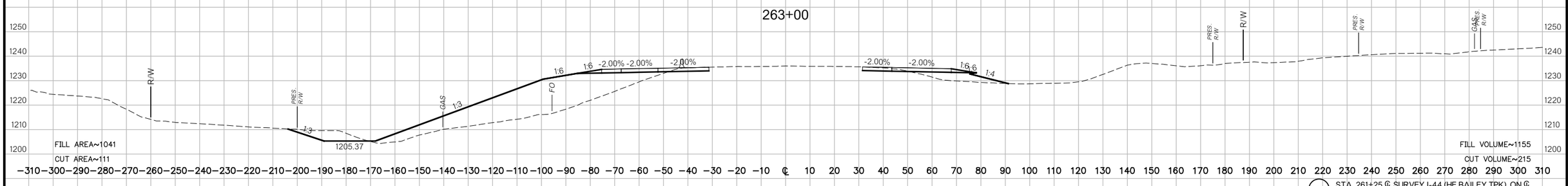
State Job No. 24428(04) Sheet No. X212

PROPOSED
R/W
AUGUST 2017

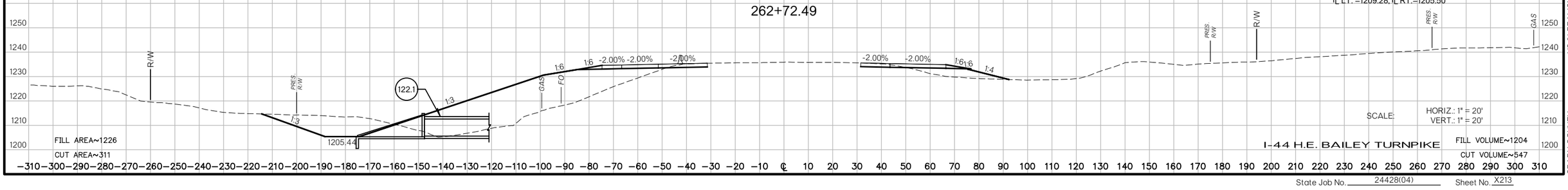
83 STA. 265+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 82 LF 18" RCP INTO DITCH LT. W/ CET
TG=1236.13, FL=1231.45, DS FL=1226.83







122.1 STA. 261+25 ℄ SURVEY I-44 (HE BAILEY TPK), ON ℄
EXT. EXIST. 6'X7'X206' RDY. RCB
SKEW 45° LT. FWD.
68' LG. LT. & 35' LG. RT.
FL LT. =1209.28, FL RT.=1205.50



SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

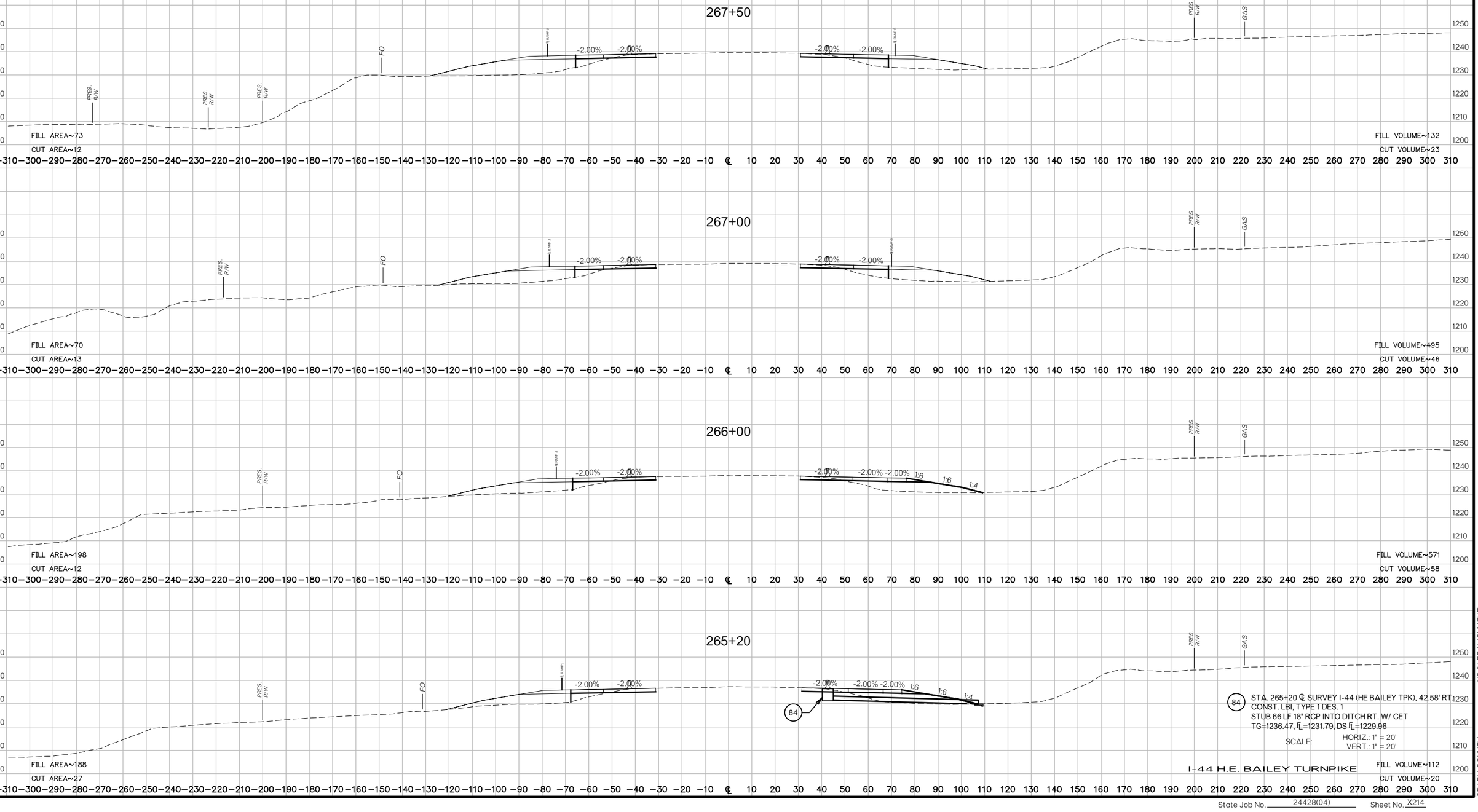
I-44 H.E. BAILEY TURNPIKE

US 81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X213

PROPOSED
R/W
AUGUST 2017



84 STA. 265+20 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 66 LF 18" RCP INTO DITCH RT. W/ CET
TG=1236.47, FL=1231.79, DS FL=1229.96

SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

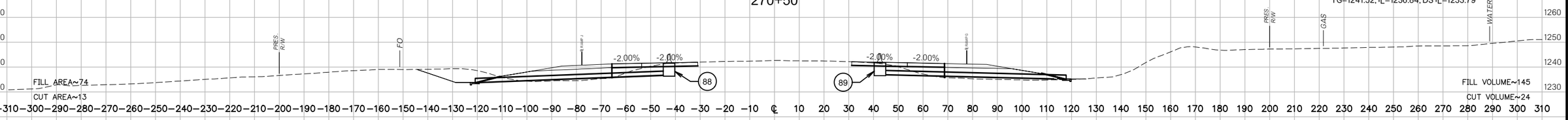
I-44 H.E. BAILEY TURNPIKE

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X214

PROPOSED
R/W
AUGUST 2017

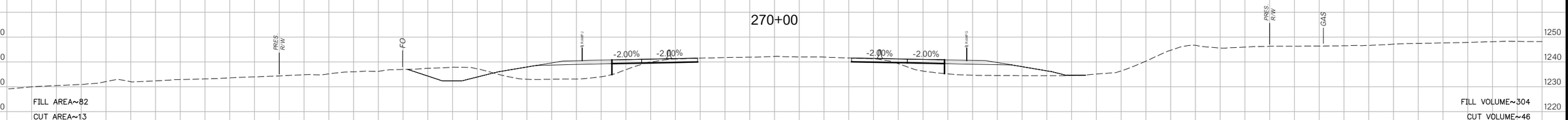
270+50



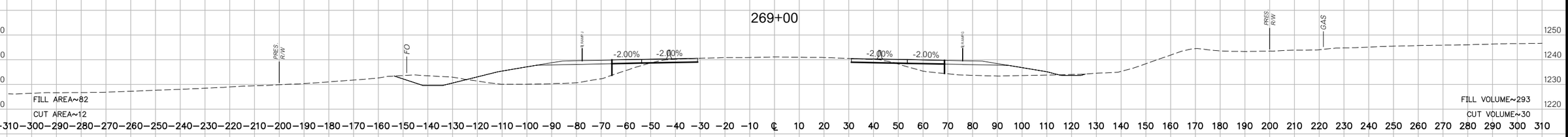
88 STA. 270+50 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 80 LF 18" RCP INTO DITCH LT. W/ CET
TG=1241.52, FL=1236.84, DS FL=1233.79

89 STA. 270+50 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 76 LF 18" RCP INTO DITCH RT. W/ CET
TG=1241.72, FL=1237.04, DS FL=1235.16

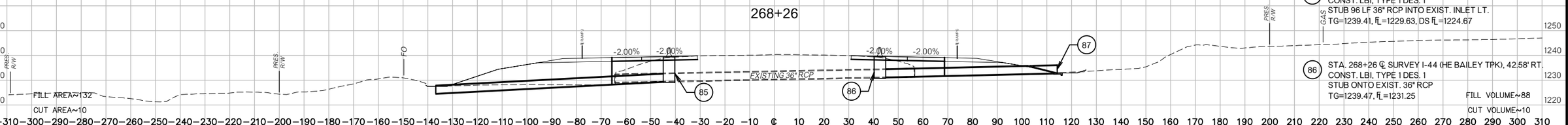
270+00



269+00



268+26

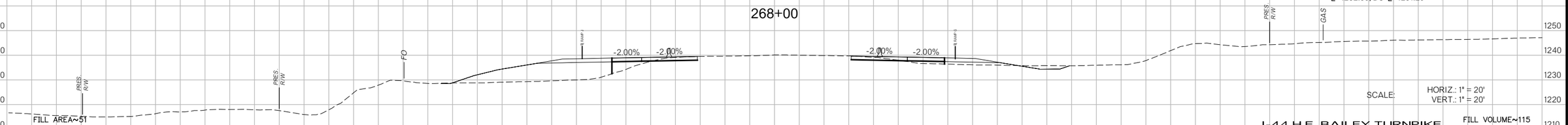


85 STA. 268+26 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 96 LF 36" RCP INTO EXIST. INLET LT.
TG=1239.41, FL=1229.63, DS FL=1224.67

86 STA. 268+26 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB ONTO EXIST. 36" RCP
TG=1239.47, FL=1231.25

87 STA. 268+26 ℄ SURVEY I-44 (HE BAILEY TPK), 114.19' RT.
CONST. D6 CET AS INLET
STUB 72 LF 36" RCP INTO STR. 86
FL=1232.89, DS FL=1231.25

268+00



SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

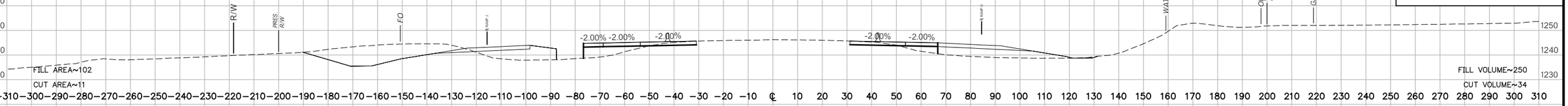
I-44 H.E. BAILEY TURNPIKE

US 81 REALIGNMENT
GRADY COUNTY

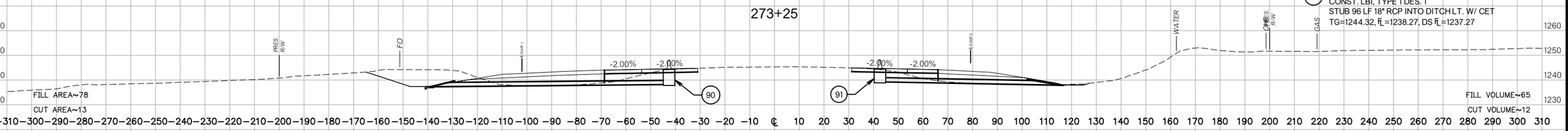
State Job No. 24428(04) Sheet No. X215

PROPOSED
R/W
AUGUST 2017

274+00



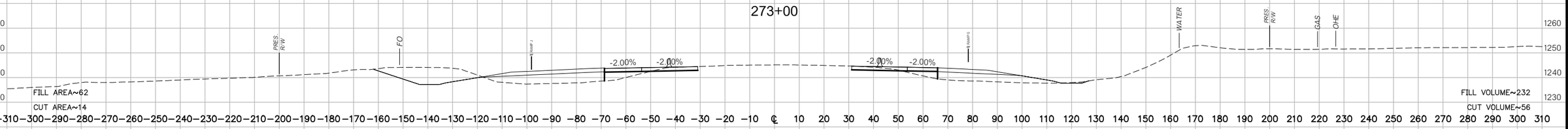
273+25



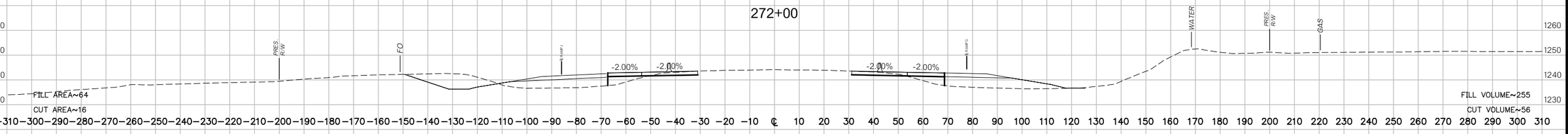
(90) STA. 273+25 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 96 LF 18" RCP INTO DITCH LT. W/ CET
TG=1244.32, FL=1238.27, DS FL=1237.27

(91) STA. 273+25 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 76 LF 18" RCP INTO DITCH RT. W/ CET
TG=1244.47, FL=1239.35, DS FL=1237.92

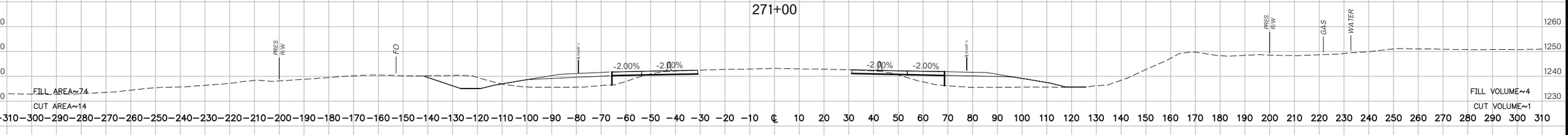
273+00



272+00



271+00



270+98.50

SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

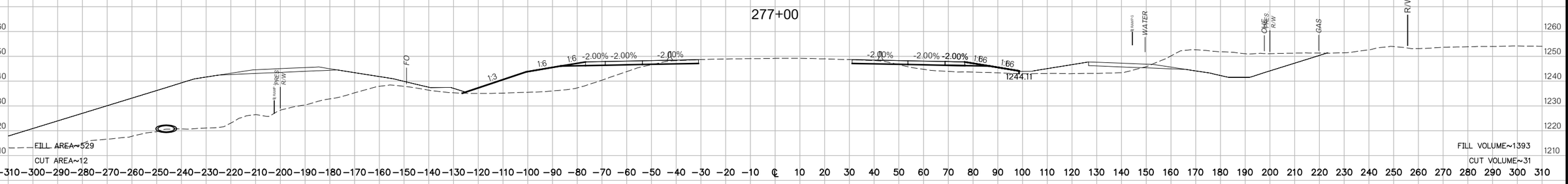
I-44 H.E. BAILEY TURNPIKE

US 81 REALIGNMENT
GRADY COUNTY

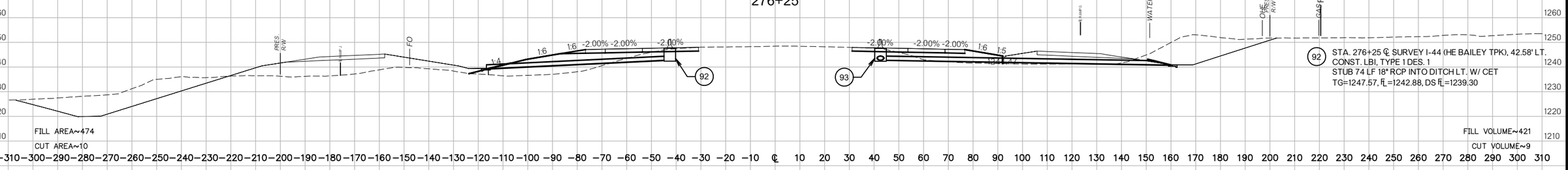
State Job No. 24428(04) Sheet No. X216

PROPOSED
R/W
AUGUST 2017

277+00



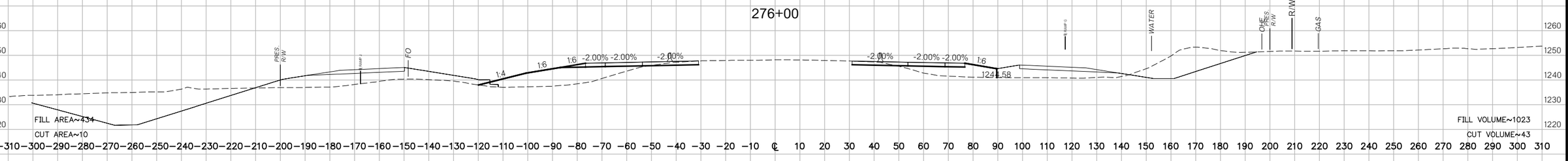
276+25



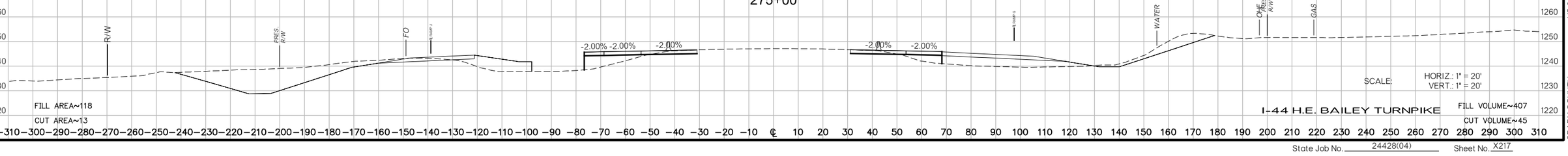
93 STA. 276+25 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 70 LF 18" RCP INTO DITCH RT. W/ CET
TG=1247.54, FL=1242.86, DS FL=1242.44

92 STA. 276+25 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 74 LF 18" RCP INTO DITCH LT. W/ CET
TG=1247.57, FL=1242.88, DS FL=1239.30

276+00



275+00



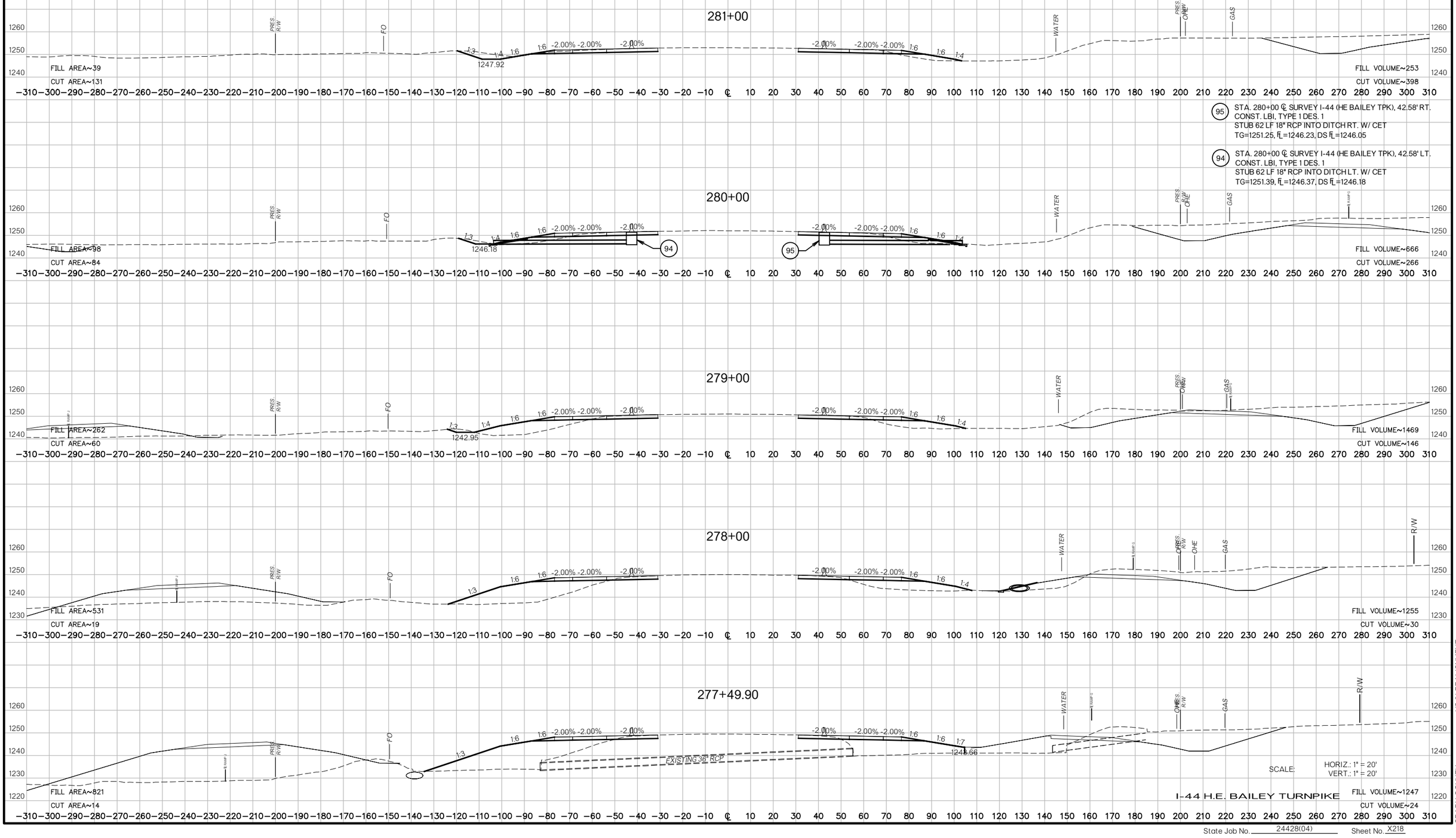
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

I-44 H.E. BAILEY TURNPIKE

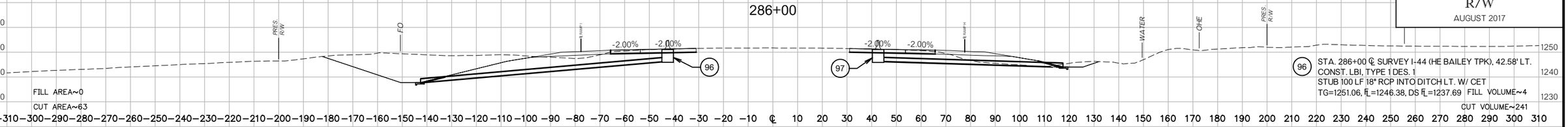
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X217

PROPOSED
R/W
AUGUST 2017

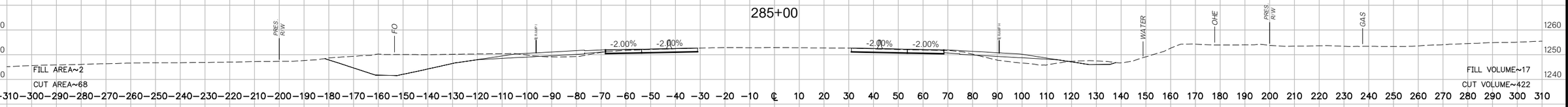


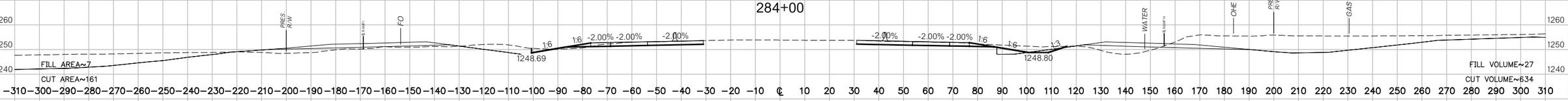
PROPOSED
R/W
AUGUST 2017

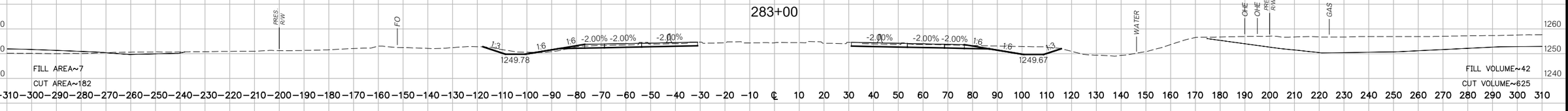


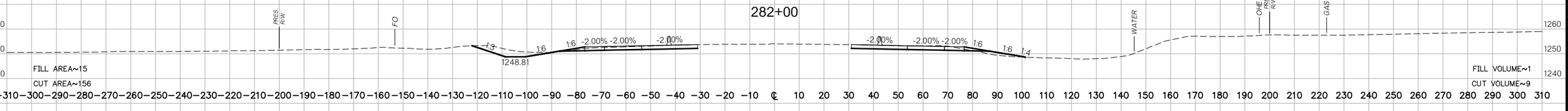
96 STA. 286+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 100 LF 18" RCP INTO DITCH LT. W/ CET
TG=1251.06, FL=1246.38, DS FL=1237.69

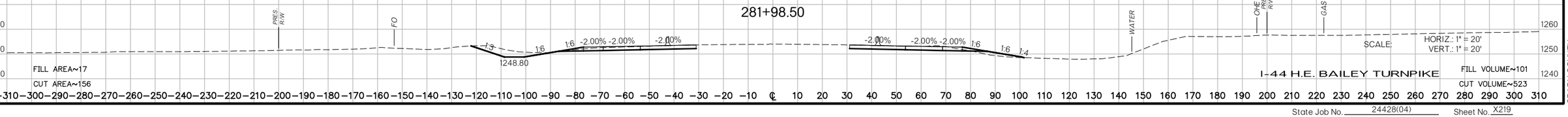
97 STA. 286+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB746 LF 18" RCP INTO DITCH LT. W/ CET
TG=1251.03, FL=1246.35, DS FL=1244.01











SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

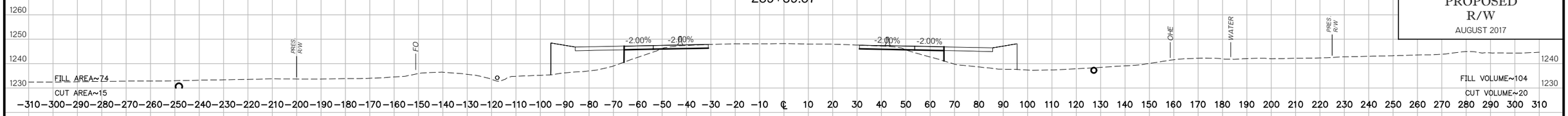
I-44 H.E. BAILEY TURNPIKE

US 81 REALIGNMENT
GRADY COUNTY

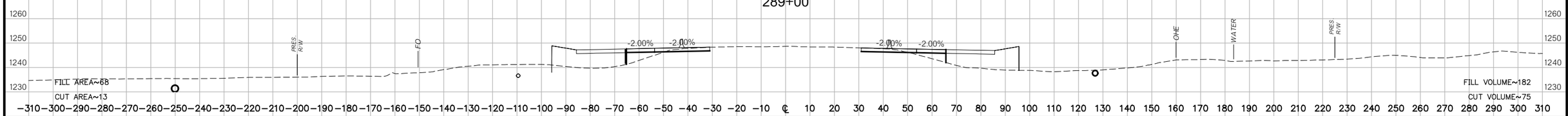
State Job No. 24428(04) Sheet No. X219

PROPOSED
R/W
AUGUST 2017

289+39.57

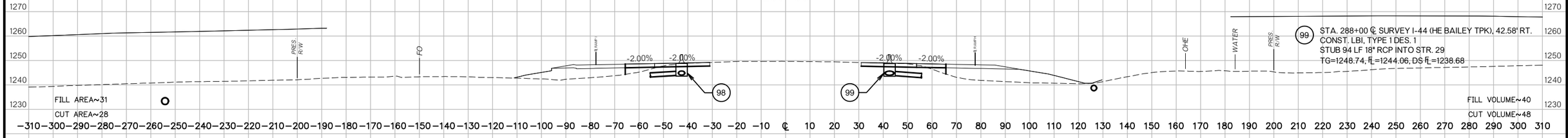


289+00



(98) STA. 288+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 146 LF 18" RCP INTO DITCH LT. W/ CET
TG=1248.79, FL=1244.11, DS FL=1234.37

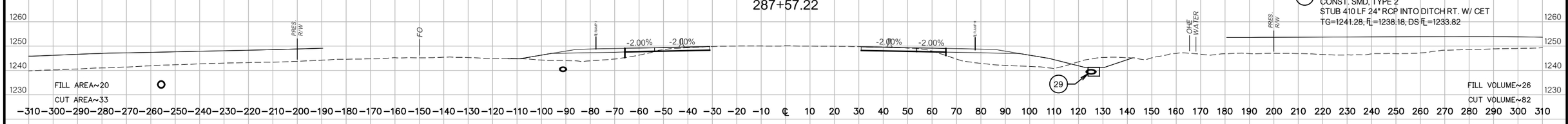
288+00



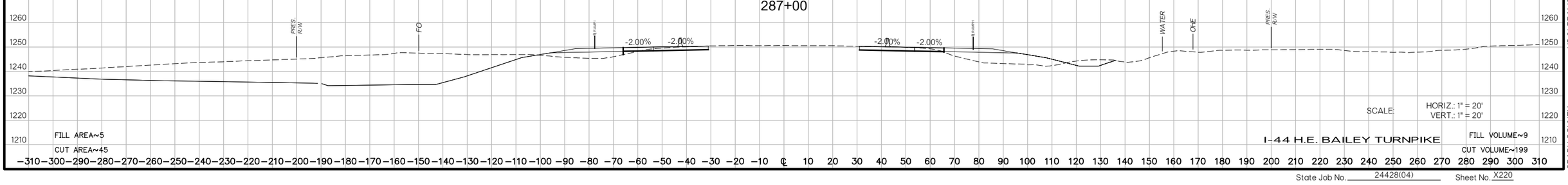
(99) STA. 288+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 94 LF 18" RCP INTO STR. 29
TG=1248.74, FL=1244.06, DS FL=1238.68

(29) STA. 195+18 ℄ SURVEY US 81, 177.62' LT.
CONST. SMD, TYPE 2
STUB 410 LF 24" RCP INTO DITCH RT. W/ CET
TG=1241.28, FL=1238.18, DS FL=1233.82

287+57.22



287+00



SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

I-44 H.E. BAILEY TURNPIKE

US 81 REALIGNMENT
GRADY COUNTY

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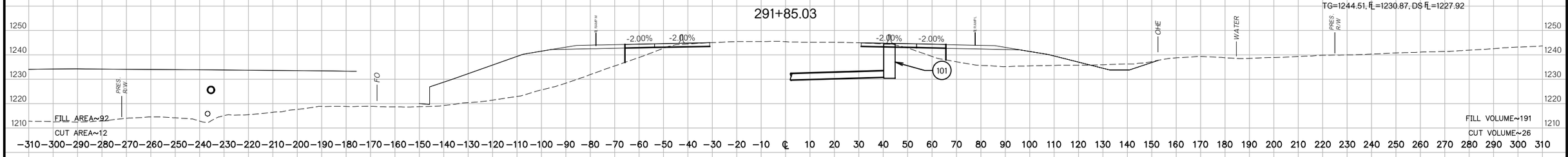
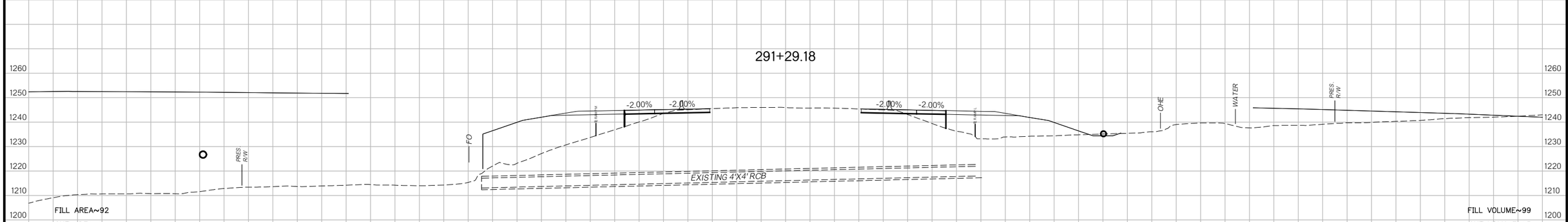
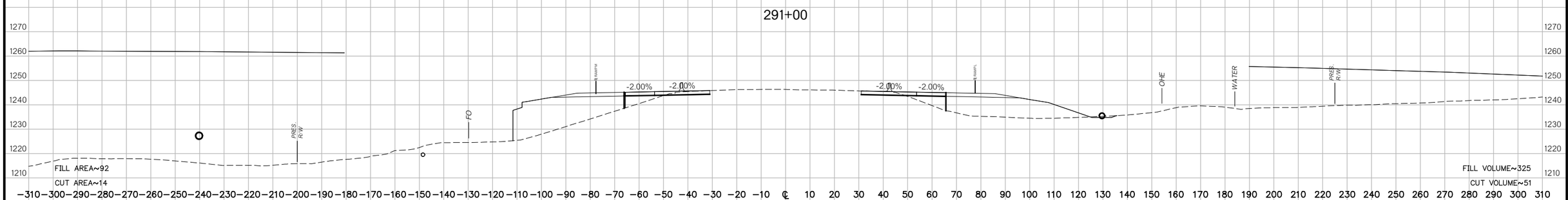
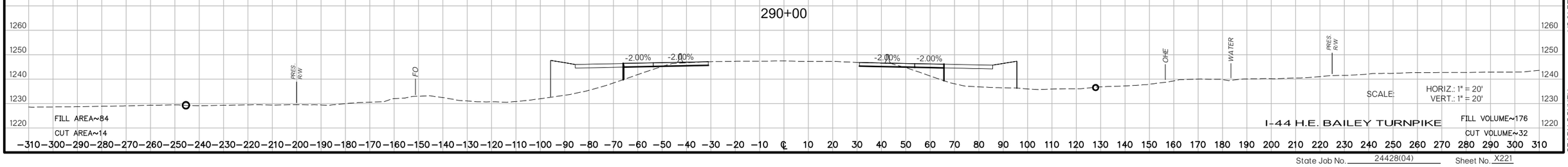
PROPOSED
R/W
AUGUST 2017

101 STA. 291+85 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 82 LF 30" RCP INTO STR. 100
TG=1244.51, FL=1230.87, DS FL=1227.92









SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

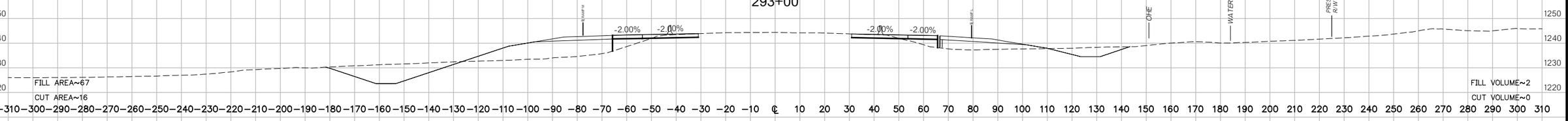
I-44 H.E. BAILEY TURNPIKE

US 81 REALIGNMENT
GRADY COUNTY

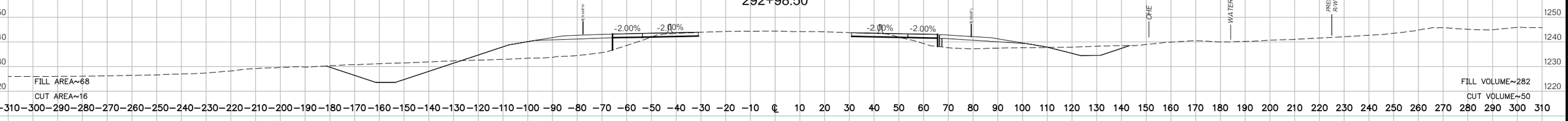
State Job No. 24428(04) Sheet No. X221

PROPOSED
R/W
AUGUST 2017

293+00

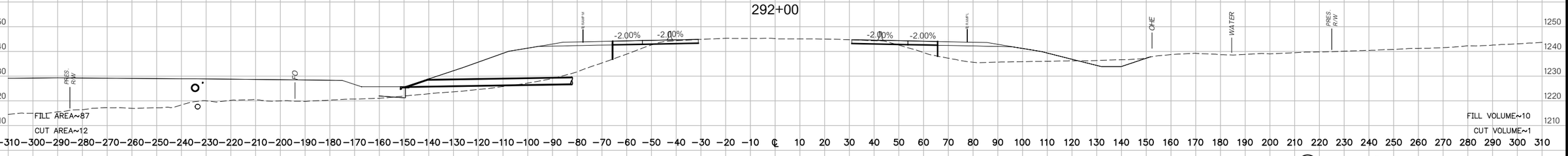


292+98.50



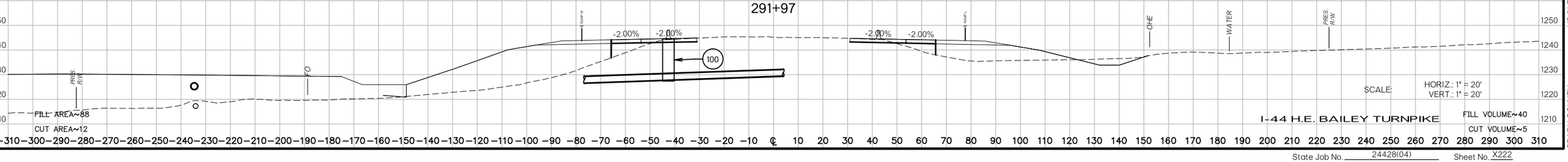
292+98.50

292+00



(100) STA. 291+97 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 116 LF 30" RCP INTO DITCH LT. W/ CET
TG=1244.47, FL=1227.92, DS FL=1223.82

291+97



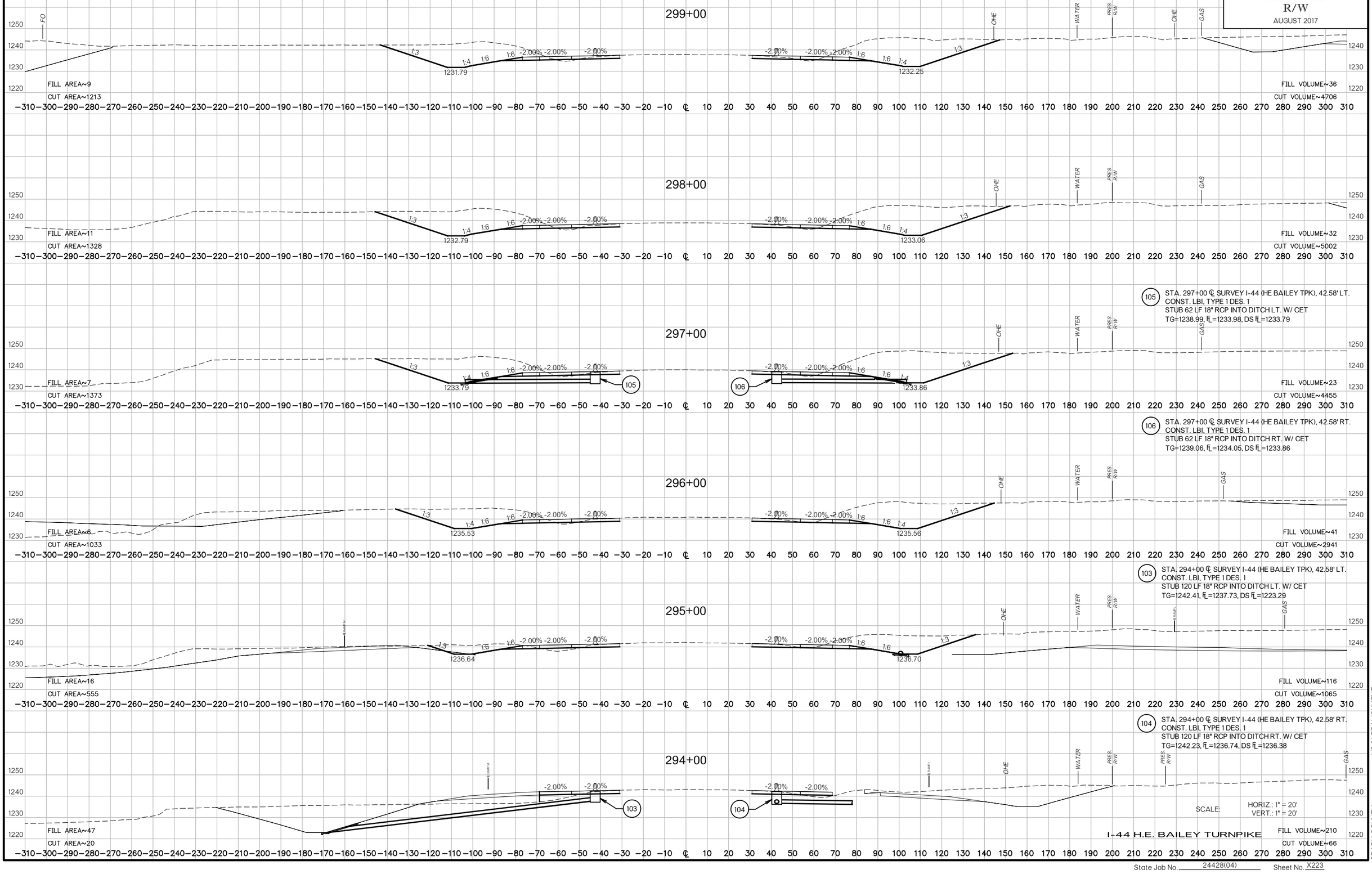
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

I-44 H.E. BAILEY TURNPIKE

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X222

PROPOSED
R/W
AUGUST 2017



105 STA. 297+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 62 LF 18" RCP INTO DITCH LT. W/ CET
TG=1238.99, FL=1233.98, DS FL=1233.79

106 STA. 297+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 62 LF 18" RCP INTO DITCH RT. W/ CET
TG=1239.06, FL=1234.05, DS FL=1233.86

103 STA. 294+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 120 LF 18" RCP INTO DITCH LT. W/ CET
TG=1242.41, FL=1237.73, DS FL=1223.29

104 STA. 294+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 120 LF 18" RCP INTO DITCH RT. W/ CET
TG=1242.23, FL=1236.74, DS FL=1236.38

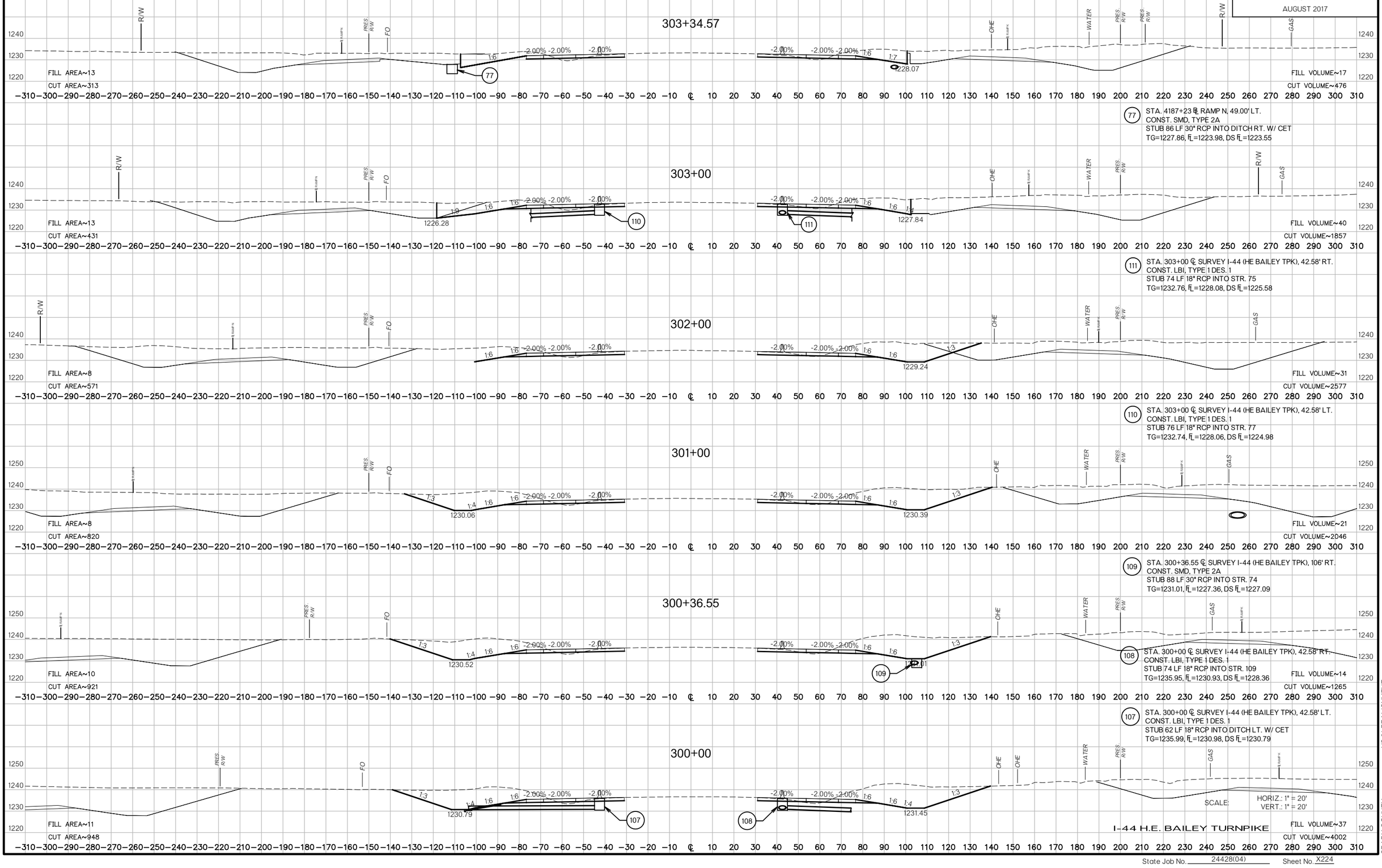
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

I-44 H.E. BAILEY TURNPIKE

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X223

PROPOSED
R/W
AUGUST 2017

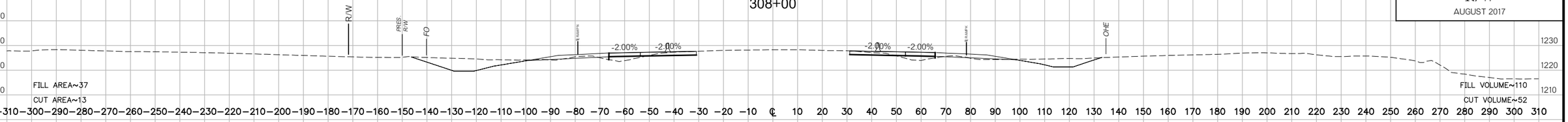


US 81 REALIGNMENT
GRADY COUNTY

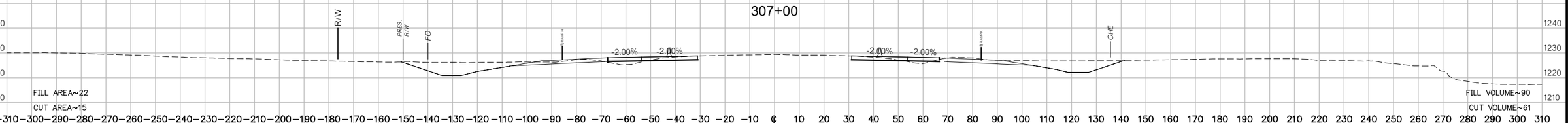
State Job No. 24428(04) Sheet No. X224

PROPOSED
R/W
AUGUST 2017

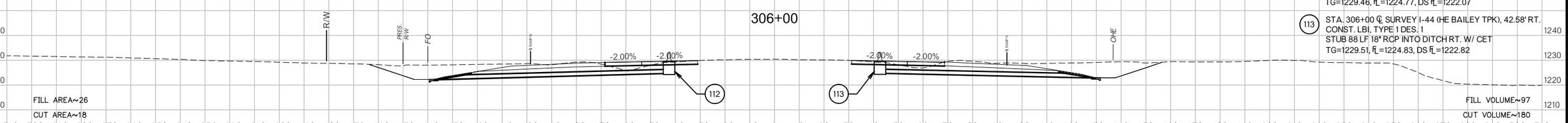
308+00



307+00



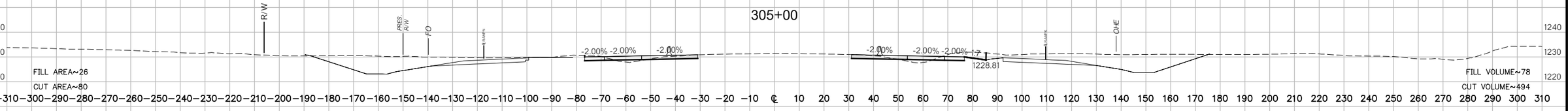
306+00



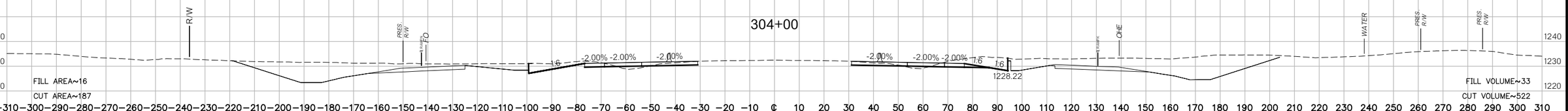
(112) STA. 306+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 94 LF 18" RCP INTO DITCH LT. W/ CET
TG=1229.46, FL=1224.77, DS FL=1222.07

(113) STA. 306+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 88 LF 18" RCP INTO DITCH RT. W/ CET
TG=1229.51, FL=1224.83, DS FL=1222.82

305+00

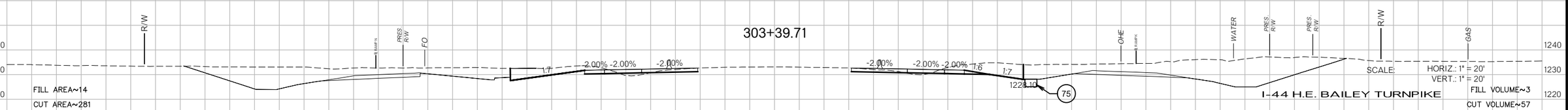


304+00



(75) STA. 3201+75 ℄ RAMP K, 41.00' LT.
CONST. SMD, TYPE 2
STUB 78 LF 18" RCP INTO DITCH RT. W/ CET
TG=1228.14, FL=1225.58, DS FL=1224.92

303+39.71



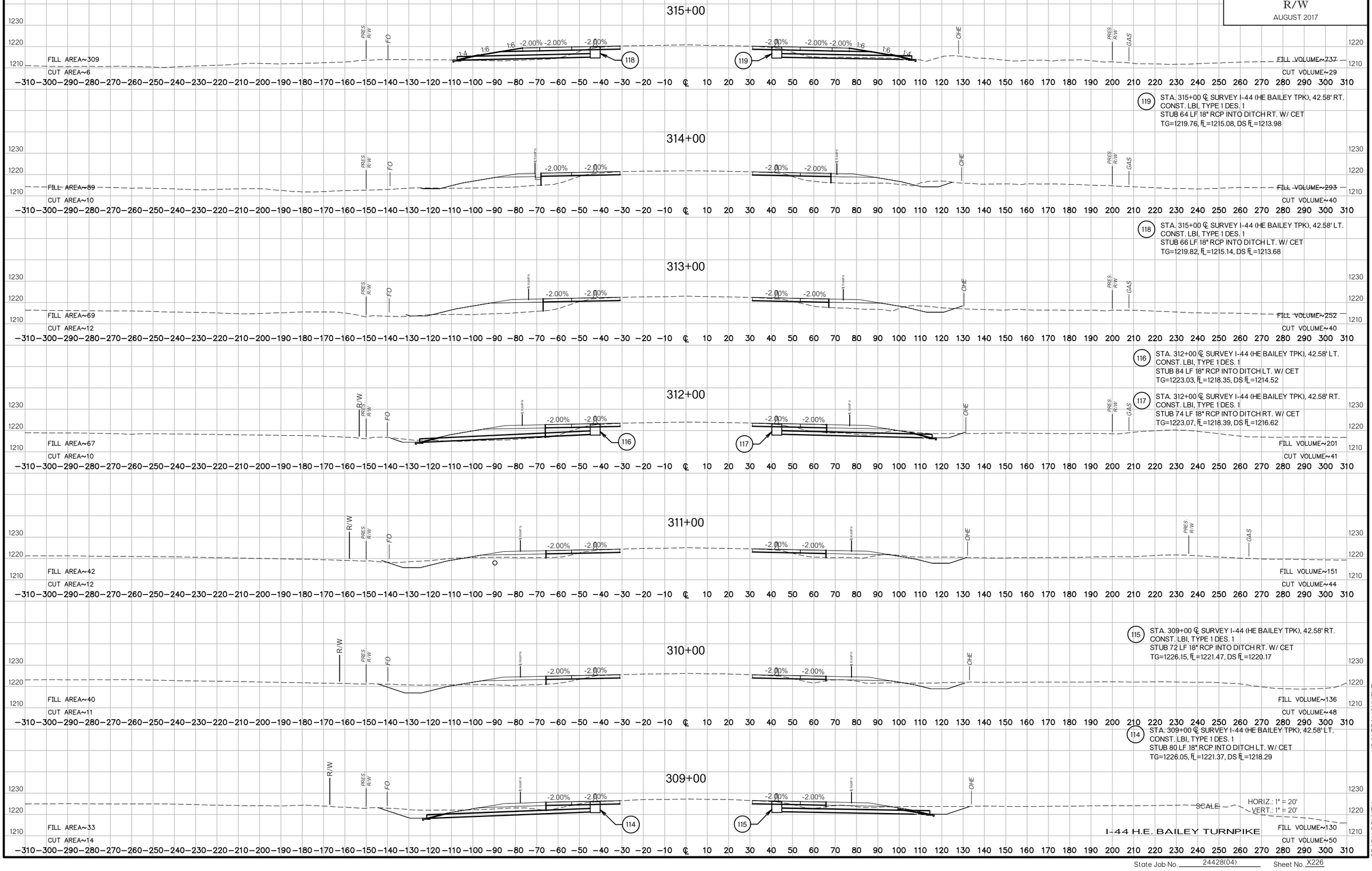
SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

I-44 H.E. BAILEY TURNPIKE

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X225

PROPOSED
R/W
AUGUST 2017



119 STA. 315+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 64 LF 18" RCP INTO DITCH RT. W/ CET
TG=1219.76, FL=1215.08, DS FL=1213.98

118 STA. 315+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 66 LF 18" RCP INTO DITCH LT. W/ CET
TG=1219.82, FL=1215.14, DS FL=1213.68

116 STA. 312+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 84 LF 18" RCP INTO DITCH LT. W/ CET
TG=1223.03, FL=1218.35, DS FL=1214.52

117 STA. 312+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 74 LF 18" RCP INTO DITCH RT. W/ CET
TG=1223.07, FL=1218.39, DS FL=1216.62

115 STA. 309+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 72 LF 18" RCP INTO DITCH RT. W/ CET
TG=1226.15, FL=1221.47, DS FL=1220.17

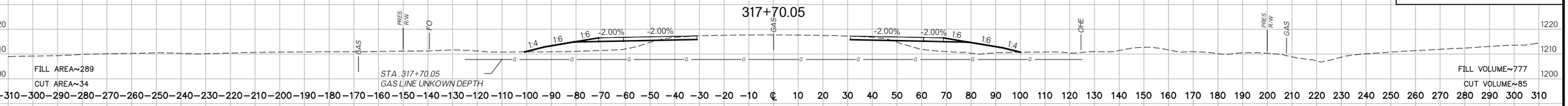
114 STA. 309+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 80 LF 18" RCP INTO DITCH LT. W/ CET
TG=1226.05, FL=1221.37, DS FL=1218.29

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X226

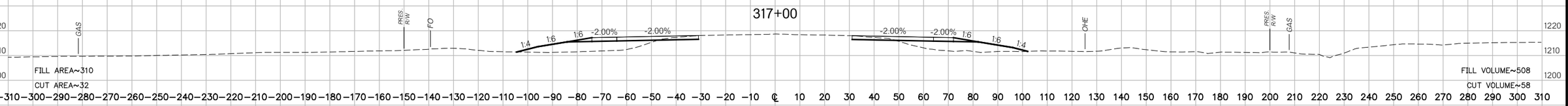
PROPOSED
R/W
AUGUST 2017

317+70.05



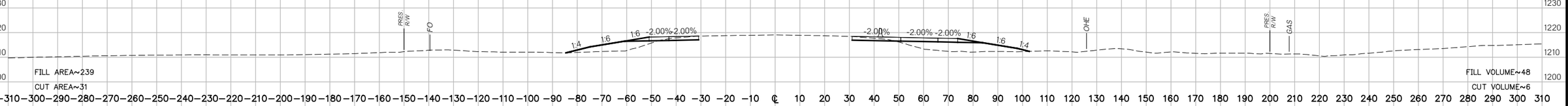
FILL AREA~289
CUT AREA~34
FILL VOLUME~777
CUT VOLUME~85

317+00



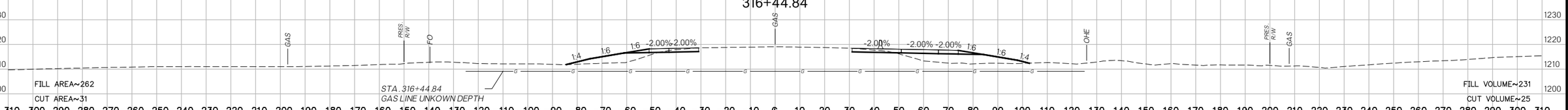
FILL AREA~310
CUT AREA~32
FILL VOLUME~508
CUT VOLUME~58

316+50



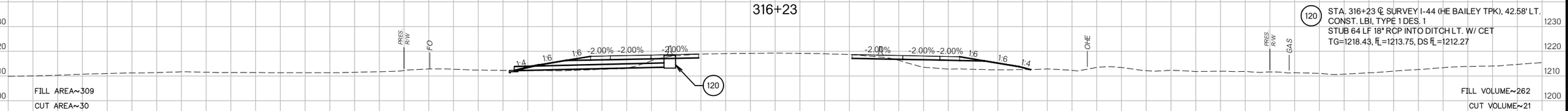
FILL AREA~239
CUT AREA~31
FILL VOLUME~48
CUT VOLUME~6

316+44.84



FILL AREA~262
CUT AREA~31
FILL VOLUME~231
CUT VOLUME~25

316+23

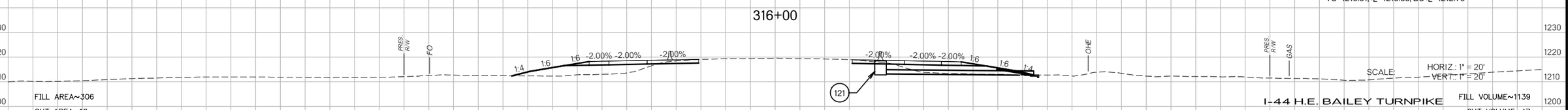


(120) STA. 316+23 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 64 LF 18" RCP INTO DITCH LT. W/ CET
TG=1218.43, FL=1213.75, DS FL=1212.27

FILL AREA~309
CUT AREA~30
FILL VOLUME~262
CUT VOLUME~21

(121) STA. 316+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 62 LF 18" RCP INTO DITCH RT. W/ CET
TG=1218.51, FL=1213.33, DS FL=1212.78

316+00



FILL AREA~306
CUT AREA~19
FILL VOLUME~1139
CUT VOLUME~47

SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

I-44 H.E. BAILEY TURNPIKE

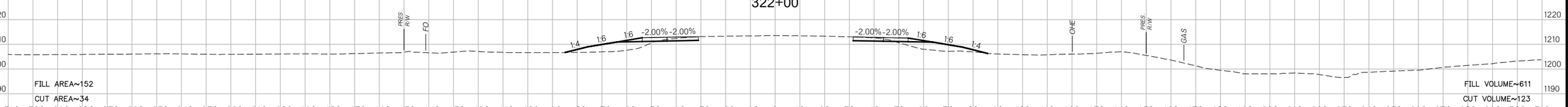
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X227

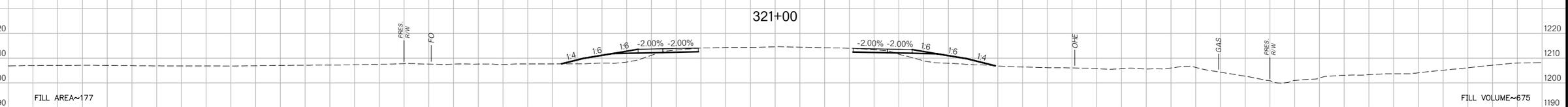
PROPOSED
R/W
AUGUST 2017

323+00

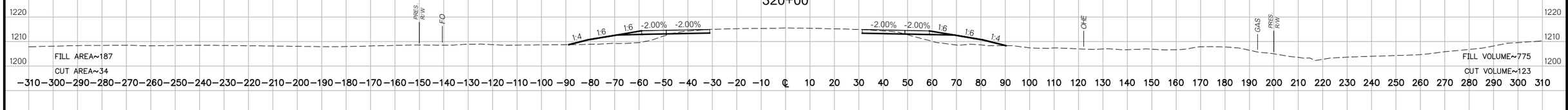
322+00



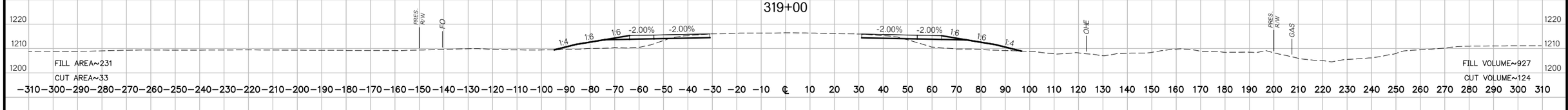
321+00



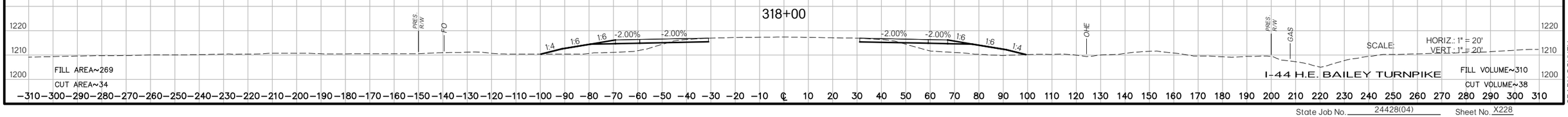
320+00



319+00



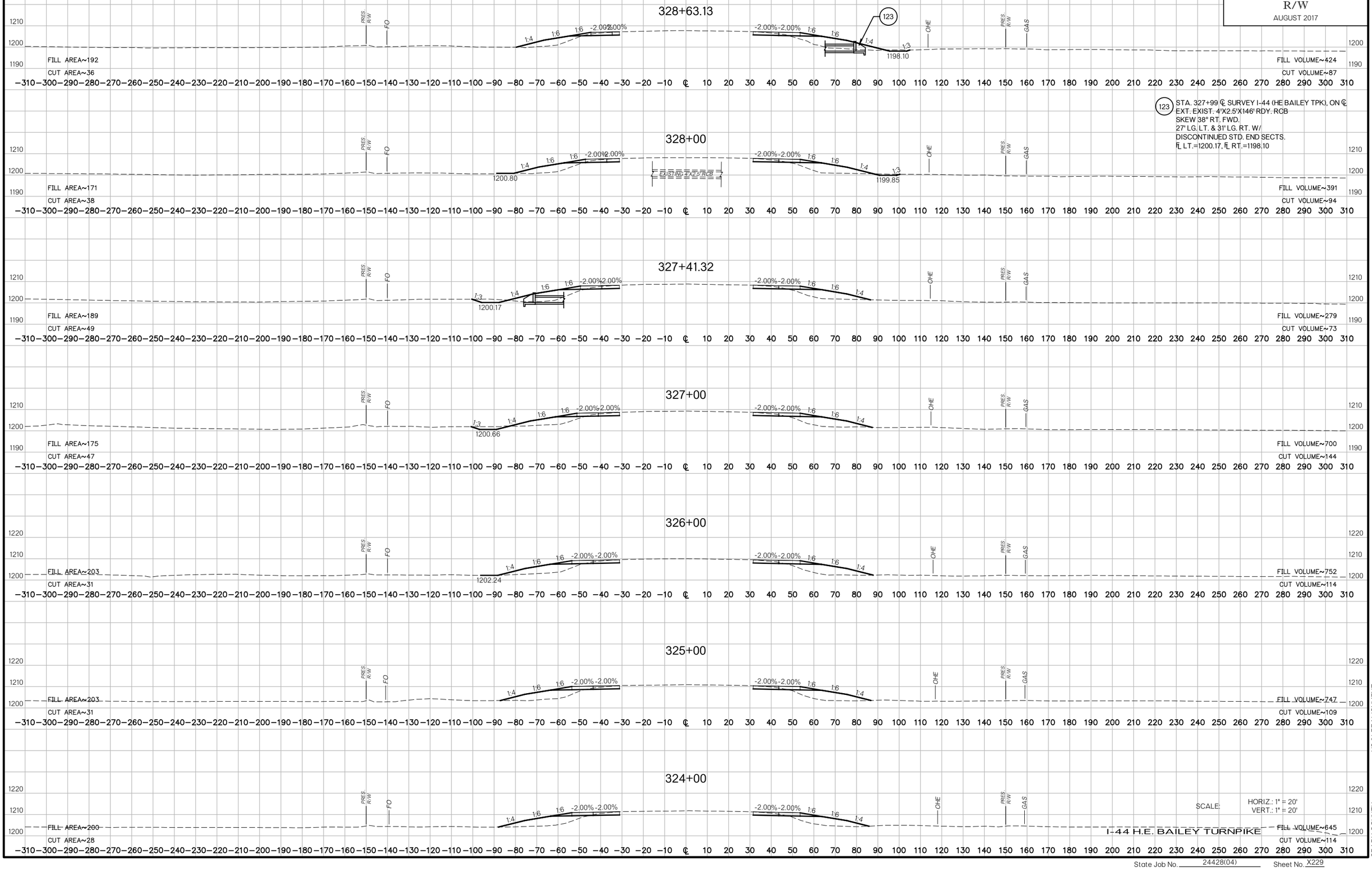
318+00



US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X228

PROPOSED
R/W
AUGUST 2017



123 STA. 327+99 ℄ SURVEY I-44 (HE BAILEY TPK), ON ℄
EXT. EXIST. 4'X2.5'X146' RDY. RCB
SKEW 38° RT. FWD.
27' LG. LT. & 31' LG. RT. W/
DISCONTINUED STD. END SECTS.
FL LT.=1200.17, FL RT.=1198.10

SCALE: HORIZ.: 1" = 20'
VERT.: 1" = 20'

I-44 H.E. BAILEY TURNPIKE

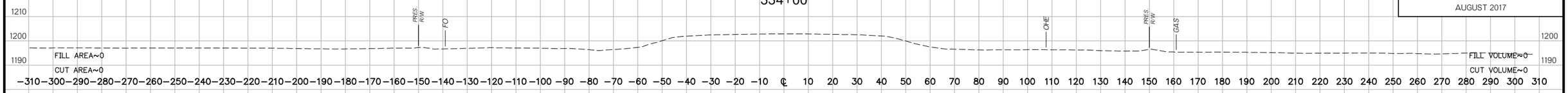
US 81 REALIGNMENT

GRADY COUNTY

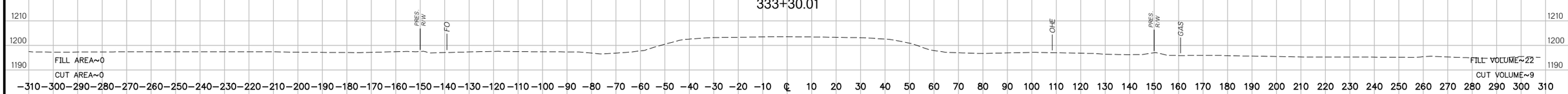
State Job No. 24428(04) Sheet No. X229

PROPOSED
R/W
AUGUST 2017

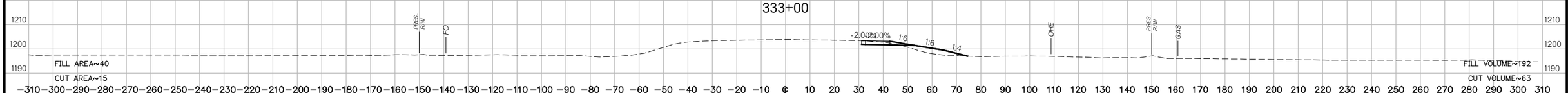
334+00



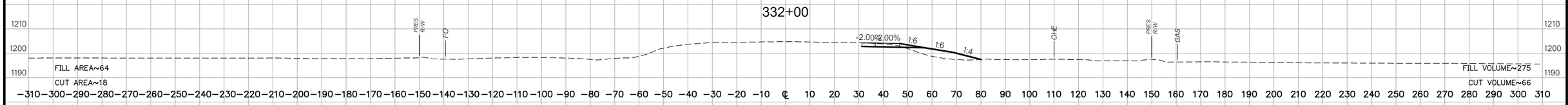
333+30.01



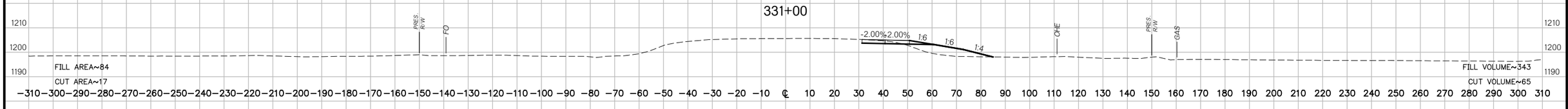
END PROJECT
333+00



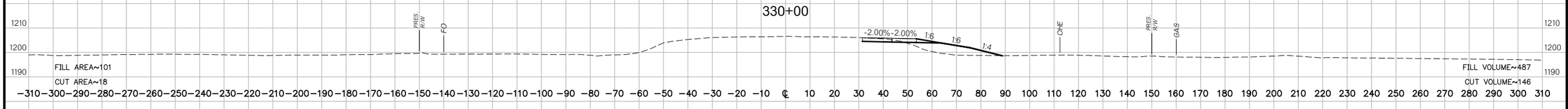
332+00



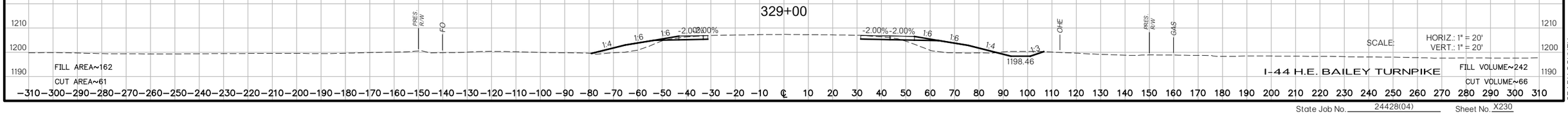
331+00



330+00



329+00



I-44 H.E. BAILEY TURNPIKE

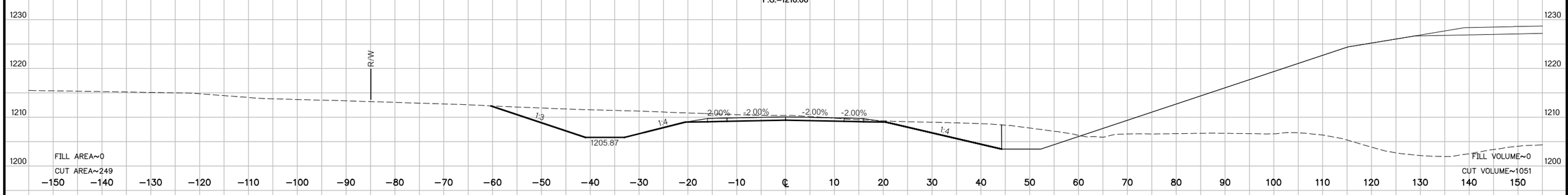
US 81 REALIGNMENT

GRADY COUNTY

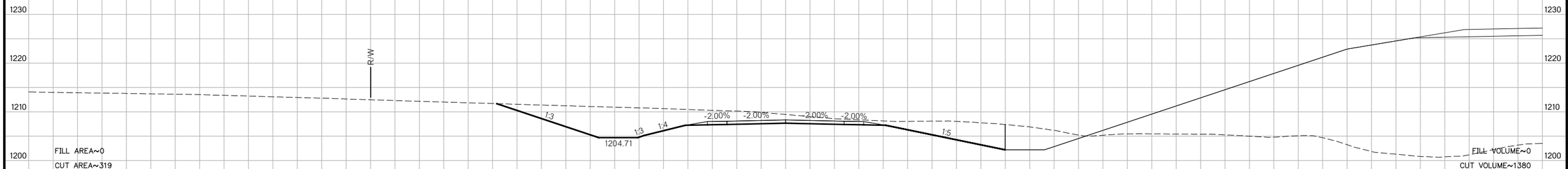
State Job No. 24428(04) Sheet No. X230

PROPOSED
R/W
AUGUST 2017

5116+00
F.G.=1210.06



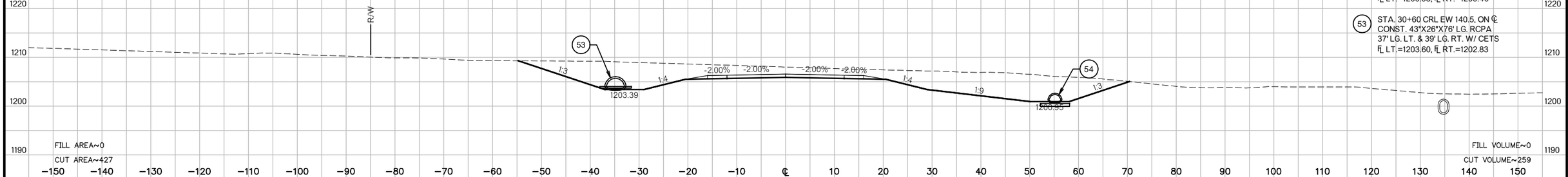
5115+00
F.G.=1208.32



BEGIN PROJECT
5114+00
F.G.=1206.59

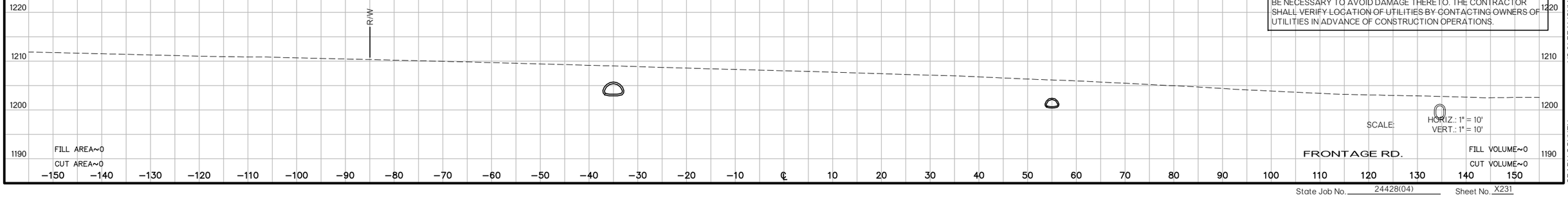
54 STA. 31+50 CRL EW 140.5, ON ℄
CONST. 28"X18"X70' LG. RCPA
34' LG. LT. & 36' LG. RT. W/ CETS
FL LT.=1200.93, FL RT.=1200.40

53 STA. 30+60 CRL EW 140.5, ON ℄
CONST. 43"X26"X76' LG. RCPA
37' LG. LT. & 39' LG. RT. W/ CETS
FL LT.=1203.60, FL RT.=1202.83



5113+67.22

THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPES & LOCATIONS OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE TO MAKE THE DETERMINATIONS AS TO THE TYPE & LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING OWNERS OF UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS.



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

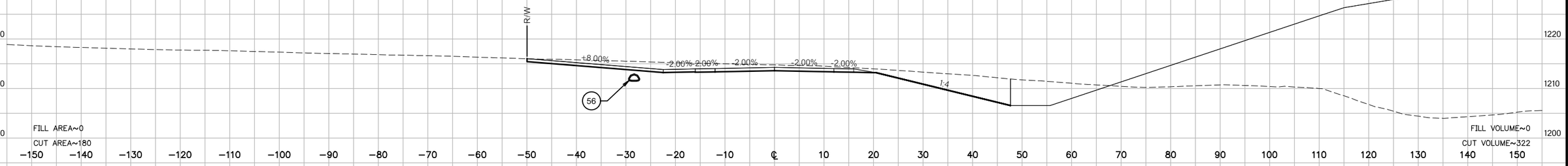
FRONTAGE RD.

US 81 REALIGNMENT
GRADY COUNTY

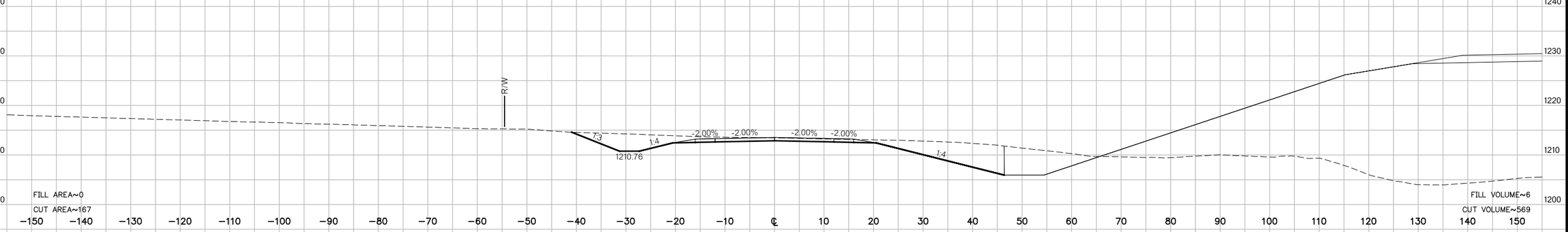
State Job No. 24428(04) Sheet No. X231

PROPOSED
R/W
AUGUST 2017

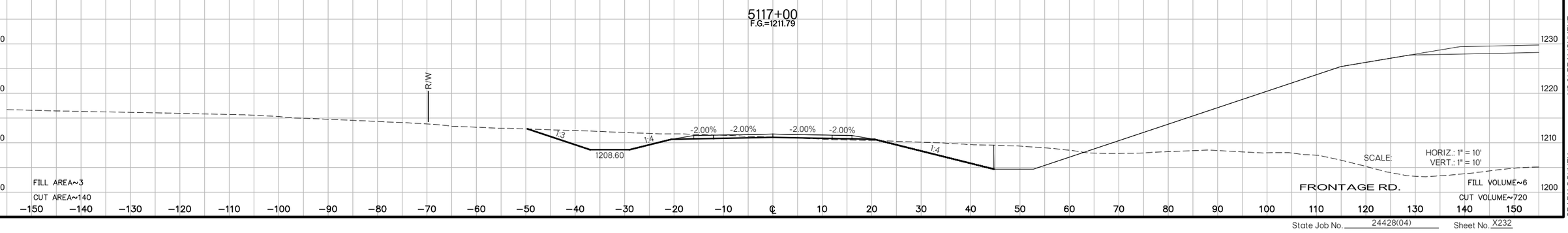
5118+50
F.G.=1214.26



5118+00
F.G.=1213.53



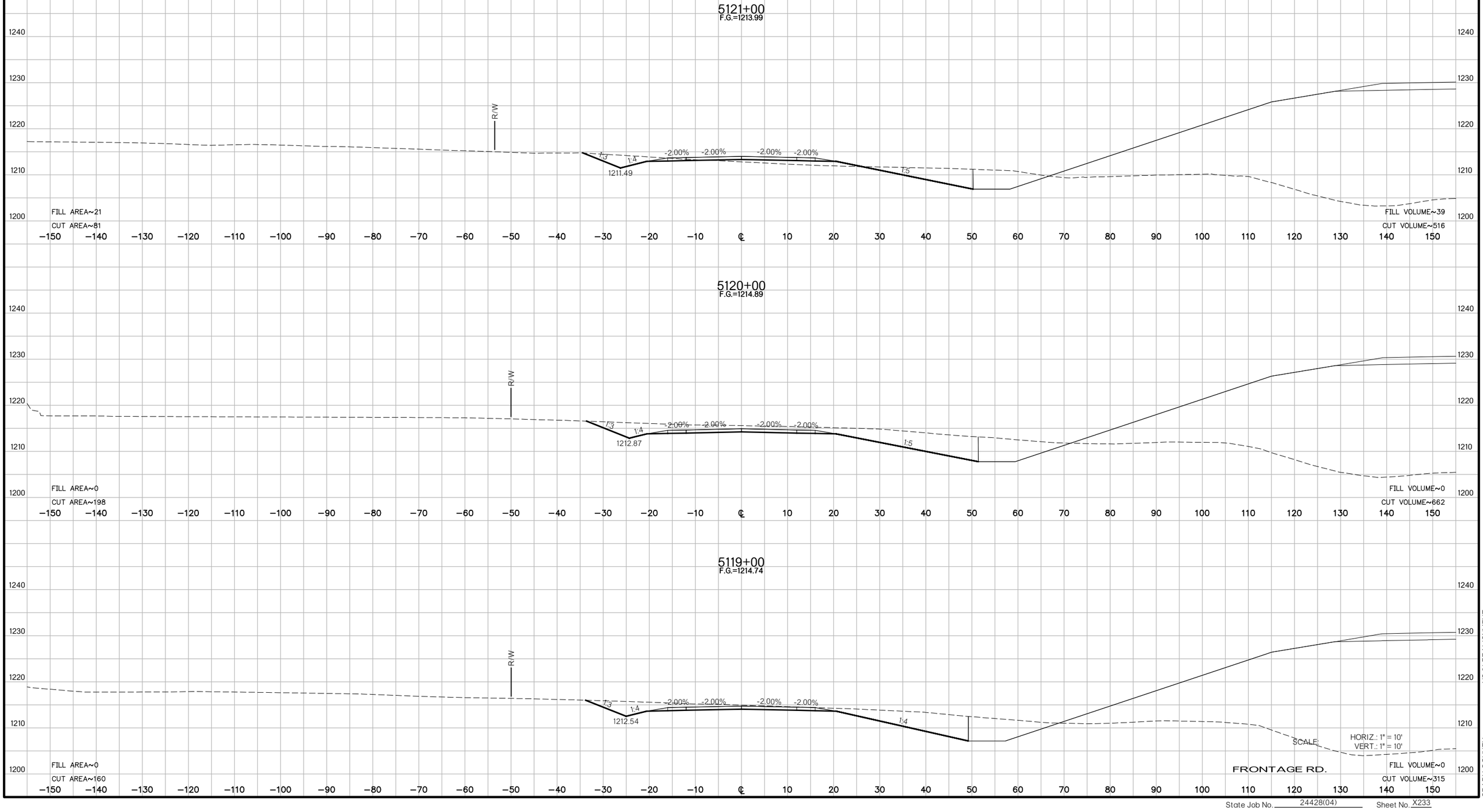
5117+00
F.G.=1211.79



US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X232

PROPOSED
R/W
AUGUST 2017

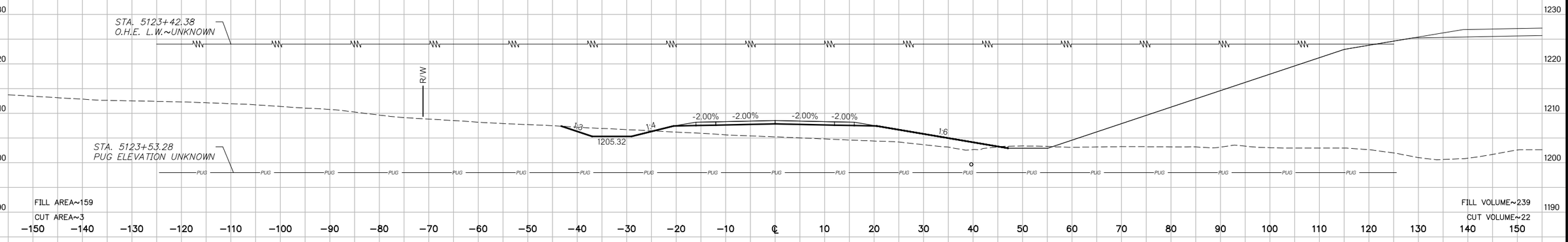


US 81 REALIGNMENT
GRADY COUNTY

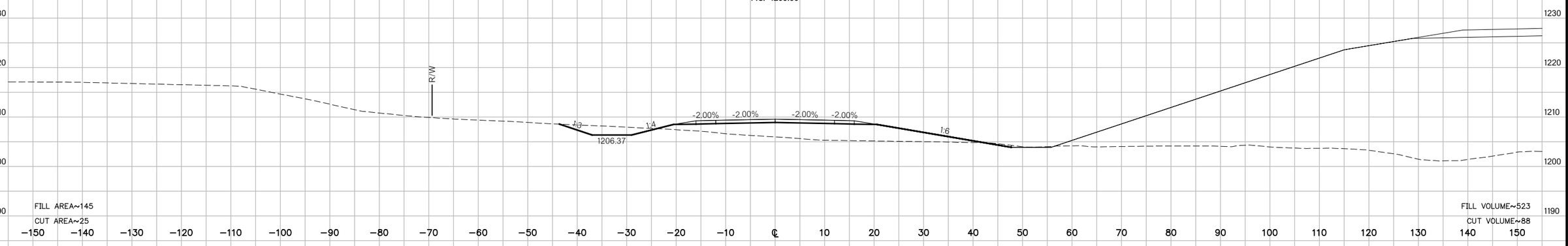
State Job No. 24428(04) Sheet No. X233

PROPOSED
R/W
AUGUST 2017

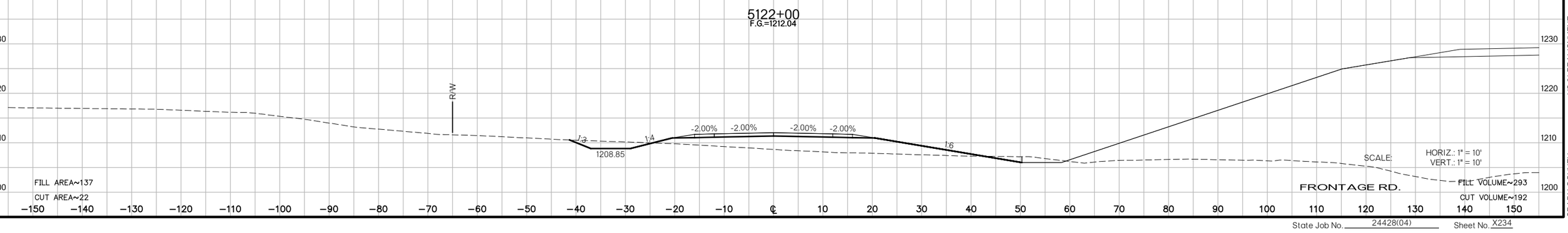
5123+42.38
F.G.=1208.51



5123+00
F.G.=1209.56



5122+00
F.G.=1212.04

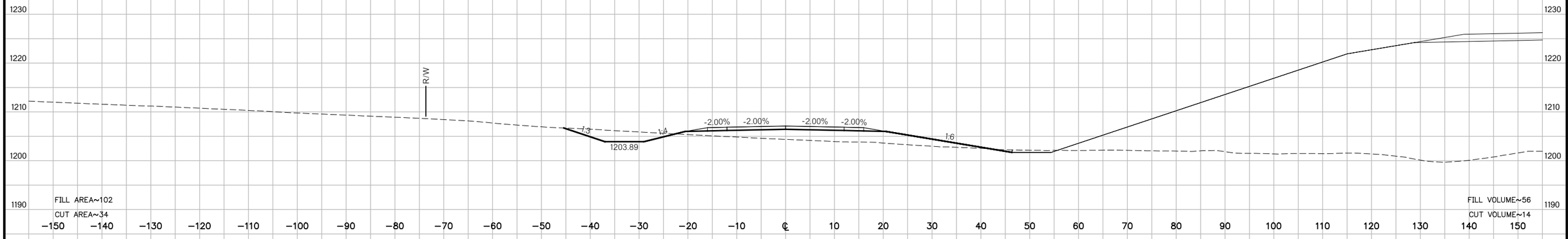


US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X234

PROPOSED
R/W
AUGUST 2017

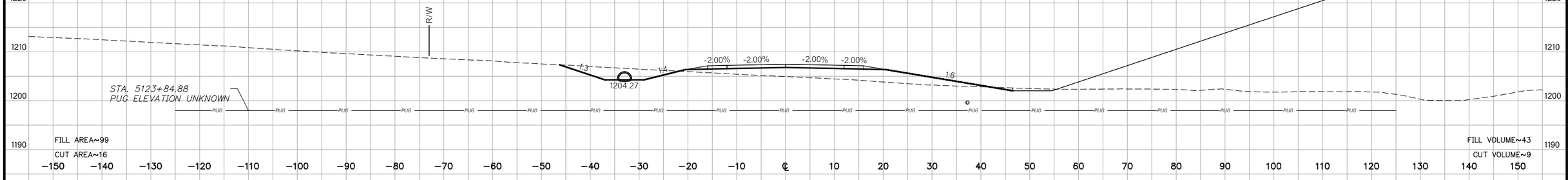
5124+00
F.G.=1207.09



FILL AREA~102
CUT AREA~34

FILL VOLUME~56
CUT VOLUME~14

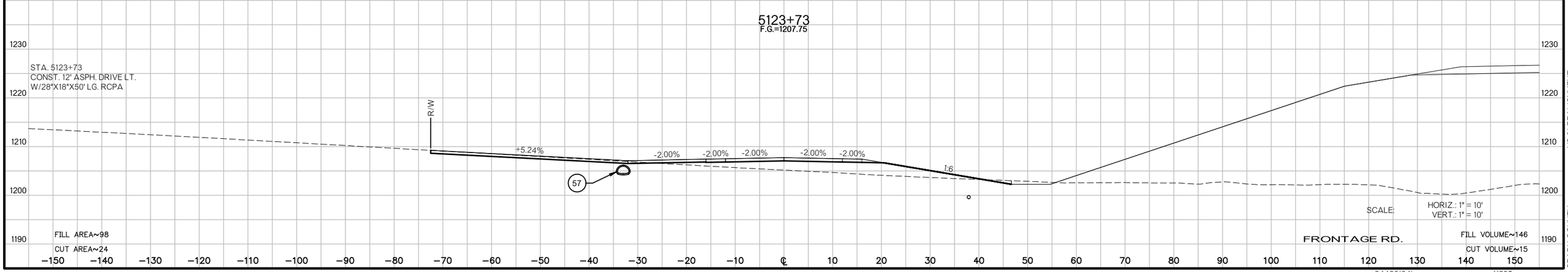
5123+84.88
F.G.=1207.46



FILL AREA~99
CUT AREA~16

FILL VOLUME~43
CUT VOLUME~9

5123+73
F.G.=1207.75



FILL AREA~98
CUT AREA~24

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

FRONTAGE RD.

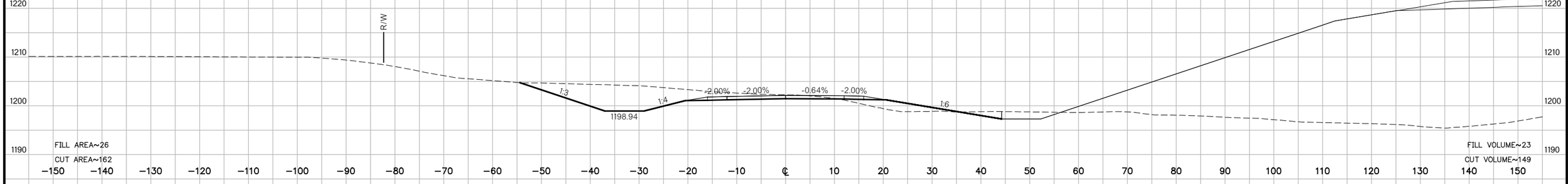
FILL VOLUME~146
CUT VOLUME~15

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X235

PROPOSED
R/W
AUGUST 2017

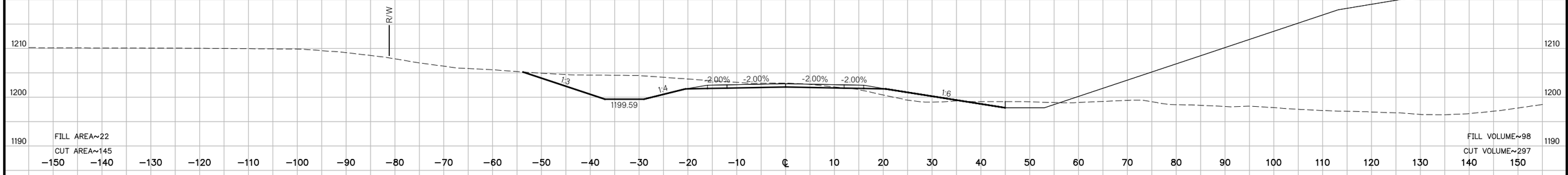
5126+00
F.G.=1202.13



FILL AREA~26
CUT AREA~162

FILL VOLUME~23
CUT VOLUME~149

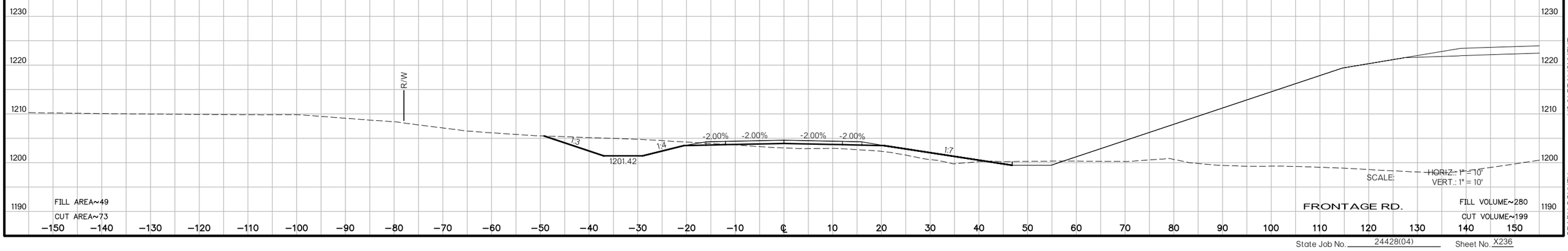
END NORMAL CROWN
5125+73.75
F.G.=1202.78



FILL AREA~22
CUT AREA~145

FILL VOLUME~98
CUT VOLUME~297

5125+00
F.G.=1204.61



FILL AREA~49
CUT AREA~73

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

FRONTAGE RD.

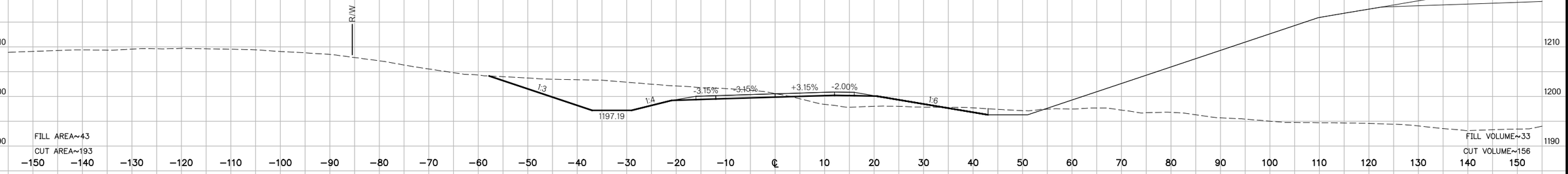
FILL VOLUME~280
CUT VOLUME~199

US 81 REALIGNMENT
GRADY COUNTY

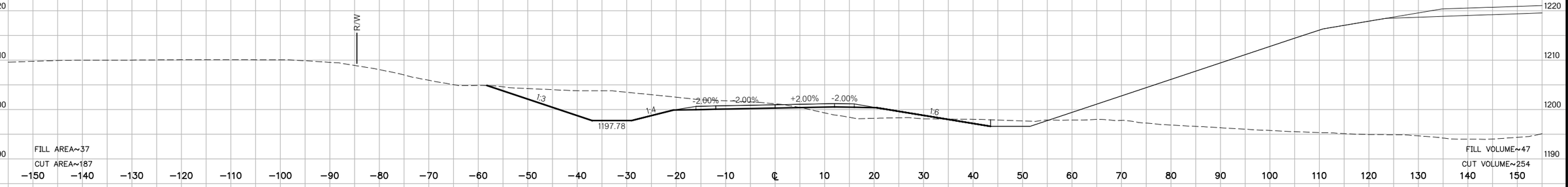
State Job No. 24428(04) Sheet No. X236

PROPOSED
R/W
AUGUST 2017

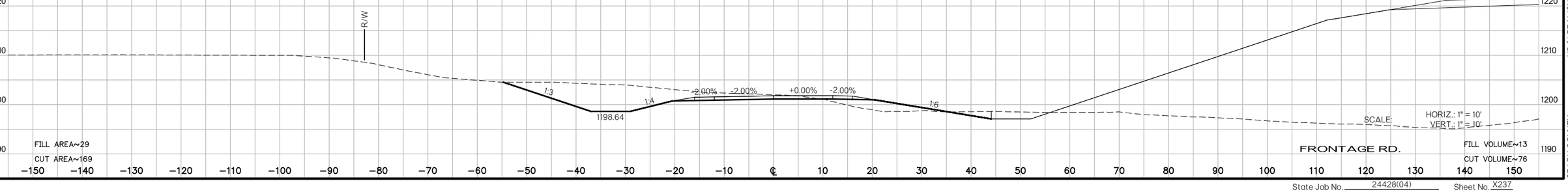
5126+73.07
F.G.=1200.53



REVERSE CROSS SLOPE STATION
5126+50.89
F.G.=1200.97



5126+12.32
F.G.=1201.83



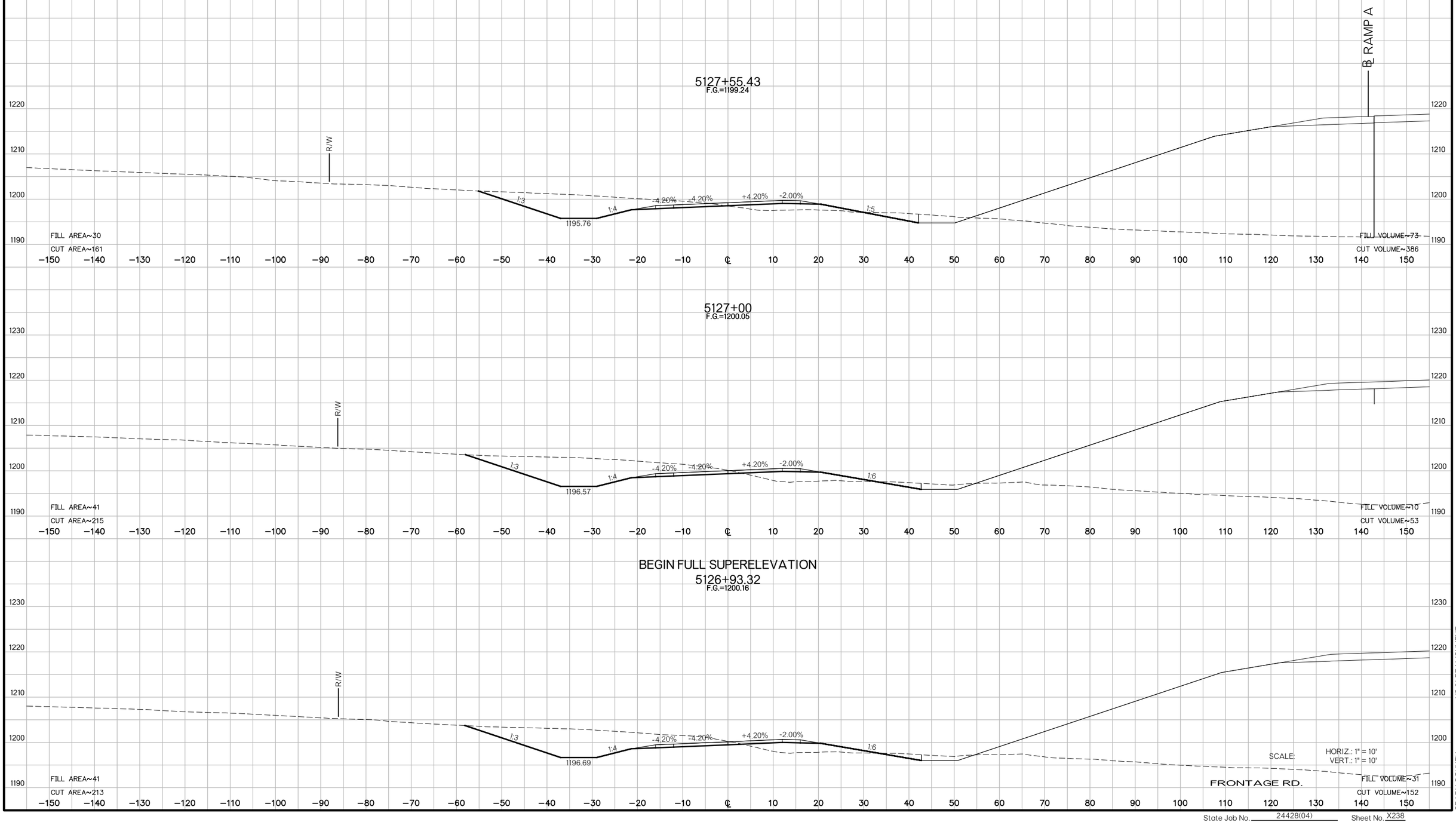
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

FRONTAGE RD.

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X237

PROPOSED
R/W
AUGUST 2017

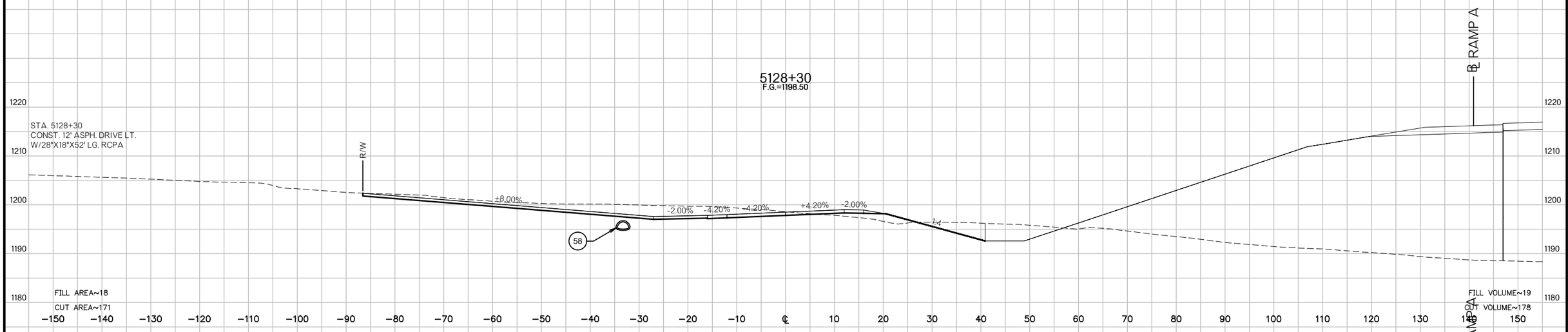


US 81 REALIGNMENT
GRADY COUNTY

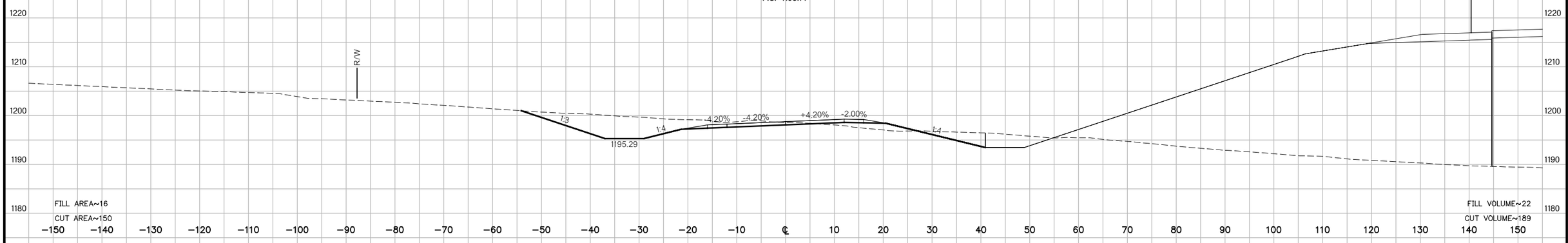
State Job No. 24428(04) Sheet No. X238

PROPOSED
R/W
AUGUST 2017

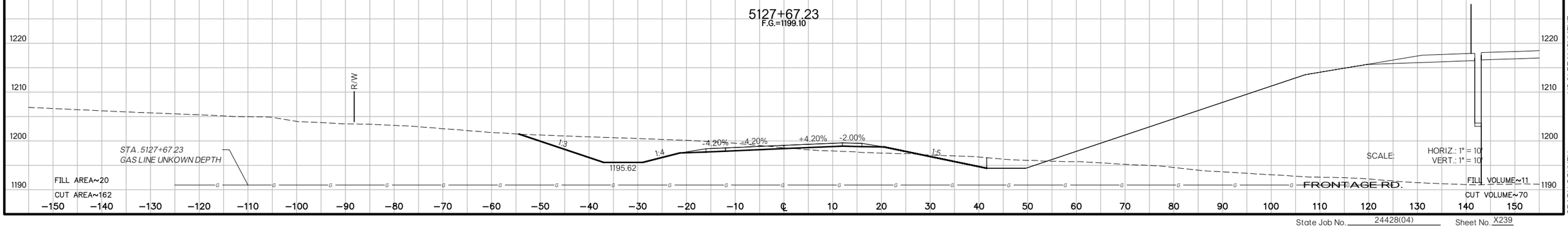
5128+30
F.G.=1198.50



5128+00
F.G.=1198.77



5127+67.23
F.G.=1199.10

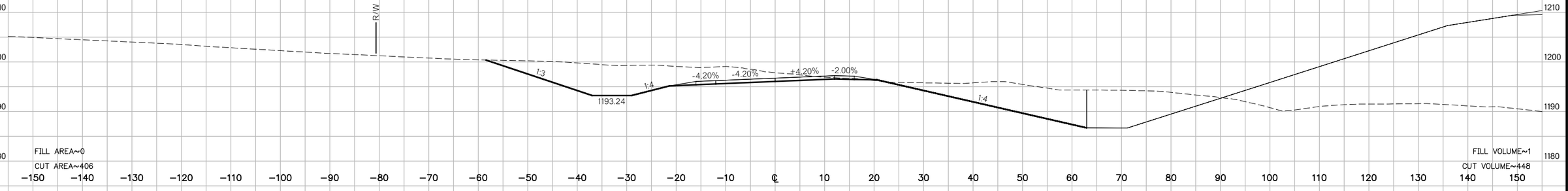


US 81 REALIGNMENT
GRADY COUNTY

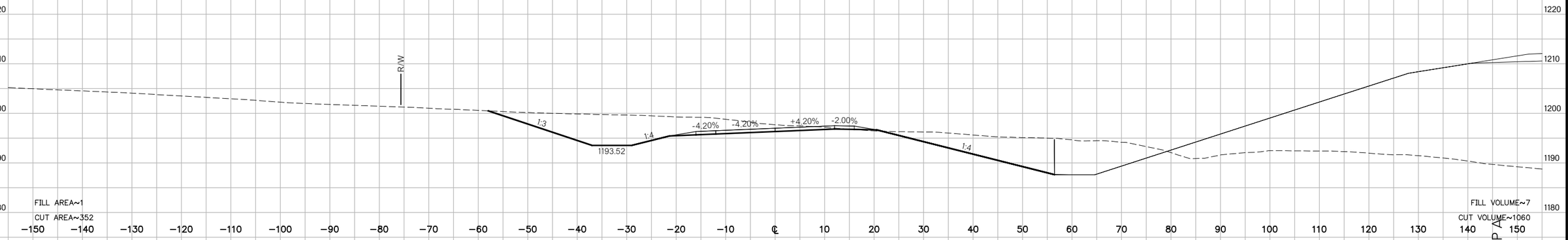
State Job No. 24428(04) Sheet No. X239

PROPOSED
R/W
AUGUST 2017

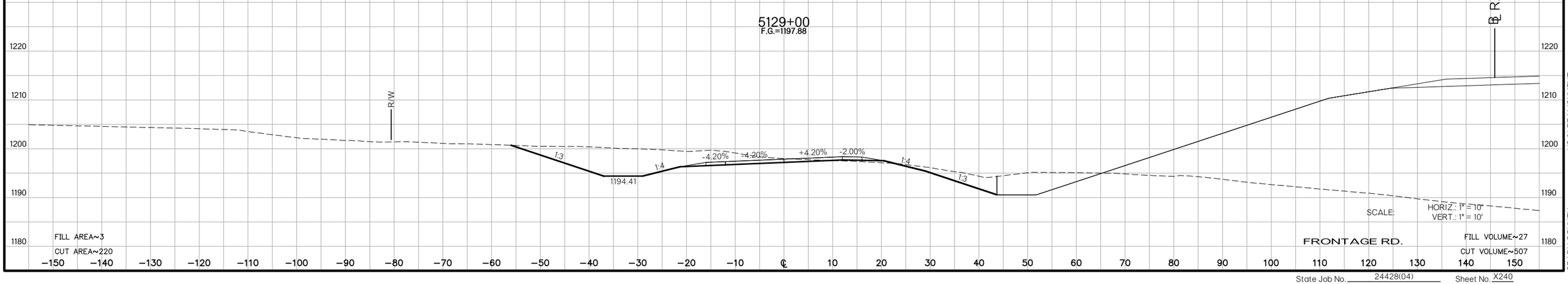
5130+31.95
F.G.=1196.72



5130+00
F.G.=1197.00



5129+00
F.G.=1197.88

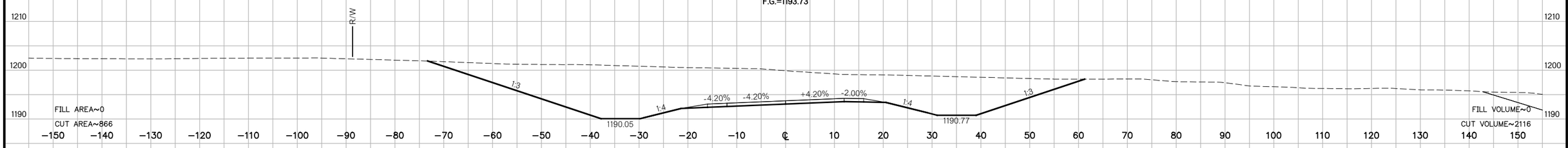


US 81 REALIGNMENT
GRADY COUNTY

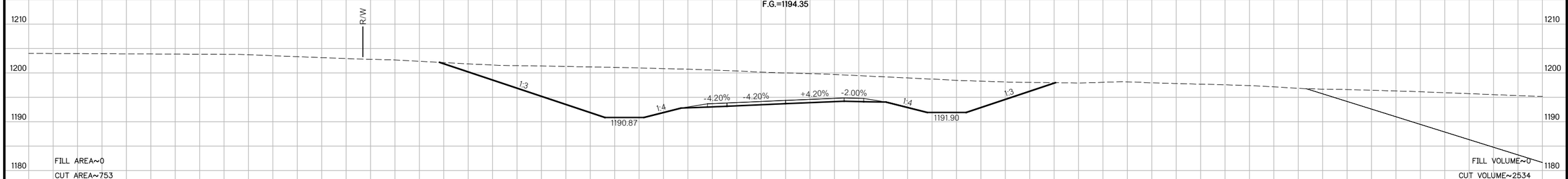
State Job No. 24428(04) Sheet No. X240

PROPOSED
R/W
AUGUST 2017

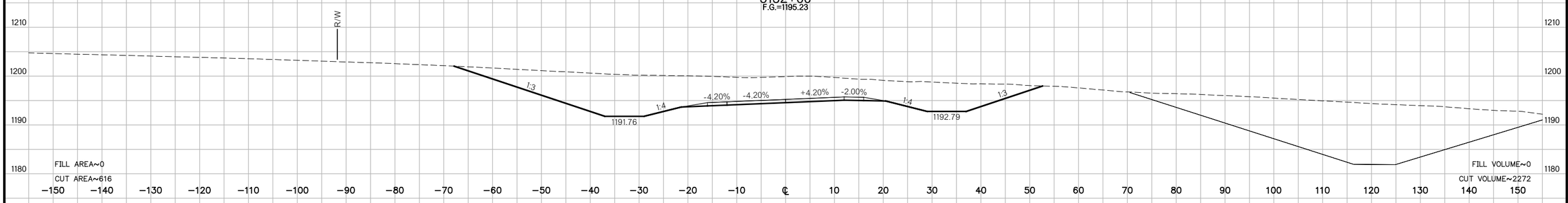
END FULL SUPERELEVATION
5133+70.57
F.G.=1193.73



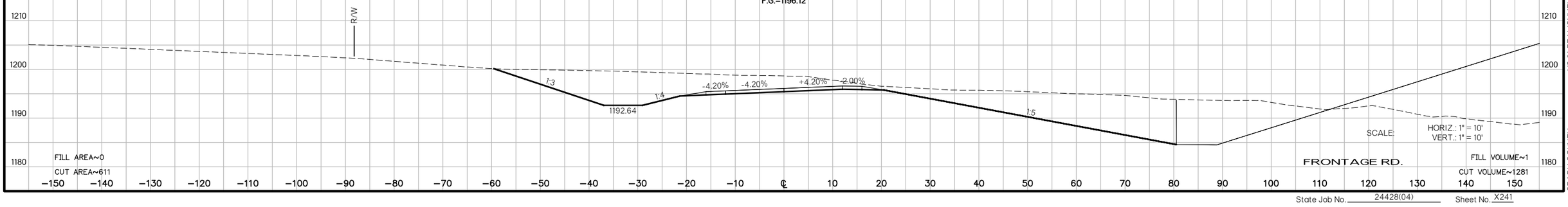
5133+00
F.G.=1194.35



5132+00
F.G.=1195.23



5131+00
F.G.=1196.12

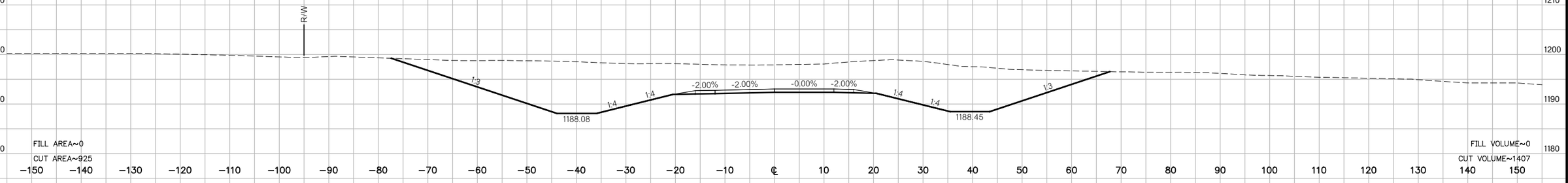


US 81 REALIGNMENT
GRADY COUNTY

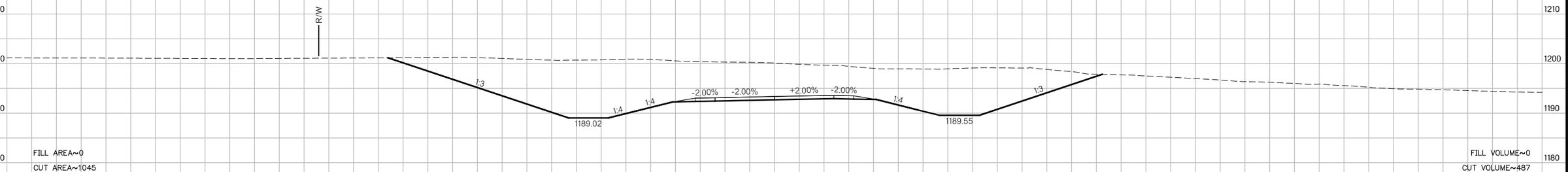
State Job No. 24428(04) Sheet No. X241

PROPOSED
R/W
AUGUST 2017

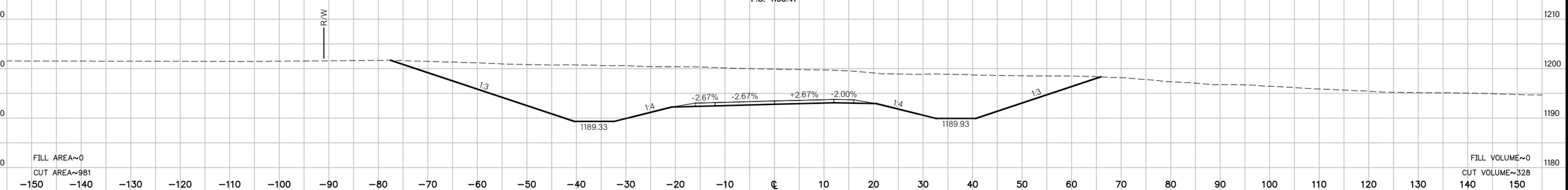
5134+51.57
F.G.=1193.01



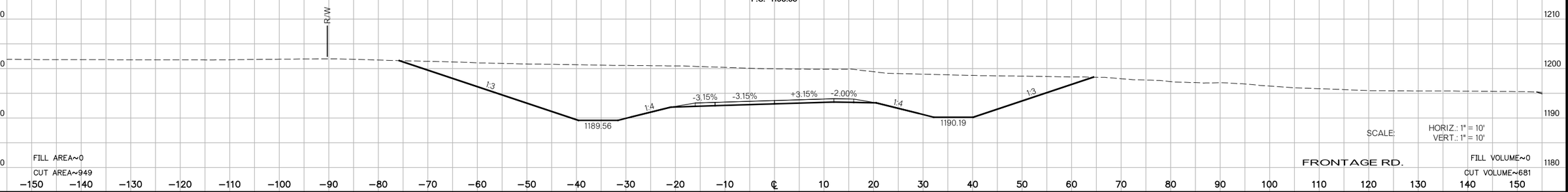
REVERSE CROSS SLOPE STATION
5134+13
F.G.=1193.35



5134+00
F.G.=1193.47



5133+90.82
F.G.=1193.55



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

FRONTAGE RD.

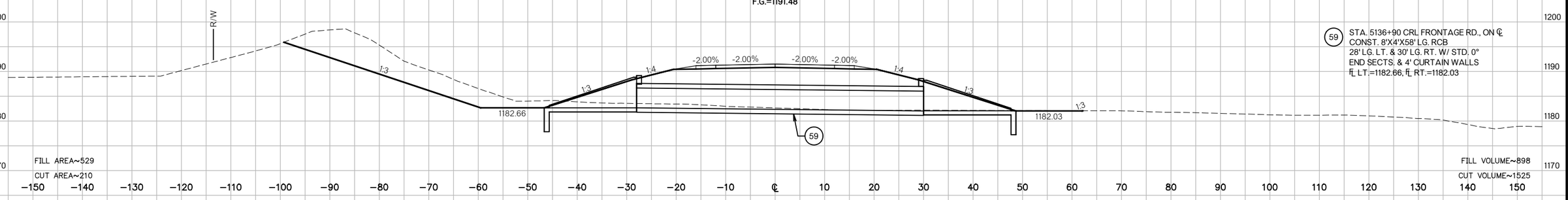
US 81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X242

PROPOSED
R/W
AUGUST 2017

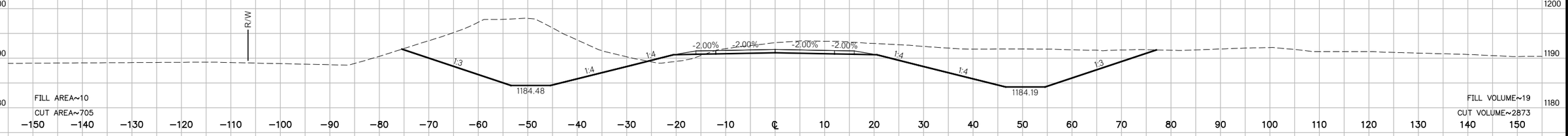
5136+90
F.G.=1191.48



(59) STA. 5136+90 CRL FRONTAGE RD., ON ℄
CONST. 8'X4'X58' LG. RCB
28' LG. LT. & 30' LG. RT. W/ STD. 0°
END SECTS. & 4' CURTAIN WALLS
FL LT.=1182.66, FL RT.=1182.03

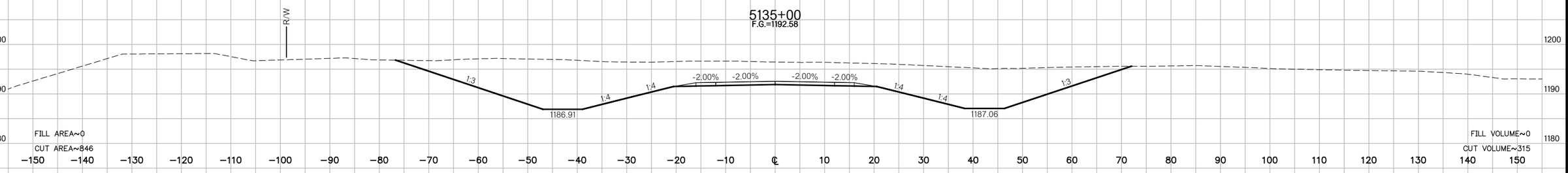
FILL AREA~529
CUT AREA~210
FILL VOLUME~898
CUT VOLUME~1525

5136+00
F.G.=1191.77



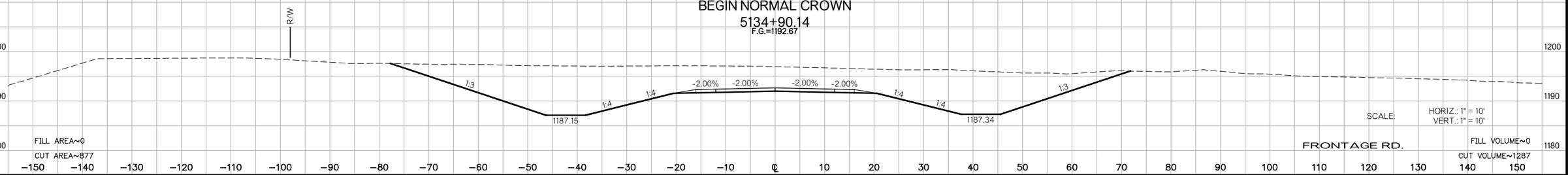
FILL AREA~10
CUT AREA~705
FILL VOLUME~19
CUT VOLUME~2873

5135+00
F.G.=1192.58



FILL AREA~0
CUT AREA~846
FILL VOLUME~0
CUT VOLUME~315

BEGIN NORMAL CROWN
5134+90.14
F.G.=1192.67



FILL AREA~0
CUT AREA~877
FILL VOLUME~0
CUT VOLUME~1287

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

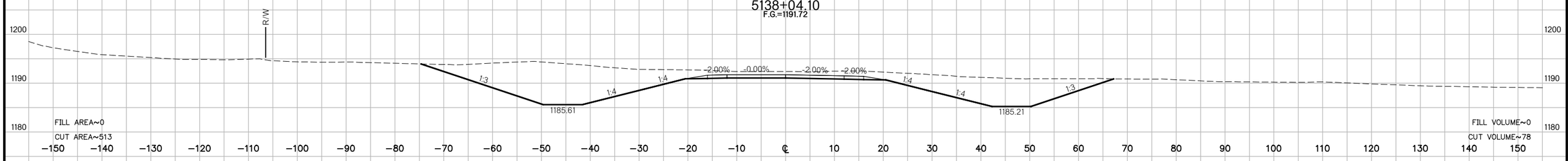
FRONTAGE RD.

US 81 REALIGNMENT
GRADY COUNTY

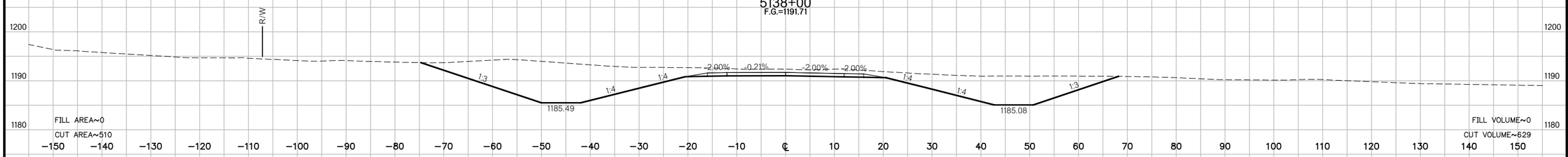
State Job No. 24428(04) Sheet No. X243

PROPOSED
R/W
AUGUST 2017

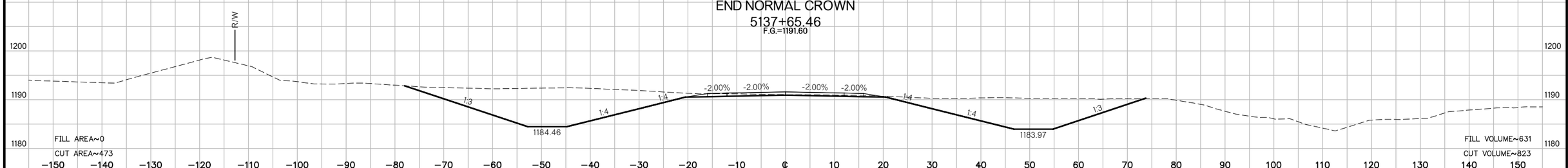
5138+04.10
F.G.=1191.72



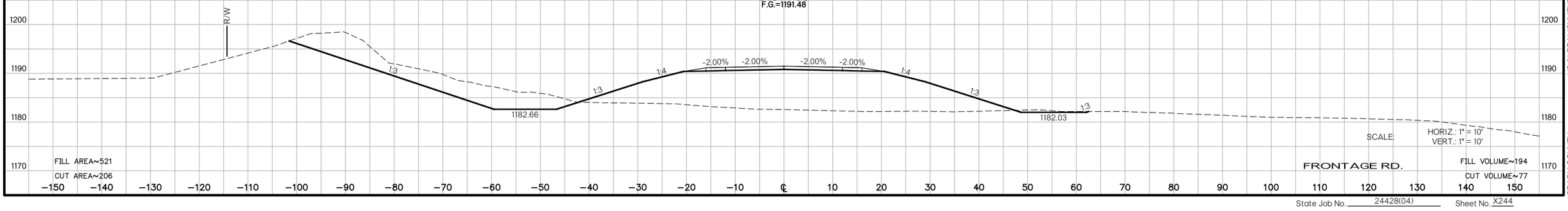
5138+00
F.G.=1191.71



END NORMAL CROWN
5137+65.46
F.G.=1191.60



5137+00
F.G.=1191.48



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

FRONTAGE RD.

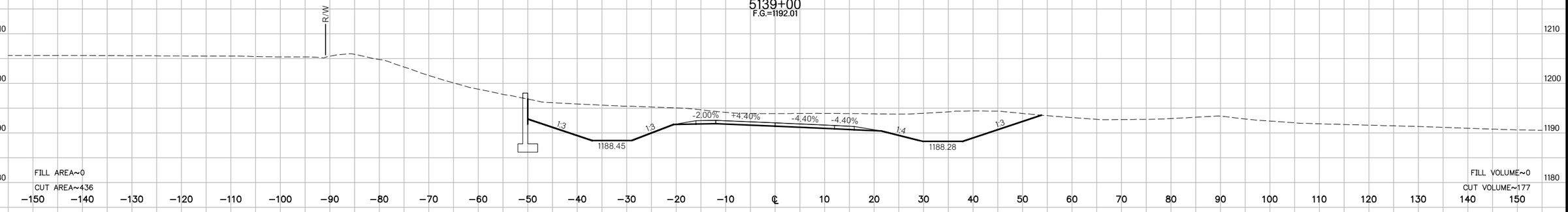
US 81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X244

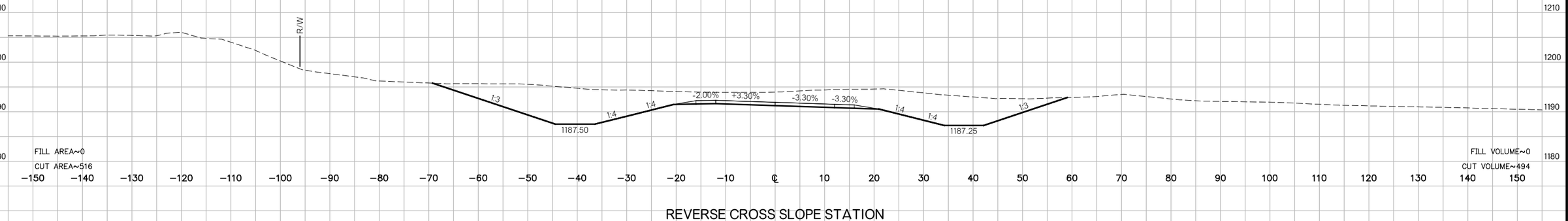
PROPOSED
R/W
AUGUST 2017

5139+00
F.G.=1192.01

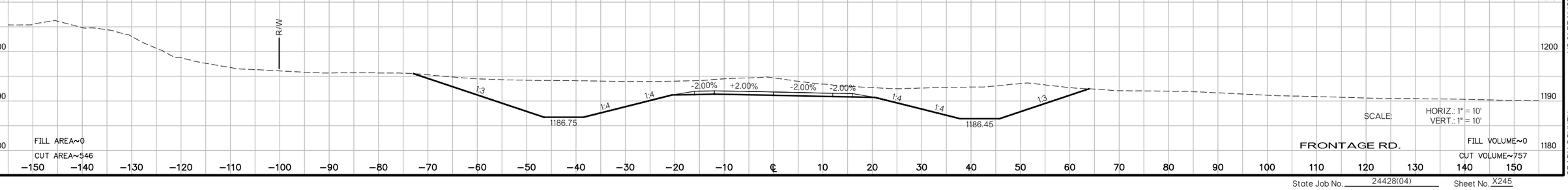


BEGIN FULL SUPERELEVATION
5138+89.10
F.G.=1191.97

5138+67.85
F.G.=1191.91



REVERSE CROSS SLOPE STATION
5138+42.74
F.G.=1191.83



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

FRONTAGE RD.

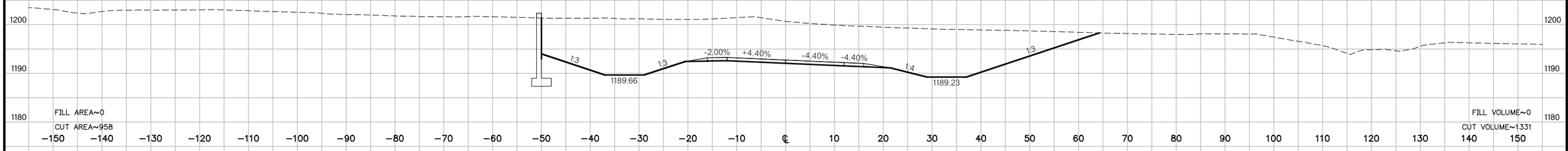
US 81 REALIGNMENT

GRADY COUNTY

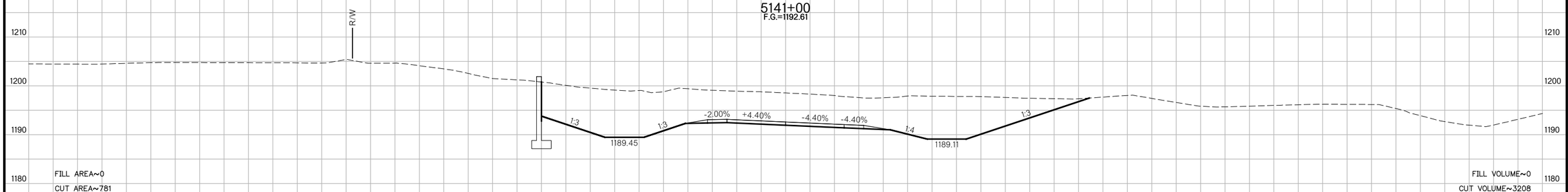
State Job No. 24428(04) Sheet No. X245

PROPOSED
R/W
AUGUST 2017

END FULL SUPERELEVATION
5141+41.35
F.G.=1192.73

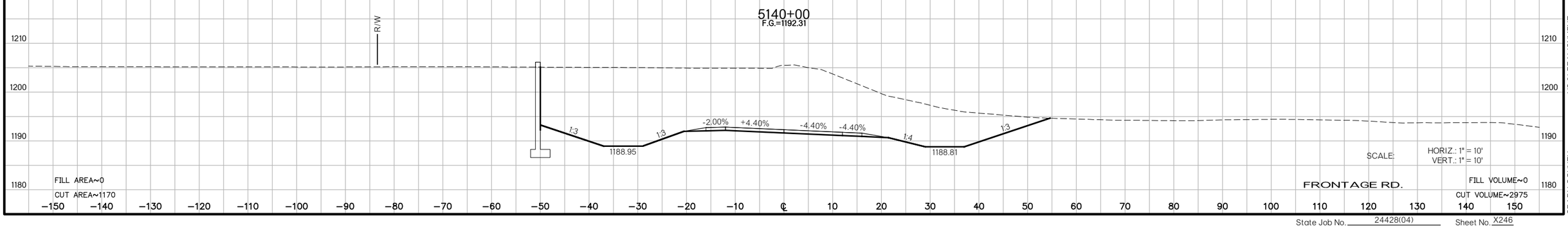


5141+00
F.G.=1192.61



5140+15.23
F.G.=1192.35

5140+00
F.G.=1192.31

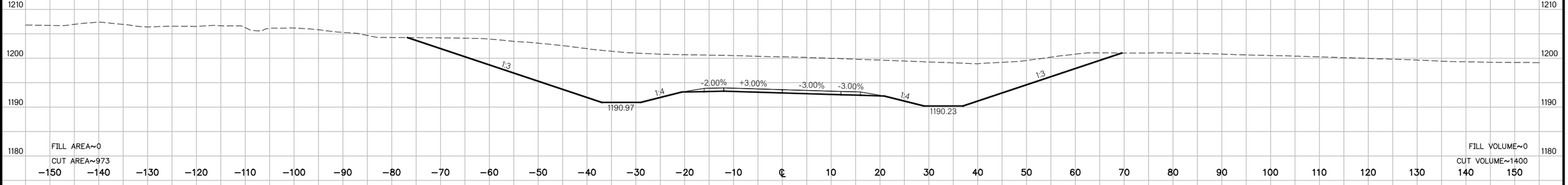


US 81 REALIGNMENT
GRADY COUNTY

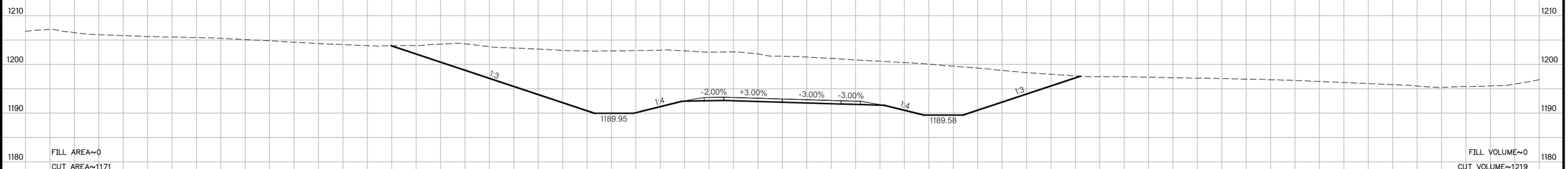
State Job No. 24428(04) Sheet No. X246

PROPOSED
R/W
AUGUST 2017

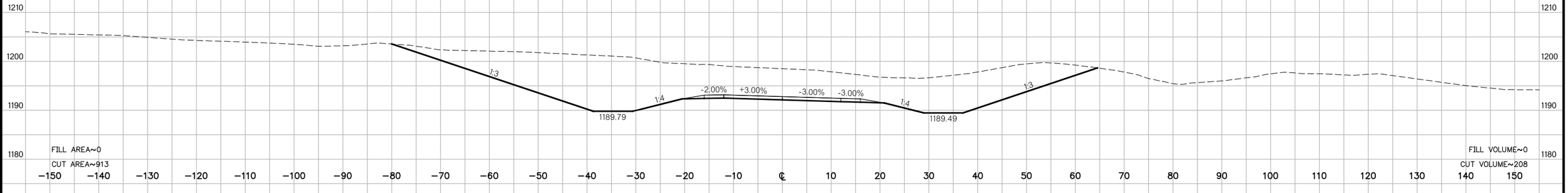
END PROJECT
5142+35.26
F.G.=1193.56



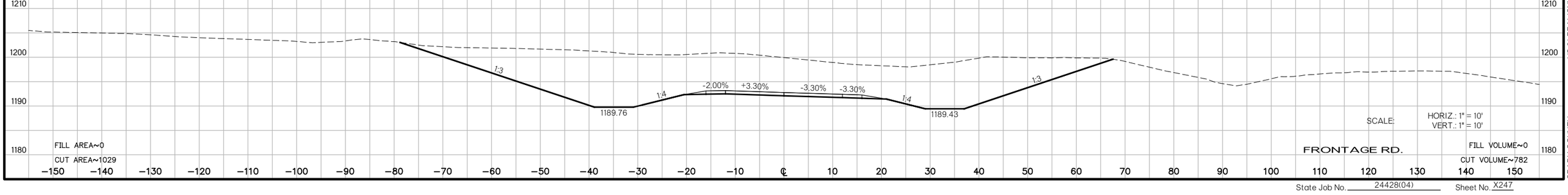
5142+00
F.G.=1192.91



REVERSE CROSS SLOPE STATION
5141+68.40
F.G.=1192.81



5141+62.60
F.G.=1192.79



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

FRONTAGE RD.

US 81 REALIGNMENT

GRADY COUNTY

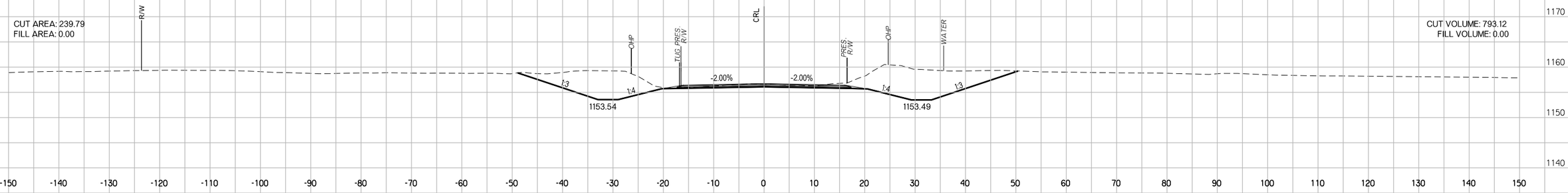
State Job No. 24428(04) Sheet No. X247

PROPOSED
R/W
AUGUST 2017

102+00.00
FG=1156.74
EG=1156.74

CUT AREA: 239.79
FILL AREA: 0.00

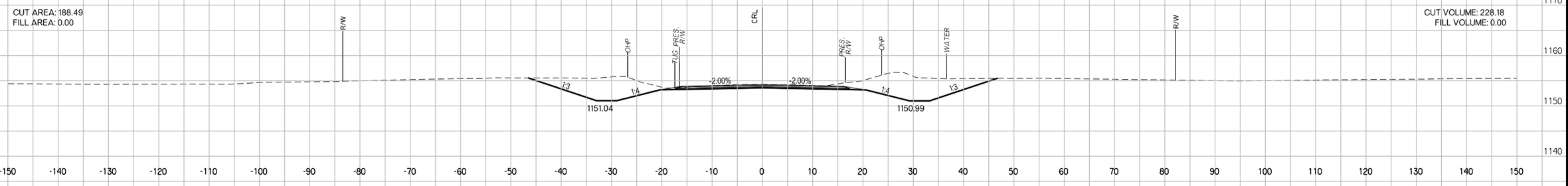
CUT VOLUME: 793.12
FILL VOLUME: 0.00



101+00.00
FG=1154.24
EG=1154.24

CUT AREA: 188.49
FILL AREA: 0.00

CUT VOLUME: 228.18
FILL VOLUME: 0.00

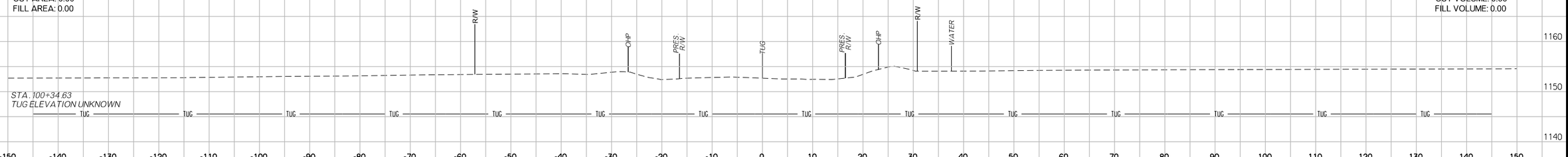


100+34.63

CUT AREA: 0.00
FILL AREA: 0.00

CUT VOLUME: 0.00
FILL VOLUME: 0.00

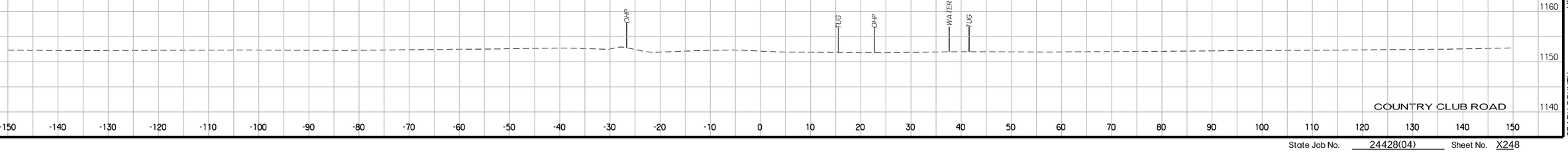
STA. 100+34.63
TUG ELEVATION UNKNOWN



100+00.00

CUT AREA: 0.00
FILL AREA: 0.00

CUT VOLUME: 0.00
FILL VOLUME: 0.00



US-81 REALIGNMENT
GRADY COUNTY

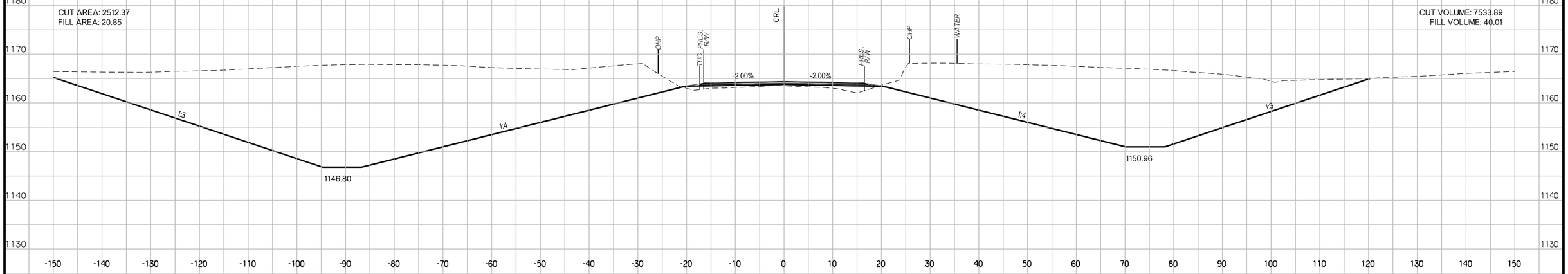
State Job No. 24428(04) Sheet No. X248

PROPOSED
R/W
AUGUST 2017

104+00.00
FG=1164.44
EG=1164.44

CUT AREA: 2512.37
FILL AREA: 20.85

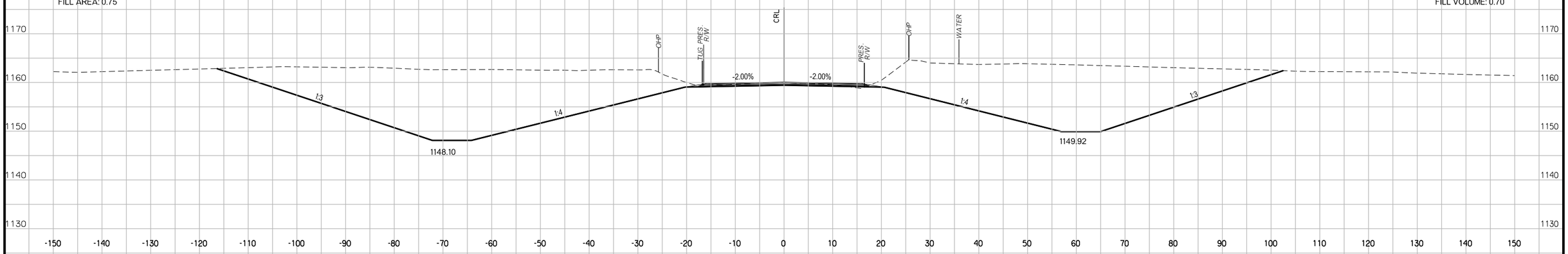
CUT VOLUME: 7533.89
FILL VOLUME: 40.01



103+00.00
FG=1160.10
EG=1160.10

CUT AREA: 1555.93
FILL AREA: 0.75

CUT VOLUME: 2495.64
FILL VOLUME: 0.70

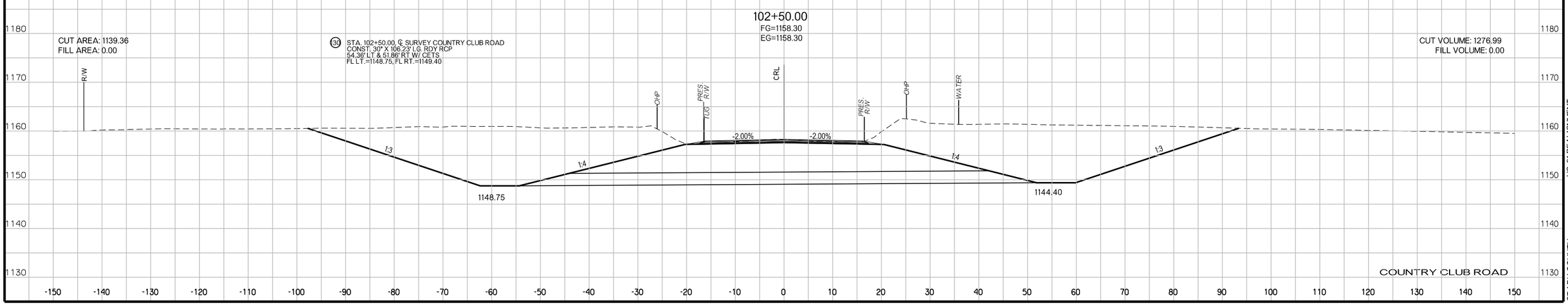


102+50.00
FG=1158.30
EG=1158.30

CUT AREA: 1139.36
FILL AREA: 0.00

(30) STA. 102+50.00, ℄ SURVEY COUNTRY CLUB ROAD
CONST. 30" X 106.23' LG. RDY RCP
54.36' LT & 51.86' RT W/ CETS
FL LT.=1148.75, FL RT.=1149.40

CUT VOLUME: 1276.99
FILL VOLUME: 0.00



COUNTRY CLUB ROAD

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X249

PROPOSED
R/W
AUGUST 2017

107+00.00
FG=1181.36
EG=1181.36

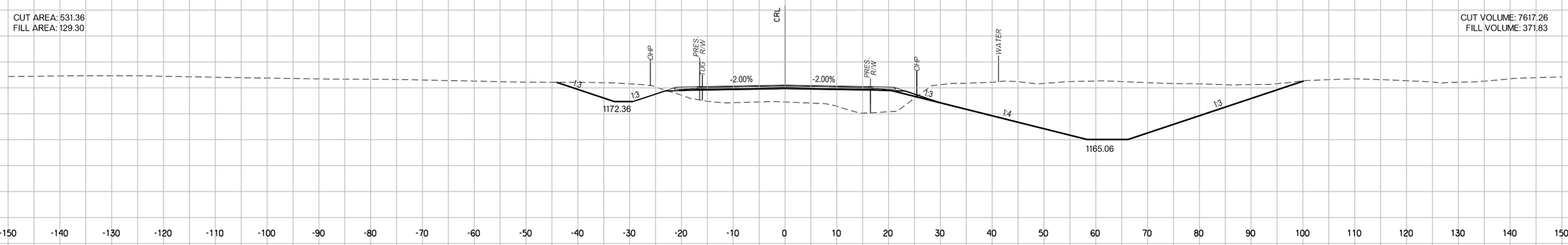
CUT AREA: 0.00
FILL AREA: 0.00

CUT VOLUME: 984.01
FILL VOLUME: 239.45

106+00.00
FG=1175.56
EG=1175.56

CUT AREA: 531.36
FILL AREA: 129.30

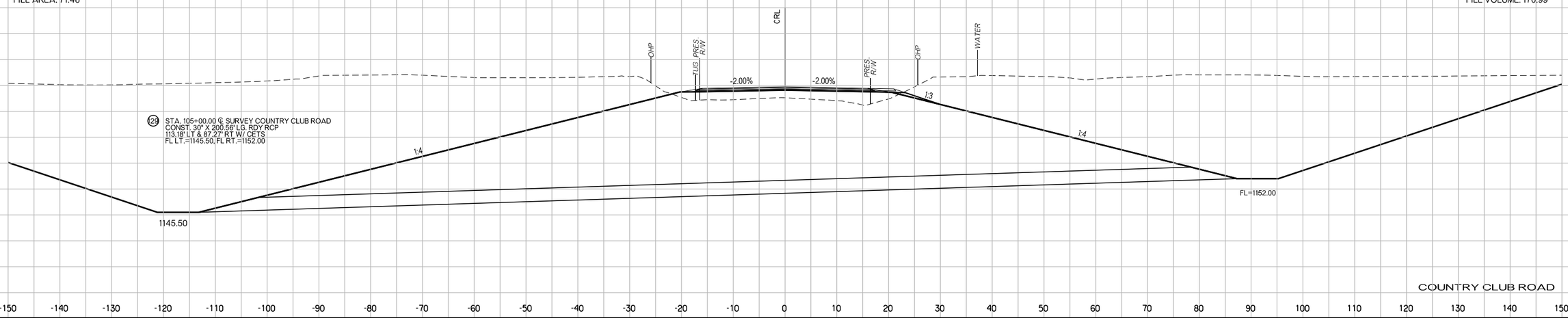
CUT VOLUME: 7617.26
FILL VOLUME: 371.83



105+00.00
FG=1169.76
EG=1169.76

CUT AREA: 3581.96
FILL AREA: 71.48

CUT VOLUME: 11285.79
FILL VOLUME: 170.99



(29) STA. 105+00.00 ℄ SURVEY COUNTRY CLUB ROAD
CONST. 30" X 200.56' LG. RDY RCP
113.18' LT & 87.27' RT W/ CETS
FL LT.=1145.50, FL RT.=1152.00

COUNTRY CLUB ROAD

US-81 REALIGNMENT
GRADY COUNTY

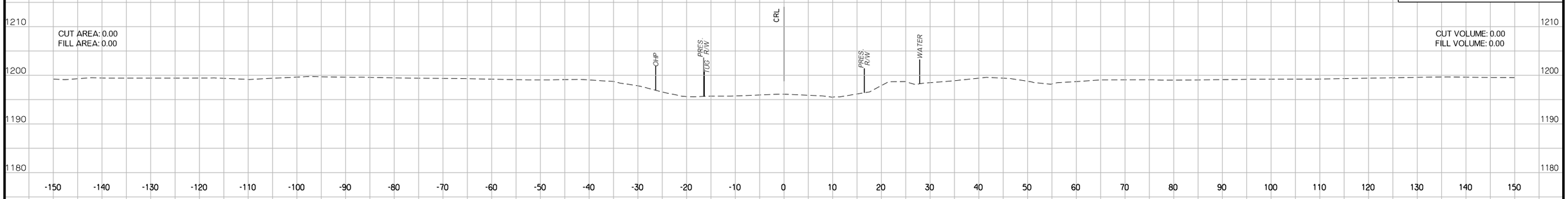
State Job No. 24428(04) Sheet No. X250

PROPOSED
R/W
AUGUST 2017

110+00.00
FG=1198.78
EG=1198.78

CUT AREA: 0.00
FILL AREA: 0.00

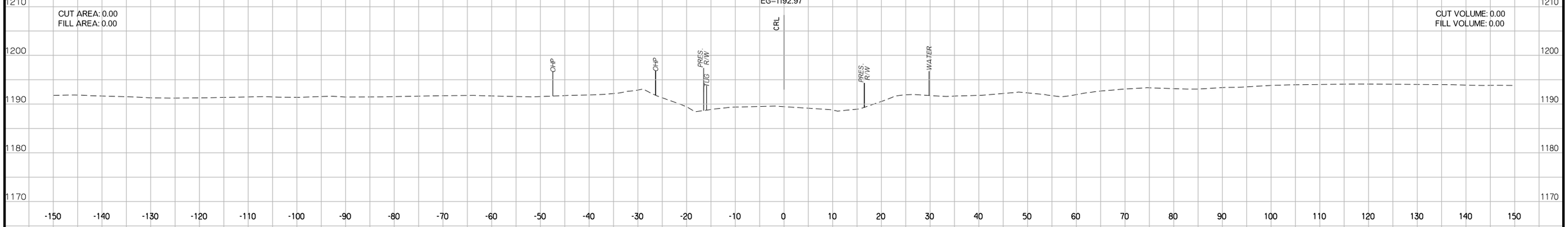
CUT VOLUME: 0.00
FILL VOLUME: 0.00



109+00.00
FG=1192.97
EG=1192.97

CUT AREA: 0.00
FILL AREA: 0.00

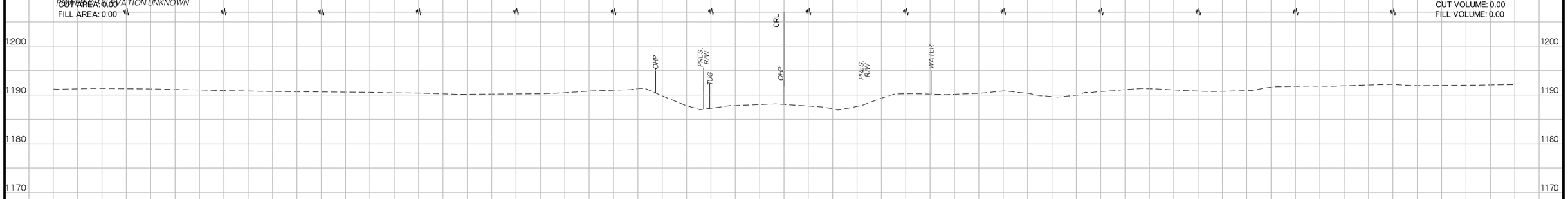
CUT VOLUME: 0.00
FILL VOLUME: 0.00



108+78.78
FG=1191.74
EG=1191.74

STA. 108+78.78
POINT ON ELEVATION UNKNOWN
CUT AREA: 0.00
FILL AREA: 0.00

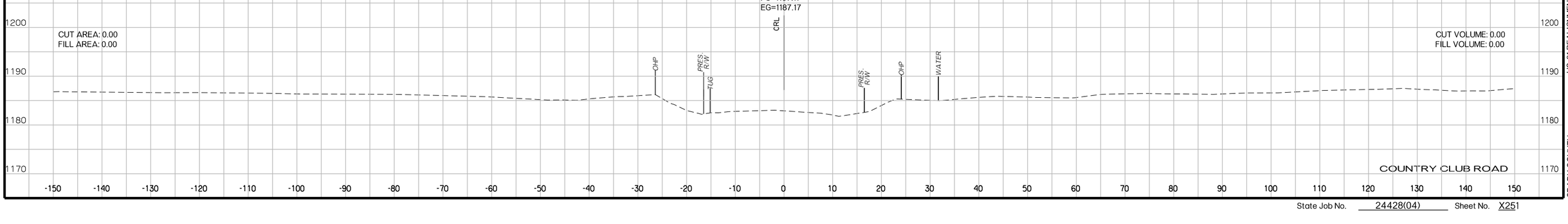
CUT VOLUME: 0.00
FILL VOLUME: 0.00



108+00.00
FG=1187.17
EG=1187.17

CUT AREA: 0.00
FILL AREA: 0.00

CUT VOLUME: 0.00
FILL VOLUME: 0.00



US-81 REALIGNMENT
GRADY COUNTY

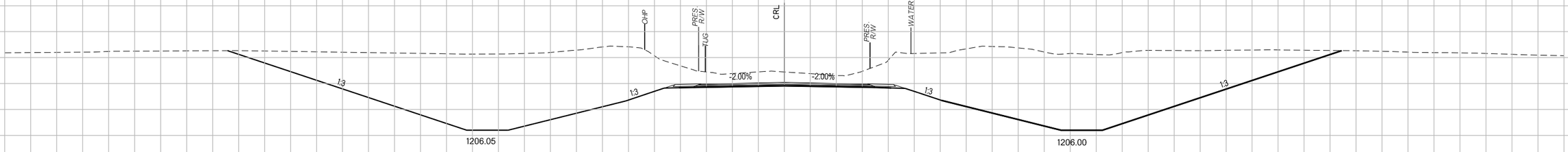
State Job No. 24428(04) Sheet No. X251

PROPOSED
R/W
AUGUST 2017

CUT AREA: 1699.00
FILL AREA: 0.00

113+00.00
FG=1215.24
EG=1215.24

CUT VOLUME: 3146.30
FILL VOLUME: 0.00



112+00.00
FG=1210.28
EG=1210.28

CUT AREA: 0.00
FILL AREA: 0.00

CUT VOLUME: 0.00
FILL VOLUME: 0.00

111+00.00
FG=1204.58
EG=1204.58

CUT AREA: 0.00
FILL AREA: 0.00

CUT VOLUME: 0.00
FILL VOLUME: 0.00

COUNTRY CLUB ROAD

US-81 REALIGNMENT
GRADY COUNTY

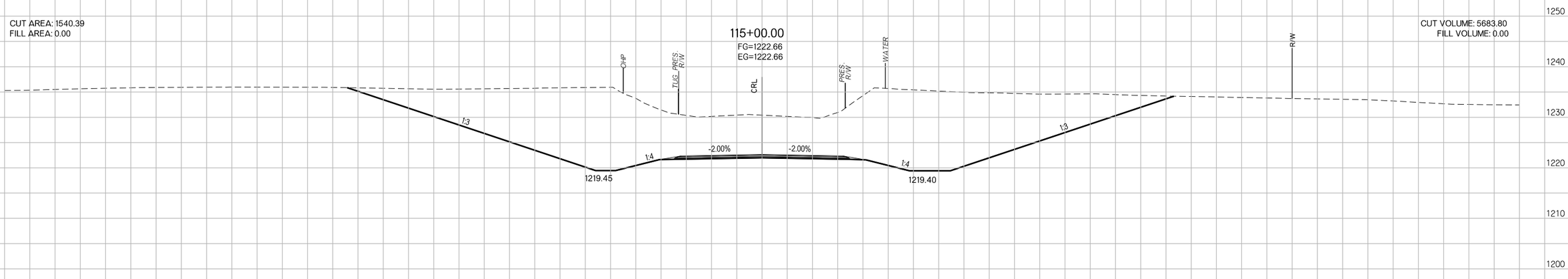
State Job No. 24428(04) Sheet No. X252

PROPOSED
R/W
AUGUST 2017

CUT AREA: 1540.39
FILL AREA: 0.00

115+00.00
FG=1222.66
EG=1222.66

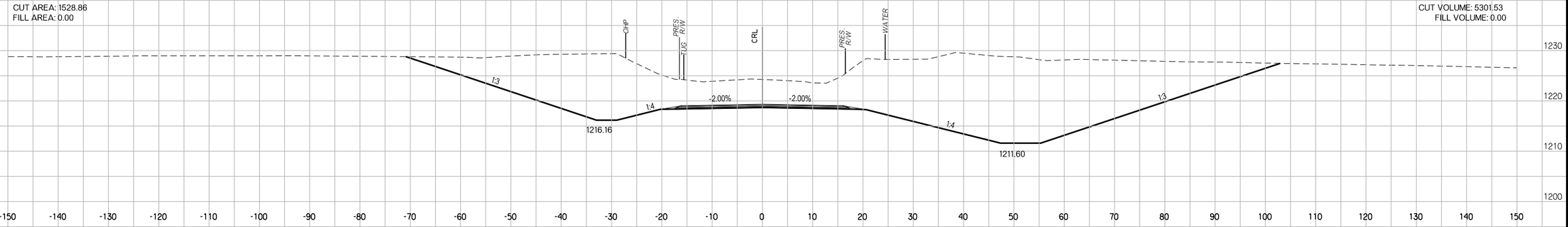
CUT VOLUME: 5683.80
FILL VOLUME: 0.00



CUT AREA: 1528.86
FILL AREA: 0.00

114+00.00
FG=1219.37
EG=1219.37

CUT VOLUME: 5301.53
FILL VOLUME: 0.00

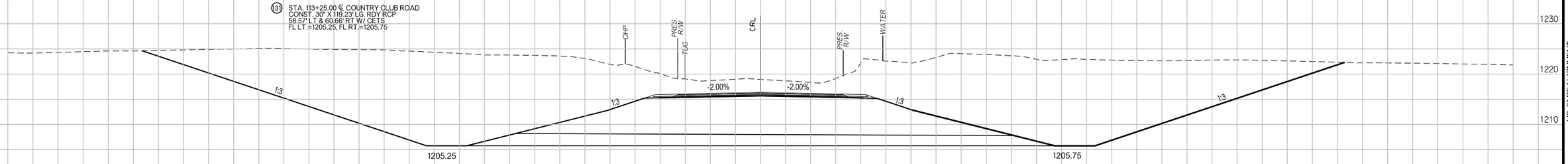


CUT AREA: 2288.24
FILL AREA: 0.00

113+25.00
FG=1216.35
EG=1216.35

CUT VOLUME: 1845.94
FILL VOLUME: 0.00

(131) STA. 113+25.00 ℄ COUNTRY CLUB ROAD
CONST. 30" X 119.23' LG. RDY RCP
58.57' LT & 60.66' RT W/ CETS
FL LT.=1205.25, FL RT.=1205.75



COUNTRY CLUB ROAD

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X253

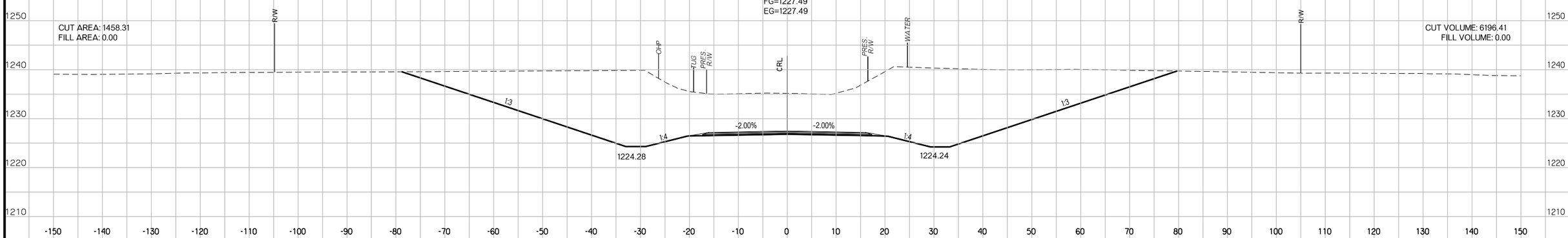
PROPOSED
R/W
AUGUST 2017

118+00.00

FG=1227.49
EG=1227.49

CUT AREA: 1458.31
FILL AREA: 0.00

CUT VOLUME: 6196.41
FILL VOLUME: 0.00

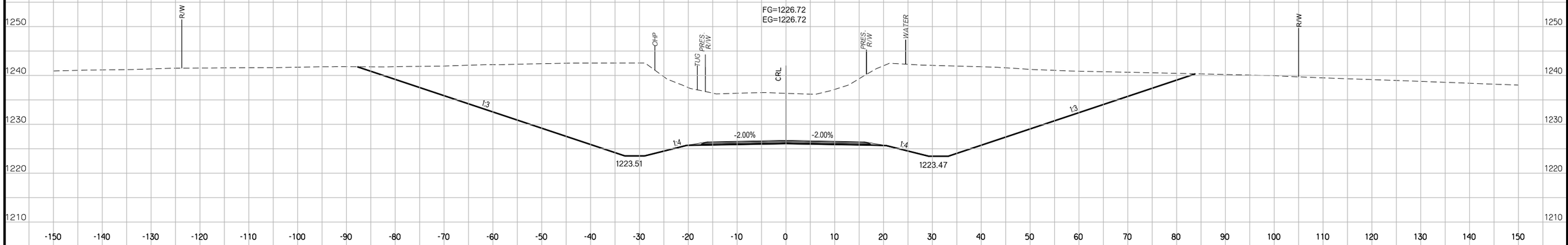


117+00.00

FG=1226.72
EG=1226.72

CUT AREA: 1887.75
FILL AREA: 0.00

CUT VOLUME: 6864.83
FILL VOLUME: 0.00

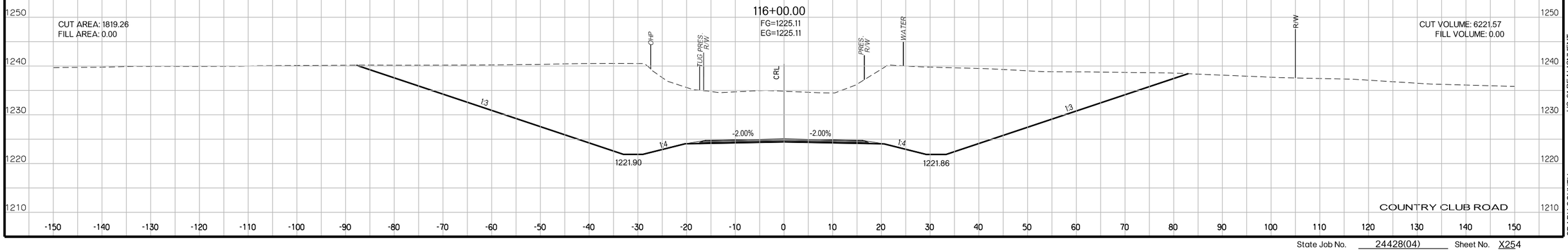


116+00.00

FG=1225.11
EG=1225.11

CUT AREA: 1819.26
FILL AREA: 0.00

CUT VOLUME: 6221.57
FILL VOLUME: 0.00



COUNTRY CLUB ROAD

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X254

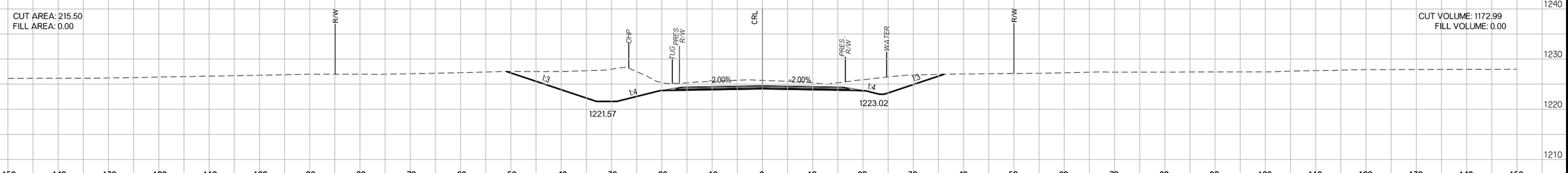
PROPOSED
R/W
AUGUST 2017

121+00.00

FG=1224.77
EG=1224.77

CUT AREA: 215.50
FILL AREA: 0.00

CUT VOLUME: 1172.99
FILL VOLUME: 0.00

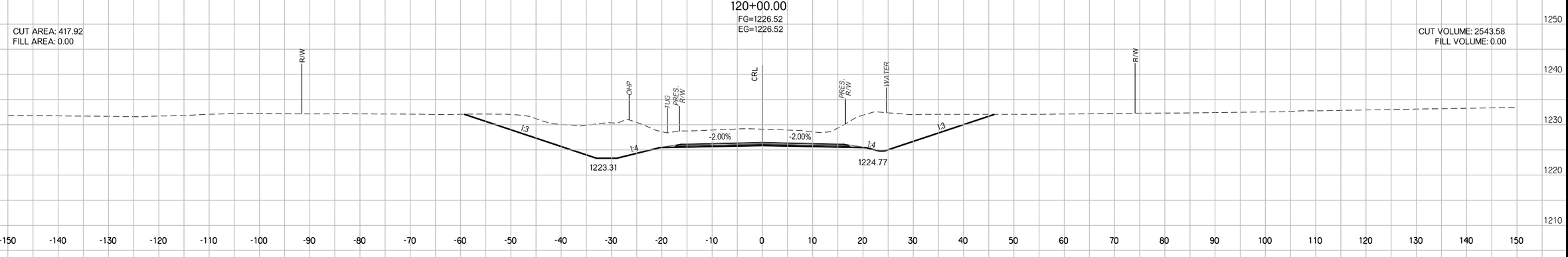


120+00.00

FG=1226.52
EG=1226.52

CUT AREA: 417.92
FILL AREA: 0.00

CUT VOLUME: 2543.58
FILL VOLUME: 0.00

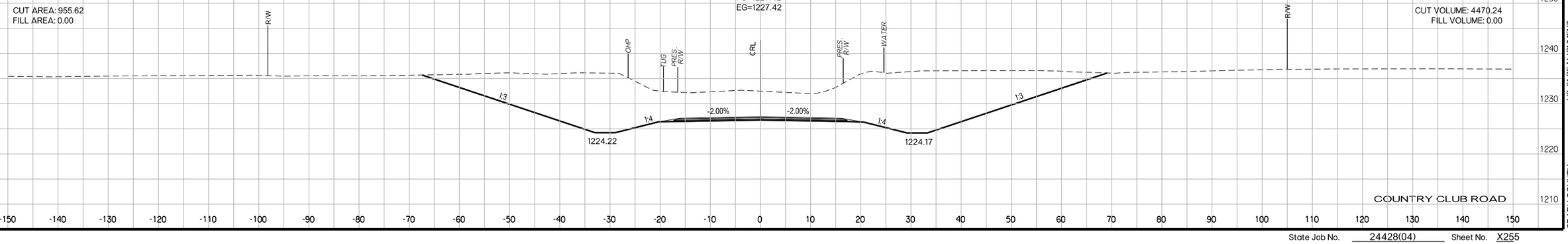


119+00.00

FG=1227.42
EG=1227.42

CUT AREA: 955.62
FILL AREA: 0.00

CUT VOLUME: 4470.24
FILL VOLUME: 0.00



COUNTRY CLUB ROAD

US-81 REALIGNMENT
GRADY COUNTY

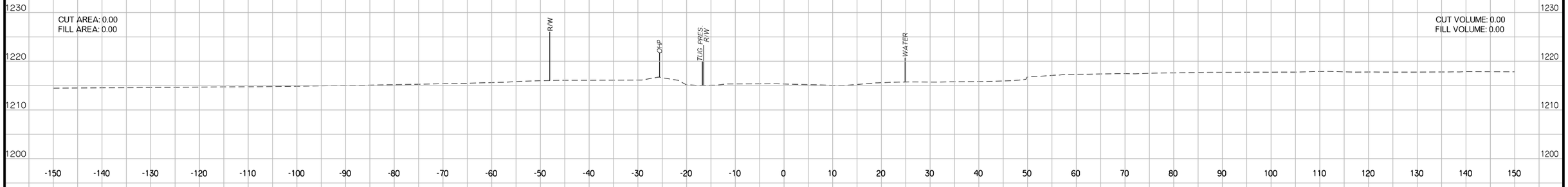
State Job No. 24428(04) Sheet No. X255

PROPOSED
R/W
AUGUST 2017

125+00.00

CUT AREA: 0.00
FILL AREA: 0.00

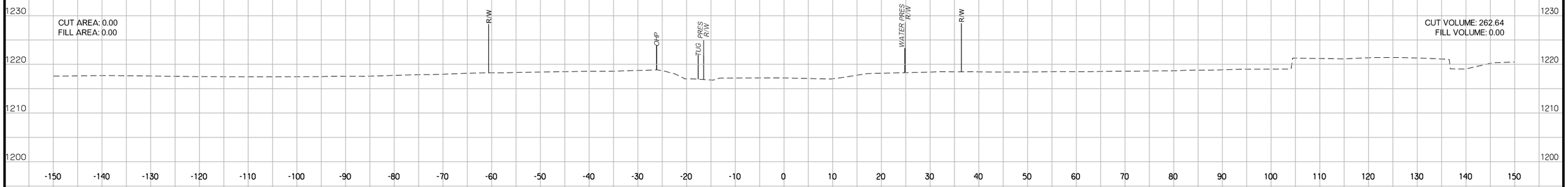
CUT VOLUME: 0.00
FILL VOLUME: 0.00



124+00.00

CUT AREA: 0.00
FILL AREA: 0.00

CUT VOLUME: 262.64
FILL VOLUME: 0.00

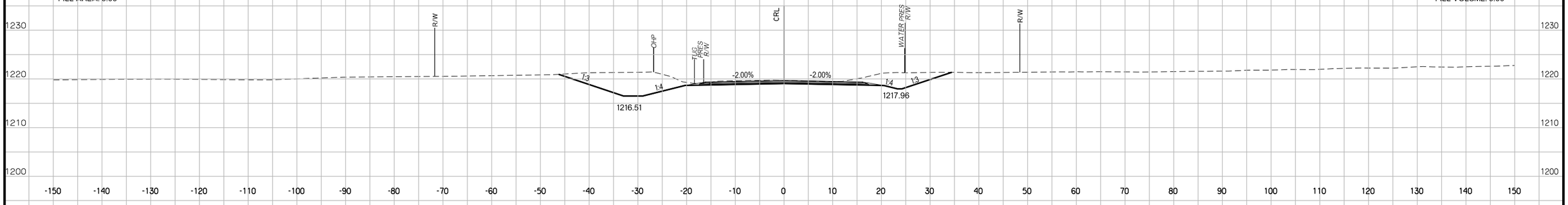


123+00.00

FG=1219.71
EG=1219.71

CUT AREA: 141.83
FILL AREA: 0.00

CUT VOLUME: 570.95
FILL VOLUME: 0.00

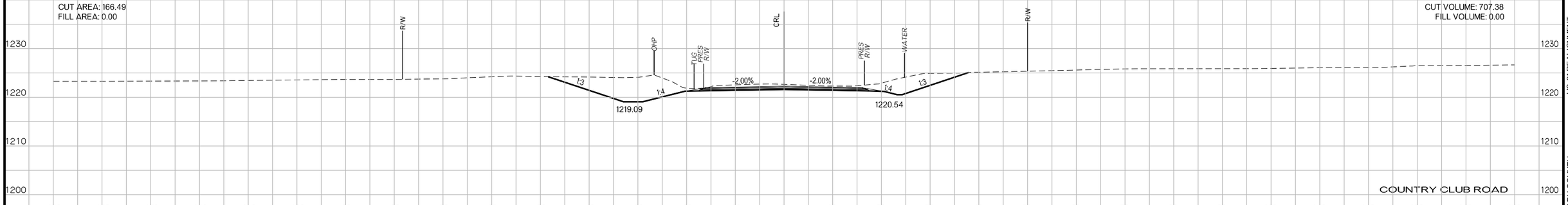


122+00.00

FG=1222.29
EG=1222.29

CUT AREA: 166.49
FILL AREA: 0.00

CUT VOLUME: 707.38
FILL VOLUME: 0.00



US-81 REALIGNMENT
GRADY COUNTY
COUNTRY CLUB ROAD

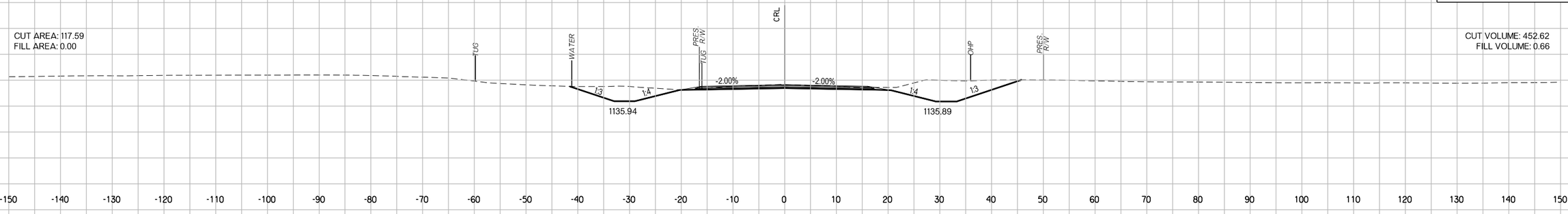
State Job No. 24428(04) Sheet No. X256

PROPOSED
R/W
AUGUST 2017

116+00.00
FG=1139.14
EG=1139.14

CUT AREA: 117.59
FILL AREA: 0.00

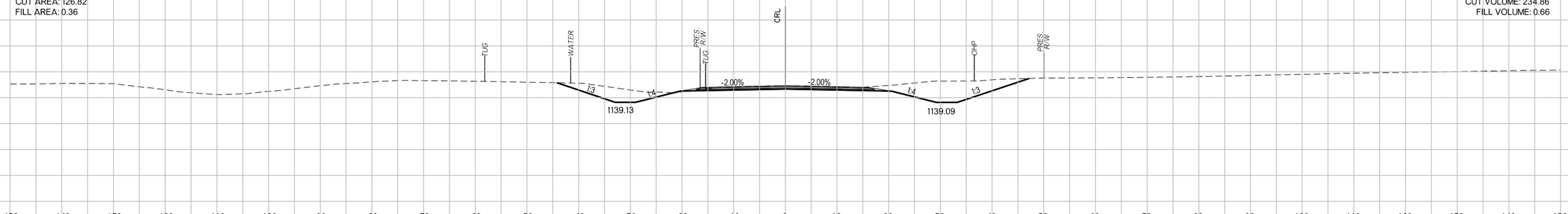
CUT VOLUME: 452.62
FILL VOLUME: 0.66



115+00.00
FG=1142.34
EG=1142.34

CUT AREA: 126.82
FILL AREA: 0.36

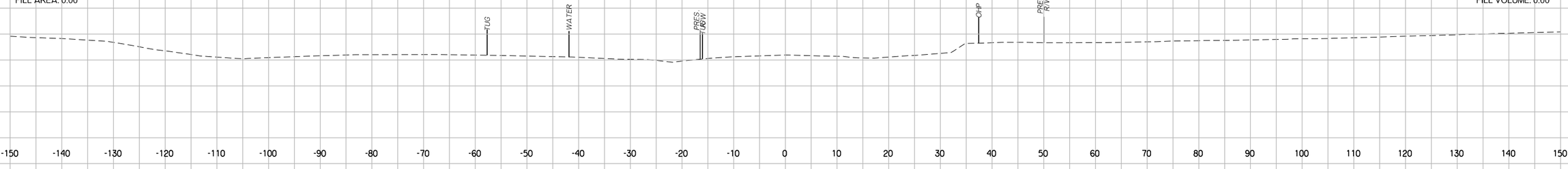
CUT VOLUME: 234.86
FILL VOLUME: 0.66



114+00.00

CUT AREA: 0.00
FILL AREA: 0.00

CUT VOLUME: 0.00
FILL VOLUME: 0.00



113+00.00

CUT AREA: 0.00
FILL AREA: 0.00

CUT VOLUME: 0.00
FILL VOLUME: 0.00

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

GRAND AVENUE

US-81 REALIGNMENT
GRADY COUNTY

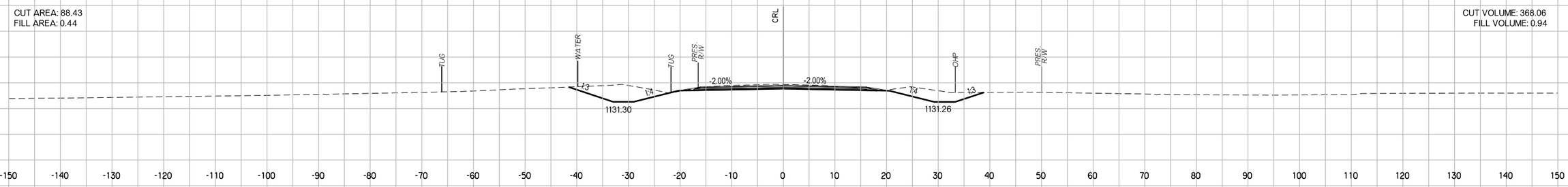
State Job No. 24428(04) Sheet No. X257

PROPOSED
R/W
AUGUST 2017

120+00.00
FG=1134.51
EG=1134.51

CUT AREA: 88.43
FILL AREA: 0.44

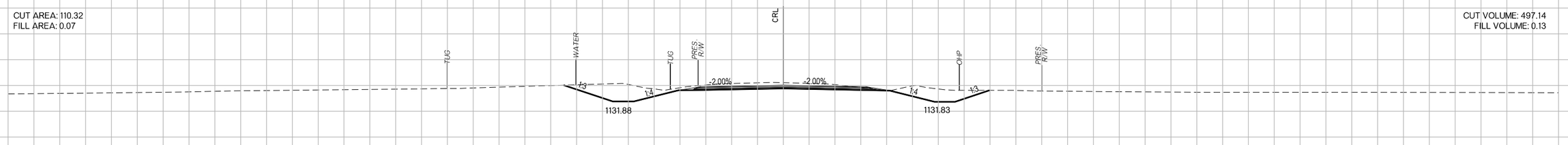
CUT VOLUME: 368.06
FILL VOLUME: 0.94



119+00.00
FG=1135.08
EG=1135.08

CUT AREA: 110.32
FILL AREA: 0.07

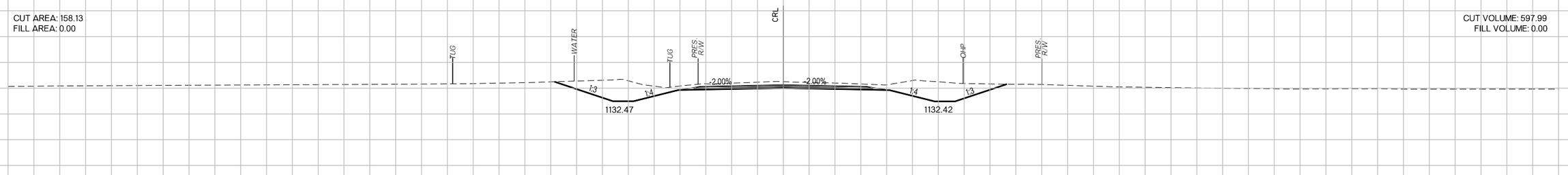
CUT VOLUME: 497.14
FILL VOLUME: 0.13



118+00.00
FG=1135.67
EG=1135.67

CUT AREA: 158.13
FILL AREA: 0.00

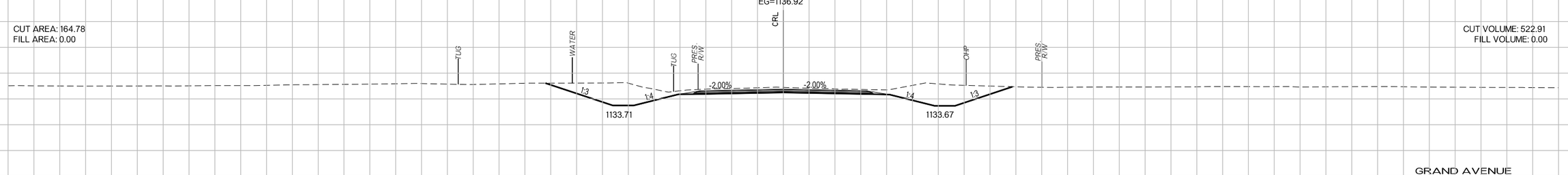
CUT VOLUME: 597.99
FILL VOLUME: 0.00



117+00.00
FG=1136.92
EG=1136.92

CUT AREA: 164.78
FILL AREA: 0.00

CUT VOLUME: 522.91
FILL VOLUME: 0.00



GRAND AVENUE

US-81 REALIGNMENT
GRADY COUNTY

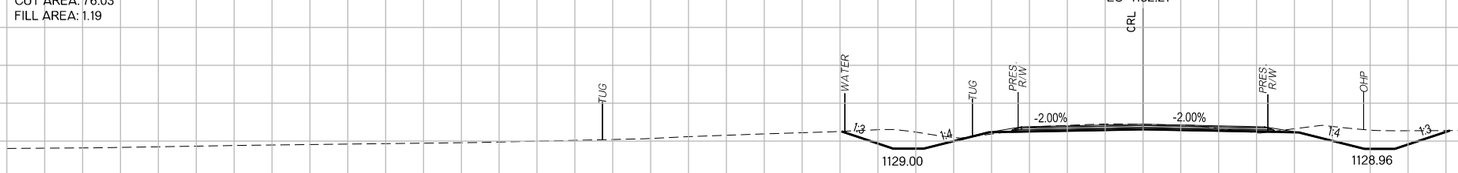
State Job No. 24428(04) Sheet No. X258

PROPOSED
R/W
AUGUST 2017

124+00.00
FG=1132.21
EG=1132.21

CUT AREA: 76.03
FILL AREA: 1.19

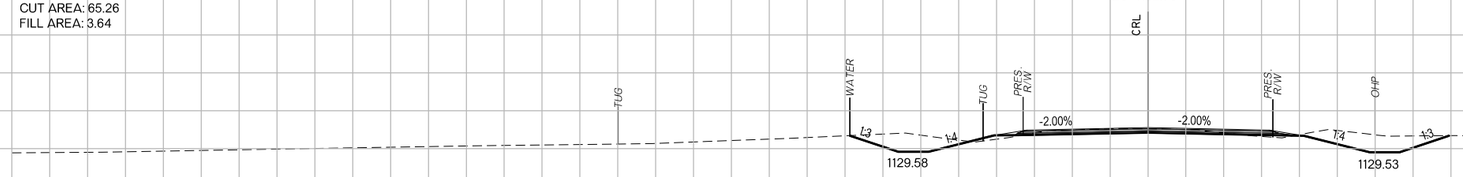
CUT VOLUME: 261.64
FILL VOLUME: 8.93



123+00.00
FG=1132.78
EG=1132.78

CUT AREA: 65.26
FILL AREA: 3.64

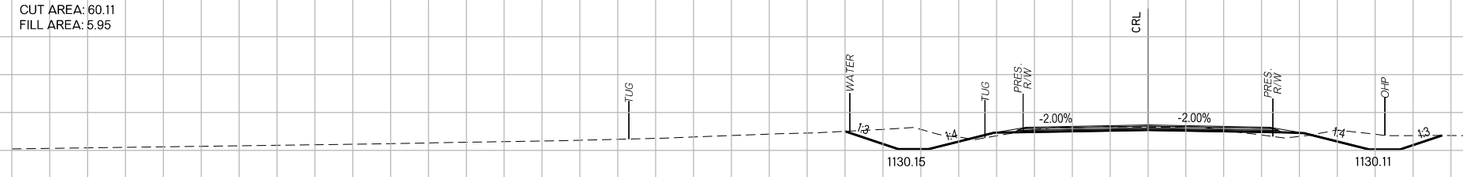
CUT VOLUME: 232.17
FILL VOLUME: 17.76



122+00.00
FG=1133.36
EG=1133.36

CUT AREA: 60.11
FILL AREA: 5.95

CUT VOLUME: 228.84
FILL VOLUME: 19.93



121+00.00
FG=1133.93
EG=1133.93

CUT AREA: 63.46
FILL AREA: 4.81

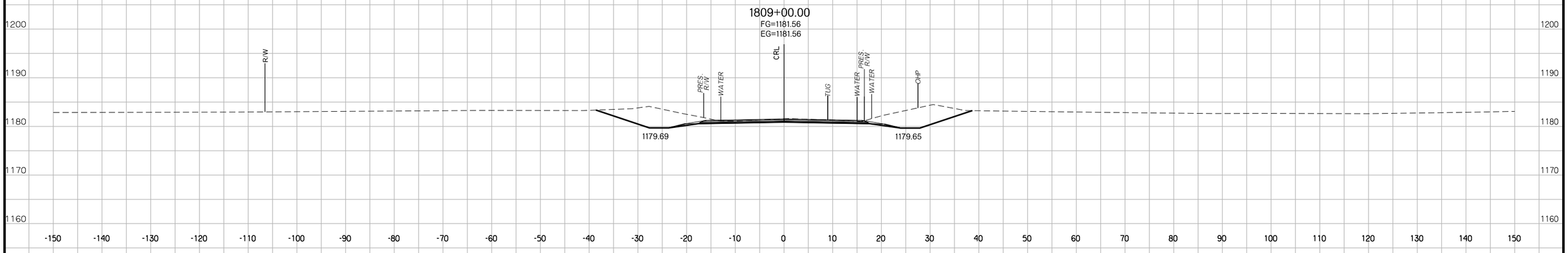
CUT VOLUME: 281.28
FILL VOLUME: 9.71

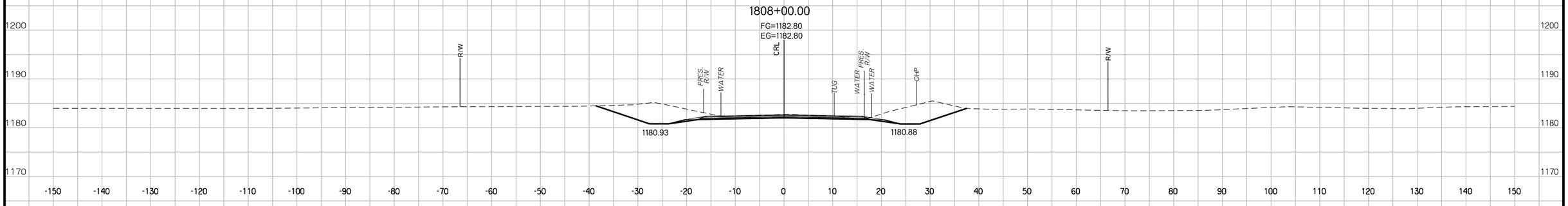
GRAND AVENUE

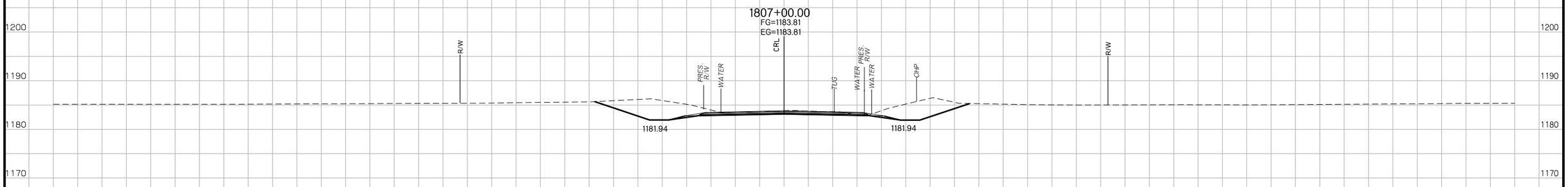
US-81 REALIGNMENT
GRADY COUNTY

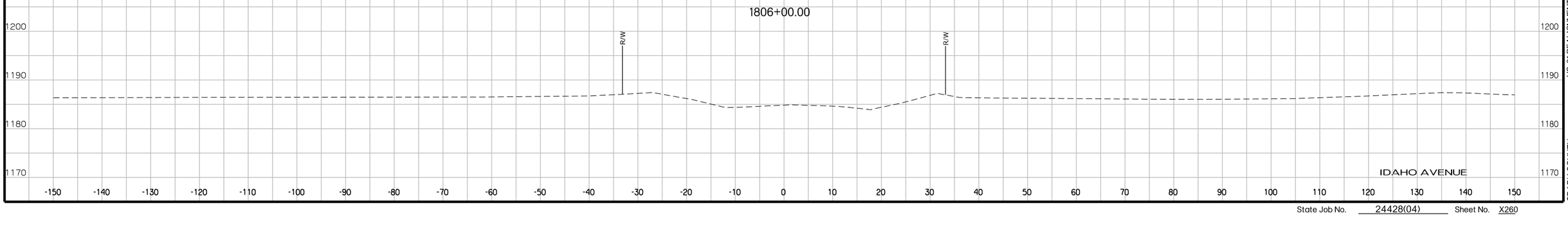
State Job No. 24428(04) Sheet No. X259

PROPOSED
R/W
AUGUST 2017





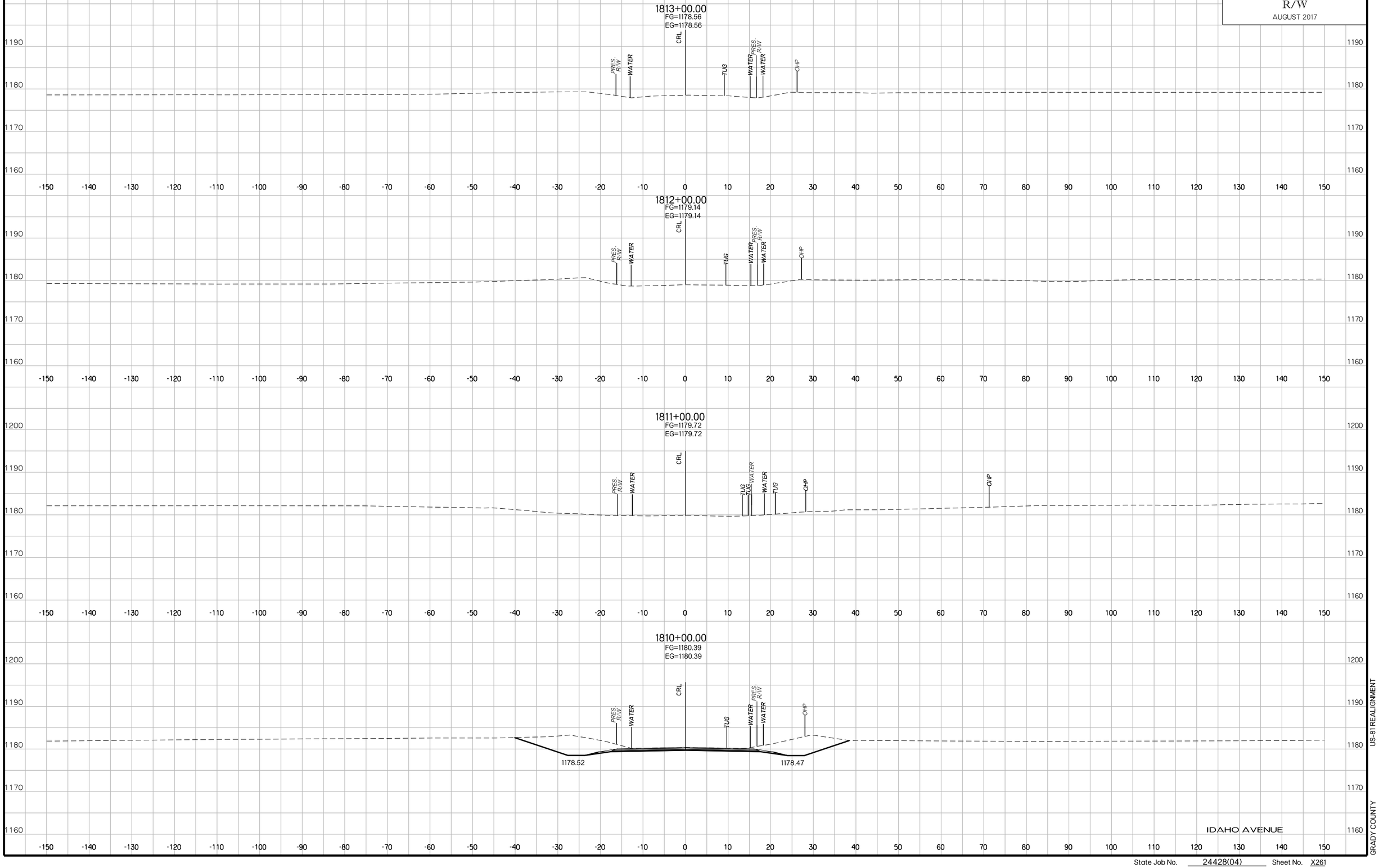




US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X260

PROPOSED
R/W
AUGUST 2017



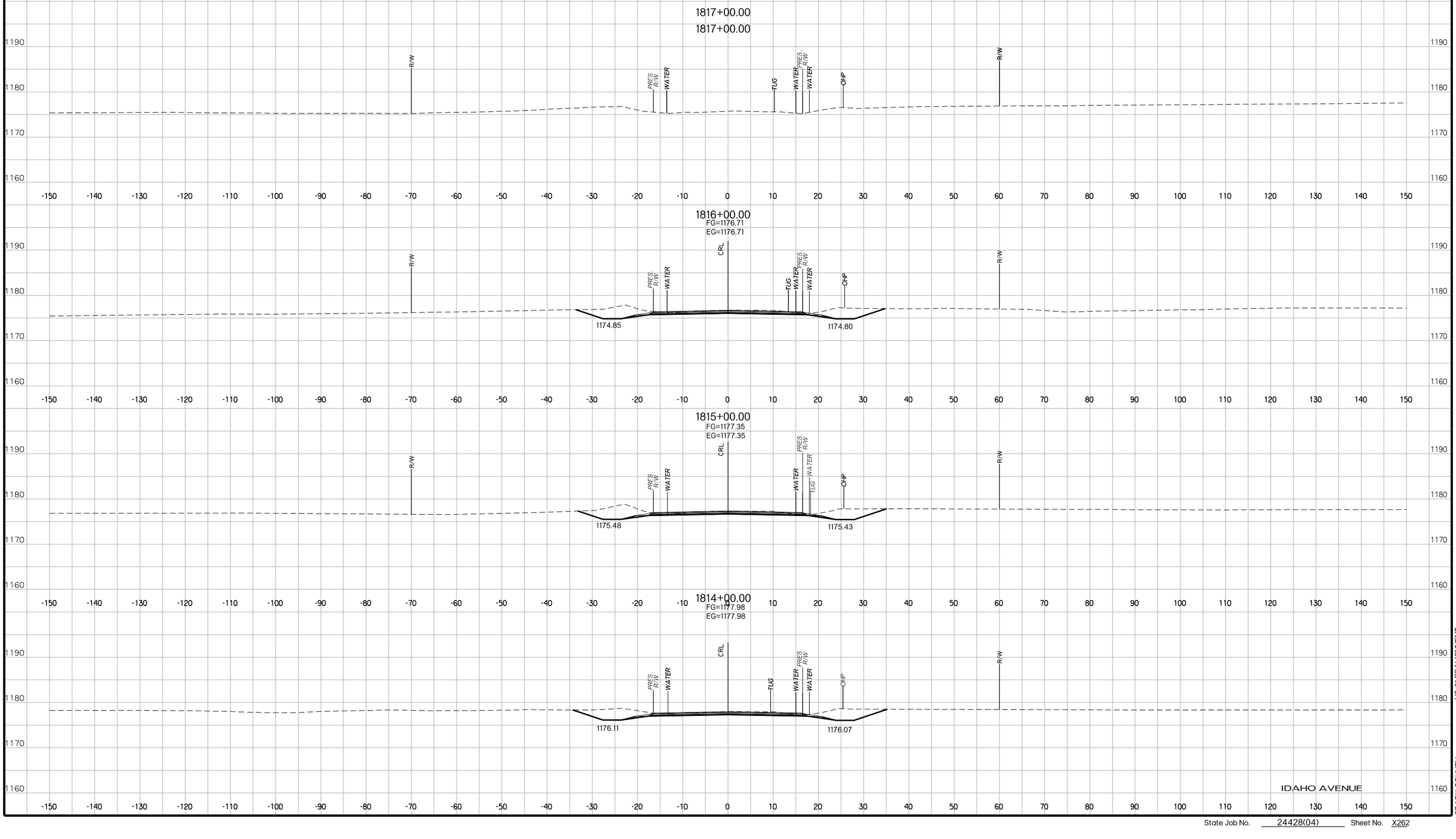
US-81 REALIGNMENT

GRADY COUNTY

IDAHO AVENUE

State Job No. 24428(04) Sheet No. X261

PROPOSED
R/W
AUGUST 2017



IDAHO AVENUE

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X262

PROPOSED
R/W
AUGUST 2017

302+02.72
FG=1163.41
EG=1163.41

CUT AREA: 60.83
FILL AREA: 9.06

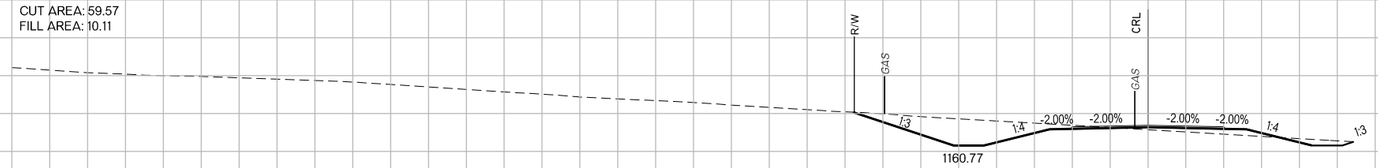
CUT VOLUME: 6.06
FILL VOLUME: 0.97

STA. 302+02.72
GAS ELEVATION UNKNOWN

302+00.00
FG=1163.44
EG=1163.44

CUT AREA: 59.57
FILL AREA: 10.11

CUT VOLUME: 208.32
FILL VOLUME: 26.73



301+00.00
FG=1165.48
EG=1165.48

CUT AREA: 52.92
FILL AREA: 4.32

CUT VOLUME: 98.01
FILL VOLUME: 8.00

300+00.00

CUT AREA: 0.00
FILL AREA: 0.00

CUT VOLUME: 0.00
FILL VOLUME: 0.00

COUNTY ROAD

US-81 REALIGNMENT
GRADY COUNTY

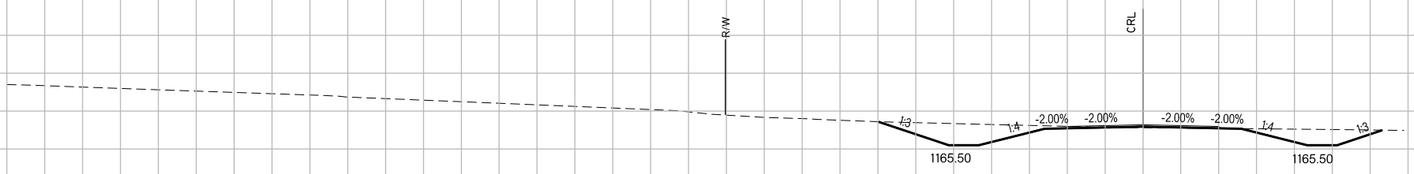
State Job No. 24428(04) Sheet No. X263

PROPOSED
R/W
AUGUST 2017

CUT AREA: 63.16
FILL AREA: 0.91

305+00.00
FG=1168.18
EG=1168.18

CUT VOLUME: 347.53
FILL VOLUME: 1.68



CUT AREA: 124.51
FILL AREA: 0.00

304+00.00
FG=1164.79
EG=1164.79

CUT VOLUME: 523.63
FILL VOLUME: 0.00

303+00.00
FG=1163.17
EG=1163.17

CUT AREA: 158.25
FILL AREA: 0.00

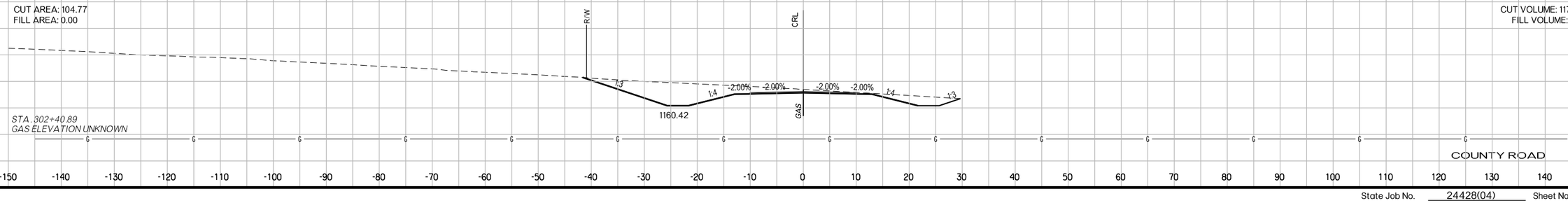
CUT VOLUME: 287.91
FILL VOLUME: 0.00

302+40.89
FG=1163.10
EG=1163.10

CUT AREA: 104.77
FILL AREA: 0.00

CUT VOLUME: 117.05
FILL VOLUME: 6.41

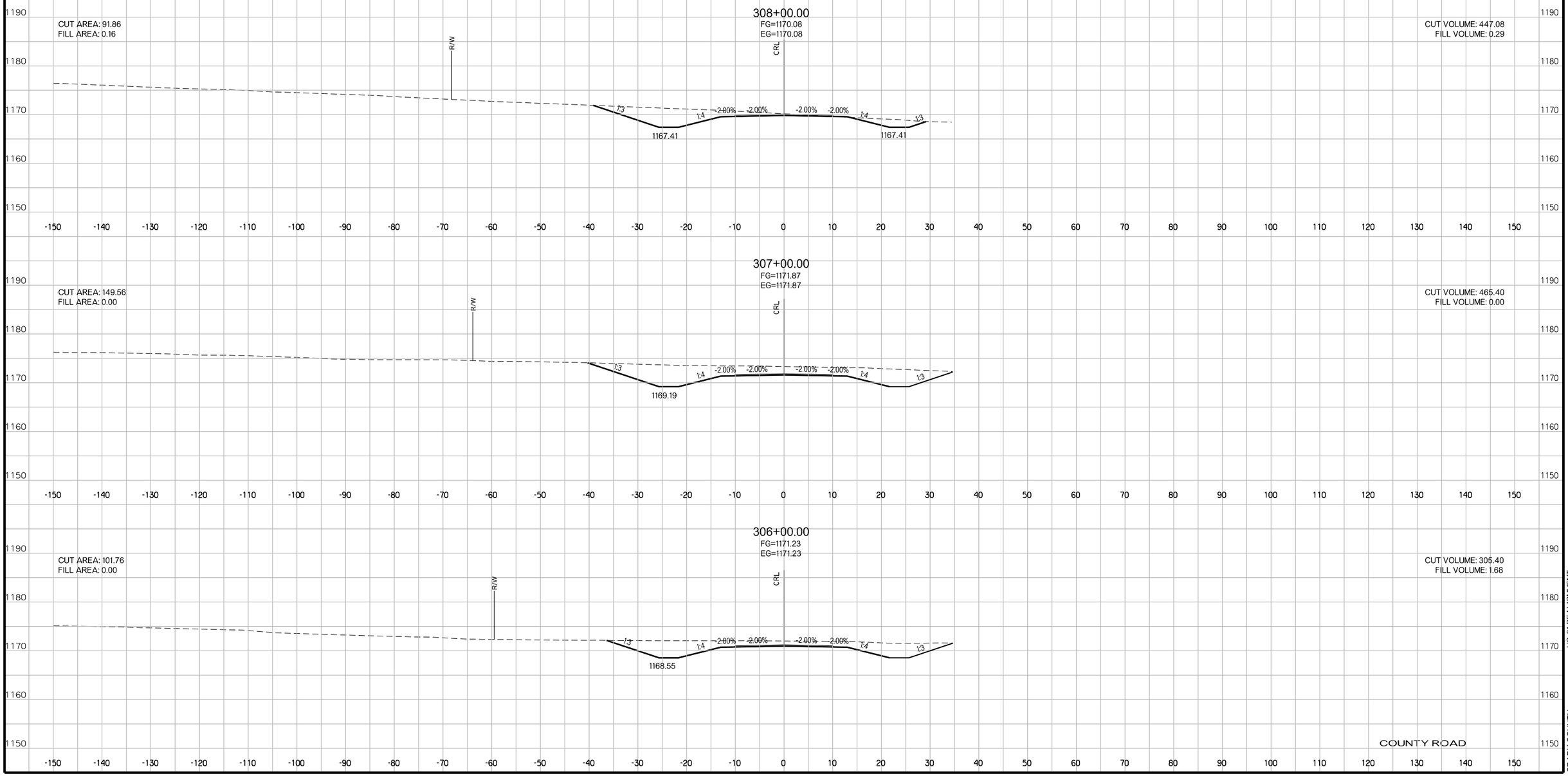
STA. 302+40.89
GAS ELEVATION UNKNOWN



US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X264

PROPOSED
R/W
AUGUST 2017



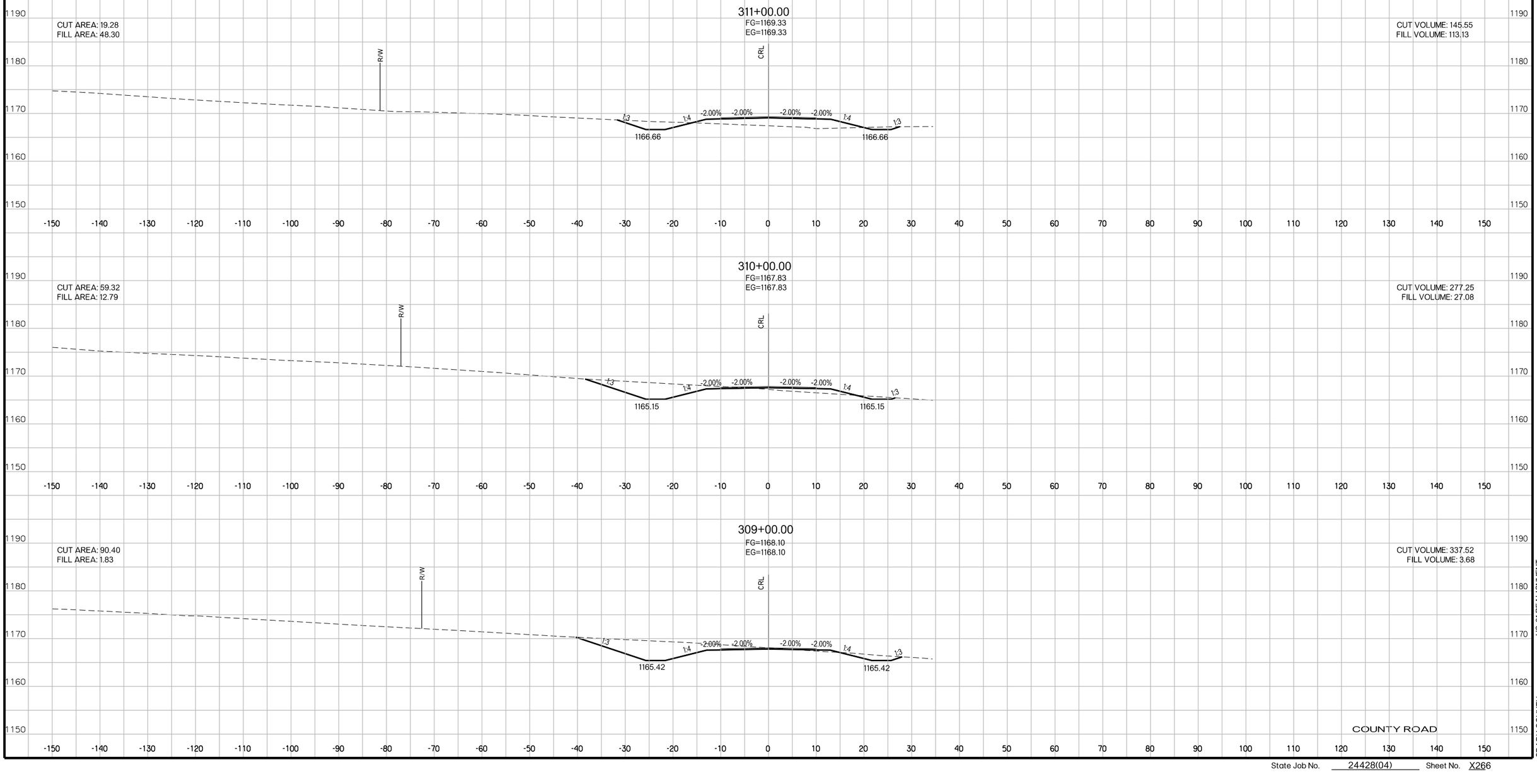
COUNTY ROAD

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X265

PROPOSED
R/W
AUGUST 2017



COUNTY ROAD

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X266

PROPOSED
R/W
AUGUST 2017

314+00.00
FG=1176.82
EG=1176.82

CUT AREA: 110.28
FILL AREA: 0.00

CUT VOLUME: 476.11
FILL VOLUME: 0.00

313+00.00
FG=1175.92
EG=1175.92

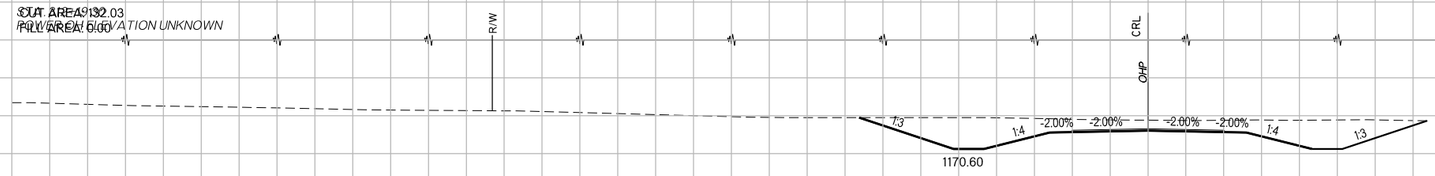
CUT AREA: 146.82
FILL AREA: 0.00

CUT VOLUME: 416.73
FILL VOLUME: 0.00

312+19.30
FG=1173.27
EG=1173.27

CUT AREA: 132.03
FILL AREA: 0.00
POWERPOLE ELEVATION UNKNOWN

CUT VOLUME: 90.95
FILL VOLUME: 0.00



312+00.00
FG=1172.56
EG=1172.56

CUT AREA: 122.44
FILL AREA: 0.00

CUT VOLUME: 262.43
FILL VOLUME: 89.44

COUNTY ROAD

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X267

PROPOSED
R/W
AUGUST 2017

317+00.00
FG=1168.01
EG=1168.01

CUT AREA: 148.86
FILL AREA: 0.00

CUT VOLUME: 433.39
FILL VOLUME: 0.01

316+00.00
FG=1170.75
EG=1170.75

CUT AREA: 85.17
FILL AREA: 0.00

CUT VOLUME: 362.24
FILL VOLUME: 0.00

315+00.00
FG=1174.90
EG=1174.90

CUT AREA: 110.44
FILL AREA: 0.00

CUT VOLUME: 408.73
FILL VOLUME: 0.00

COUNTY ROAD

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X268

PROPOSED
R/W
AUGUST 2017

320+00.00

FG=1171.15
EG=1171.15

CUT AREA: 100.30
FILL AREA: 0.00

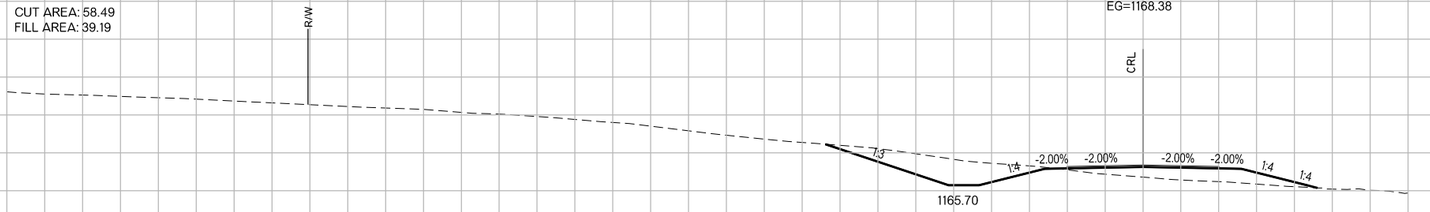
CUT VOLUME: 294.05
FILL VOLUME: 72.57

319+00.00

FG=1168.38
EG=1168.38

CUT AREA: 58.49
FILL AREA: 39.19

CUT VOLUME: 567.47
FILL VOLUME: 72.57

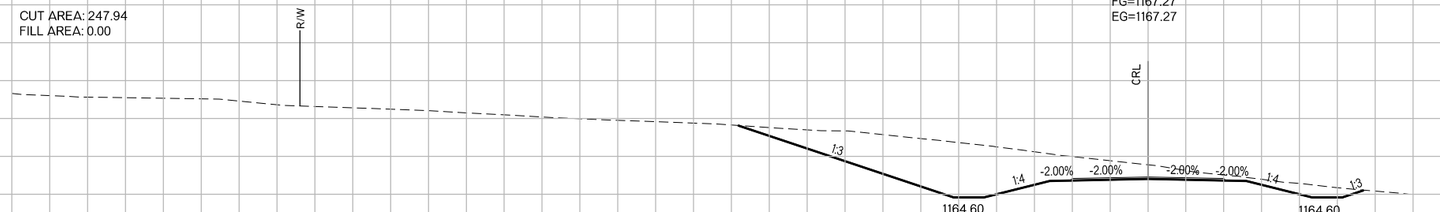


318+00.00

FG=1167.27
EG=1167.27

CUT AREA: 247.94
FILL AREA: 0.00

CUT VOLUME: 734.82
FILL VOLUME: 0.01



COUNTY ROAD

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X269

PROPOSED
R/W
AUGUST 2017

324+00.00
FG=1178.17
EG=1178.17

CUT AREA: 64.35
FILL AREA: 0.12

CUT VOLUME: 167.68
FILL VOLUME: 0.22

323+00.00
FG=1178.93
EG=1178.93

CUT AREA: 26.20
FILL AREA: 0.00

CUT VOLUME: 157.72
FILL VOLUME: 0.00

322+00.00
FG=1178.54
EG=1178.54

CUT AREA: 58.97
FILL AREA: 0.00

CUT VOLUME: 386.71
FILL VOLUME: 0.00

321+00.00
FG=1175.51
EG=1175.51

CUT AREA: 149.86
FILL AREA: 0.00

CUT VOLUME: 463.24
FILL VOLUME: 0.00

COUNTY ROAD

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X270

PROPOSED
R/W
AUGUST 2017

327+28.09

FG=1175.68
EG=1175.68

STA. 327+28.09
POWER OH ELEVATION UNKNOWN

CUT AREA: 271.14
FILL AREA: 0.00

CUT VOLUME: 229.41
FILL VOLUME: 0.00

CRL
OHP
1:3
1:4
-2.00%
-2.00%
-2.00%
-2.00%
1:4
1:3
1173.00
1173.00

327+00.00

FG=1175.89
EG=1175.89

CUT AREA: 152.58
FILL AREA: 0.00

CUT VOLUME: 565.96
FILL VOLUME: 0.00

CRL
R/W
TEMP. R/W
1:3
1:4
-2.00%
-2.00%
-2.00%
-2.00%
1:4
1:3
1173.22
1173.22

326+00.00

FG=1176.65
EG=1176.65

CUT AREA: 153.04
FILL AREA: 0.00

CUT VOLUME: 471.88
FILL VOLUME: 0.00

CRL
TEMP. R/W
1:3
1:4
-2.00%
-2.00%
-2.00%
-2.00%
1:4
1:3
1173.98
1173.98

325+00.00

FG=1177.41
EG=1177.41

CUT AREA: 101.78
FILL AREA: 0.00

CUT VOLUME: 307.65
FILL VOLUME: 0.22

CRL
TEMP. R/W
1:3
1:4
-2.00%
-2.00%
-2.00%
-2.00%
1:4
1:3
1174.74
1174.74

COUNTY ROAD

1190
1180
1170
1160

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X271

PROPOSED
R/W
AUGUST 2017

327+53.58

CUT AREA: 34.62
FILL AREA: 0.00

CUT VOLUME: 14.16
FILL VOLUME: 0.00

327+43.31

CUT AREA: 39.88
FILL AREA: 0.00

CUT VOLUME: 10.06
FILL VOLUME: 0.04

TUG

STA. 327+43.31
TUG ELEVATION UNKNOWN

327+38.58
FG=1175.60
EG=1175.60

CUT AREA: 74.99
FILL AREA: 0.50

CUT VOLUME: 8.76
FILL VOLUME: 0.03

CRL

1:3 1:4 -2.00% -2.00% -2.00% -2.00% 1:4 1:3

1172.92 1172.92

STA. 327+38.58
WATER ELEVATION UNKNOWN

327+35.58
FG=1175.62
EG=1175.62

CUT AREA: 82.72
FILL AREA: 0.00

CUT VOLUME: 49.08
FILL VOLUME: 0.00

1172.94 1172.94

STA. 327+35.58
WATER ELEVATION UNKNOWN

COUNTY ROAD

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X272

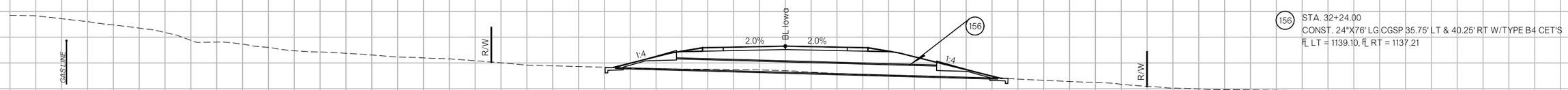
8/27/2017

PROPOSED
R/W
AUGUST 2017

CUT AREA = 0.00 S.F.
FILL AREA = 238.76 S.F.

32+24

CUT VOL. = 0.00 C.Y.
FILL VOL. = 160.85 C.Y.

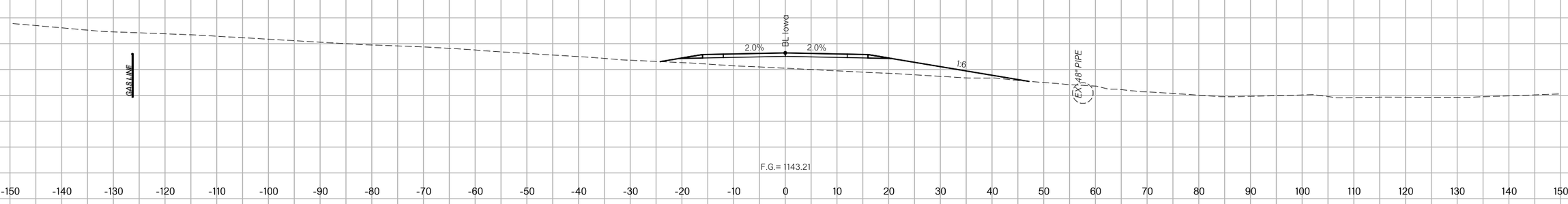


156 STA. 32+24.00
CONST. 24"X76' LG CGSP 35.75' LT & 40.25' RT W/TYPE B4 CET'S
FL LT = 1139.10, FL RT = 1137.21

CUT AREA = 0.00 S.F.
FILL AREA = 124.18 S.F.

32+00

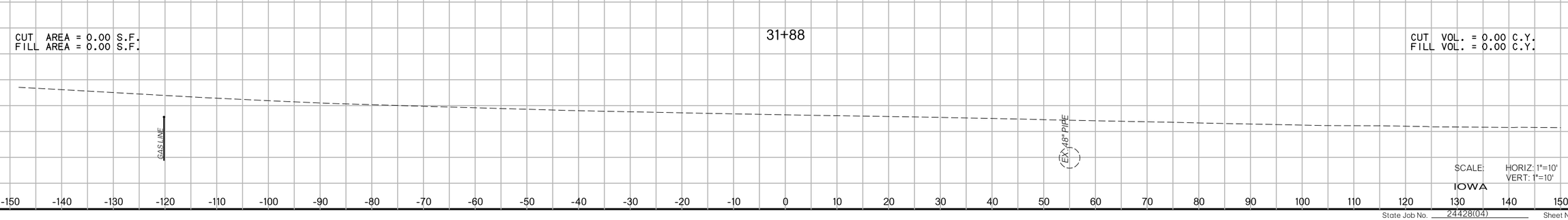
CUT VOL. = 0.00 C.Y.
FILL VOL. = 28.16 C.Y.



CUT AREA = 0.00 S.F.
FILL AREA = 0.00 S.F.

31+88

CUT VOL. = 0.00 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

IOWA

State Job No. 24428(04) Sheet No. X273

US-81 REALIGNMENT
GRADY COUNTY

7:28:51 PM

F:\2016\1001-1500\016-1182\40-Design\Microstation\US-81\DGN\C\XSEC273_IOWA.dgn

8/27/2017

7:28:52 PM

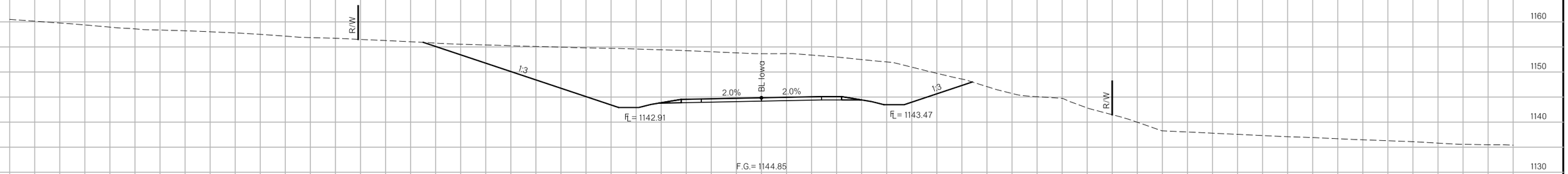
F:\2016\1001-1500\1016-1182\40-Design\Microstation\US-81\DGN\C\XSEC274_IOWA.dgn

PROPOSED
R/W
AUGUST 2017

CUT AREA = 825.54 S.F.
FILL AREA = 0.00 S.F.

33+40

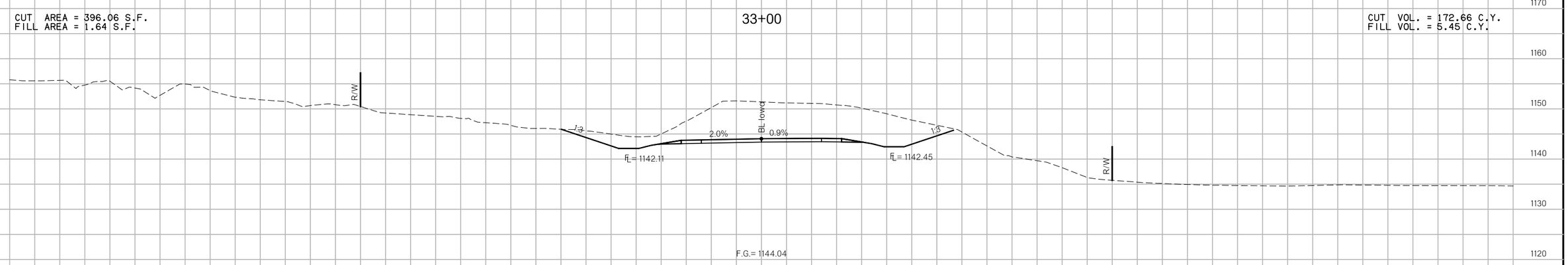
CUT VOL. = 905.79 C.Y.
FILL VOL. = 1.21 C.Y.



CUT AREA = 396.06 S.F.
FILL AREA = 1.64 S.F.

33+00

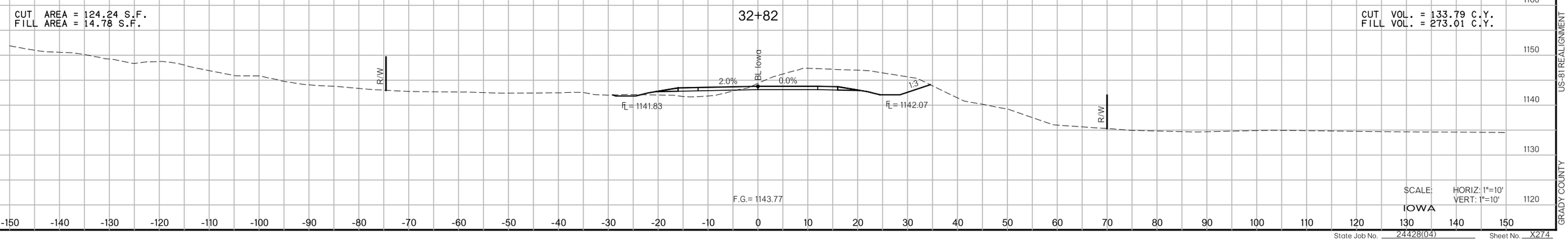
CUT VOL. = 172.66 C.Y.
FILL VOL. = 5.45 C.Y.



CUT AREA = 124.24 S.F.
FILL AREA = 14.78 S.F.

32+82

CUT VOL. = 133.79 C.Y.
FILL VOL. = 273.01 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

IOWA

State Job No. 24428(04) Sheet No. X274

US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

7:28:53 PM

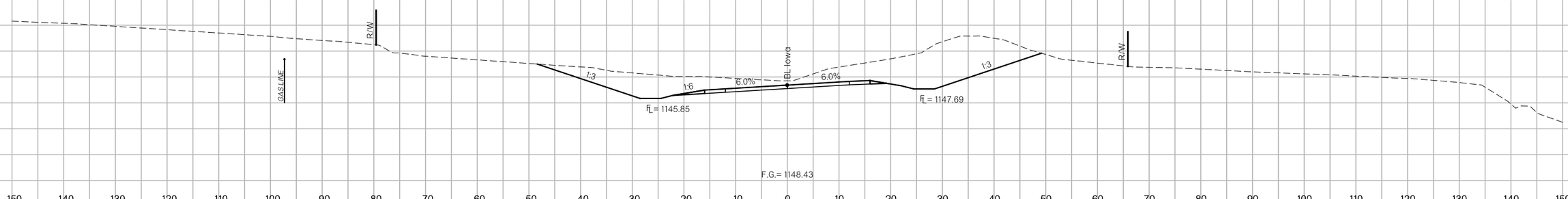
F:\2016\100I-1500\016-182\40-Design\Microstation\US-81\DGN\C\XSEC275_IOWA.dgn

PROPOSED
R/W
AUGUST 2017

34+56

CUT AREA = 376.90 S.F.
FILL AREA = 0.00 S.F.

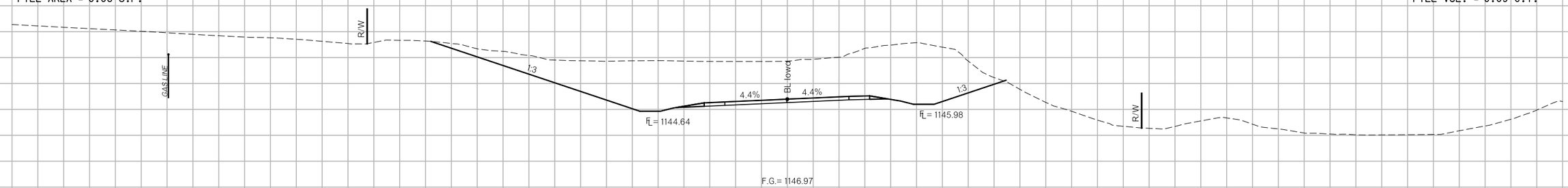
CUT VOL. = 923.74 C.Y.
FILL VOL. = 0.05 C.Y.



34+12

CUT AREA = 770.62 S.F.
FILL AREA = 0.06 S.F.

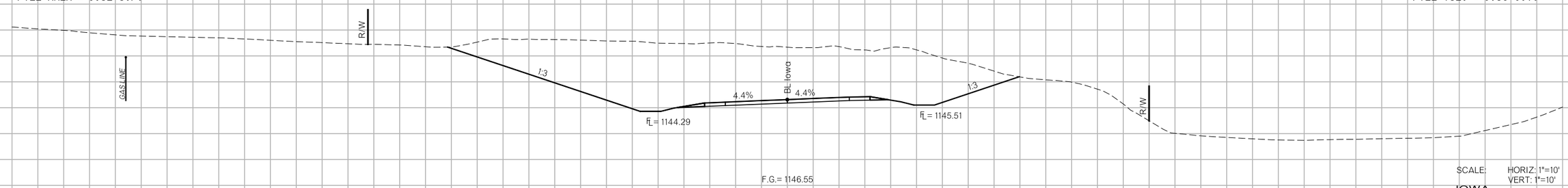
CUT VOL. = 405.85 C.Y.
FILL VOL. = 0.09 C.Y.



34+00

CUT AREA = 983.95 S.F.
FILL AREA = 0.32 S.F.

CUT VOL. = 2009.20 C.Y.
FILL VOL. = 0.36 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

IOWA

State Job No. 24428(04) Sheet No. X275

US-81 REALIGNMENT

GRADY COUNTY

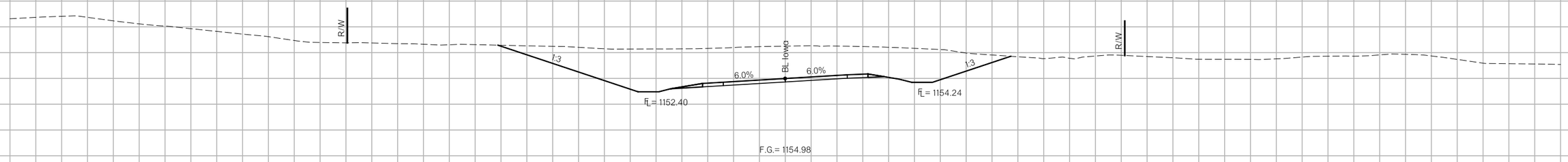
8/27/2017

PROPOSED
R/W
AUGUST 2017

CUT AREA = 554.88 S.F.
FILL AREA = 0.00 S.F.

36+52

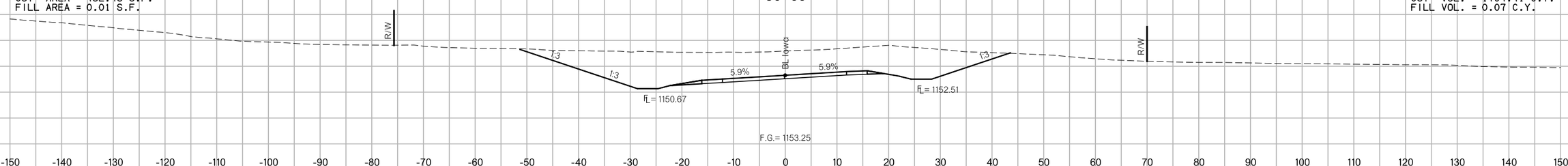
CUT VOL. = 965.21 C.Y.
FILL VOL. = 0.01 C.Y.



CUT AREA = 452.48 S.F.
FILL AREA = 0.01 S.F.

36+00

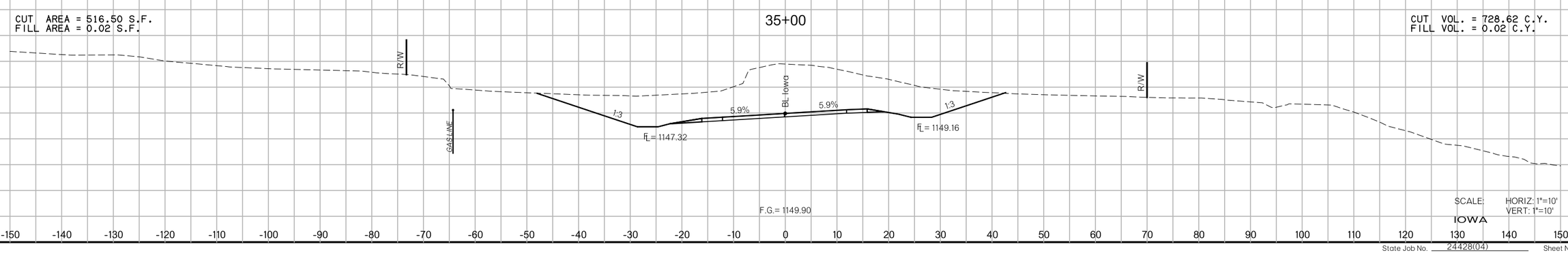
CUT VOL. = 1794.41 C.Y.
FILL VOL. = 0.07 C.Y.



CUT AREA = 516.50 S.F.
FILL AREA = 0.02 S.F.

35+00

CUT VOL. = 728.62 C.Y.
FILL VOL. = 0.02 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

IOWA

State Job No. 24428(04) Sheet No. X276

US-81 REALIGNMENT
GRADY COUNTY

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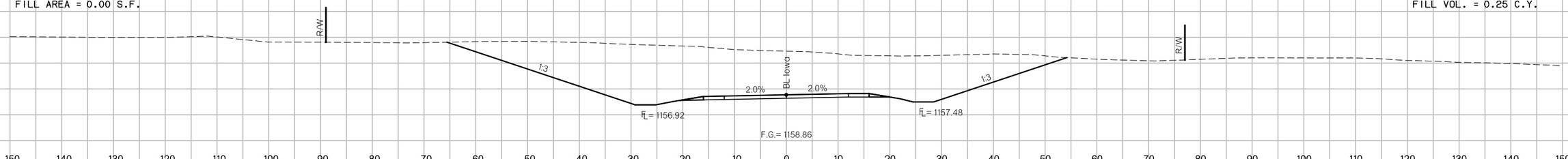
PROPOSED
R/W
AUGUST 2017

CUT AREA = 883.71 S.F.
FILL AREA = 0.00 S.F.

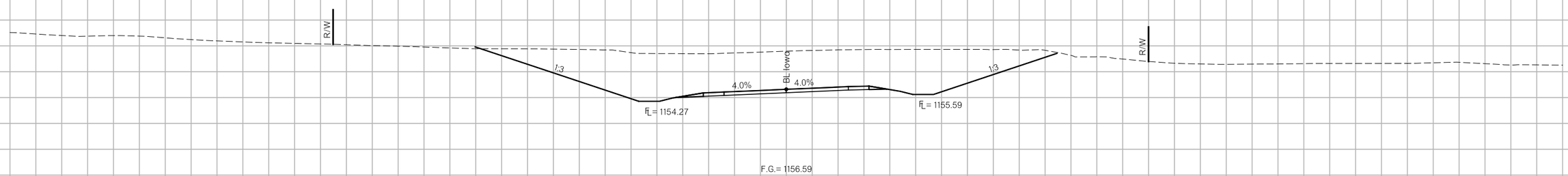
37+68



CUT VOL. = 2021.28 C.Y.
FILL VOL. = 0.25 C.Y.

CUT AREA = 729.49 S.F.
FILL AREA = 0.20 S.F.

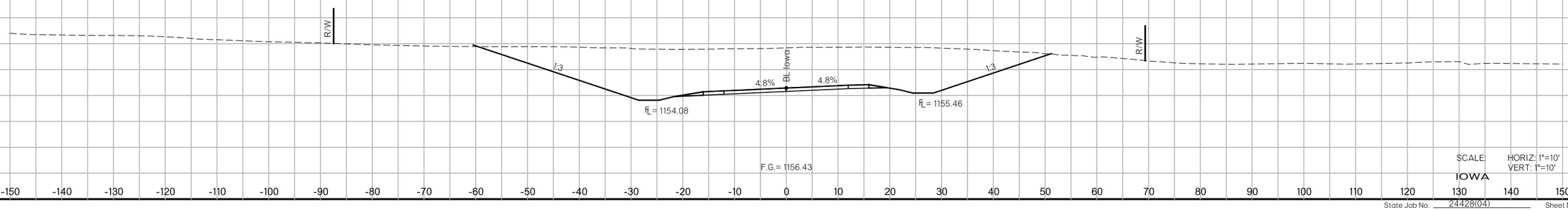
37+00



CUT VOL. = 130.93 C.Y.
FILL VOL. = 0.03 C.Y.

CUT AREA = 746.65 S.F.
FILL AREA = 0.14 S.F.

36+95



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

IOWA

State Job No. 24428(04) Sheet No. X277

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US-81 REALIGNMENT

GRADY COUNTY

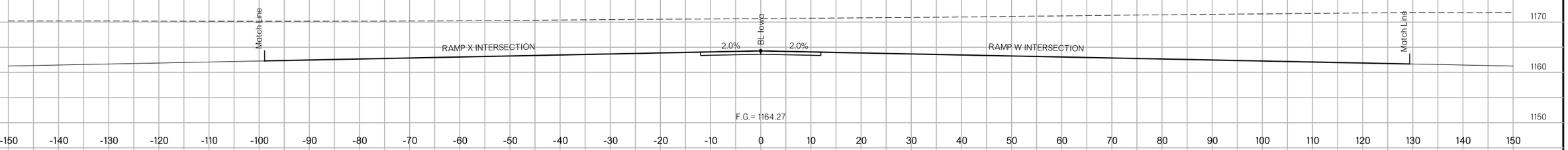
8/27/2017

PROPOSED
R/W
AUGUST 2017

CUT AREA = 2439.81 S.F.
FILL AREA = 0.00 S.F.

39+29

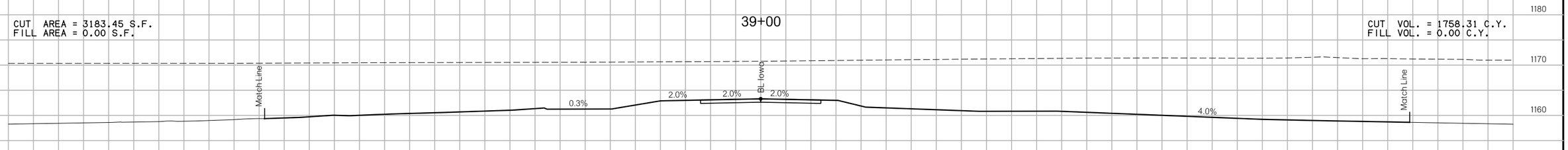
CUT VOL. = 3057.22 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 3183.45 S.F.
FILL AREA = 0.00 S.F.

39+00

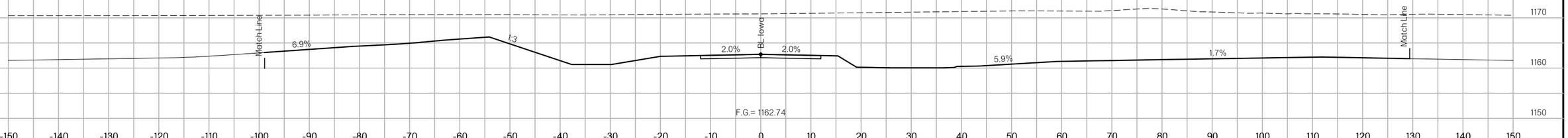
CUT VOL. = 1758.31 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 2599.04 S.F.
FILL AREA = 0.00 S.F.

38+84

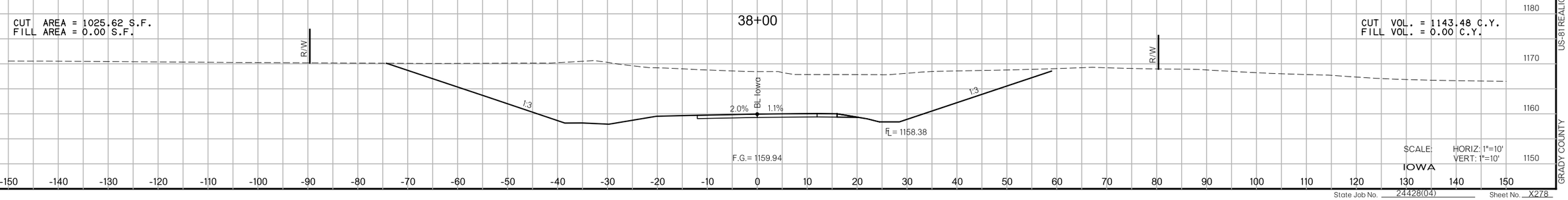
CUT VOL. = 5610.17 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 1025.62 S.F.
FILL AREA = 0.00 S.F.

38+00

CUT VOL. = 1143.48 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

IOWA

State Job No. 24428(04) Sheet No. X278

US-81 REALIGNMENT
GRADY COUNTY

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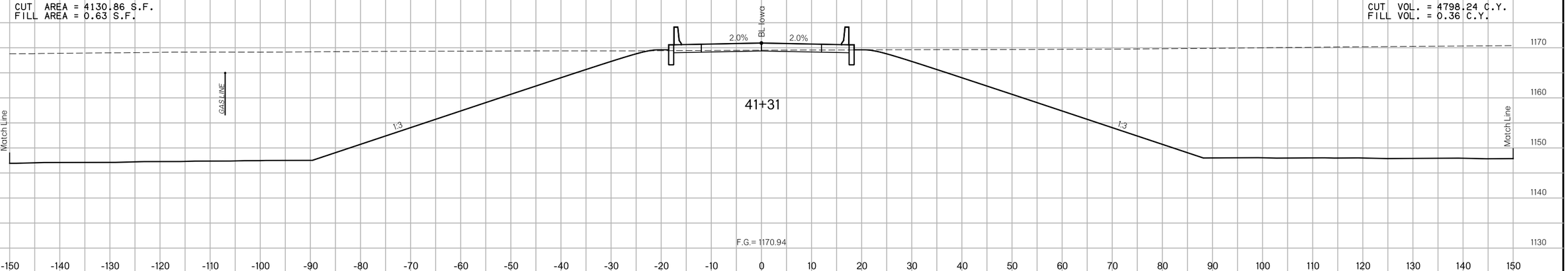
PROPOSED
R/W
AUGUST 2017

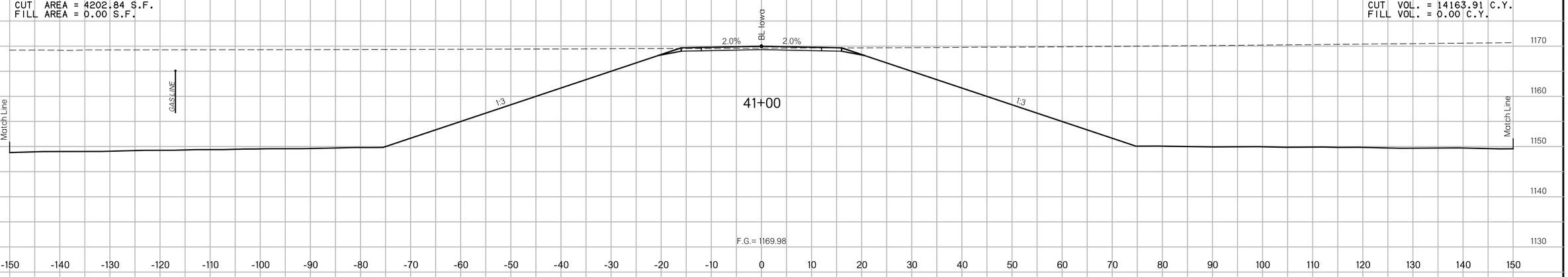
CUT AREA = 4130.86 S.F.
FILL AREA = 0.63 S.F.

CUT VOL. = 4798.24 C.Y.
FILL VOL. = 0.36 C.Y.



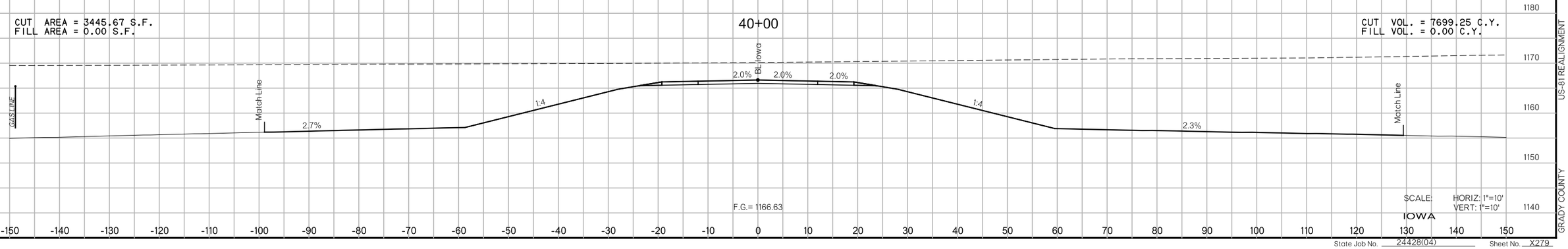
CUT AREA = 4202.84 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 14163.91 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 3445.67 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 7699.25 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

IOWA

US-81 REALIGNMENT

GRADY COUNTY

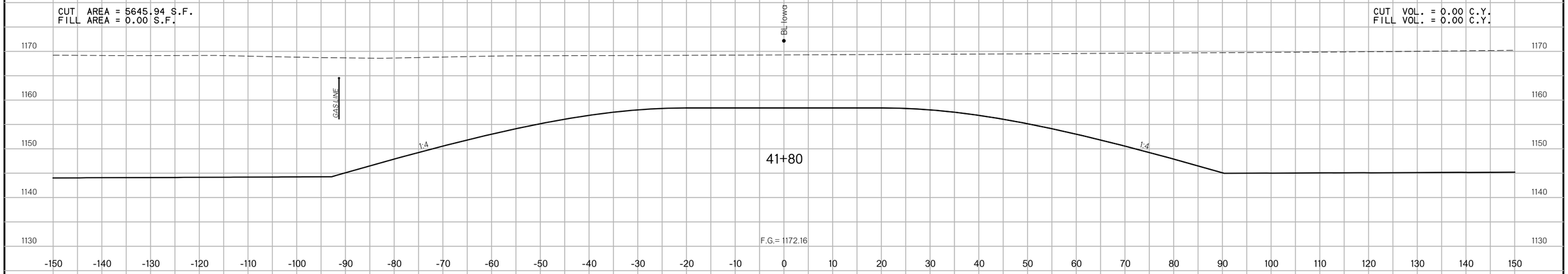
State Job No. 24428(04) Sheet No. X279

8/27/2017

PROPOSED
R/W
AUGUST 2017

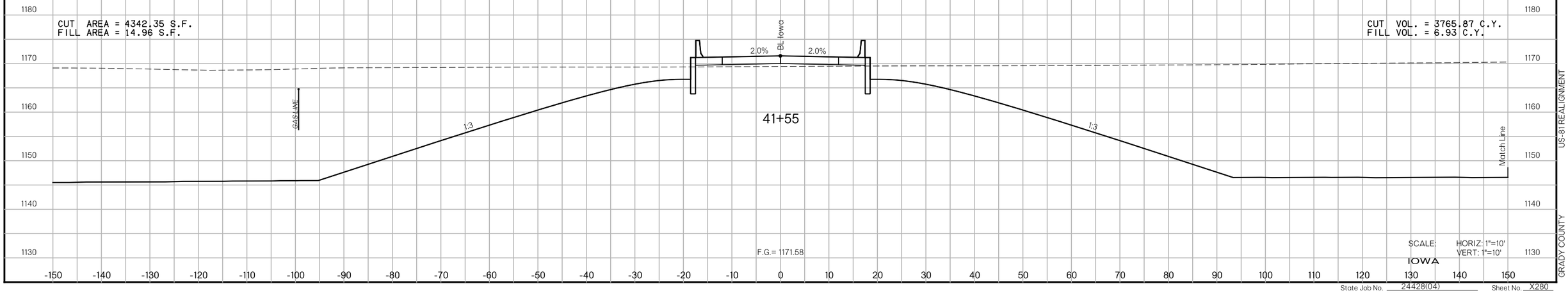
CUT AREA = 5645.94 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 4342.35 S.F.
FILL AREA = 14.96 S.F.

CUT VOL. = 3765.87 C.Y.
FILL VOL. = 6.93 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

IOWA

State Job No. 24428(04) Sheet No. X280

US-81 REALIGNMENT
GRADY COUNTY

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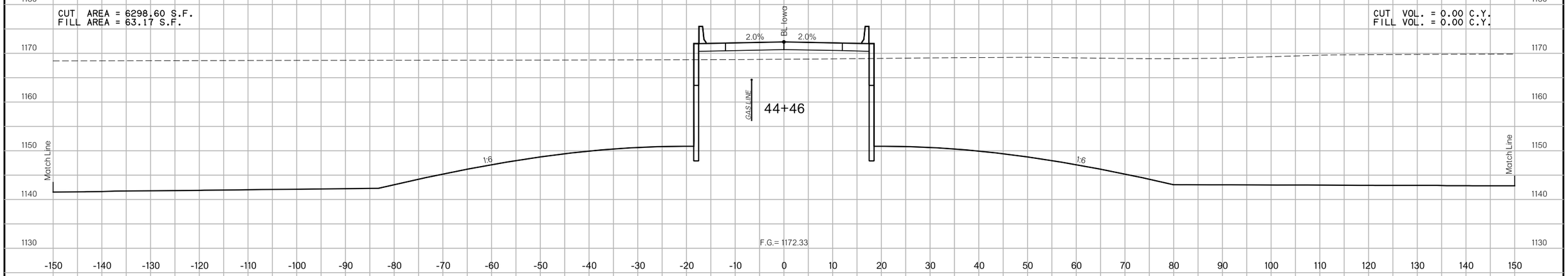
PROPOSED
R/W
AUGUST 2017

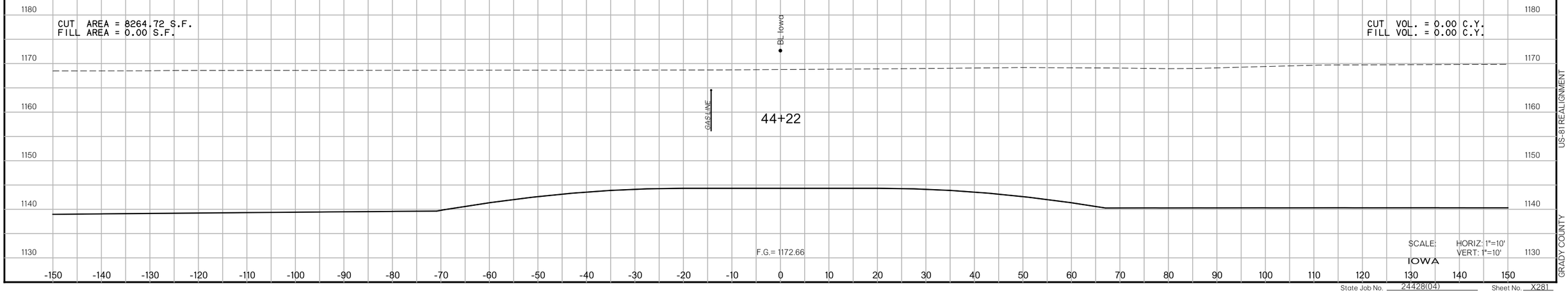
CUT AREA = 6298.60 S.F.
FILL AREA = 63.17 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 8264.72 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

IOWA

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X281

8/27/2017

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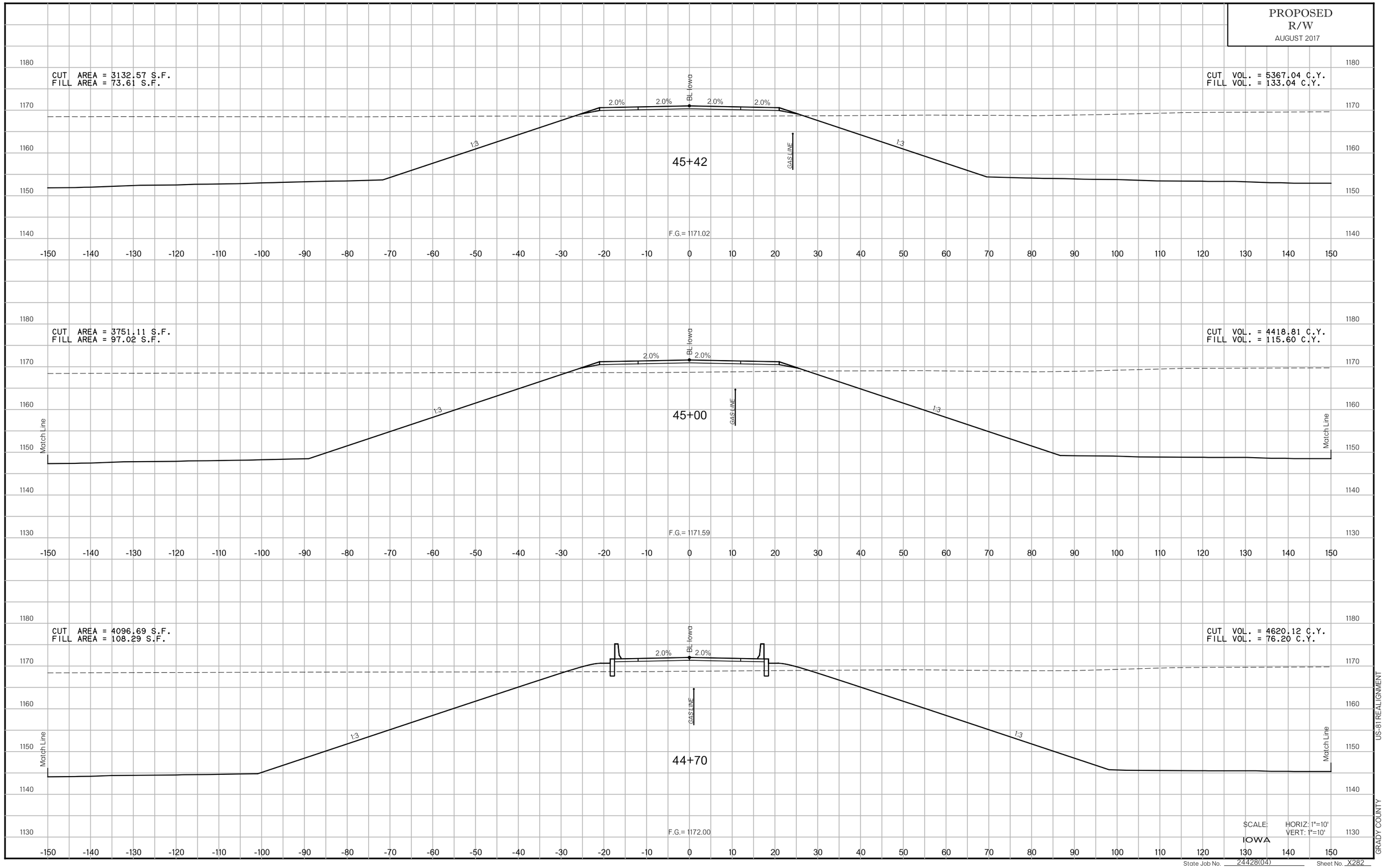
PROPOSED
R/W
AUGUST 2017



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

IOWA

State Job No. 24428(04) Sheet No. X282

US-81 REALIGNMENT

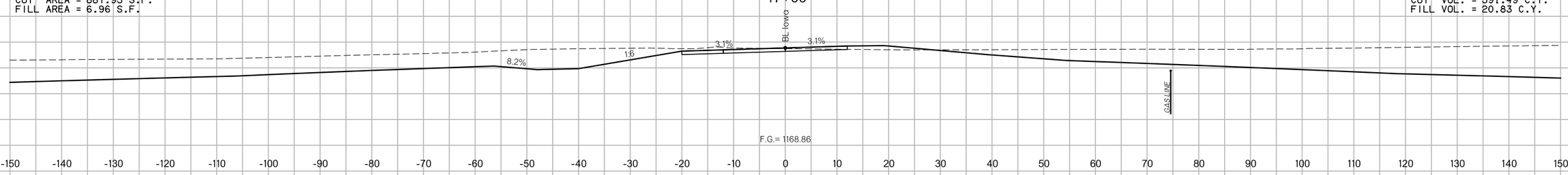
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

47+00

CUT AREA = 887.95 S.F.
FILL AREA = 6.96 S.F.

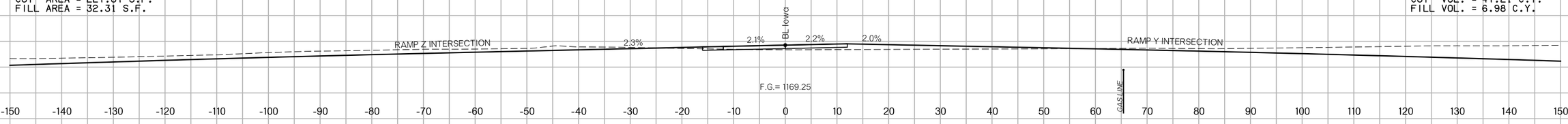
CUT VOL. = 591.49 C.Y.
FILL VOL. = 20.83 C.Y.



46+71

CUT AREA = 227.37 S.F.
FILL AREA = 32.31 S.F.

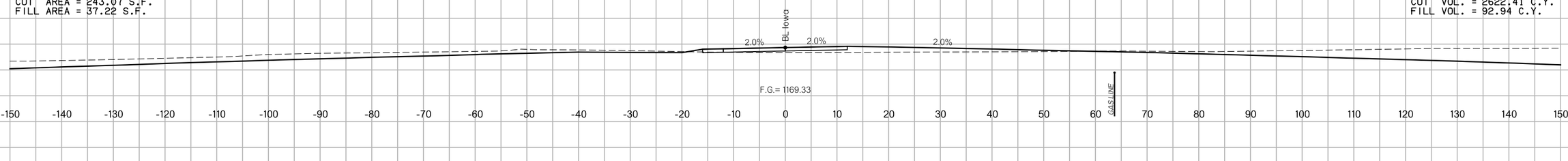
CUT VOL. = 47.21 C.Y.
FILL VOL. = 6.98 C.Y.



46+66

CUT AREA = 243.07 S.F.
FILL AREA = 37.22 S.F.

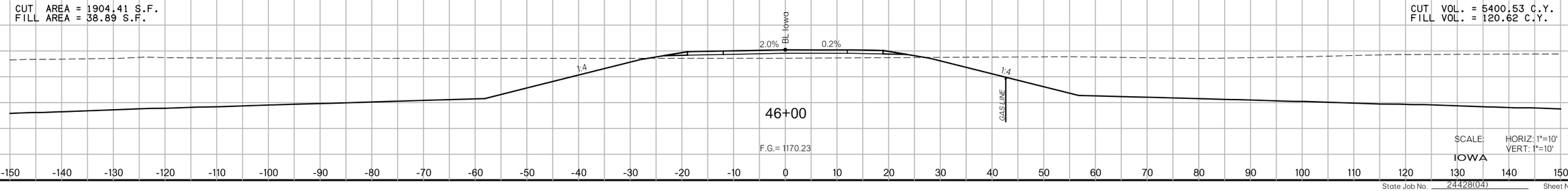
CUT VOL. = 2622.41 C.Y.
FILL VOL. = 92.94 C.Y.



46+00

CUT AREA = 1904.41 S.F.
FILL AREA = 38.89 S.F.

CUT VOL. = 5400.53 C.Y.
FILL VOL. = 120.62 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

IOWA

State Job No. 24428(04) Sheet No. X283

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US-81 REALIGNMENT
GRADY COUNTY

8/27/2017

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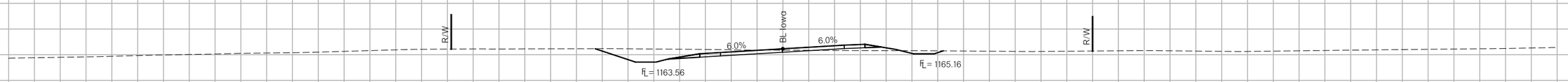
PROPOSED
R/W
AUGUST 2017

49+00

CUT AREA = 56.39 S.F.
FILL AREA = 6.38 S.F.

CUT VOL. = 158.11 C.Y.
FILL VOL. = 30.30 C.Y.



48+00

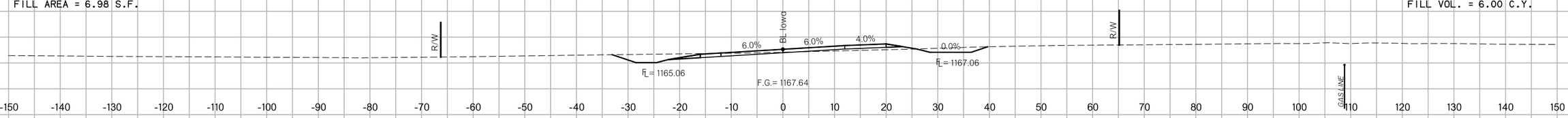
CUT AREA = 28.99 S.F.
FILL AREA = 9.98 S.F.

CUT VOL. = 12.15 C.Y.
FILL VOL. = 3.21 C.Y.

47+90

CUT AREA = 35.25 S.F.
FILL AREA = 6.98 S.F.

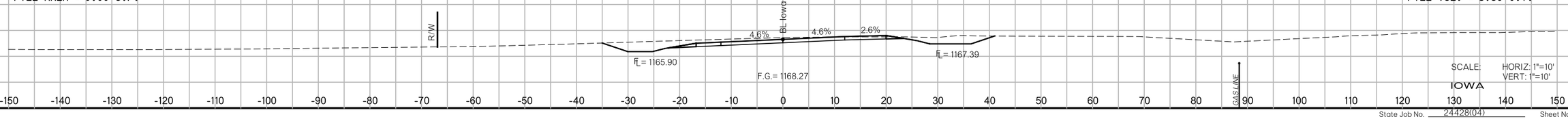
CUT VOL. = 97.75 C.Y.
FILL VOL. = 6.00 C.Y.



47+43

CUT AREA = 78.41 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 775.66 C.Y.
FILL VOL. = 5.59 C.Y.



$SCALE: HORIZ: 1"=10'
VERT: 1"=10'

IOWA

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X284

8/27/2017

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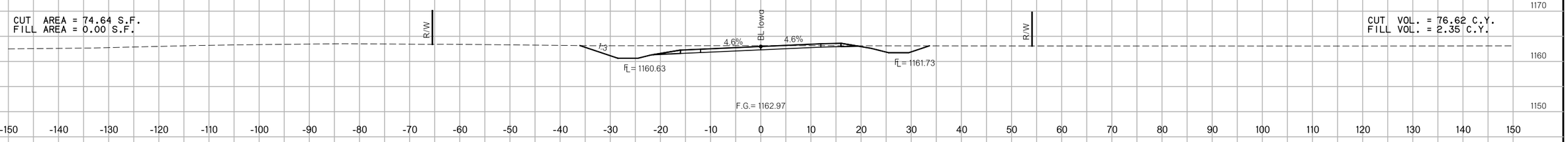
PROPOSED
R/W
AUGUST 2017

51+32

CUT AREA = 74.64 S.F.
FILL AREA = 0.00 S.F.

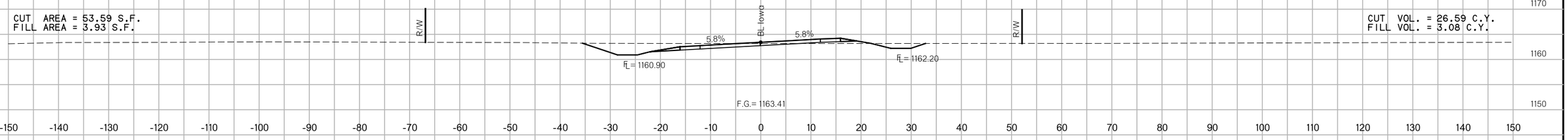
CUT VOL. = 76.62 C.Y.
FILL VOL. = 2.35 C.Y.



51+00

CUT AREA = 53.59 S.F.
FILL AREA = 3.93 S.F.

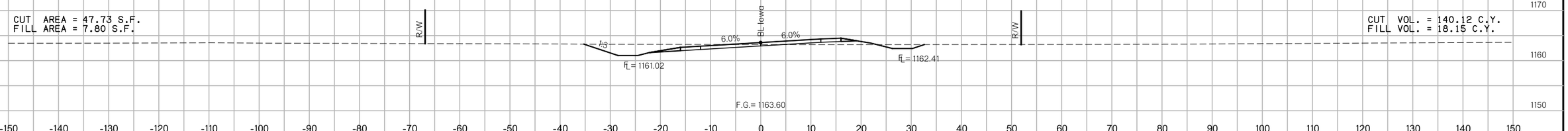
CUT VOL. = 26.59 C.Y.
FILL VOL. = 3.08 C.Y.



50+86

CUT AREA = 47.73 S.F.
FILL AREA = 7.80 S.F.

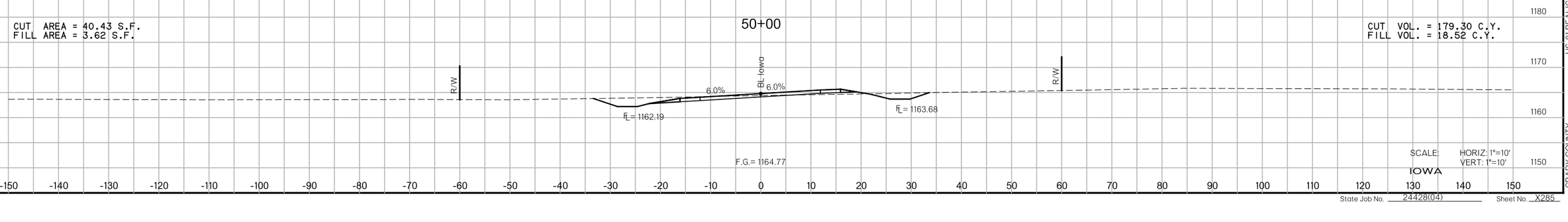
CUT VOL. = 140.12 C.Y.
FILL VOL. = 18.15 C.Y.



50+00

CUT AREA = 40.43 S.F.
FILL AREA = 3.62 S.F.

CUT VOL. = 179.30 C.Y.
FILL VOL. = 18.52 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

IOWA

US-81 REALIGNMENT

GRADY COUNTY

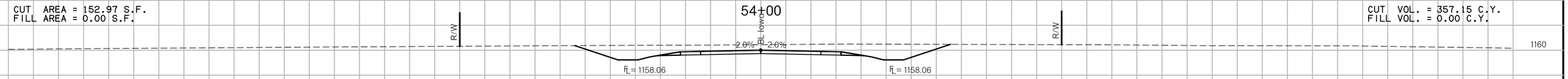
State Job No. 24428(04) Sheet No. X285

PROPOSED
R/W
AUGUST 2017

54+00

CUT AREA = 152.97 S.F.
FILL AREA = 0.00 S.F.

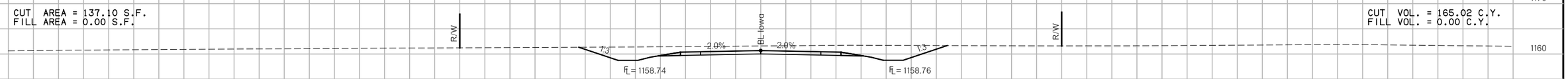
CUT VOL. = 357.15 C.Y.
FILL VOL. = 0.00 C.Y.



53+34

CUT AREA = 137.10 S.F.
FILL AREA = 0.00 S.F.

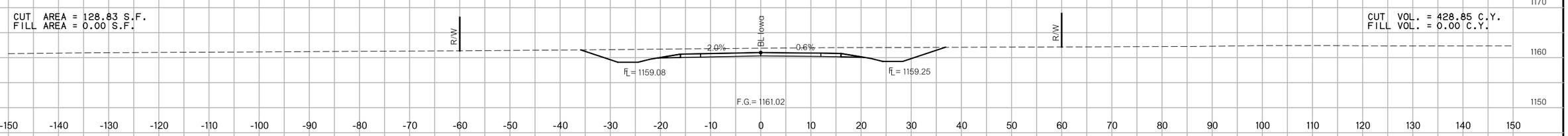
CUT VOL. = 165.02 C.Y.
FILL VOL. = 0.00 C.Y.



53+00

CUT AREA = 128.83 S.F.
FILL AREA = 0.00 S.F.

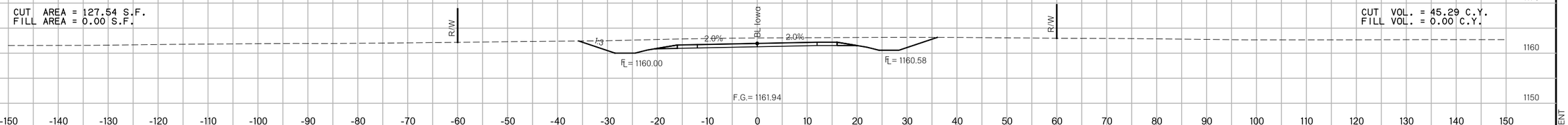
CUT VOL. = 428.85 C.Y.
FILL VOL. = 0.00 C.Y.



52+10

CUT AREA = 127.54 S.F.
FILL AREA = 0.00 S.F.

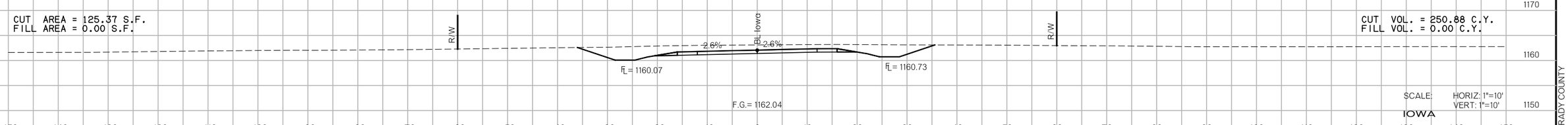
CUT VOL. = 45.29 C.Y.
FILL VOL. = 0.00 C.Y.



52+00

CUT AREA = 125.37 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 250.88 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

IOWA

State Job No. 24428(04) Sheet No. X286

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US-81 REALIGNMENT

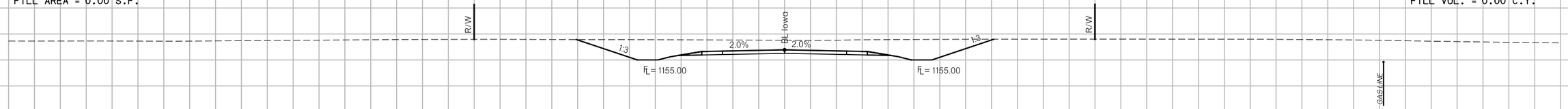
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

57+00

CUT AREA = 218.08 S.F.
FILL AREA = 0.00 S.F.

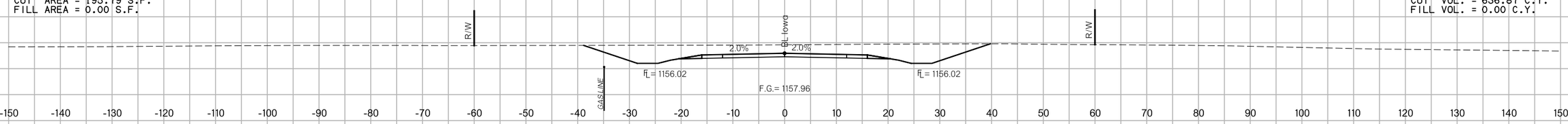
CUT VOL. = 766.43 C.Y.
FILL VOL. = 0.00 C.Y.



56+00

CUT AREA = 195.79 S.F.
FILL AREA = 0.00 S.F.

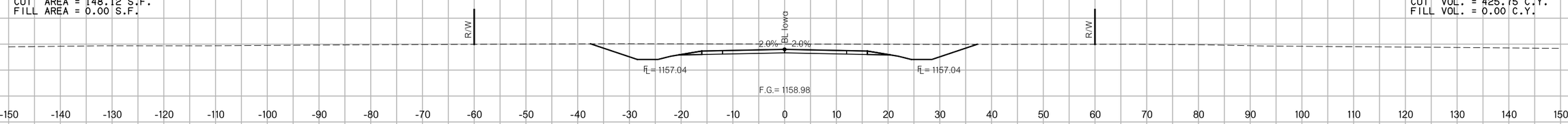
CUT VOL. = 636.87 C.Y.
FILL VOL. = 0.00 C.Y.



55+00

CUT AREA = 148.12 S.F.
FILL AREA = 0.00 S.F.

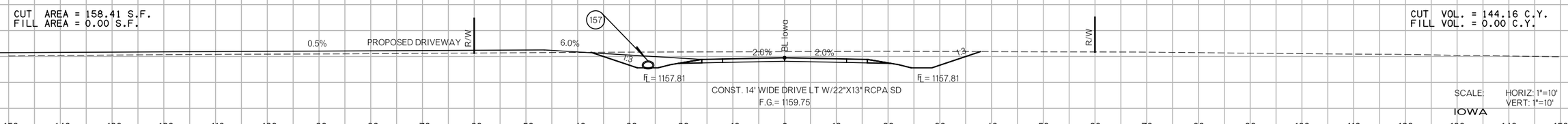
CUT VOL. = 425.75 C.Y.
FILL VOL. = 0.00 C.Y.



54+25

CUT AREA = 158.41 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 144.16 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

IOWA

State Job No. 24428(04) Sheet No. X287

8/27/2017

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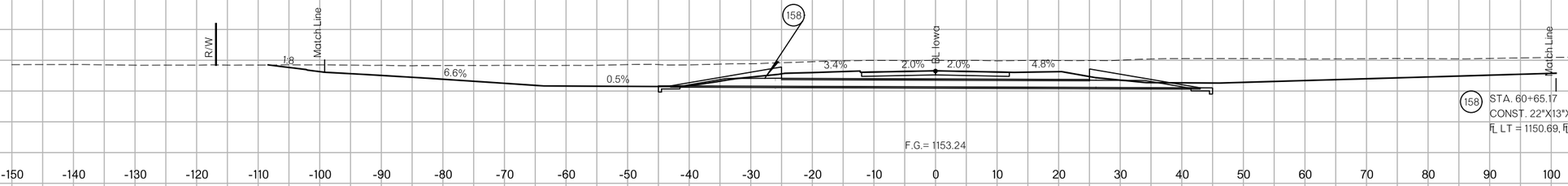
PROPOSED
R/W
AUGUST 2017

CUT AREA = 560.08 S.F.
FILL AREA = 0.00 S.F.

60+65

CUT VOL. = 886.29 C.Y.
FILL VOL. = 0.00 C.Y.



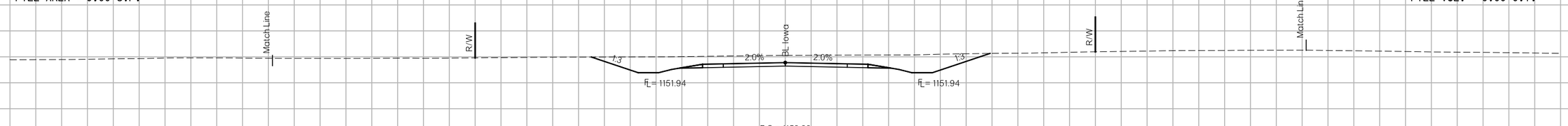
158 STA. 60+65.17
CONST. 22"X13"X86' RCPA 43' LT & 43' RT W/TYPE A4 CET'S (ACGR)
FL LT = 1150.69, FL RT = 1150.35

F.G.= 1153.24

CUT AREA = 172.89 S.F.
FILL AREA = 0.00 S.F.

60+00

CUT VOL. = 856.92 C.Y.
FILL VOL. = 0.00 C.Y.

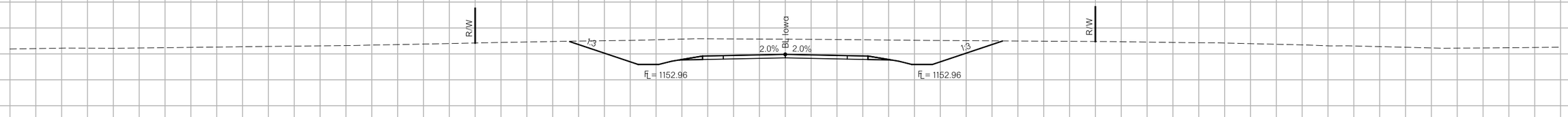


F.G.= 1153.88

CUT AREA = 289.84 S.F.
FILL AREA = 0.00 S.F.

59+00

CUT VOL. = 976.09 C.Y.
FILL VOL. = 0.00 C.Y.

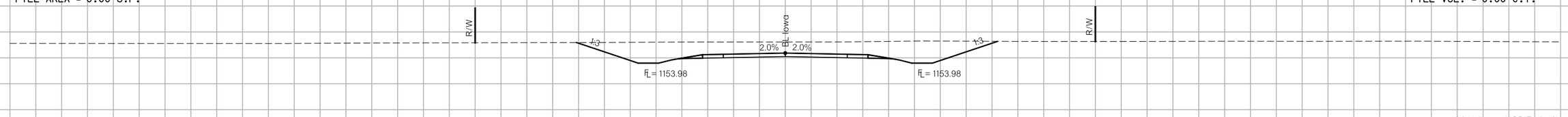


F.G.= 1154.90

CUT AREA = 237.25 S.F.
FILL AREA = 0.00 S.F.

58+00

CUT VOL. = 843.21 C.Y.
FILL VOL. = 0.00 C.Y.



F.G.= 1155.92

SCALE: HORIZ: 1"=10'
VERT: 1"=10'

IOWA

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X288

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PROPOSED
R/W
AUGUST 2017

62+59

CUT AREA = 0.00 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 1.51 C.Y.
FILL VOL. = 1.37 C.Y.

R/W

BL Iowa

F.G.= 1149.04

62+00

CUT AREA = 1.38 S.F.
FILL AREA = 1.25 S.F.

Match Line

R/W

BL Iowa

F.G.= 1150.12

WATER LINE

Match Line

CUT VOL. = 8.03 C.Y.
FILL VOL. = 147.90 C.Y.

61+00

COUNTY ROAD 218.5 INTERSECTION

CUT AREA = 2.96 S.F.
FILL AREA = 78.62 S.F.

Match Line

2.0%

BL Iowa

2.0%

F.G.= 1153.47

WATER LINE

Match Line

CUT VOL. = 0.64 C.Y.
FILL VOL. = 35.47 C.Y.

60+88

CUT AREA = 0.02 S.F.
FILL AREA = 87.81 S.F.

Match Line

2.0%

2.0%

BL Iowa

2.0%

7.5%

F.G.= 1153.70

WATER LINE

Match Line

CUT VOL. = 240.60 C.Y.
FILL VOL. = 37.72 C.Y.

SCALE: HORIZ: 1"=10'
VERT: 1"=10'

IOWA

State Job No. 24428(04) Sheet No. X289

US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

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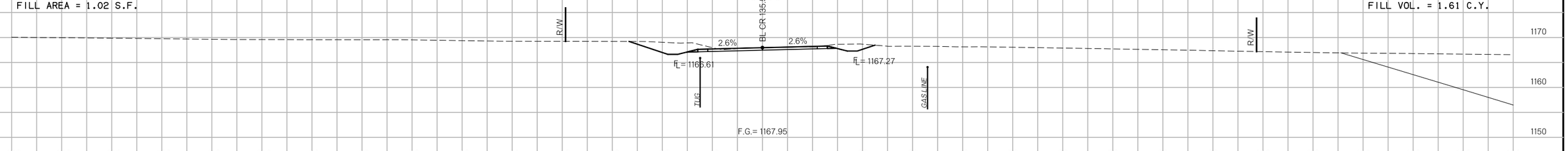
PROPOSED
R/W
AUGUST 2017

CUT AREA = 31.73 S.F.
FILL AREA = 1.02 S.F.

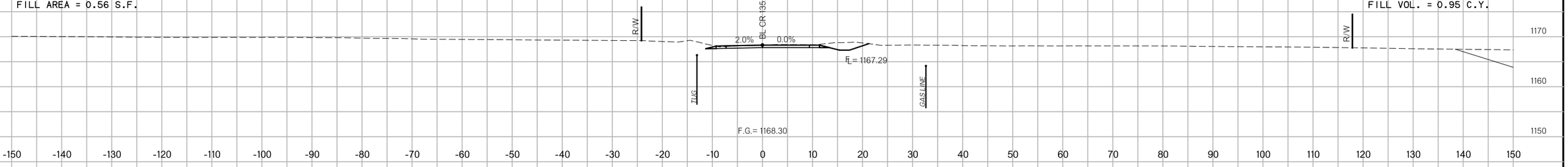
13+00



CUT VOL. = 43.36 C.Y.
FILL VOL. = 1.61 C.Y.

CUT AREA = 10.95 S.F.
FILL AREA = 0.56 S.F.

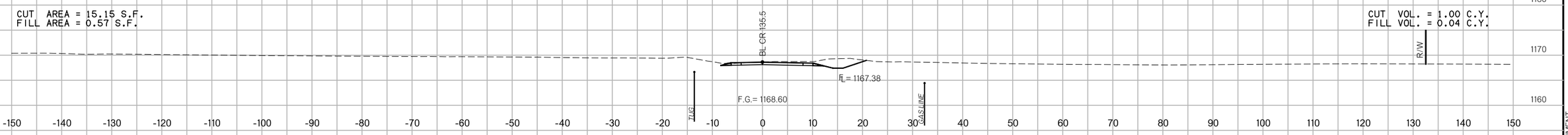
12+45



CUT VOL. = 21.82 C.Y.
FILL VOL. = 0.95 C.Y.

12+00

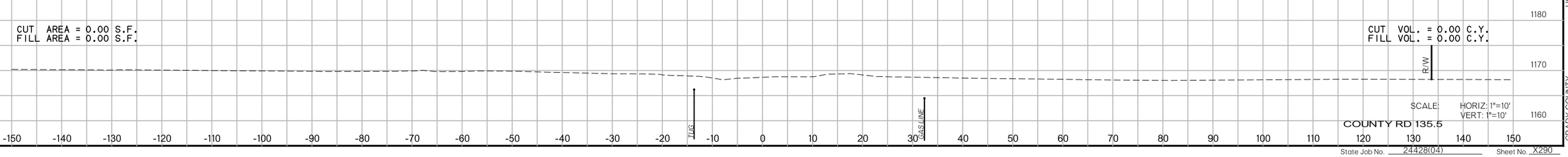
CUT AREA = 15.15 S.F.
FILL AREA = 0.57 S.F.



CUT VOL. = 1.00 C.Y.
FILL VOL. = 0.04 C.Y.

11+96

CUT AREA = 0.00 S.F.
FILL AREA = 0.00 S.F.



CUT VOL. = 0.00 C.Y.
FILL VOL. = 0.00 C.Y.

SCALE: HORIZ: 1"=10'
VERT: 1"=10'

COUNTY RD 135.5

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US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X290

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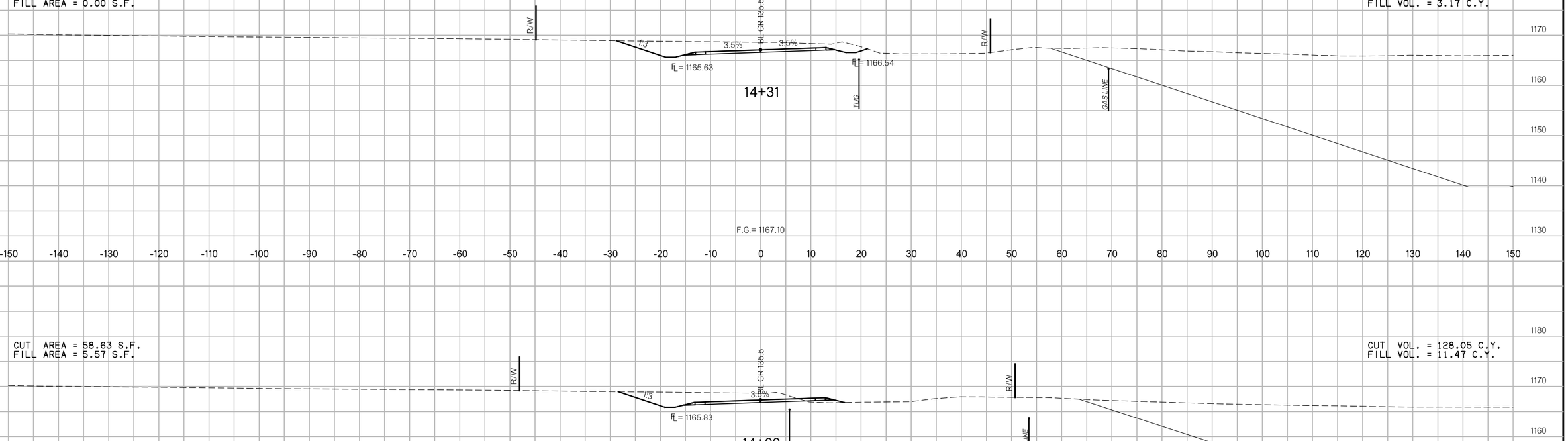
PROPOSED
R/W
AUGUST 2017

CUT AREA = 80.55 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 79.31 C.Y.
FILL VOL. = 3.17 C.Y.

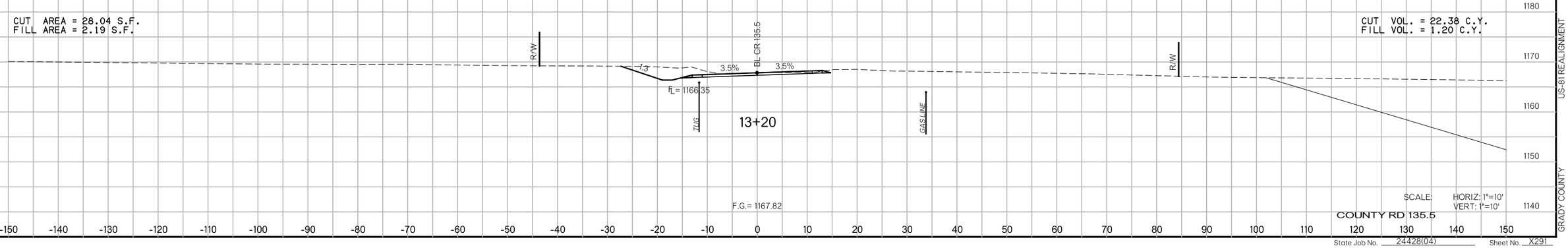


CUT AREA = 58.63 S.F.
FILL AREA = 5.57 S.F.

CUT VOL. = 128.05 C.Y.
FILL VOL. = 11.47 C.Y.

CUT AREA = 28.04 S.F.
FILL AREA = 2.19 S.F.

CUT VOL. = 22.38 C.Y.
FILL VOL. = 1.20 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

COUNTY RD 135.5

State Job No. 24428(04) Sheet No. X291

US-81 REALIGNMENT

GRADY COUNTY

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8/27/2017

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PROPOSED
R/W
AUGUST 2017

CUT AREA = 112.11 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 24.02 C.Y.
FILL VOL. = 0.00 C.Y.

R/W | 1:3 | 2.0% | CL CR 135.5 | 0.0% | 1:3 | R/W | TLG | GAS LINE

FL = 1165.34 | FL = 1165.60

15+06

F.G.= 1166.61

CUT AREA = 109.60 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 243.78 C.Y.
FILL VOL. = 0.00 C.Y.

R/W | 1:3 | 2.0% | CL CR 135.5 | 0.4% | R/W | TLG | GAS LINE

FL = 1165.38 | FL = 1165.67

15+00

F.G.= 1166.65

1180
1170
1160
1150
1140
1130

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SCALE: HORIZ: 1"=10'
VERT: 1"=10'

COUNTY RD 135.5

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04)

Sheet No. X292

8/27/2017

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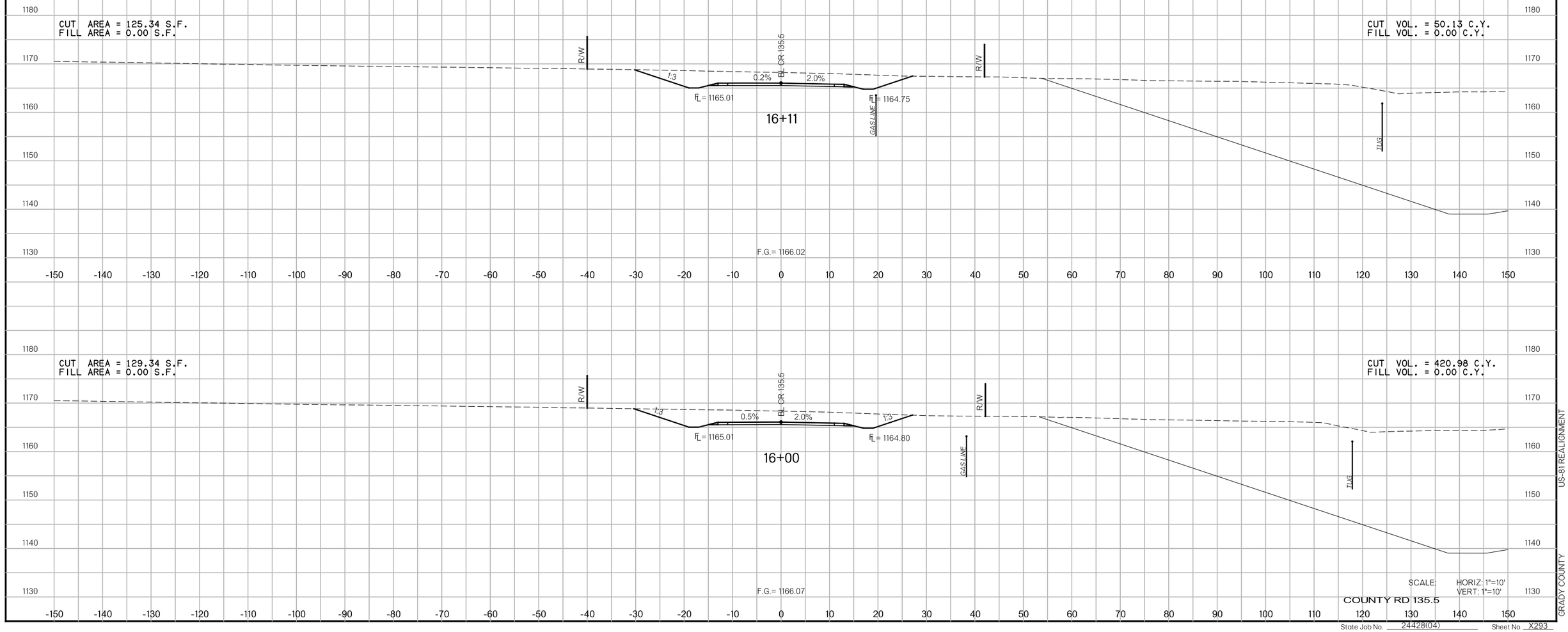
PROPOSED
R/W
AUGUST 2017



US-81 REALIGNMENT

GRADY COUNTY

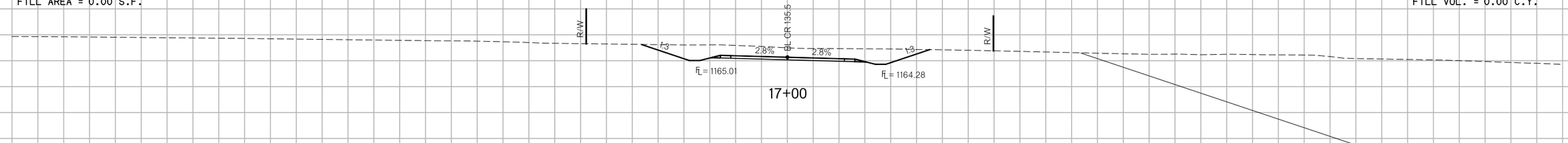
State Job No. 24428(04) Sheet No. X293

8/27/2017

PROPOSED
R/W
AUGUST 2017

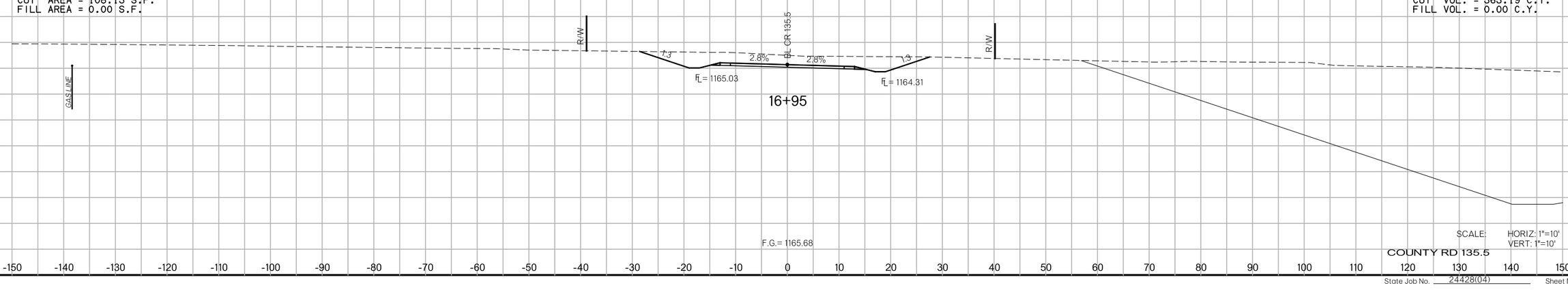
CUT AREA = 108.10 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 21.50 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 108.13 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 363.19 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

COUNTY RD 135.5

State Job No. 24428(04) Sheet No. X294

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US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

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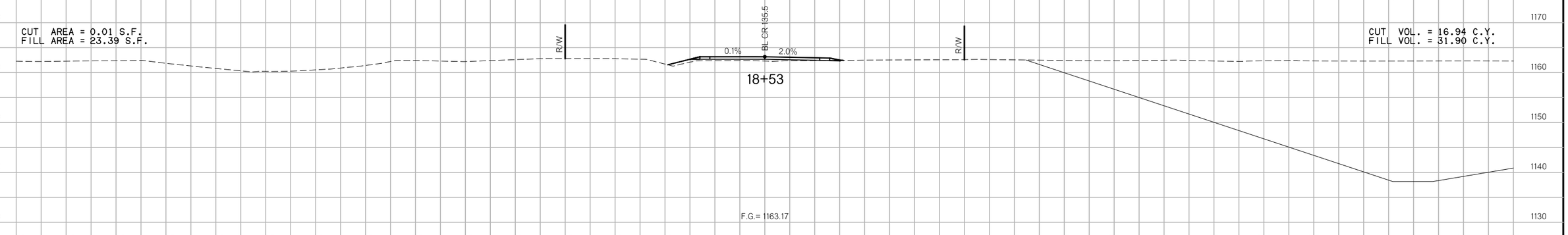
PROPOSED
R/W
AUGUST 2017

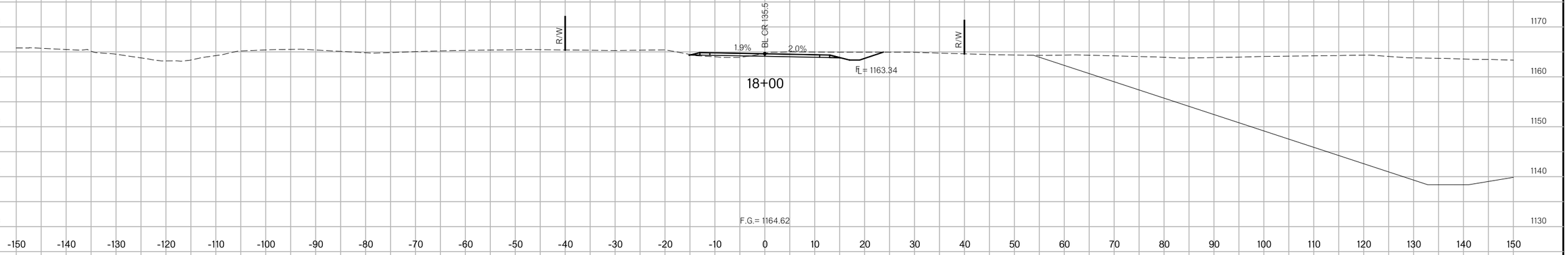
CUT AREA = 0.01 S.F.
FILL AREA = 23.39 S.F.

CUT VOL. = 16.94 C.Y.
FILL VOL. = 31.90 C.Y.



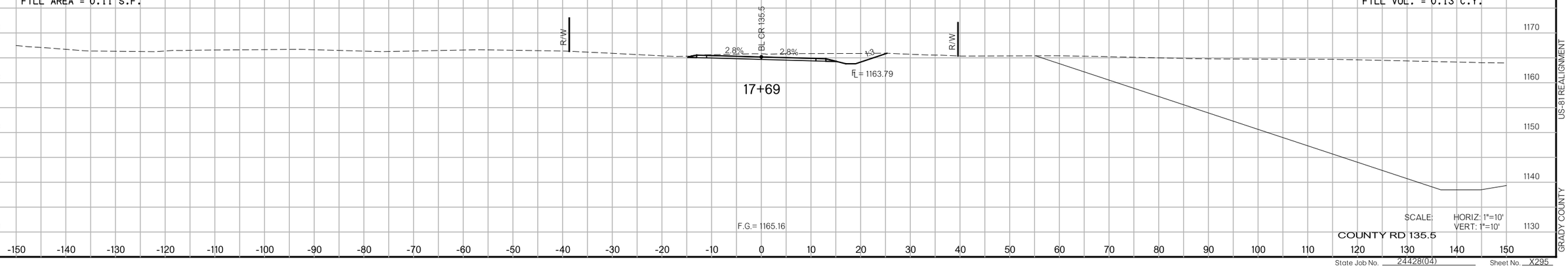
CUT AREA = 17.24 S.F.
FILL AREA = 9.06 S.F.

CUT VOL. = 28.25 C.Y.
FILL VOL. = 5.25 C.Y.



CUT AREA = 32.09 S.F.
FILL AREA = 0.11 S.F.

CUT VOL. = 179.32 C.Y.
FILL VOL. = 0.13 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

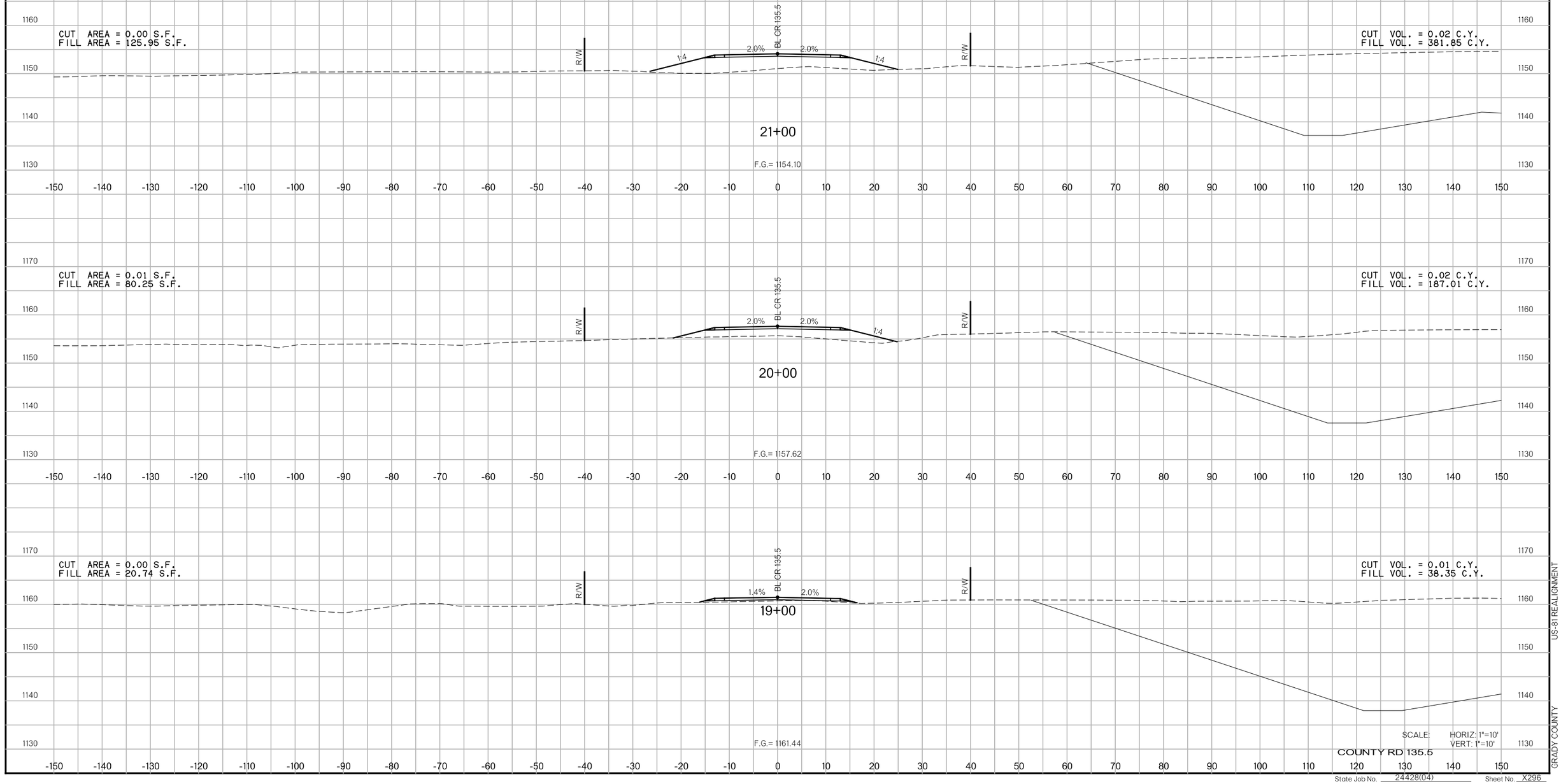
COUNTY RD 135.5

State Job No. 24428(04) Sheet No. X295

US-81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

COUNTY RD 135.5

State Job No. 24428(04) Sheet No. X296

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US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

PROPOSED
R/W
AUGUST 2017

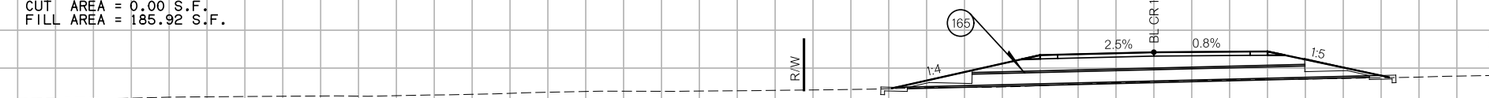
CUT AREA = 0.00 S.F.
FILL AREA = 73.65 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 302.86 C.Y.

22+85

F.G.= 1151.08

CUT AREA = 0.00 S.F.
FILL AREA = 185.92 S.F.



165 STA. 22+17.00
CONST. 18"X48' LG RCP SKEWED 60°LF W/PCES'S
25.5' LT & 22.5' RT MSRD ALONG SKEW
FL LT = 1147.47, FL RT = 1148.64

22+17

F.G.= 1152.08

CUT AREA = 0.00 S.F.
FILL AREA = 144.18 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 49.02 C.Y.

22+10

F.G.= 1152.18

CUT AREA = 0.01 S.F.
FILL AREA = 127.07 S.F.

CUT VOL. = 0.02 C.Y.
FILL VOL. = 468.55 C.Y.

22+00

F.G.= 1152.33

$CALE: HORIZ: 1"=10'
VERT: 1"=10'

COUNTY RD 135.5

State Job No. 24428(04) Sheet No. X297

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US-81 REALIGNMENT
GRADY COUNTY

8/27/2017

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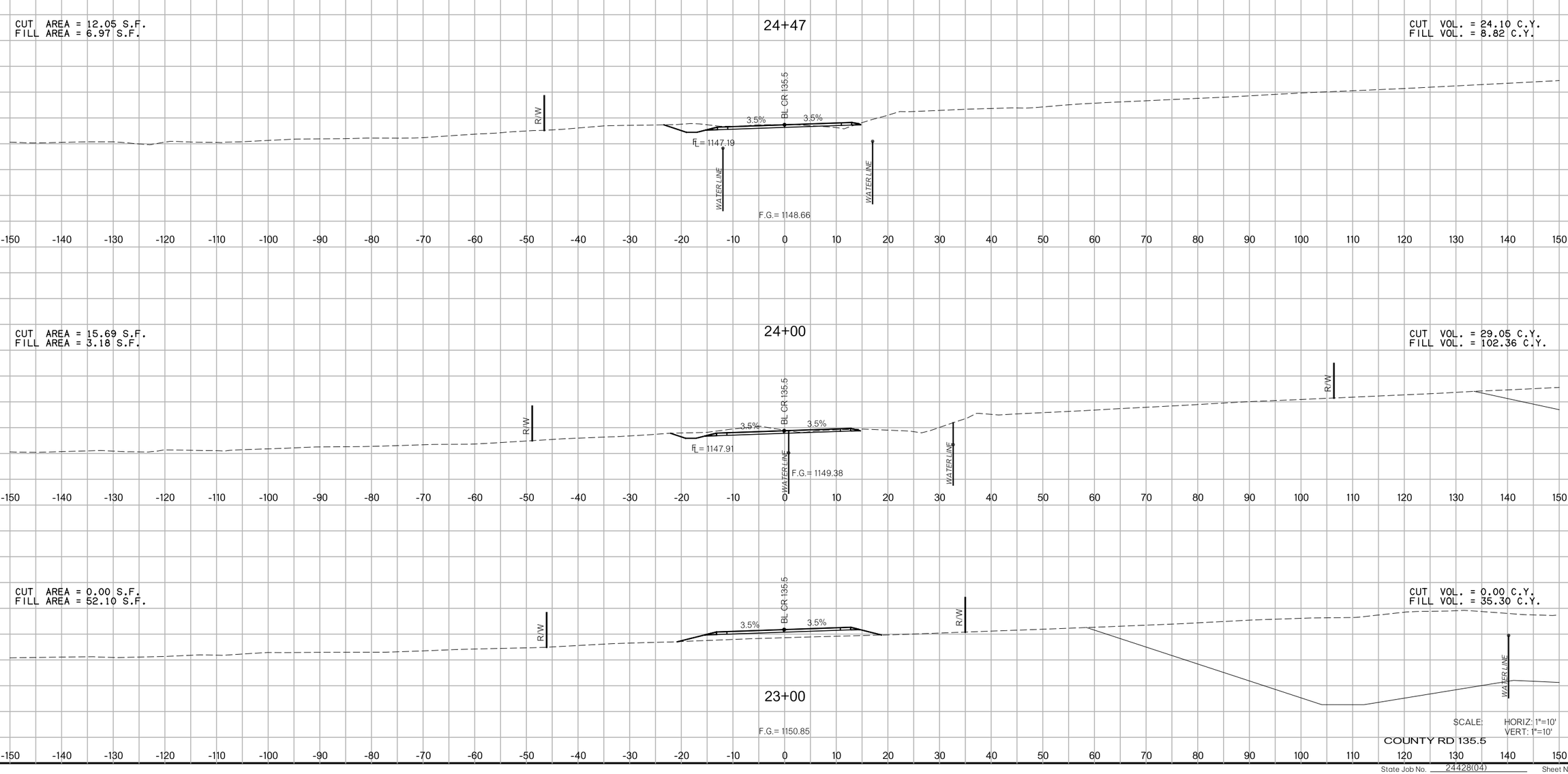
PROPOSED
R/W
AUGUST 2017

CUT AREA = 12.05 S.F.
FILL AREA = 6.97 S.F.

24+47

CUT VOL. = 24.10 C.Y.
FILL VOL. = 8.82 C.Y.



CUT AREA = 15.69 S.F.
FILL AREA = 3.18 S.F.

24+00

CUT VOL. = 29.05 C.Y.
FILL VOL. = 102.36 C.Y.

CUT AREA = 0.00 S.F.
FILL AREA = 52.10 S.F.

23+00

CUT VOL. = 0.00 C.Y.
FILL VOL. = 35.30 C.Y.

$CALE: HORIZ: 1"=10'
VERT: 1"=10'

COUNTY RD 135.5

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X298

8/27/2017

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PROPOSED
R/W
AUGUST 2017

25+77

CUT AREA = 0.00 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 0.00 C.Y.

CONST. 14' WIDE DRIVE RT W/22"X13" RCPA SD

168

WATER LINE

WATER LINE

25+45

CUT AREA = 0.00 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 0.14 C.Y.
FILL VOL. = 5.14 C.Y.

END EARTHWORK OF COUNTY ROAD 135.5

WATER LINE

WATER LINE

25+00

CUT AREA = 0.17 S.F.
FILL AREA = 6.17 S.F.

CUT VOL. = 12.01 C.Y.
FILL VOL. = 12.92 C.Y.

R/W

BL-CR 135.5

2.0%

1.2%

WATER LINE

WATER LINE

F.G.= 1147.69

1160 1150 1140 1130 1170

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

$CALE: HORIZ: 1"=10'
VERT: 1"=10'

COUNTY RD 135.5

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04)

Sheet No. X299

8/27/2017

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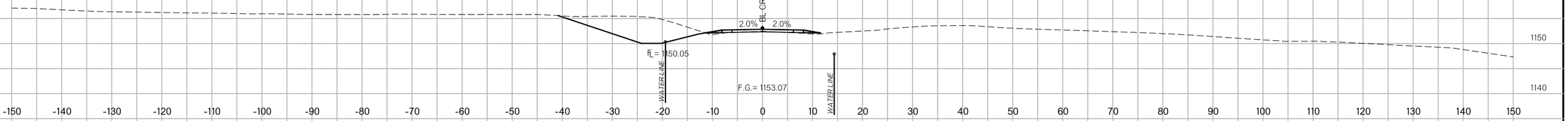
PROPOSED
R/W
AUGUST 2017

102+50

CUT AREA = 0.00 S.F.
FILL AREA = 0.00 S.F.

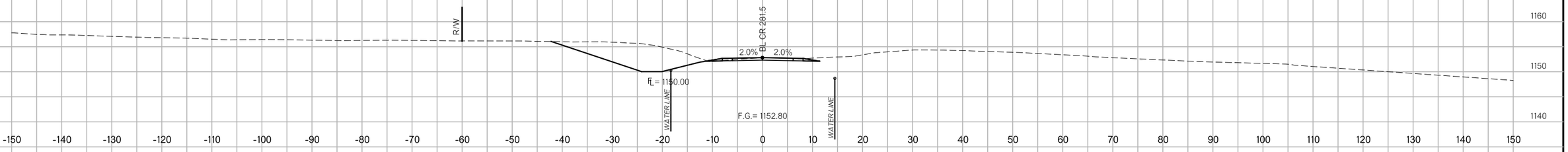
CUT VOL. = 0.00 C.Y.
FILL VOL. = 0.00 C.Y.



102+00

CUT AREA = 0.00 S.F.
FILL AREA = 0.00 S.F.

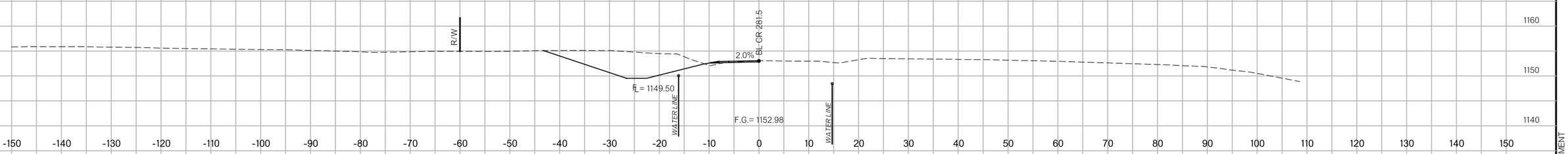
CUT VOL. = 0.00 C.Y.
FILL VOL. = 0.00 C.Y.



101+00

CUT AREA = 0.00 S.F.
FILL AREA = 0.00 S.F.

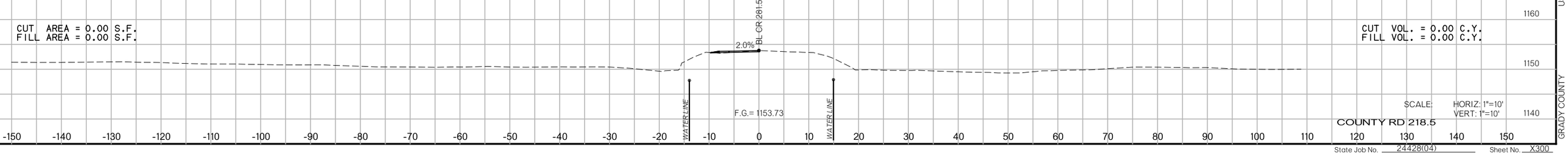
CUT VOL. = 0.00 C.Y.
FILL VOL. = 0.00 C.Y.



100+00

CUT AREA = 0.00 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 0.00 C.Y.



$CALE: HORIZ: 1"=10'
VERT: 1"=10'

COUNTY RD 218.5

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X300

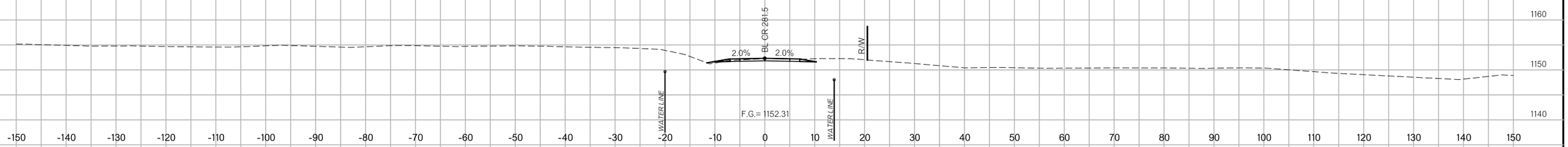
8/27/2017

PROPOSED
R/W
AUGUST 2017

104+25

CUT AREA = 7.32 S.F.
FILL AREA = 0.61 S.F.

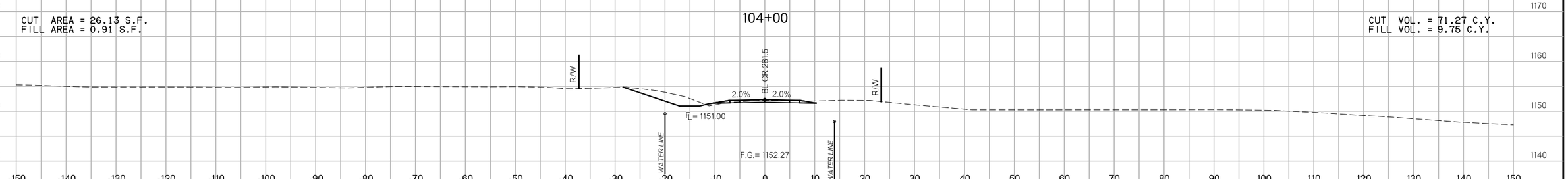
CUT VOL. = 15.49 C.Y.
FILL VOL. = 0.71 C.Y.



104+00

CUT AREA = 26.13 S.F.
FILL AREA = 0.91 S.F.

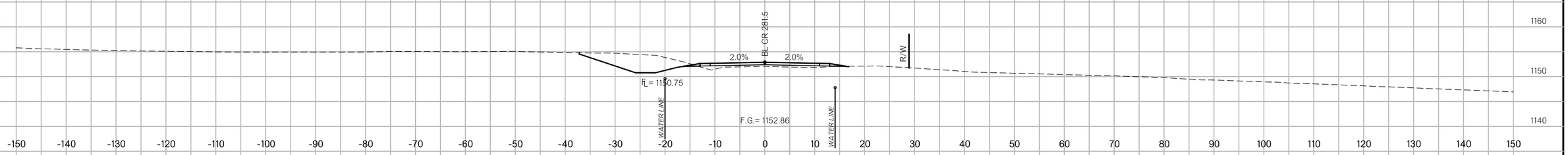
CUT VOL. = 71.27 C.Y.
FILL VOL. = 9.75 C.Y.



103+50

CUT AREA = 50.84 S.F.
FILL AREA = 9.61 S.F.

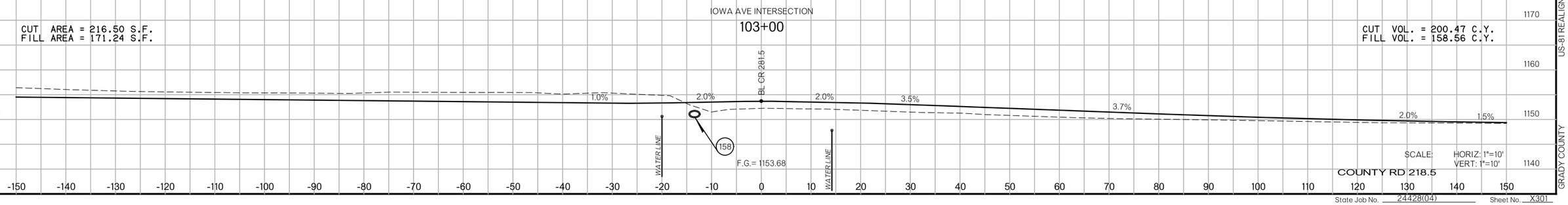
CUT VOL. = 247.54 C.Y.
FILL VOL. = 167.46 C.Y.



IOWA AVE INTERSECTION
103+00

CUT AREA = 216.50 S.F.
FILL AREA = 171.24 S.F.

CUT VOL. = 200.47 C.Y.
FILL VOL. = 158.56 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

COUNTY RD 218.5

State Job No. 24428(04) Sheet No. X301

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US-81 REALIGNMENT
GRADY COUNTY

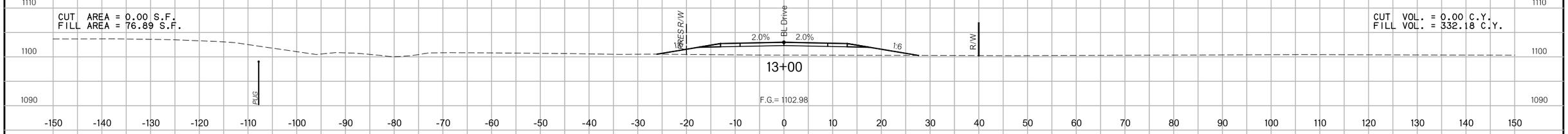
8/27/2017

7:29:11 PM

PROPOSED
R/W
AUGUST 2017

CUT AREA = 0.00 S.F.
FILL AREA = 76.89 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 332.18 C.Y.

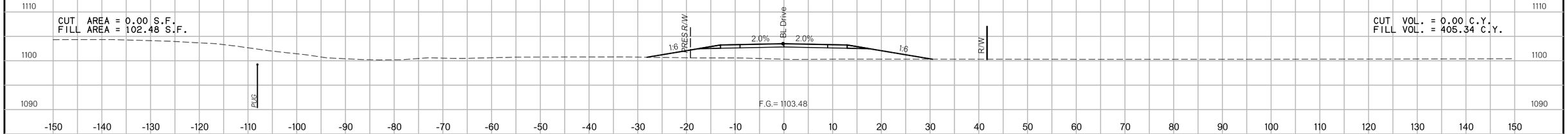


13+00

F.G.= 1102.98

CUT AREA = 0.00 S.F.
FILL AREA = 102.48 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 405.34 C.Y.

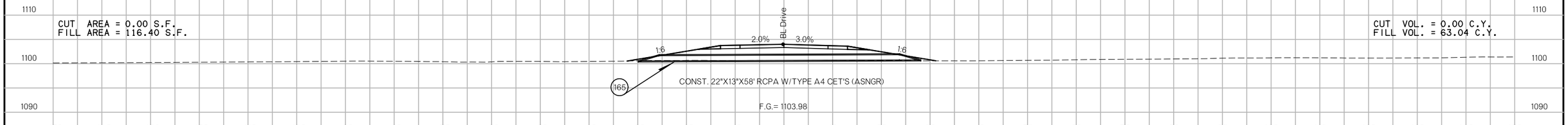


12+00

F.G.= 1103.48

CUT AREA = 0.00 S.F.
FILL AREA = 116.40 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 63.04 C.Y.

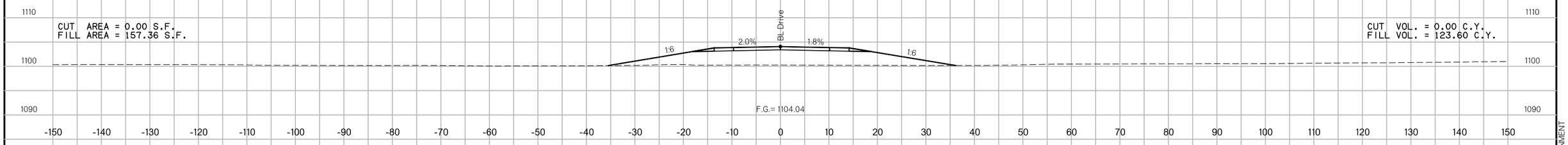


11+00

F.G.= 1103.98

CUT AREA = 0.00 S.F.
FILL AREA = 157.36 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 123.60 C.Y.

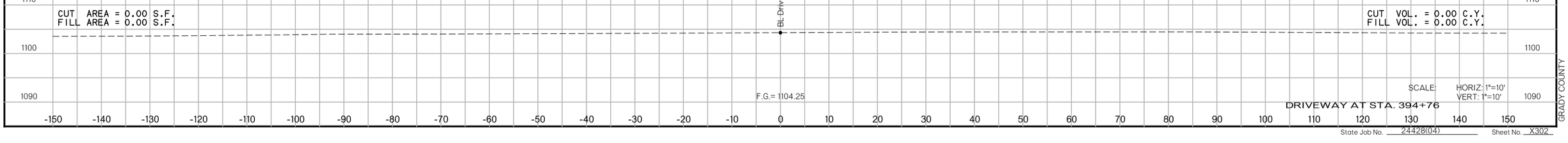


10+88

F.G.= 1104.04

CUT AREA = 0.00 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 0.00 C.Y.



10+45

F.G.= 1104.25

SCALE: HORIZ: 1"=10'
VERT: 1"=10'

DRIVEWAY AT STA. 394+76

State Job No. 24428(04) Sheet No. X302

US-81 REALIGNMENT

GRADY COUNTY

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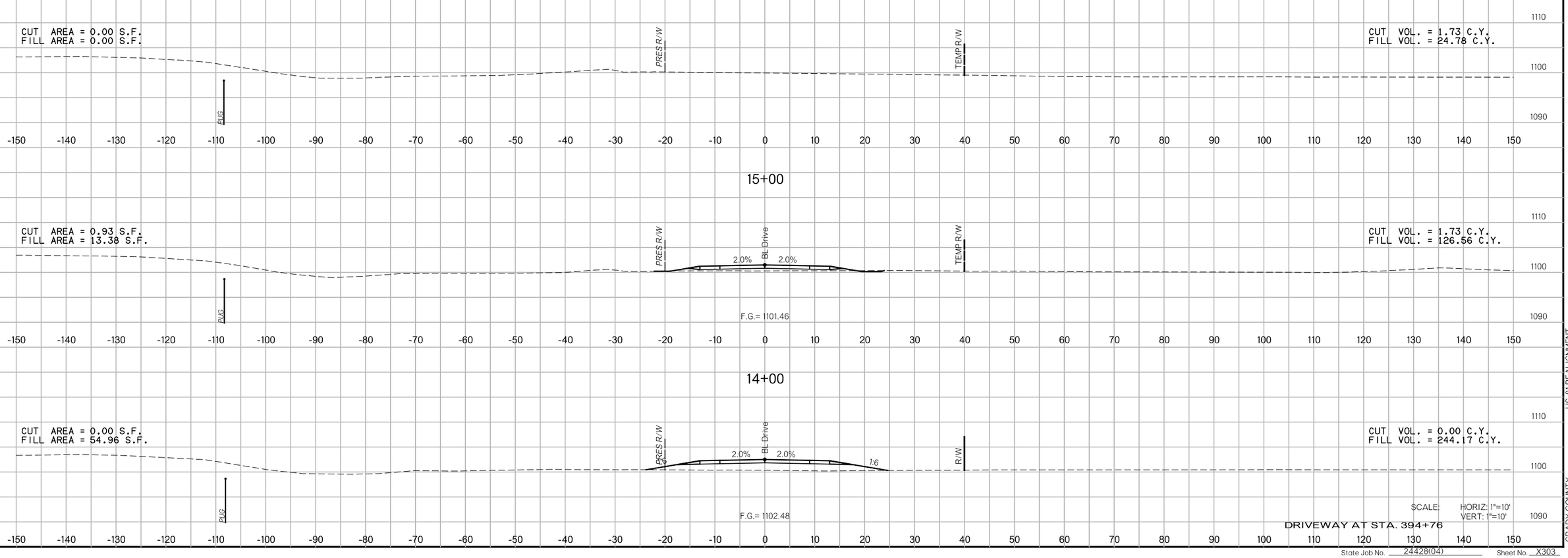
PROPOSED
R/W
AUGUST 2017

16+00

CUT AREA = 0.00 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 1.73 C.Y.
FILL VOL. = 24.78 C.Y.



15+00

CUT AREA = 0.93 S.F.
FILL AREA = 13.38 S.F.

CUT VOL. = 1.73 C.Y.
FILL VOL. = 126.56 C.Y.

14+00

CUT AREA = 0.00 S.F.
FILL AREA = 54.96 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 244.17 C.Y.

SCALE: HORIZ: 1"=10'
VERT: 1"=10'

DRIVEWAY AT STA. 394+76

State Job No. 24428(04) Sheet No. X303

8/27/2017 7:29:12 PM

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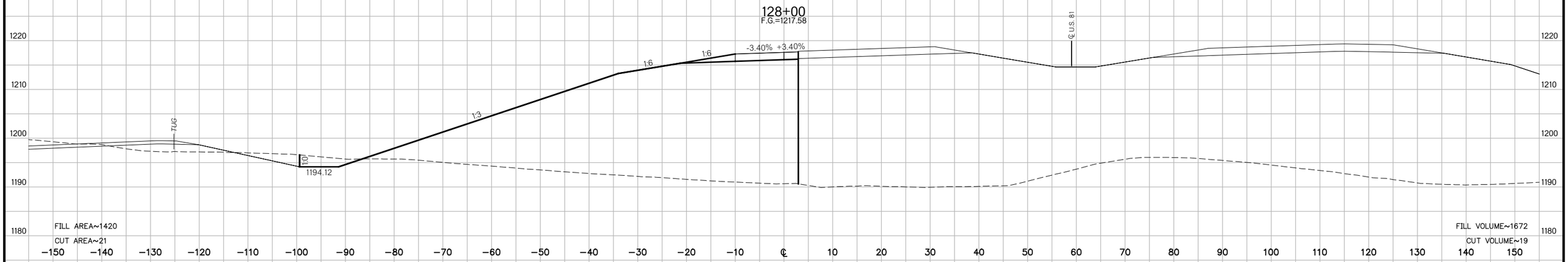
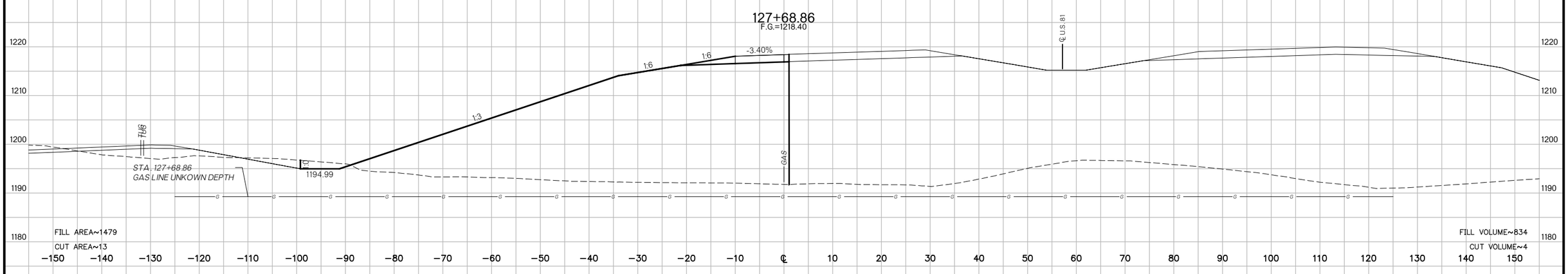
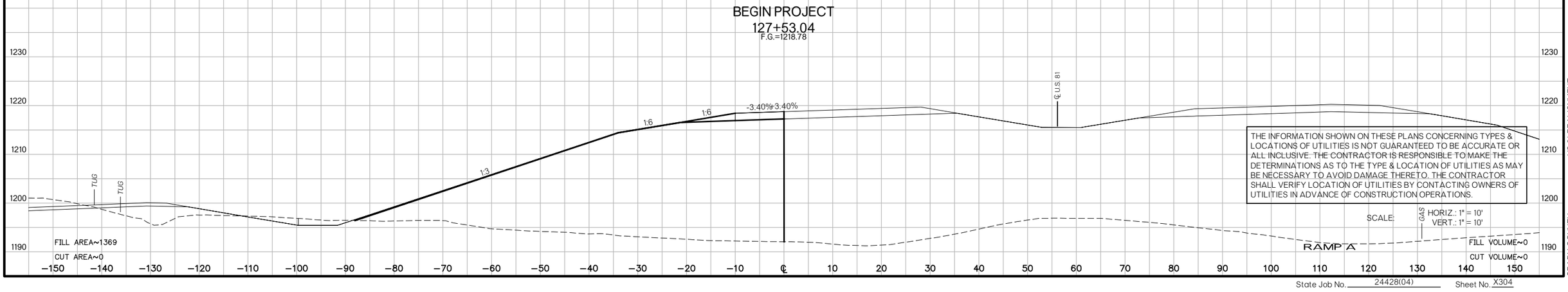
US-81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017







THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPES & LOCATIONS OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE TO MAKE THE DETERMINATIONS AS TO THE TYPE & LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING OWNERS OF UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS.

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

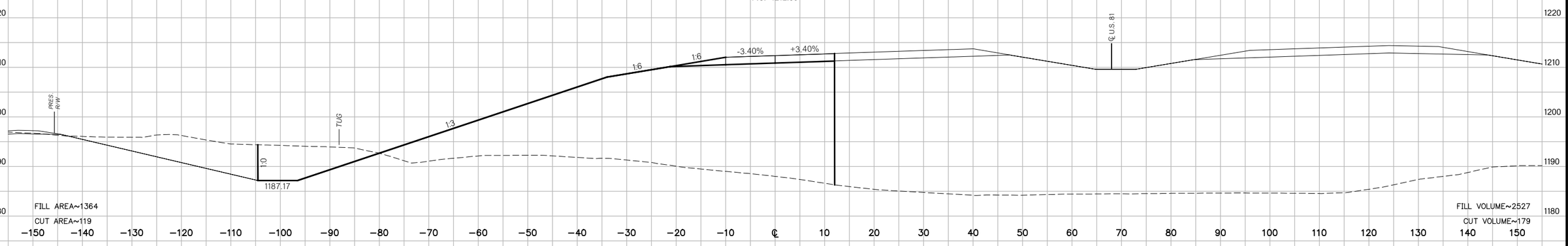
RAMPTA

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X304

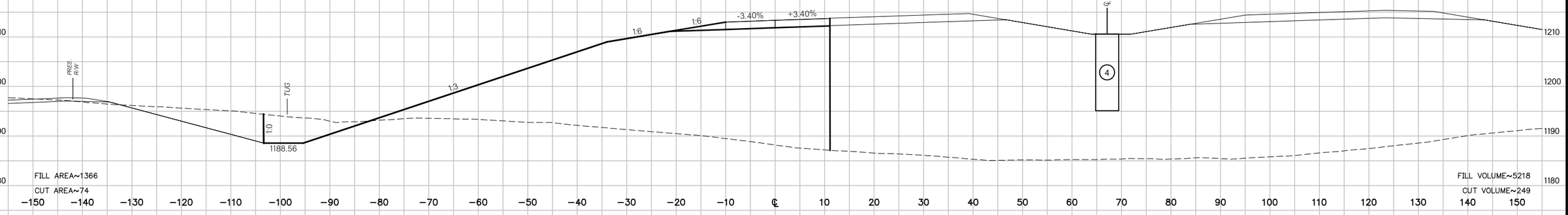
PROPOSED
R/W
AUGUST 2017

130+50
F.G.=1212.35

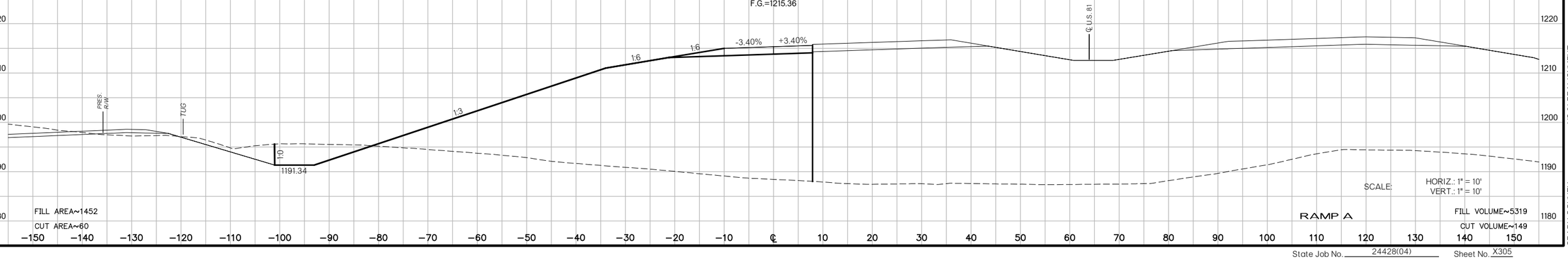


130+00
F.G.=1213.35

(4) STA. 130+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 168 LF 18" RCP INTO DITCH RT. W/ CET
TG=1210.60, FL=1195.60, DS FL=1185.07



129+00
F.G.=1215.36



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

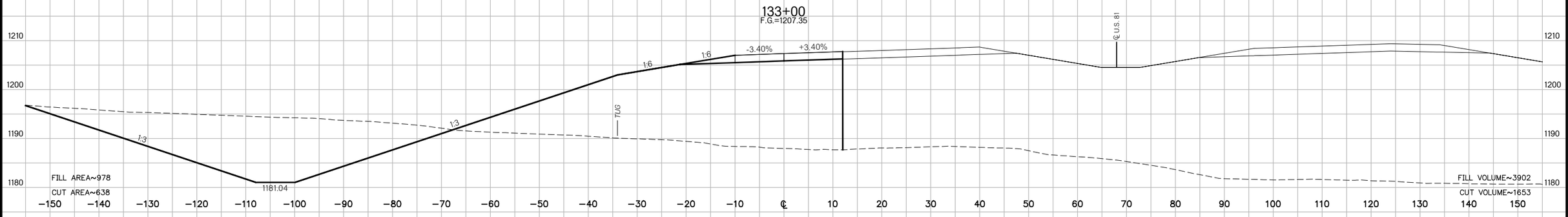
RAMP A

US 81 REALIGNMENT
GRADY COUNTY

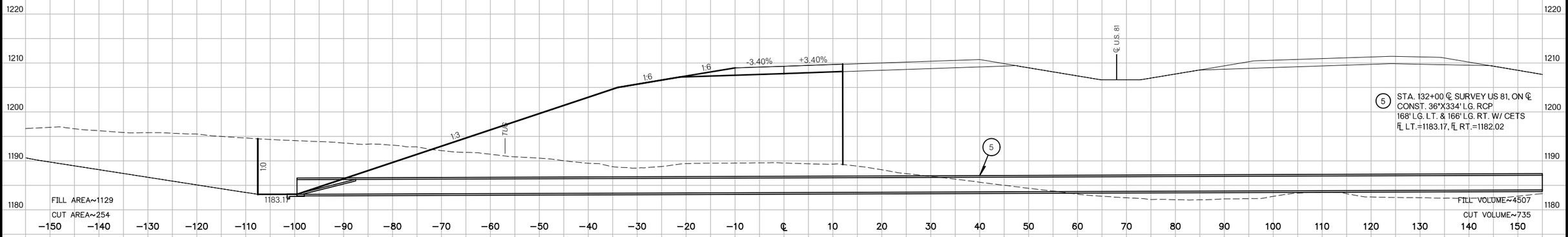
State Job No. 24428(04) Sheet No. X305

PROPOSED
R/W
AUGUST 2017

133+00
F.G.=1207.35

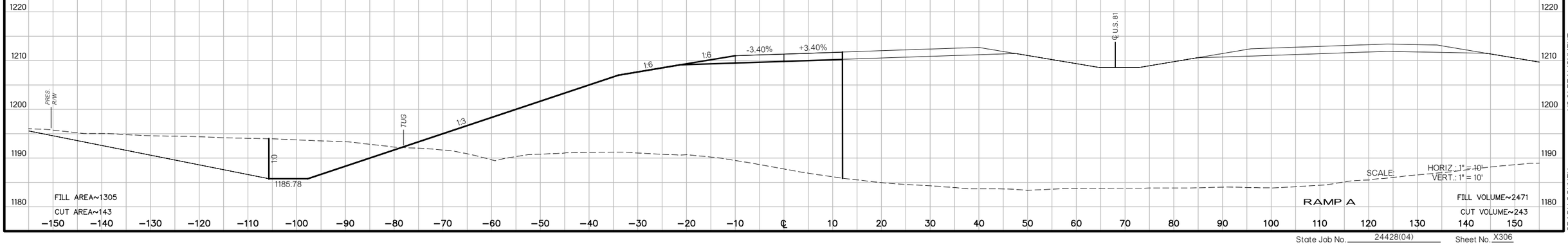


132+00
F.G.=1209.35



(5) STA. 132+00 ℄ SURVEY US 81, ON ℄ CONST. 36"X334' LG. RCP
168' LG. LT. & 166' LG. RT. W/ CETS
℄ LT.=1183.17, ℄ RT.=1182.02

131+00
F.G.=1211.35



SCALE: HORIZ. 1" = 10'
VERT.: 1" = 10'

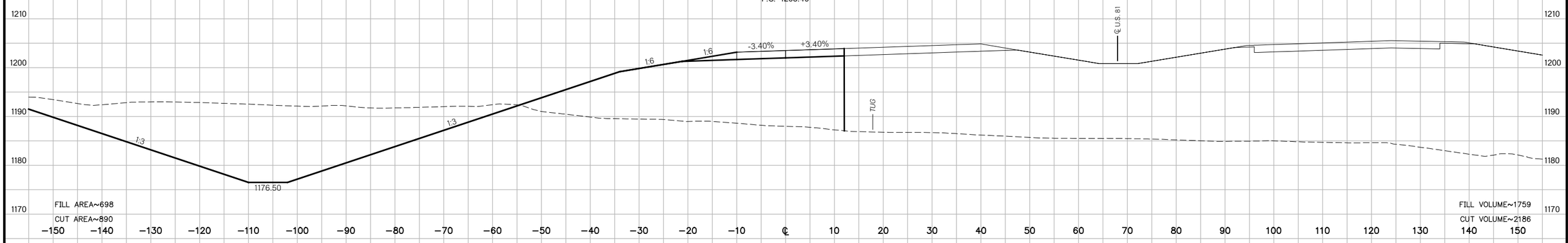
RAMP A

US 81 REALIGNMENT
GRADY COUNTY

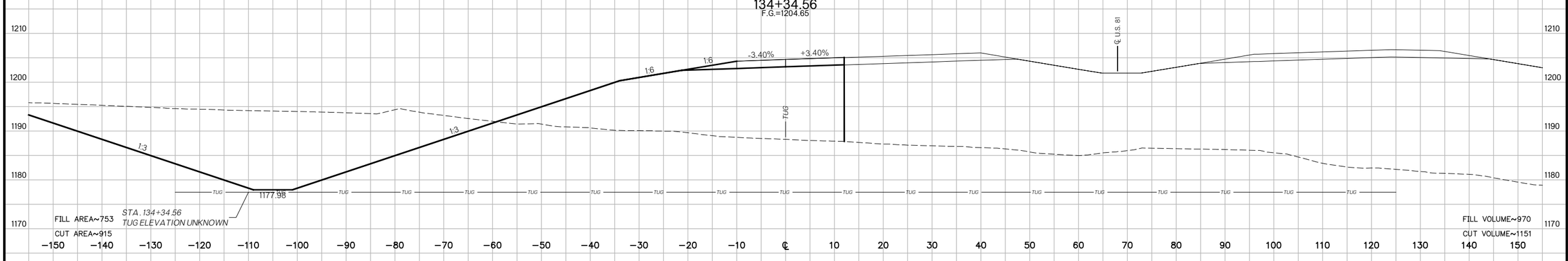
State Job No. 24428(04) Sheet No. X306

PROPOSED
R/W
AUGUST 2017

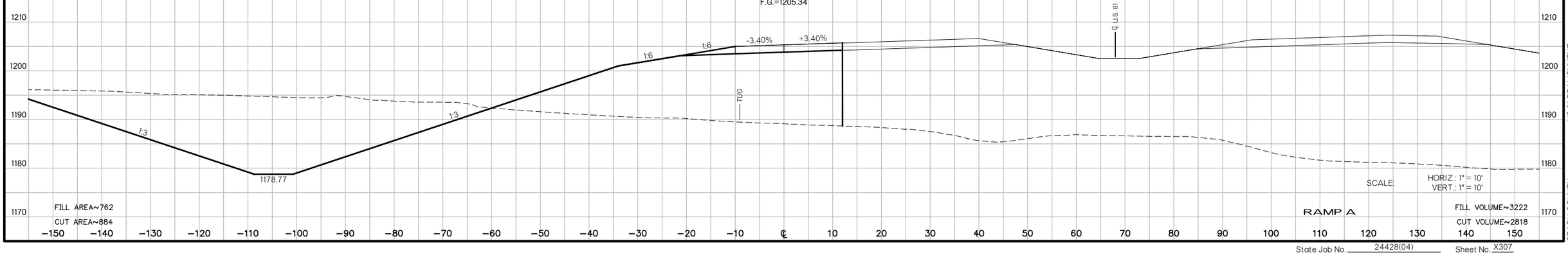
135+00
F.G.=1203.49



134+34.56
F.G.=1204.65



134+00
F.G.=1205.34

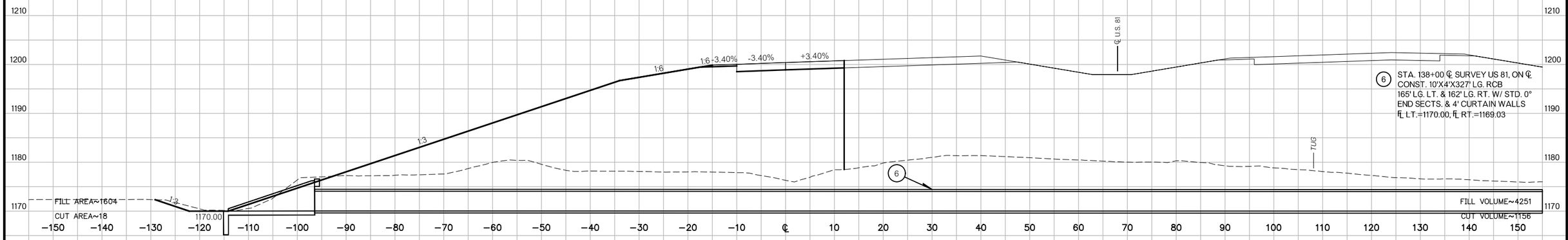


US 81 REALIGNMENT
GRADY COUNTY

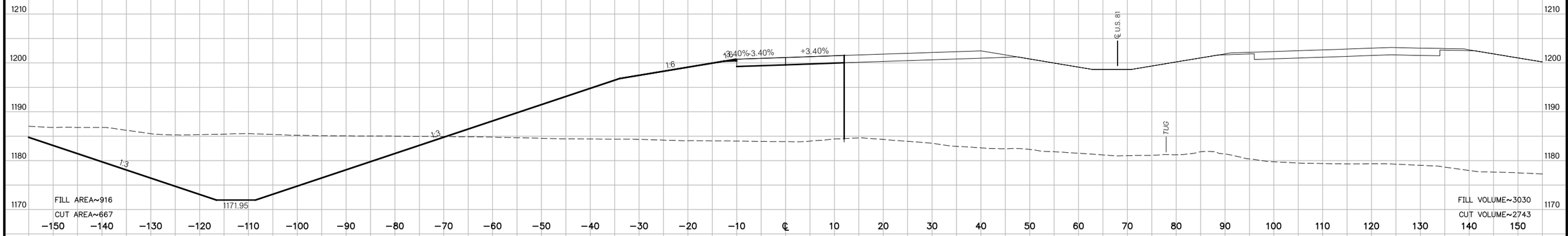
State Job No. 24428(04) Sheet No. X307

PROPOSED
R/W
AUGUST 2017

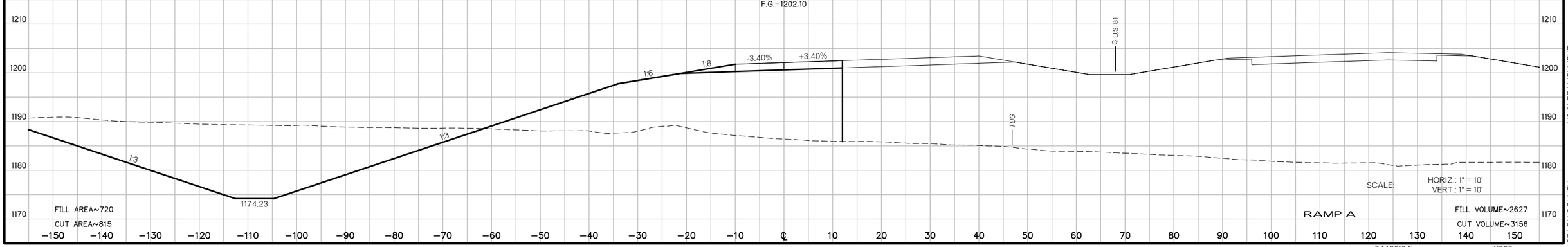
137+91.10
F.G.=1200.38



137+00
F.G.=1201.11



136+00
F.G.=1202.10



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

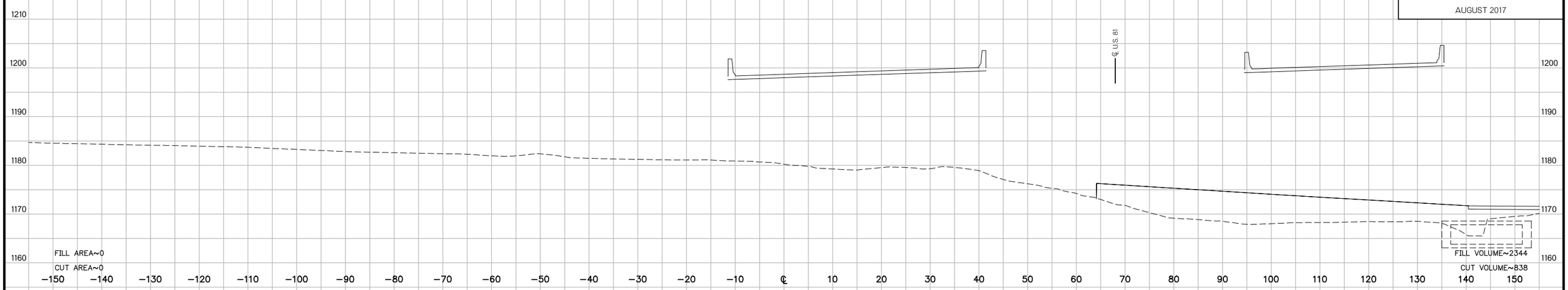
RAMP A

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X308

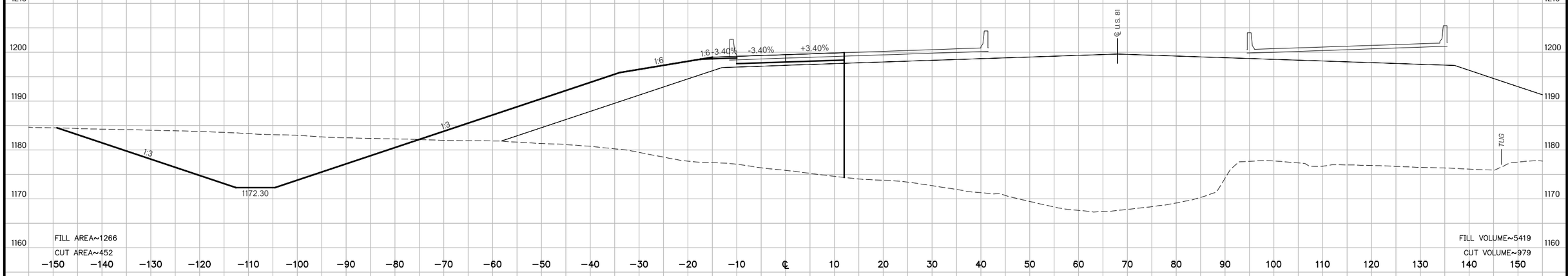
PROPOSED
R/W
AUGUST 2017

140+00

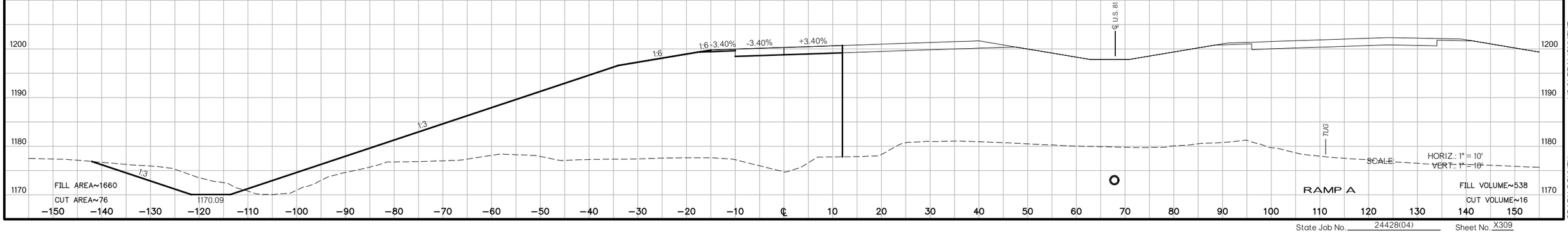


BEGIN APPROACH STA. 139+03.03

139+00
F.G.=1199.49



138+00
F.G.=1200.30

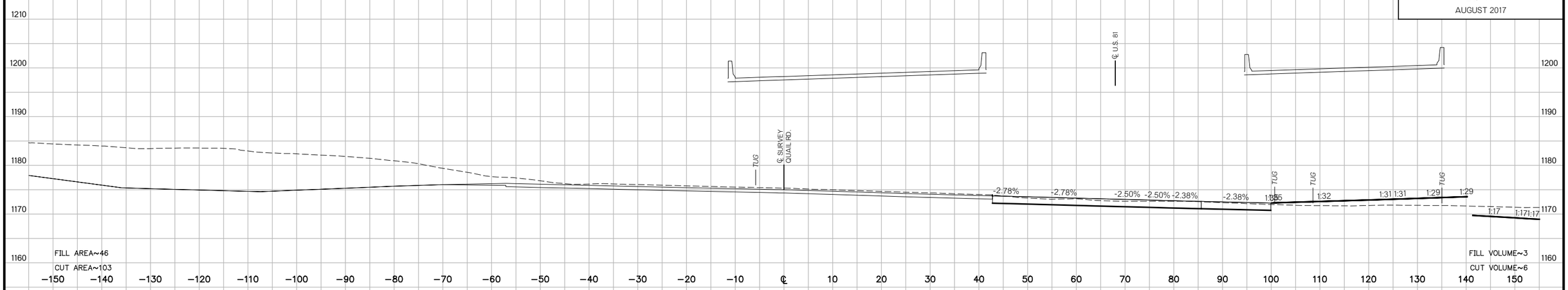


US 81 REALIGNMENT
GRADY COUNTY

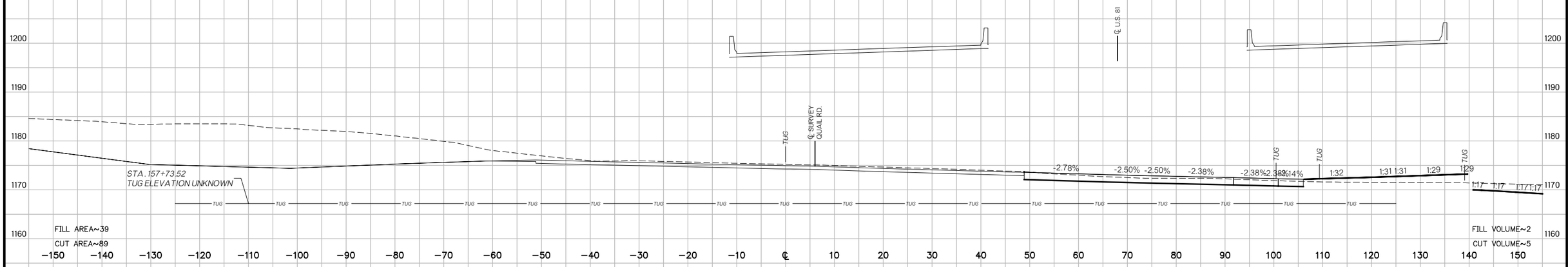
State Job No. 24428(04) Sheet No. X309

PROPOSED
R/W
AUGUST 2017

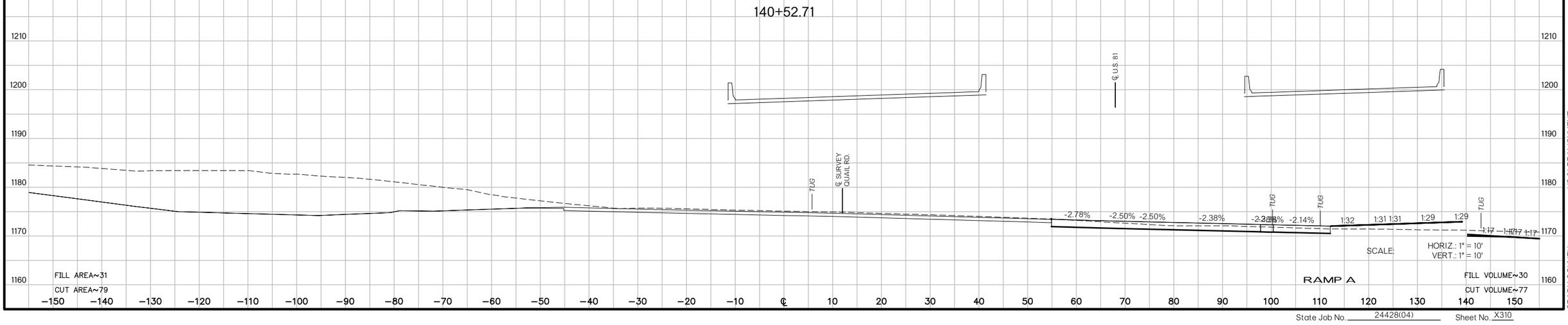
140+56.21



140+54.45



140+52.71

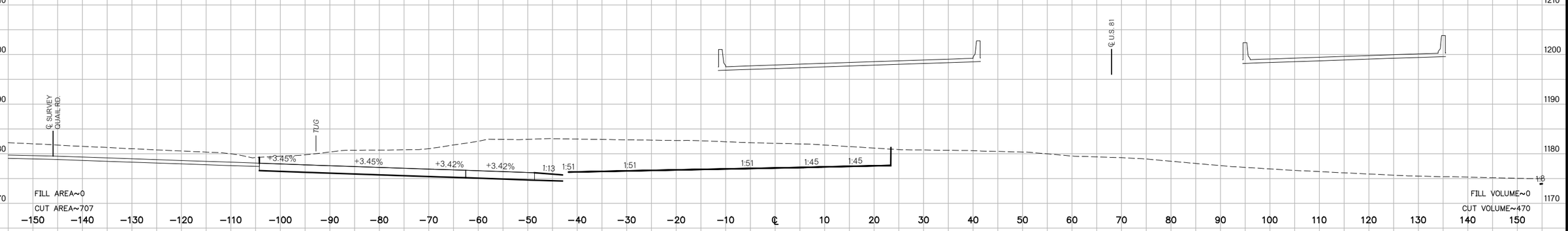


US 81 REALIGNMENT
GRADY COUNTY

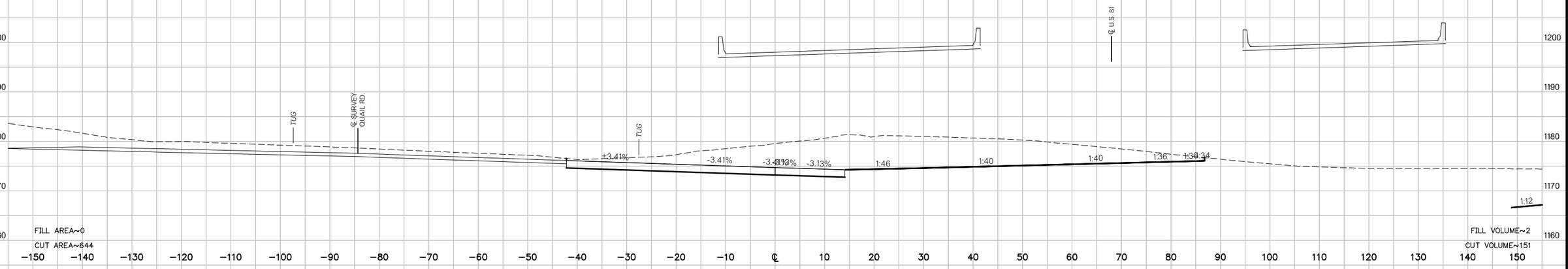
State Job No. 24428(04) Sheet No. X310

PROPOSED
R/W
AUGUST 2017

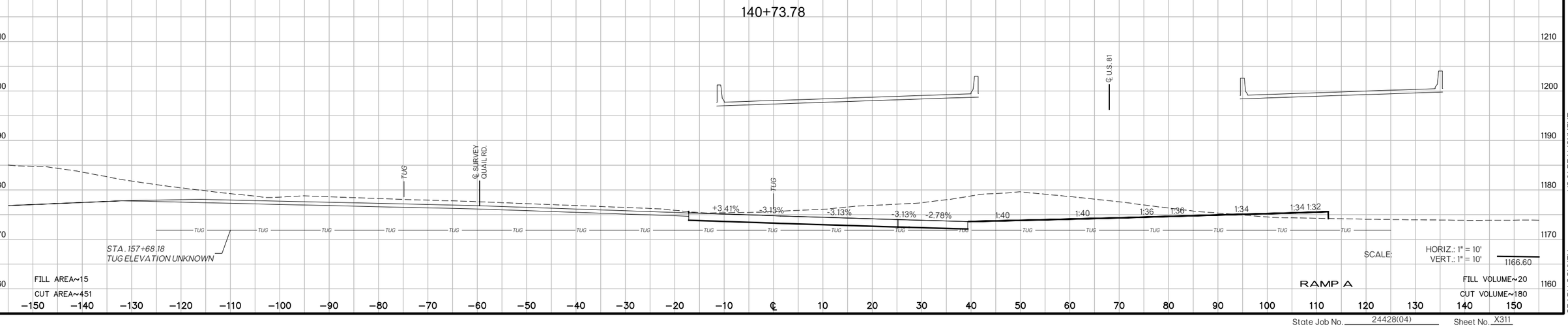
141+00



140+81.22



140+73.78

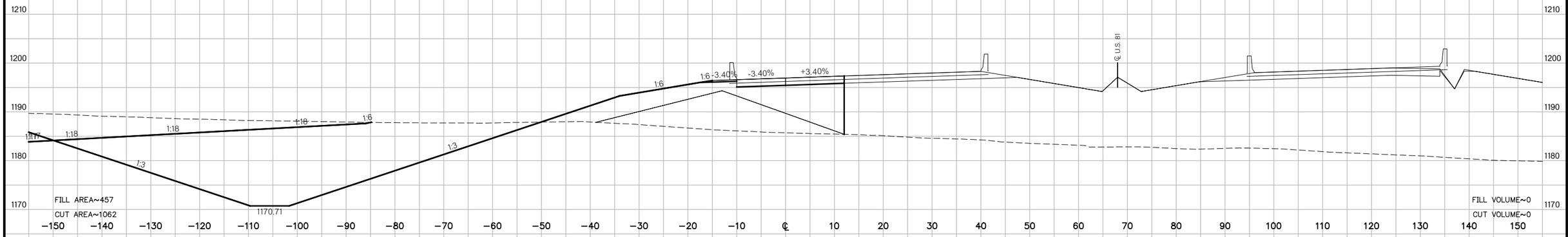


US 81 REALIGNMENT
GRADY COUNTY

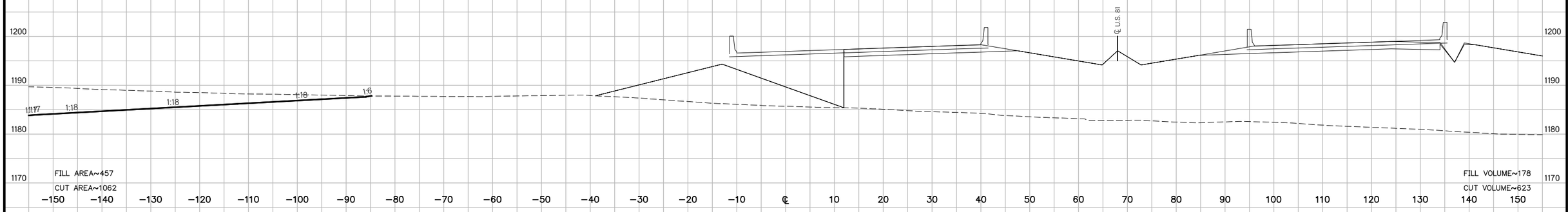
State Job No. 24428(04) Sheet No. X311

PROPOSED
R/W
AUGUST 2017

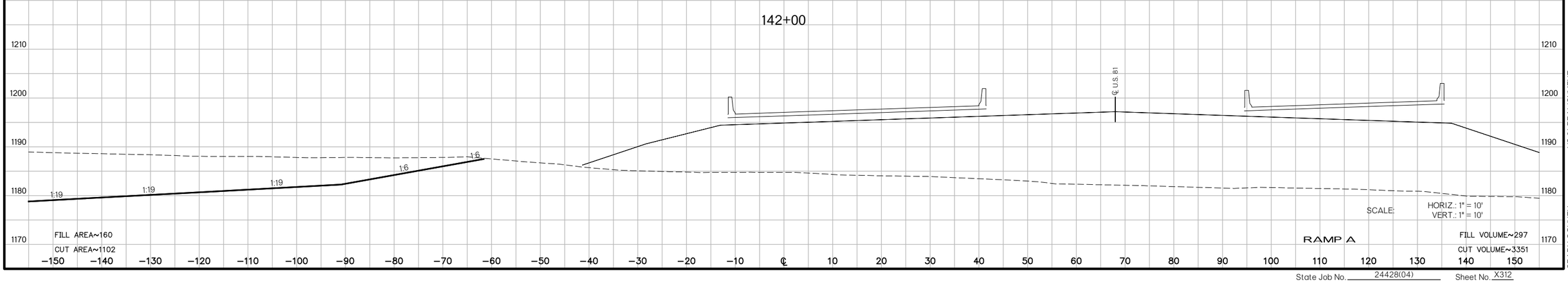
END APPROACH
142+15.57
F.G.=1196.94



142+15.56



142+00

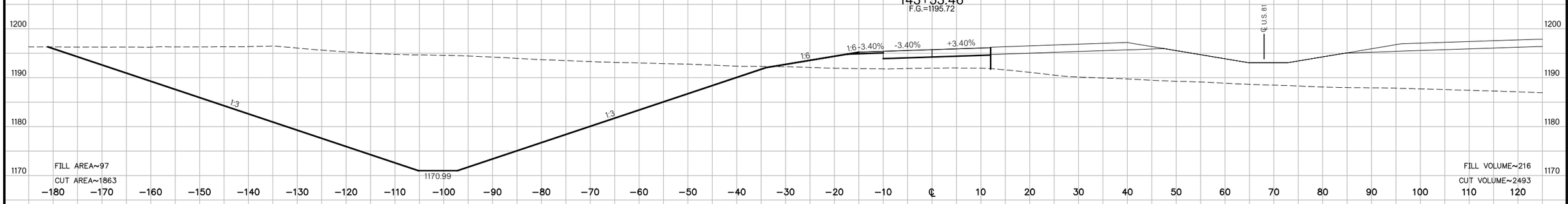


US 81 REALIGNMENT
GRADY COUNTY

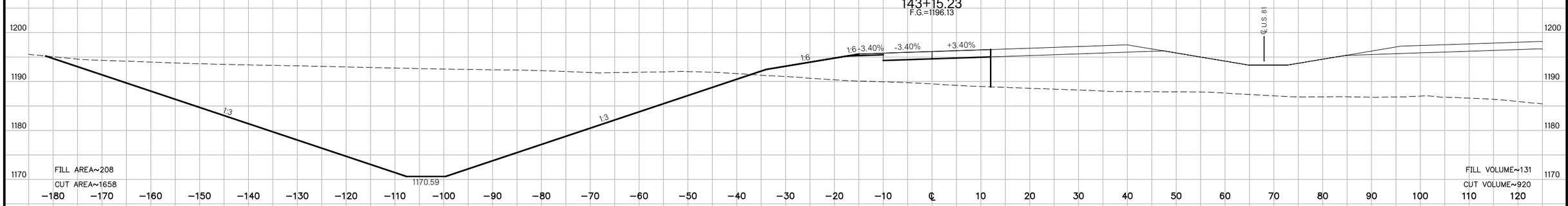
State Job No. 24428(04) Sheet No. X312

PROPOSED
R/W
AUGUST 2017

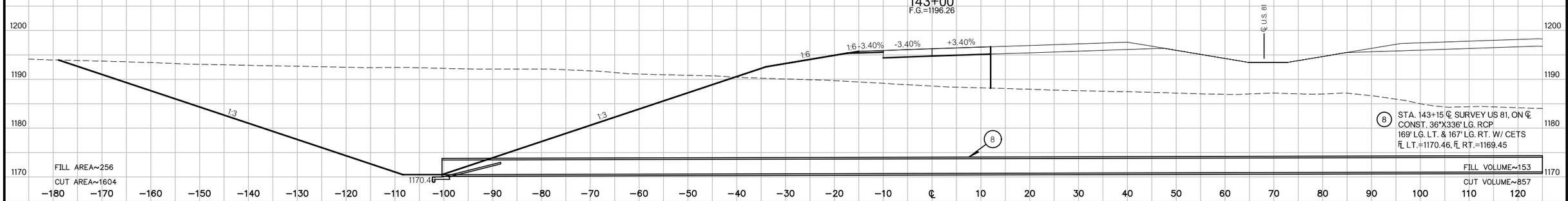
143+53.46
F.G.=1195.72



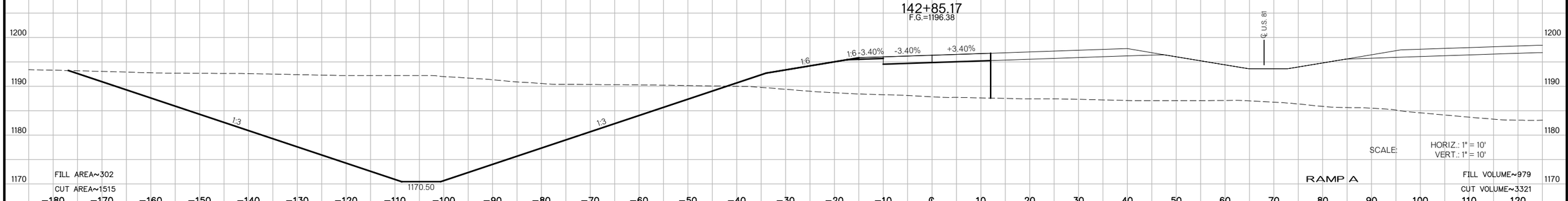
END NORMAL CROWN
143+15.23
F.G.=1196.13



143+00
F.G.=1196.26



142+85.17
F.G.=1196.38



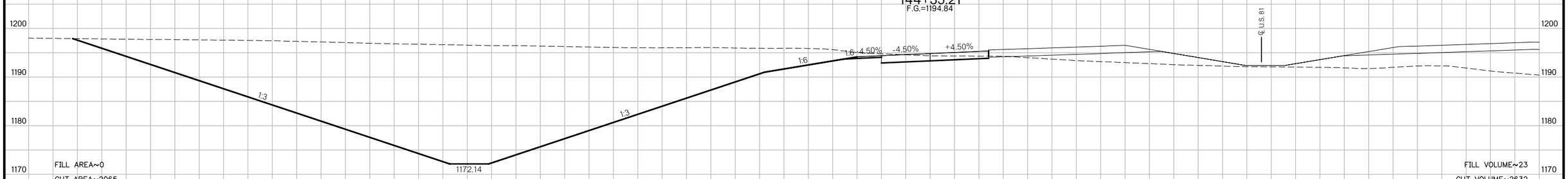
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X313

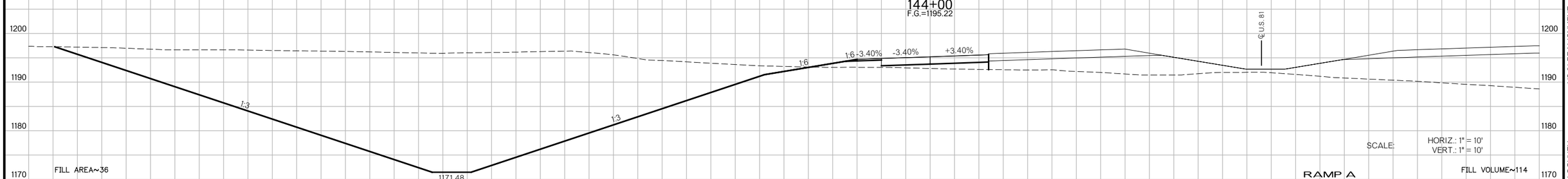
PROPOSED
R/W
AUGUST 2017

BEGIN FULL SUPERELEVATION
144+62.46
F.G.=1194.49

144+35.21
F.G.=1194.84



144+00
F.G.=1195.22



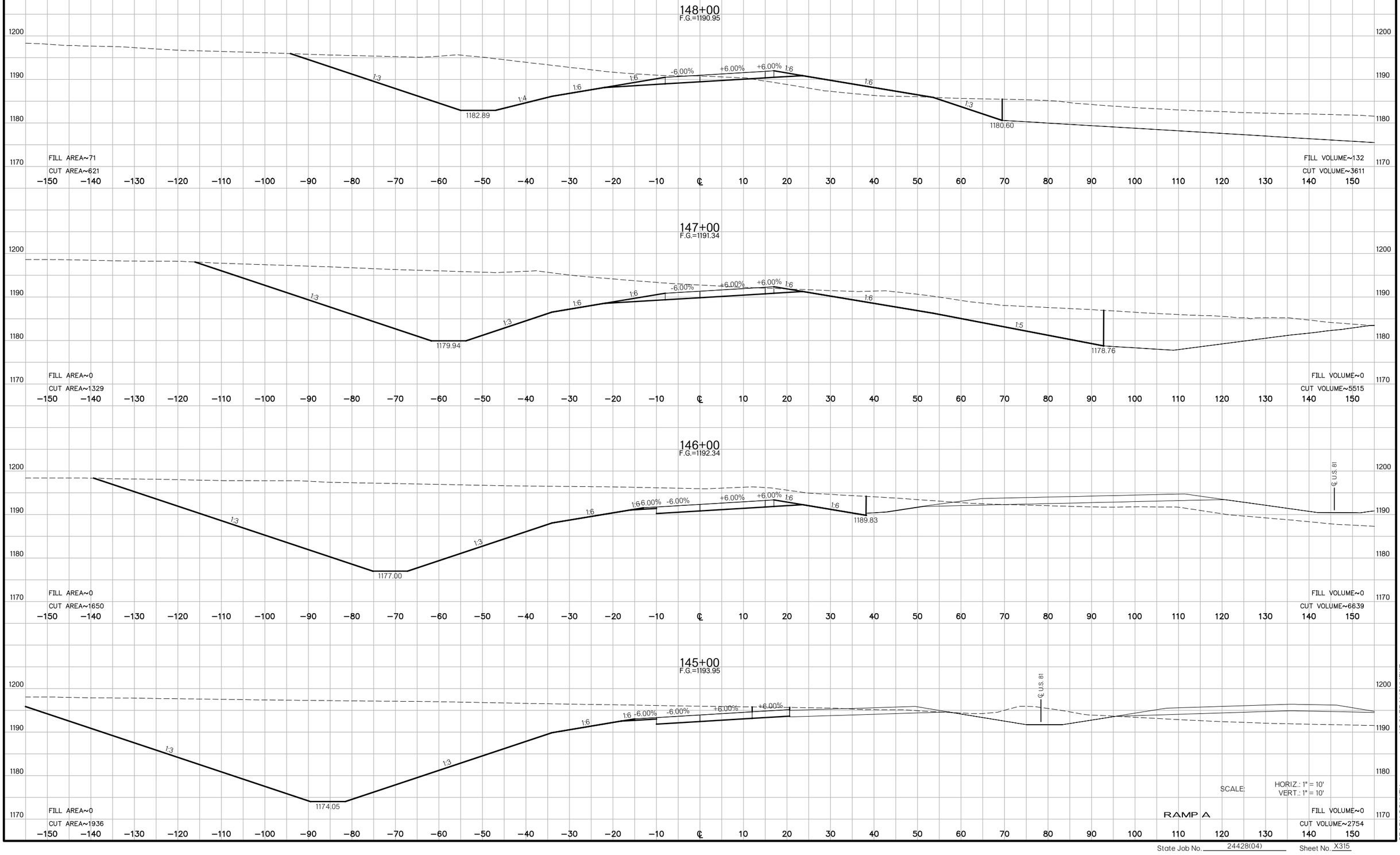
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP A

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X314

PROPOSED
R/W
AUGUST 2017



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP A

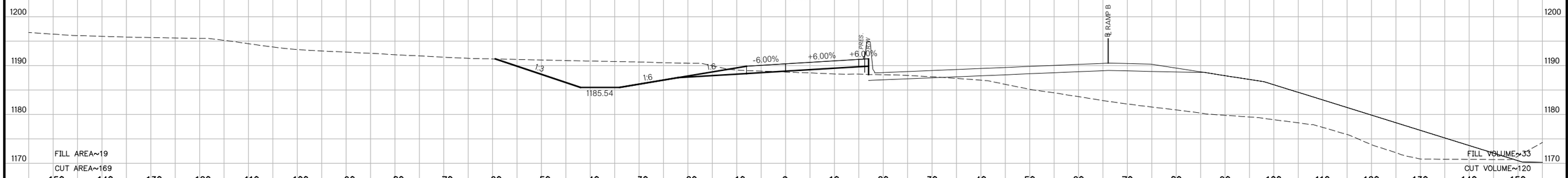
US 81 REALIGNMENT

GRADY COUNTY

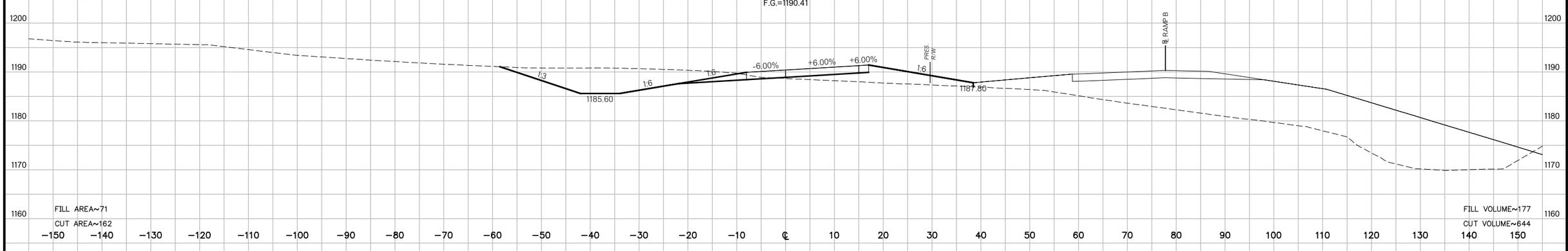
State Job No. 24428(04) Sheet No. X315

PROPOSED
R/W
AUGUST 2017

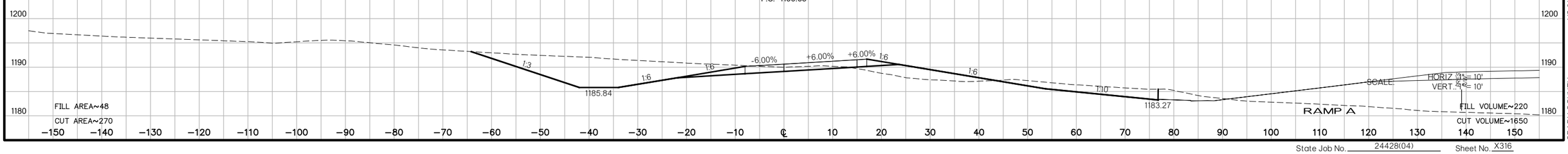
150+00
F.G.=1190.35



149+80.37
F.G.=1190.41



149+00
F.G.=1190.65

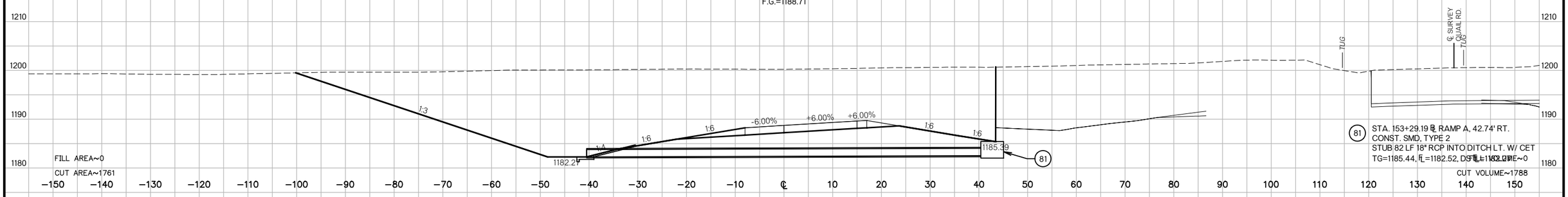


US 81 REALIGNMENT
GRADY COUNTY

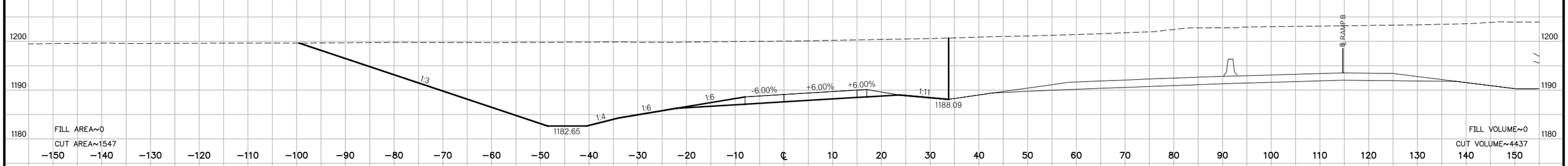
State Job No. 24428(04) Sheet No. X316

PROPOSED
R/W
AUGUST 2017

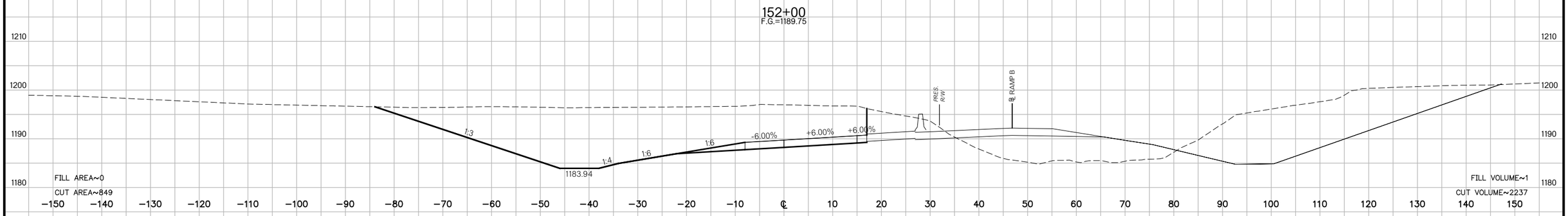
153+29.19
F.G.=1188.71



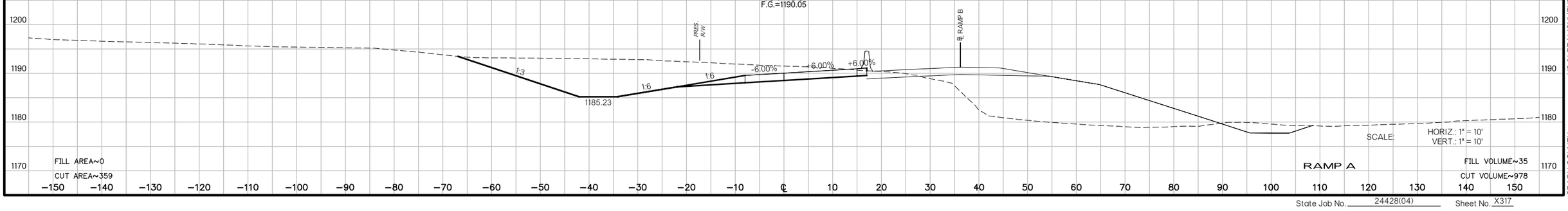
153+00
F.G.=1189.09



152+00
F.G.=1189.75



151+00
F.G.=1190.05

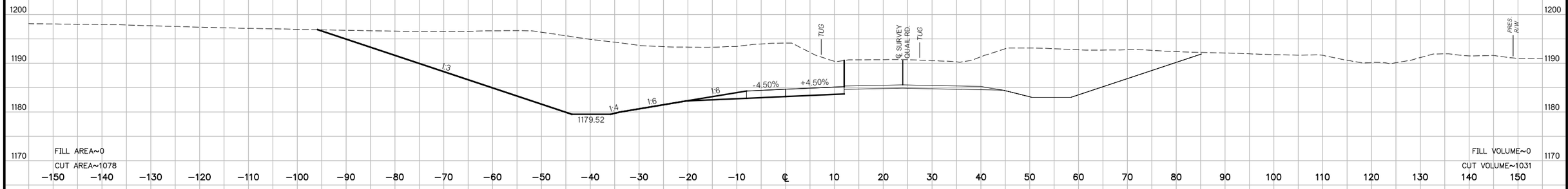


US 81 REALIGNMENT
GRADY COUNTY

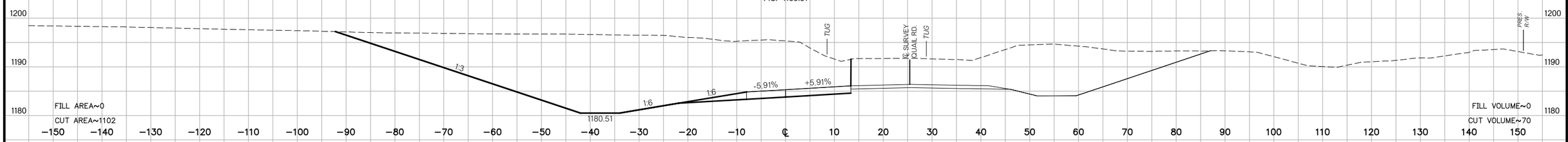
State Job No. 24428(04) Sheet No. X317

PROPOSED
R/W
AUGUST 2017

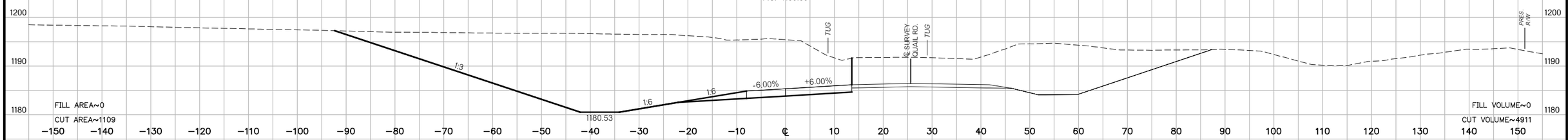
155+25.53
F.G.=1184.66



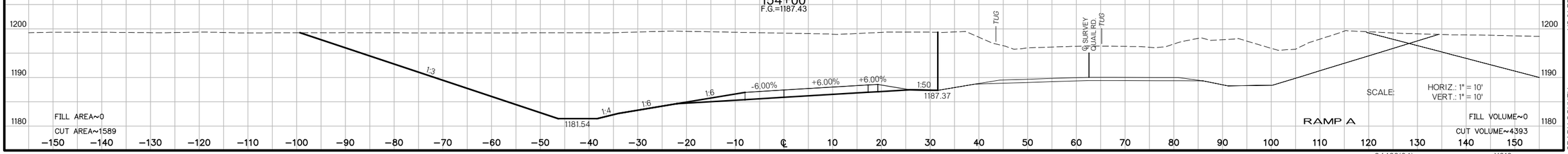
155+00
F.G.=1185.31



END FULL SUPERELEVATION
154+98.28
F.G.=1185.35



154+00
F.G.=1187.43



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

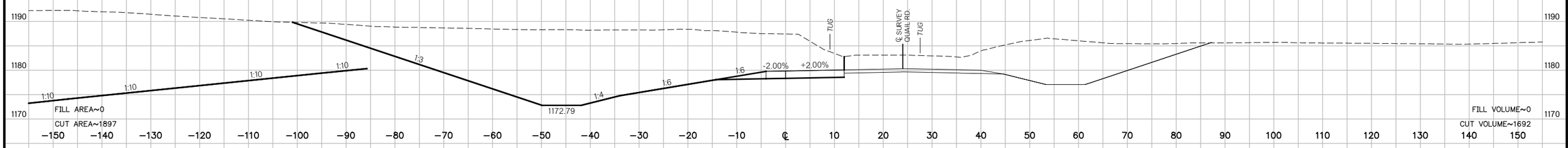
RAMP A

US 81 REALIGNMENT
GRADY COUNTY

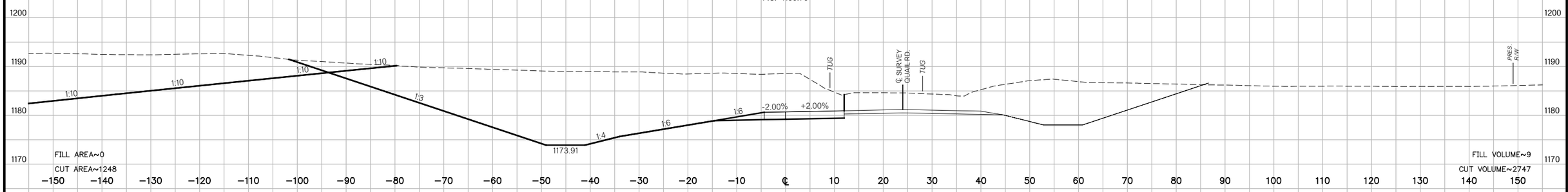
State Job No. 24428(04) Sheet No. X318

PROPOSED
R/W
AUGUST 2017

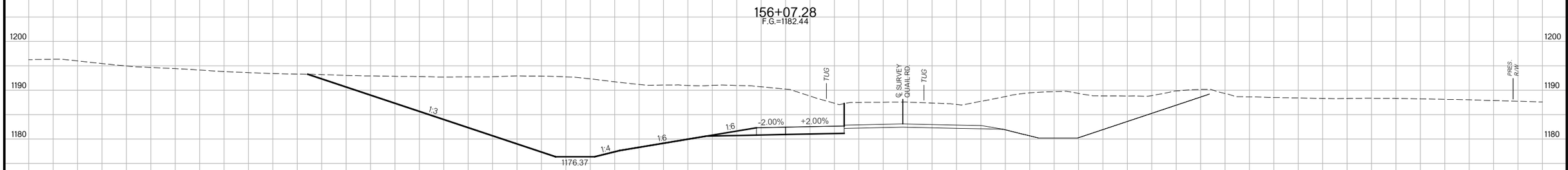
157+00
F.G.=1179.83



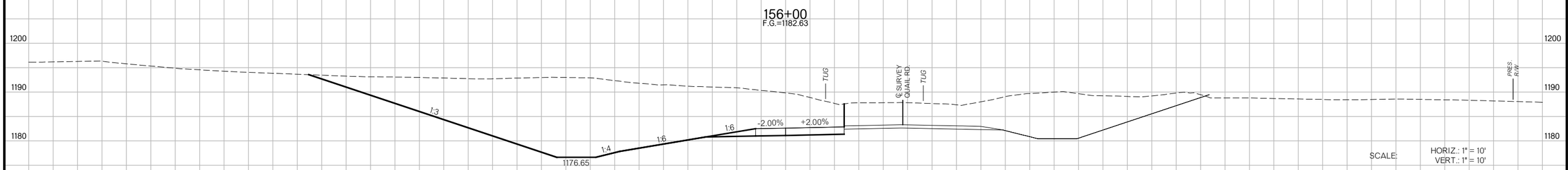
BEGIN NORMAL CROWN
156+70.95
F.G.=1180.70



156+07.28
F.G.=1182.44



156+00
F.G.=1182.63



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

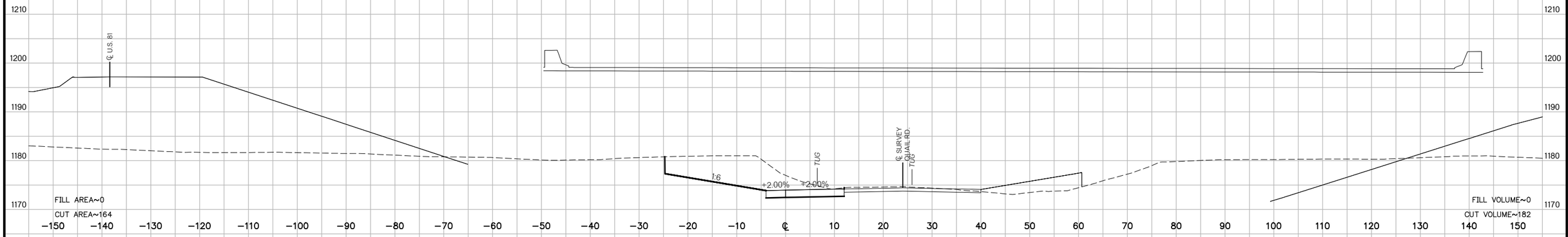
RAMP A

US 81 REALIGNMENT
GRADY COUNTY

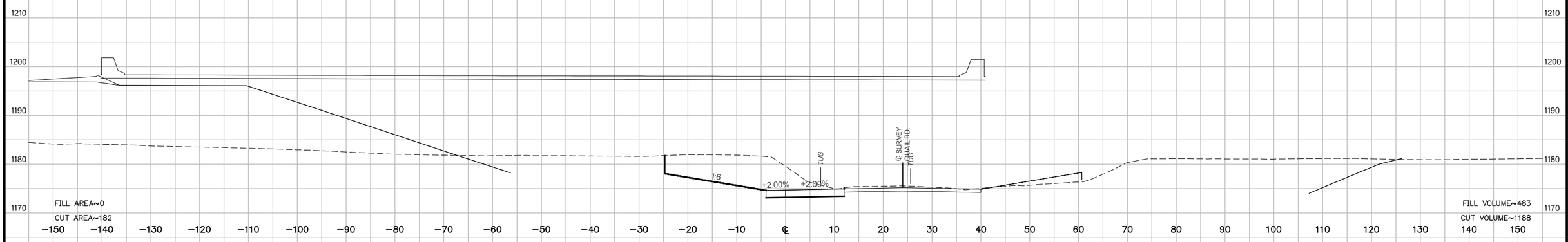
State Job No. 24428(04) Sheet No. X319

PROPOSED
R/W
AUGUST 2017

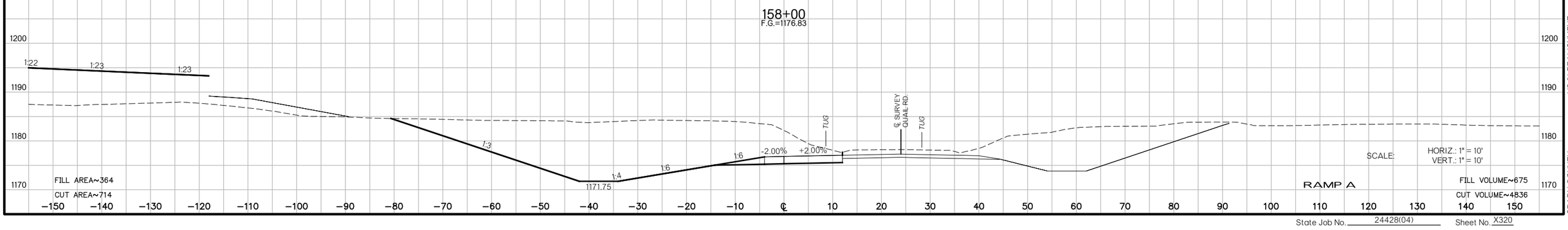
159+00



158+71.56



158+00
F.G.=1176.83



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

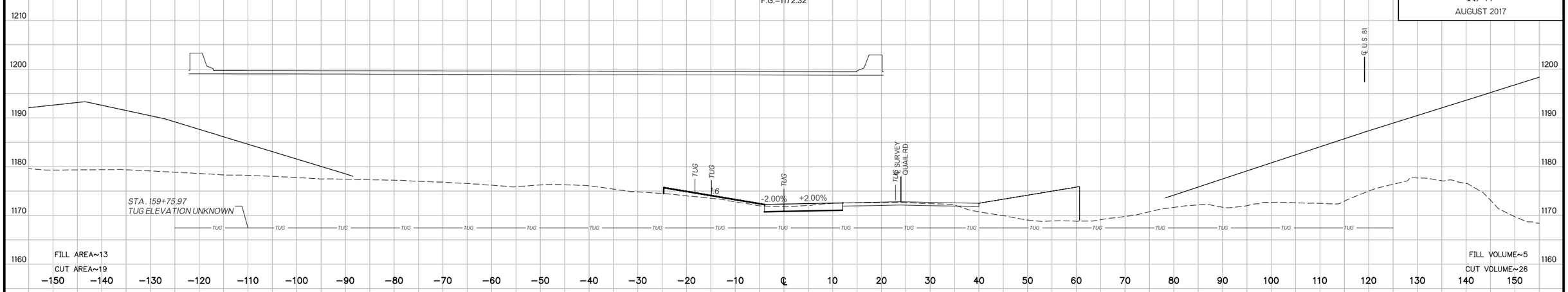
RAMP A

US 81 REALIGNMENT
GRADY COUNTY

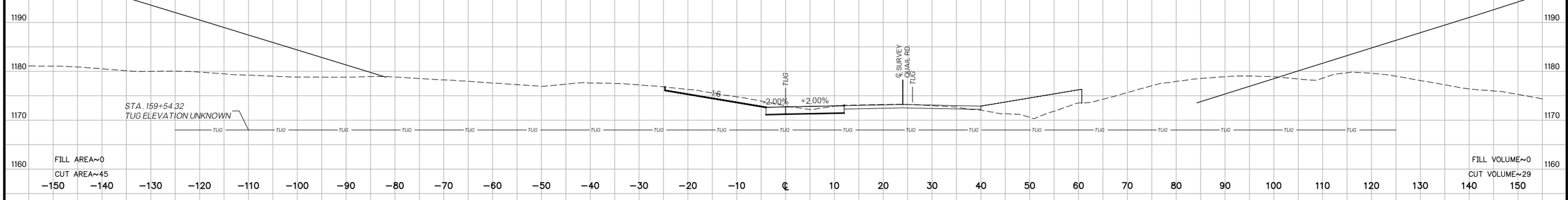
State Job No. 24428(04) Sheet No. X320

PROPOSED
R/W
AUGUST 2017

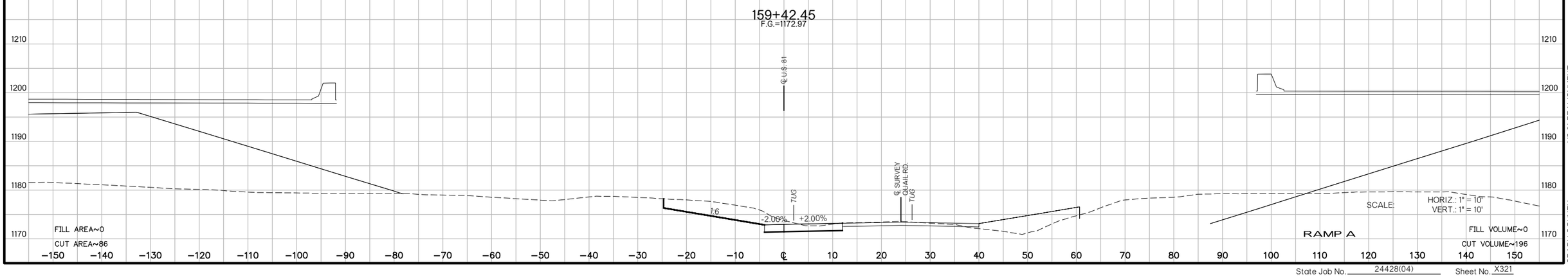
159+75.97
F.G.=1172.32



159+54.32
F.G.=1172.73



159+42.45
F.G.=1172.97

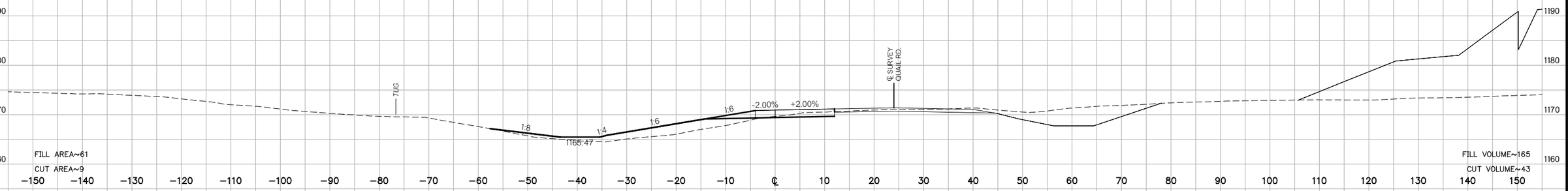


US 81 REALIGNMENT
GRADY COUNTY

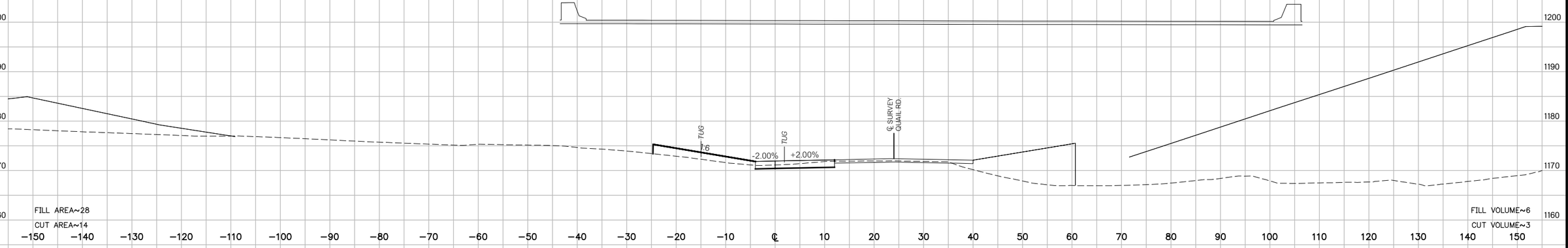
State Job No. 24428(04) Sheet No. X321

PROPOSED
R/W
AUGUST 2017

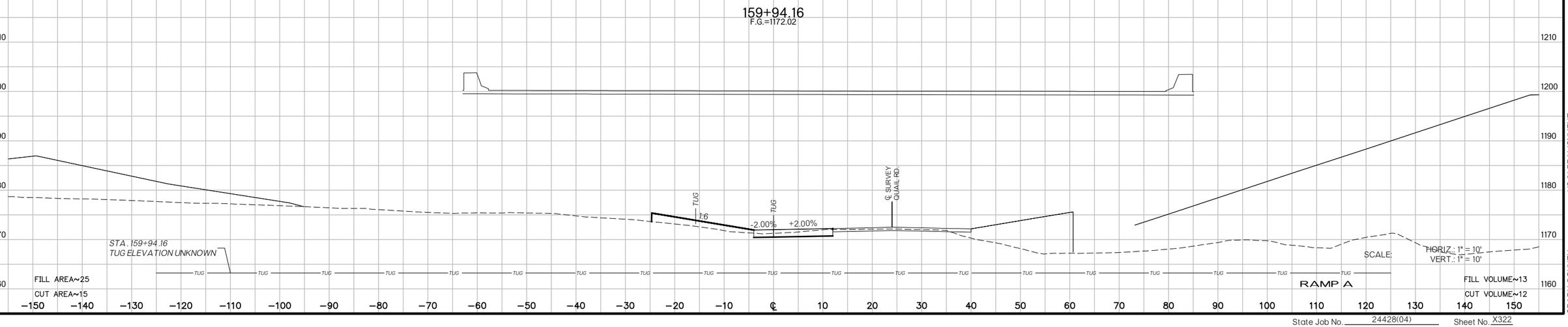
161+00
F.G.=1170.91



160+00
F.G.=1171.93



159+94.16
F.G.=1172.02



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

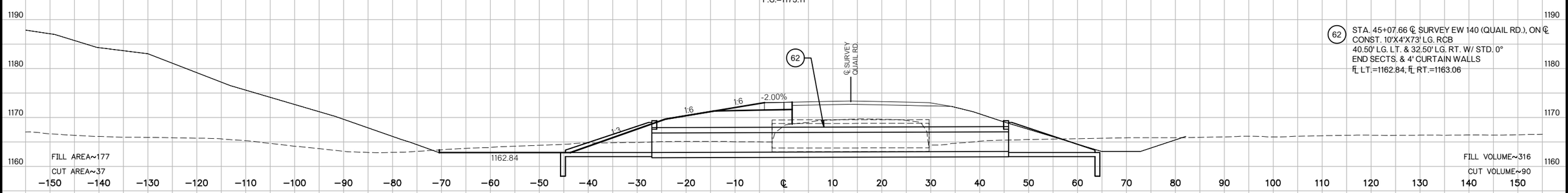
RAMP A

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X322

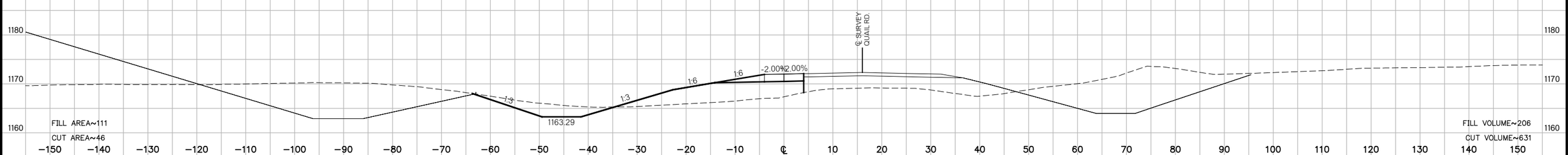
PROPOSED
R/W
AUGUST 2017

163+59.11
F.G.=1173.11

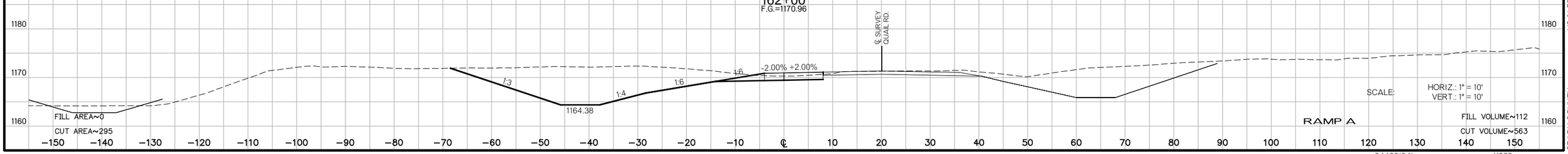


62 STA. 45+07.66 ℄ SURVEY EW 140 (QUAIL RD.), ON ℄
CONST. 10'X4'X73' LG. RCB
40.50' LG. LT. & 32.50' LG. RT. W/ STD. 0°
END SECTS. & 4' CURTAIN WALLS
FL LT.=1162.84, FL RT.=1163.06

163+00
F.G.=1172.01



162+00
F.G.=1170.96



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

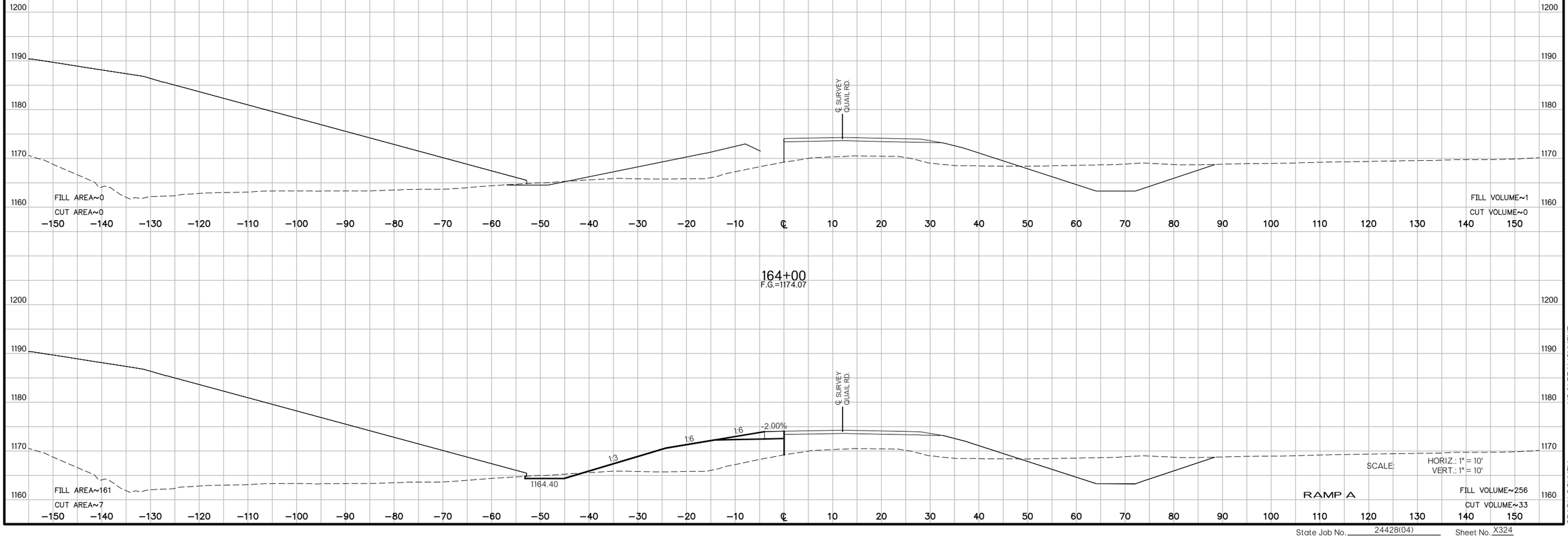
RAMP A

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X323

PROPOSED
R/W
AUGUST 2017

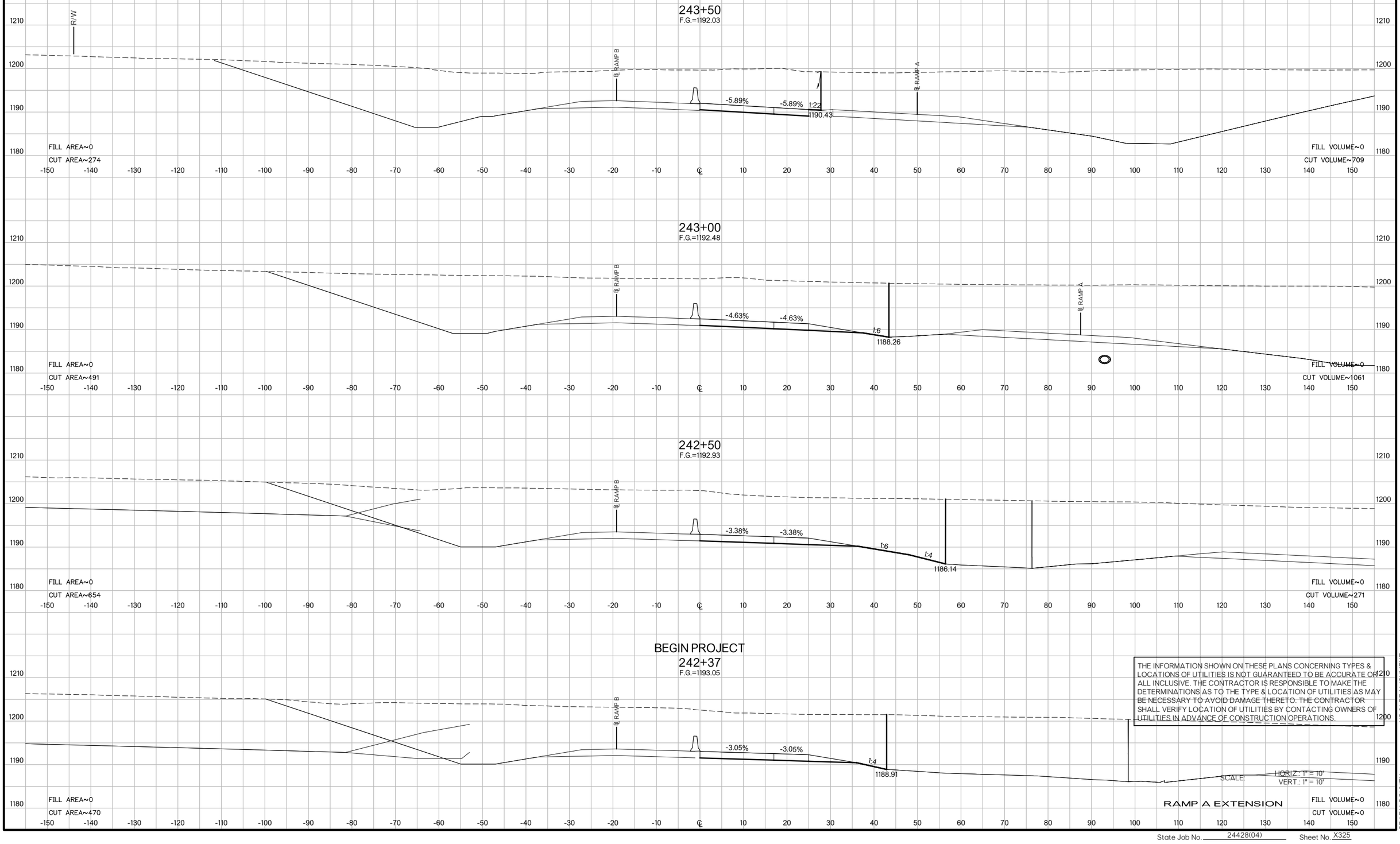
END PROJECT
164+00.22



US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X324

PROPOSED
R/W
AUGUST 2017



THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPES & LOCATIONS OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE TO MAKE THE DETERMINATIONS AS TO THE TYPE & LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING OWNERS OF UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS.

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP A EXTENSION

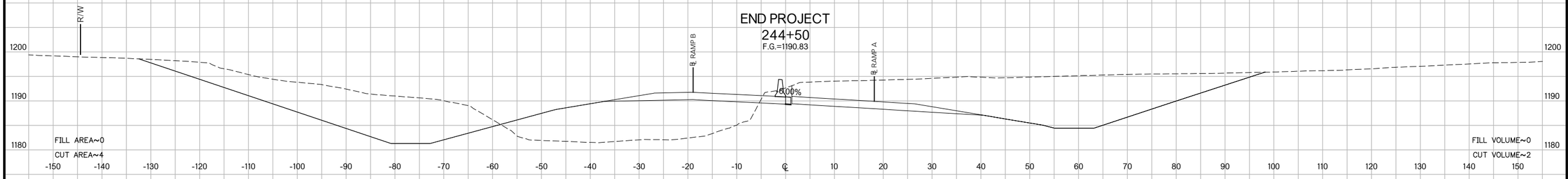
US 81 REALIGNMENT

GRADY COUNTY

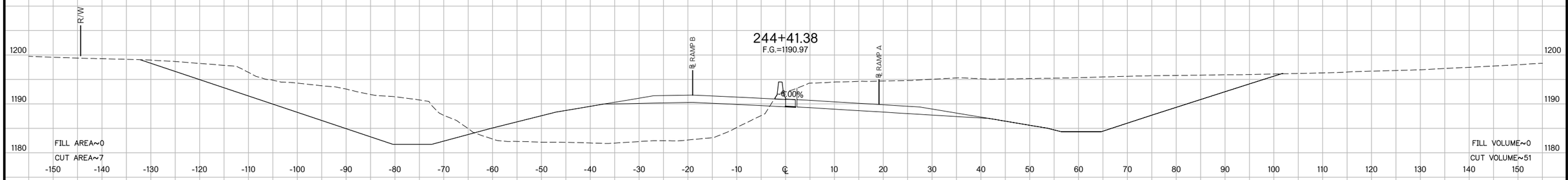
State Job No. 24428(04) Sheet No. X325

PROPOSED
R/W
AUGUST 2017

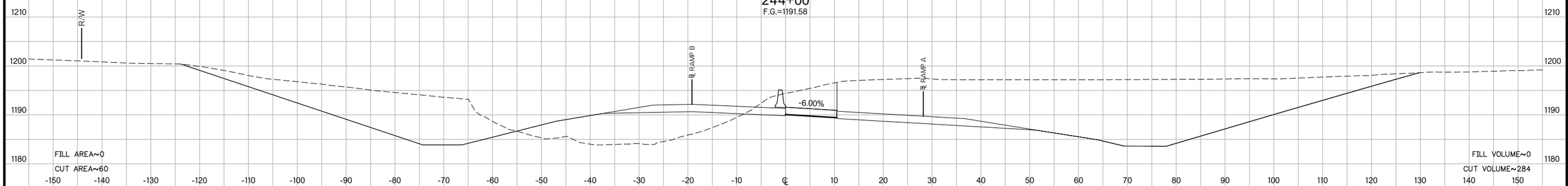
END PROJECT
244+50
F.G.=1190.83



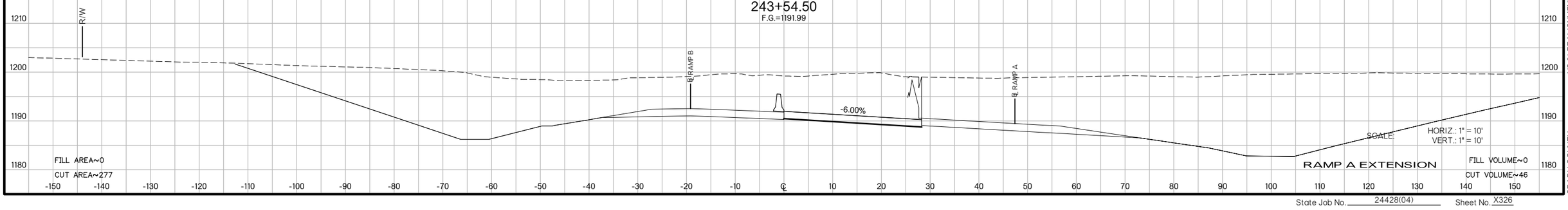
244+41.38
F.G.=1190.97



244+00
F.G.=1191.58



243+54.50
F.G.=1191.99



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP A EXTENSION

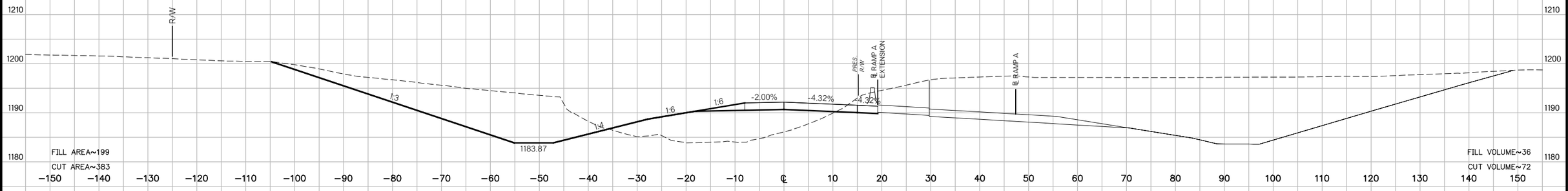
US 81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X326

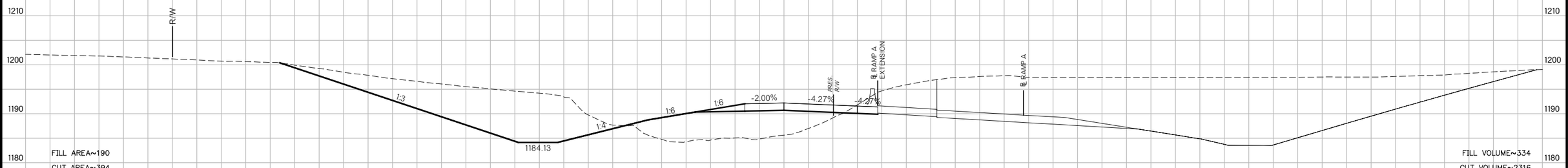
PROPOSED
R/W
AUGUST 2017

244+00
F.G.=1192.16



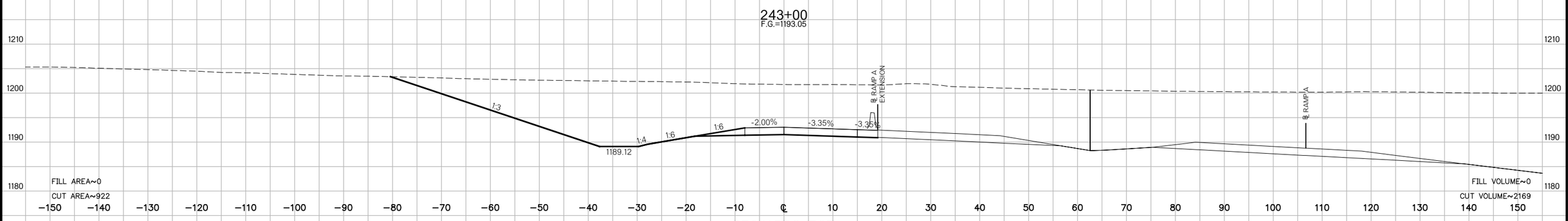
FILL AREA~199
CUT AREA~383
FILL VOLUME~36
CUT VOLUME~72

243+95.02
F.G.=1192.20



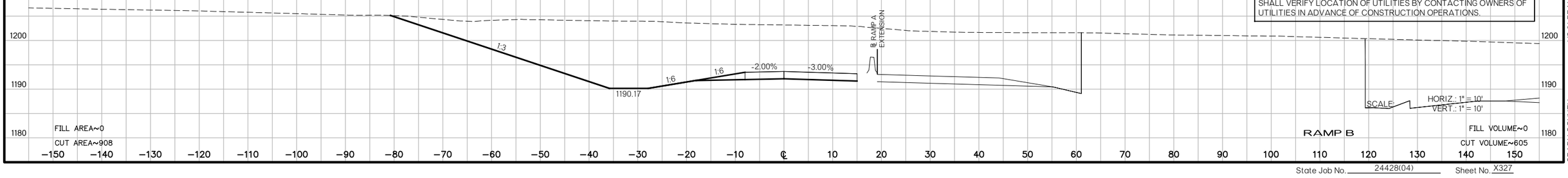
FILL AREA~190
CUT AREA~394
FILL VOLUME~334
CUT VOLUME~2316

243+00
F.G.=1193.05



FILL AREA~0
CUT AREA~922
FILL VOLUME~0
CUT VOLUME~2169

BEGIN PROJECT
BEGIN LANE ROTATION
242+36
F.G.=1193.63



THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPES & LOCATIONS OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE TO MAKE THE DETERMINATIONS AS TO THE TYPE & LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING OWNERS OF UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS.

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP B

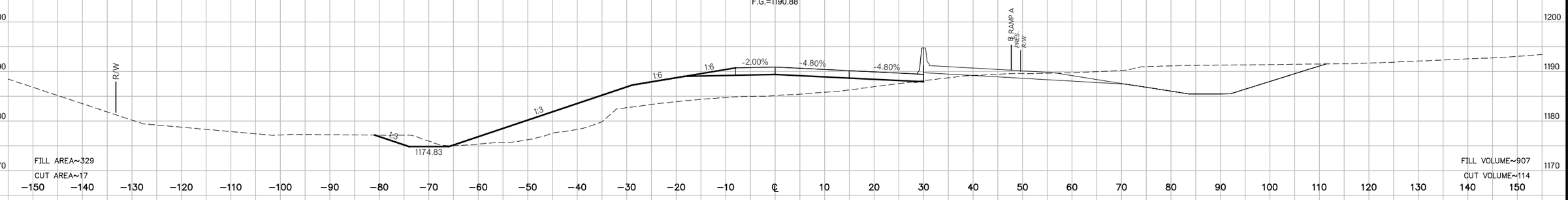
FILL AREA~0
CUT AREA~908
FILL VOLUME~0
CUT VOLUME~605

US 81 REALIGNMENT
GRADY COUNTY

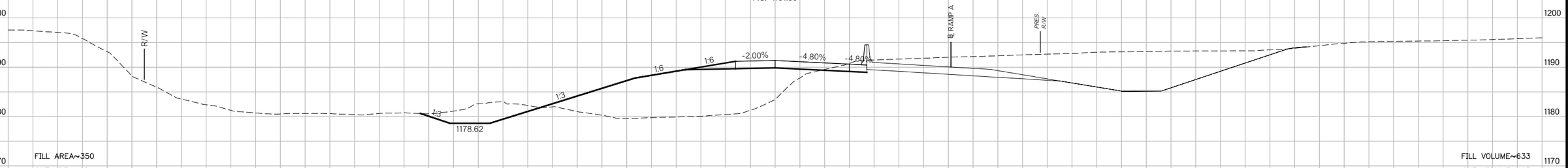
State Job No. 24428(04) Sheet No. X327

PROPOSED
R/W
AUGUST 2017

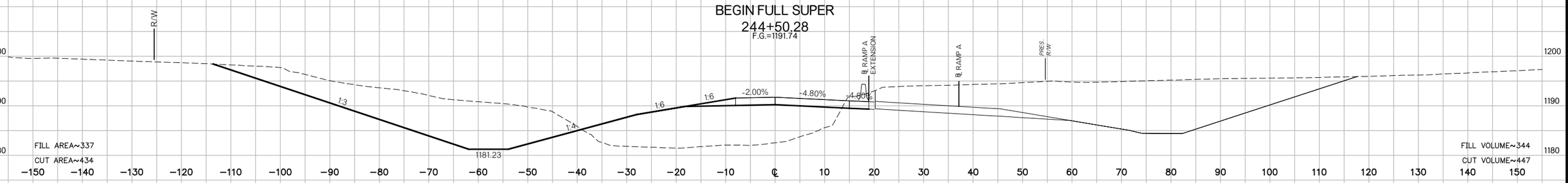
245+72.11
F.G.=1190.88



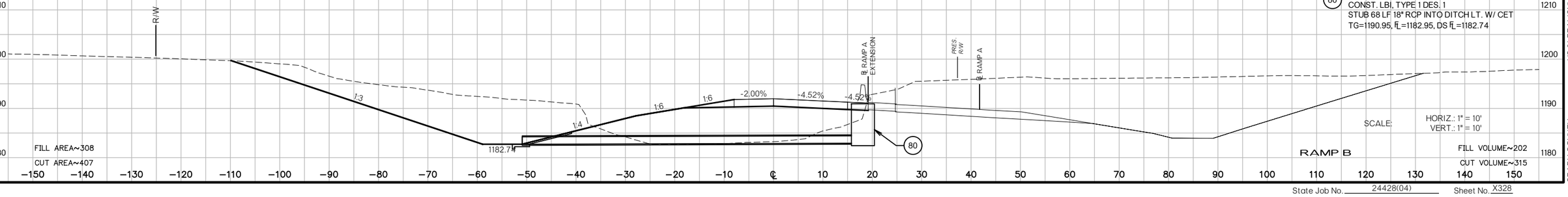
245+00
F.G.=1191.36



BEGIN FULL SUPER
244+50.28
F.G.=1191.74



244+21.53
F.G.=1191.97



80 STA. 244+21.53 ℄ RAMP B, 18.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 68 LF 18" RCP INTO DITCH LT. W/ CET
TG=1190.95, ℄=1182.95, DS ℄=1182.74

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP B

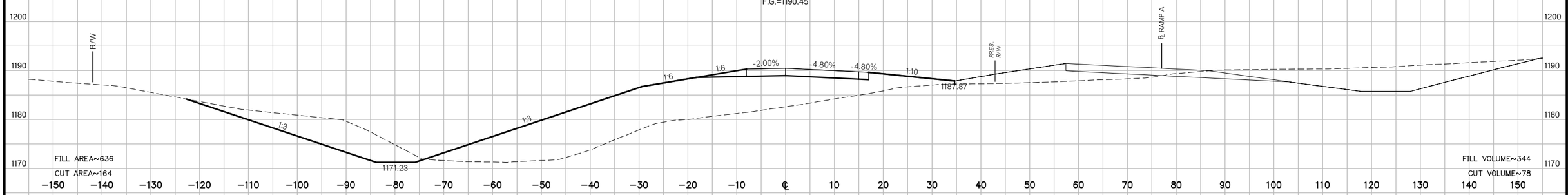
US 81 REALIGNMENT

GRADY COUNTY

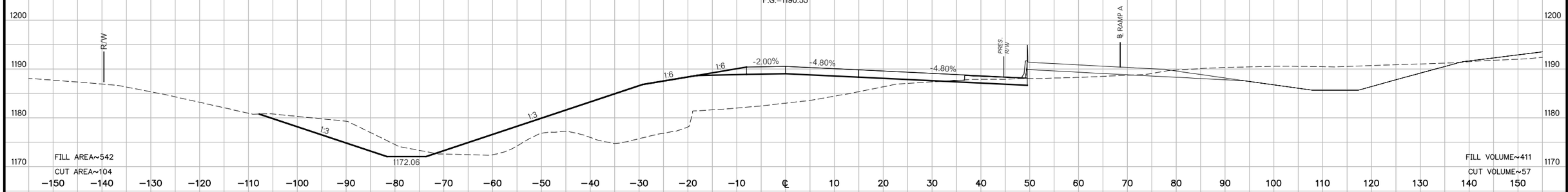
State Job No. 24428(04) Sheet No. X328

PROPOSED
R/W
AUGUST 2017

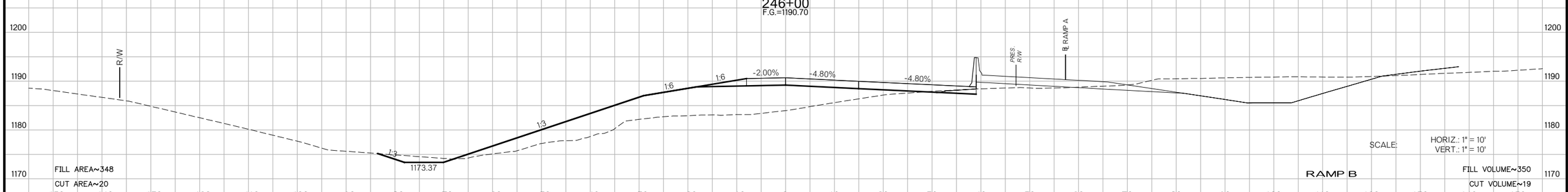
246+40.72
F.G.=1190.45



246+24.94
F.G.=1190.55



246+00
F.G.=1190.70



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

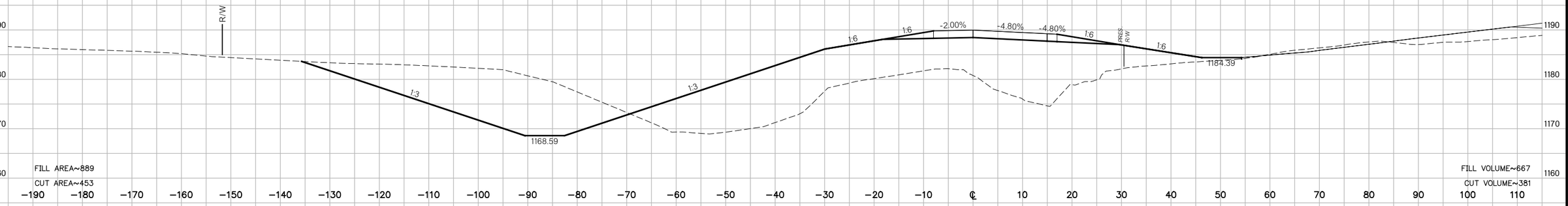
RAMP B

US 81 REALIGNMENT
GRADY COUNTY

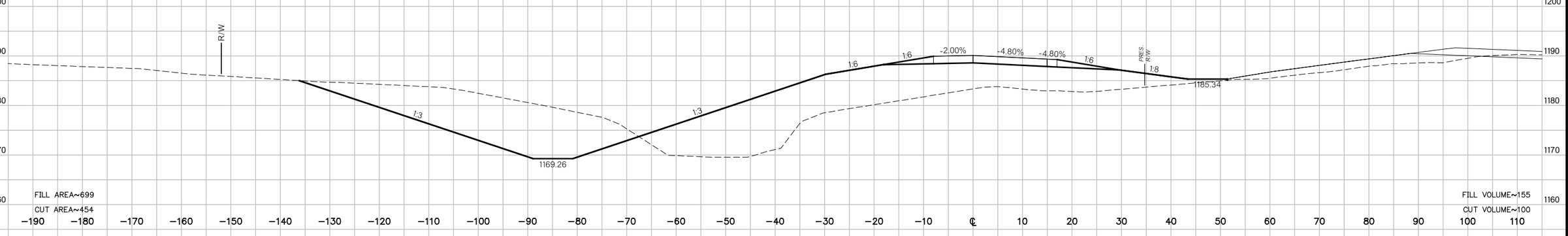
State Job No. 24428(04) Sheet No. X329

PROPOSED
R/W
AUGUST 2017

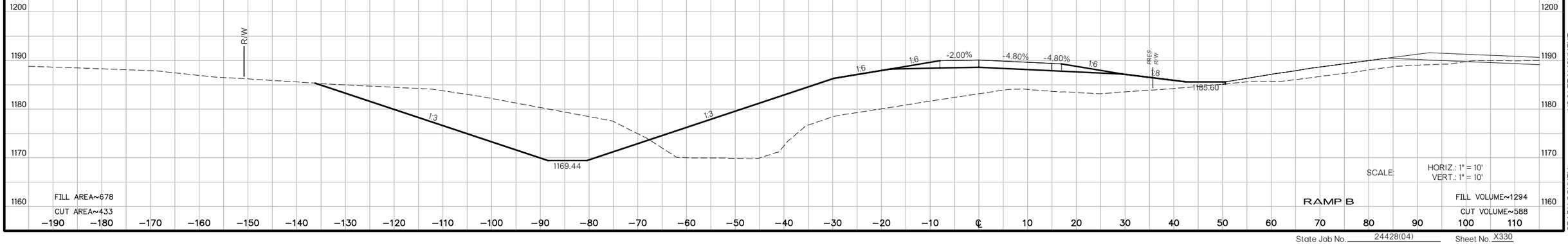
247+22.68
F.G.=1189.95



247+00
F.G.=1190.09



END FULL SUPERELEVATION
246+93.93
F.G.=1190.12



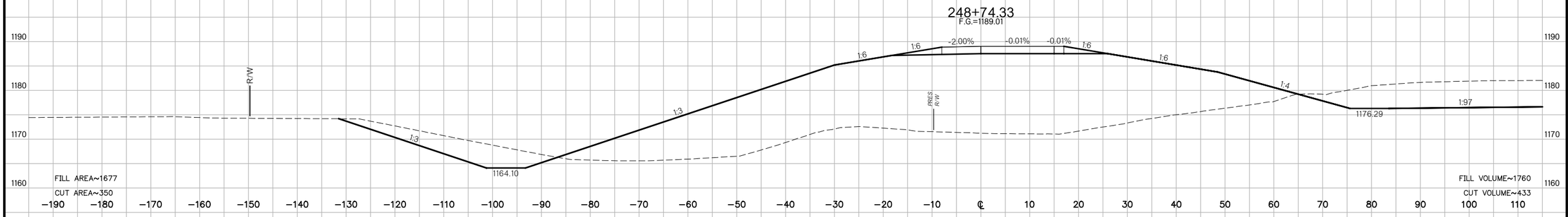
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

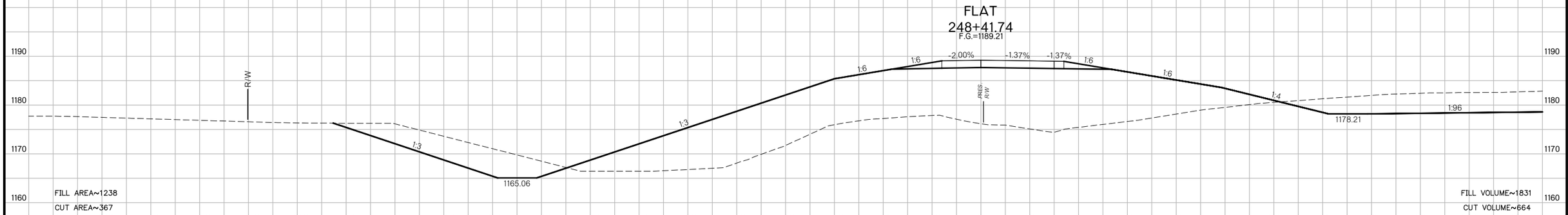
RAMP B

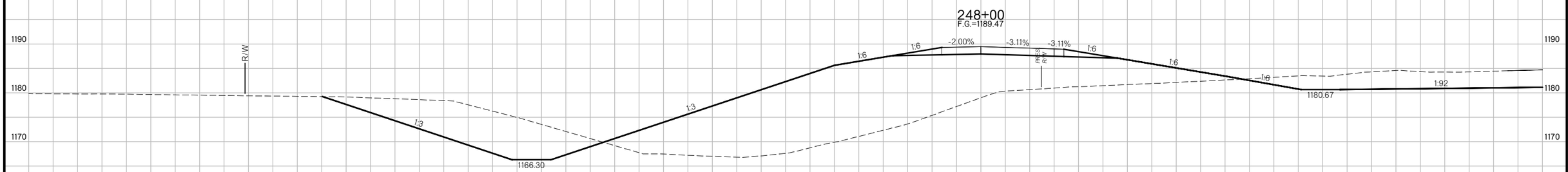
US 81 REALIGNMENT
GRADY COUNTY

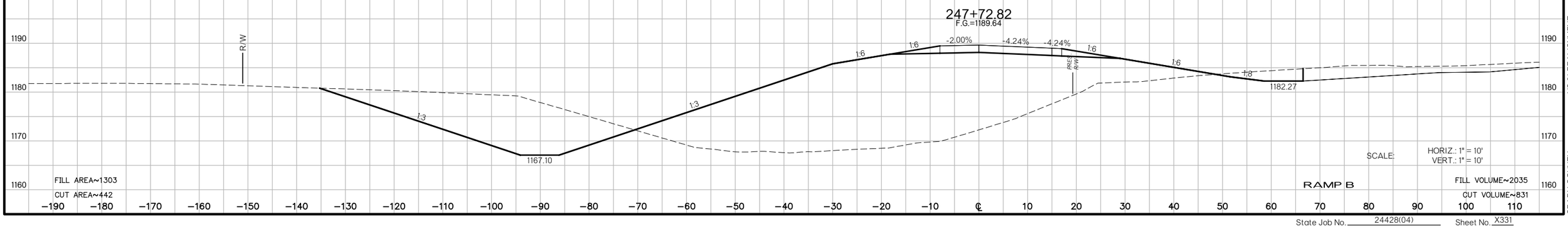
State Job No. 24428(04) Sheet No. X330

PROPOSED
R/W
AUGUST 2017





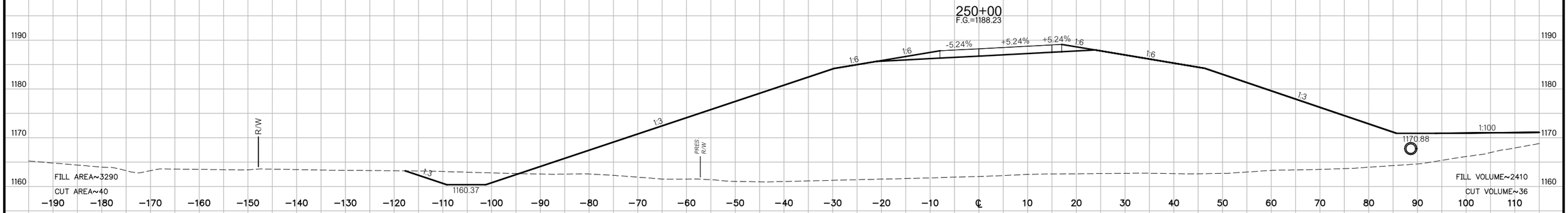


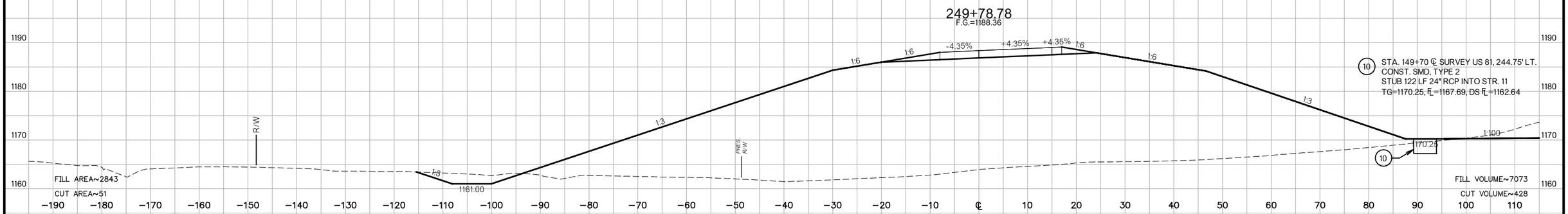


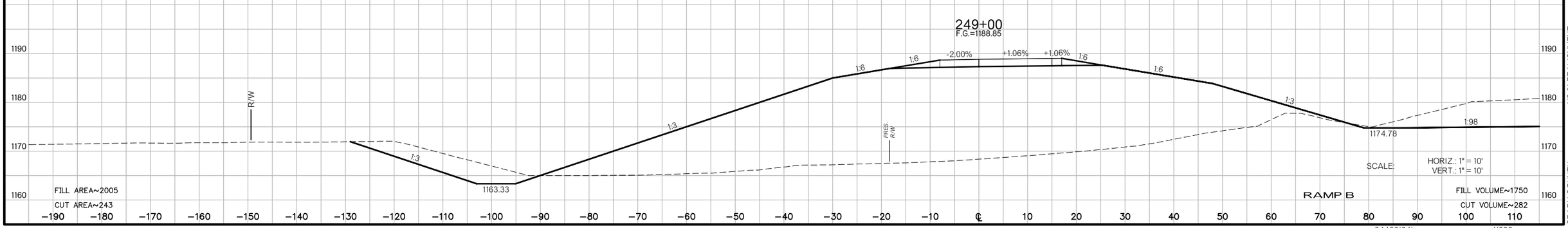
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X331

PROPOSED
R/W
AUGUST 2017





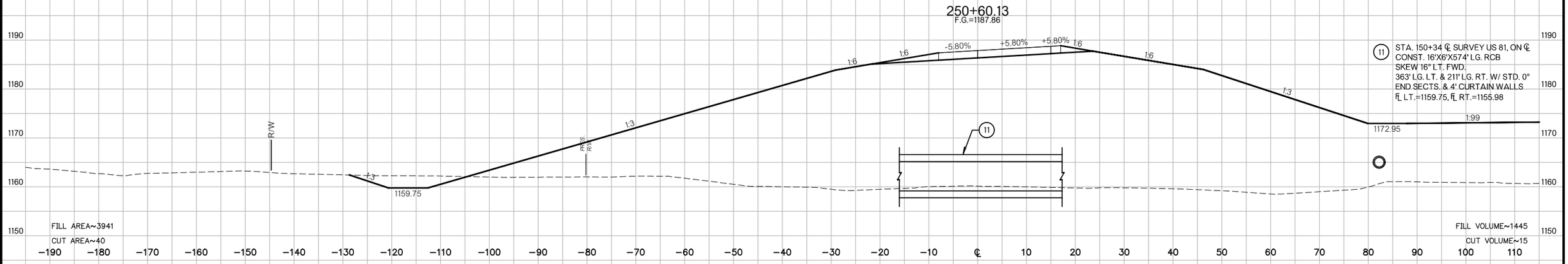


US 81 REALIGNMENT
GRADY COUNTY

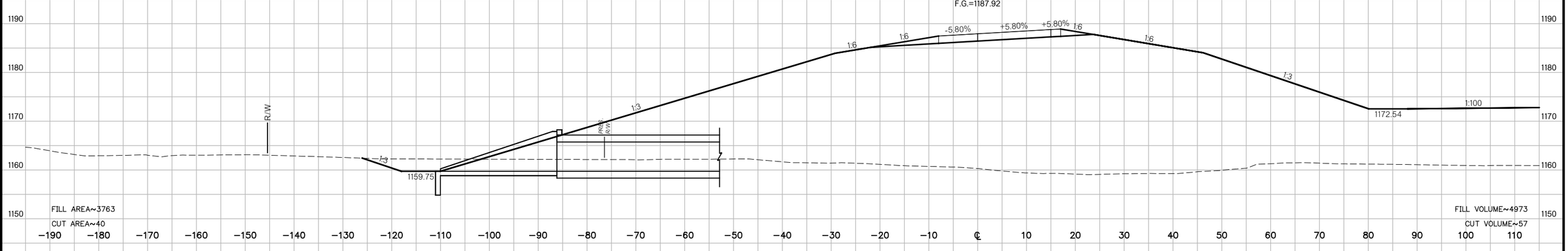
State Job No. 24428(04) Sheet No. X332

PROPOSED
R/W
AUGUST 2017

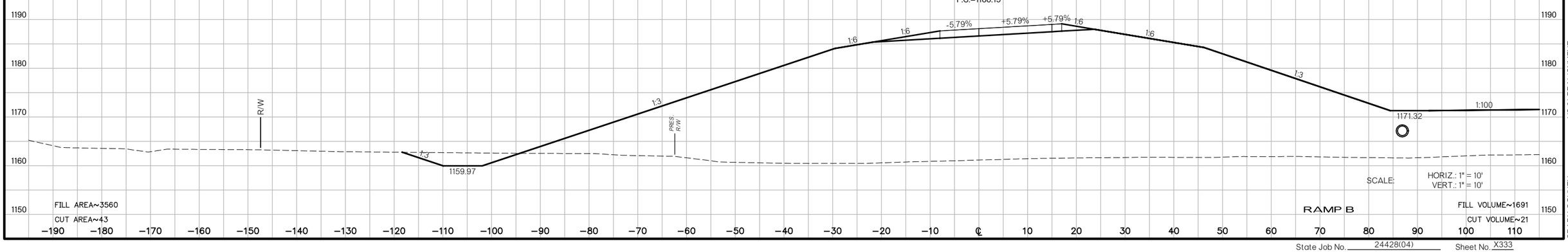
250+60.13
F.G.=1187.86



250+50
F.G.=1187.92



BEGIN FULL SUPERELEVATION
250+13.33
F.G.=1188.15

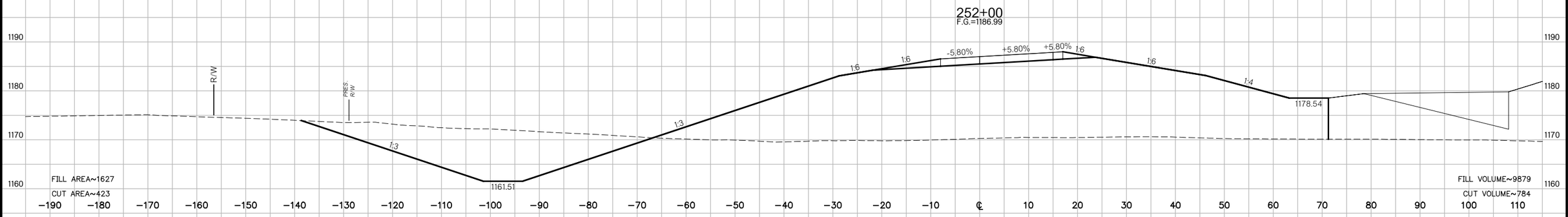


US 81 REALIGNMENT
GRADY COUNTY

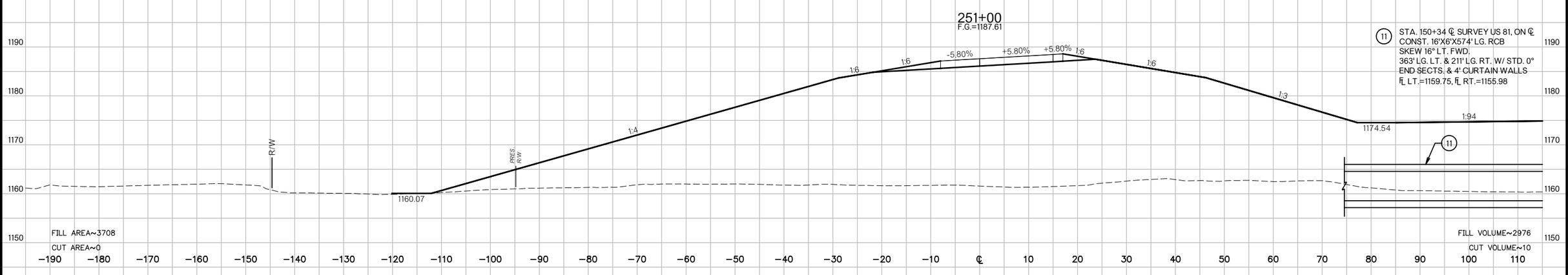
State Job No. 24428(04) Sheet No. X333

PROPOSED
R/W
AUGUST 2017

252+00
F.G.=1186.99

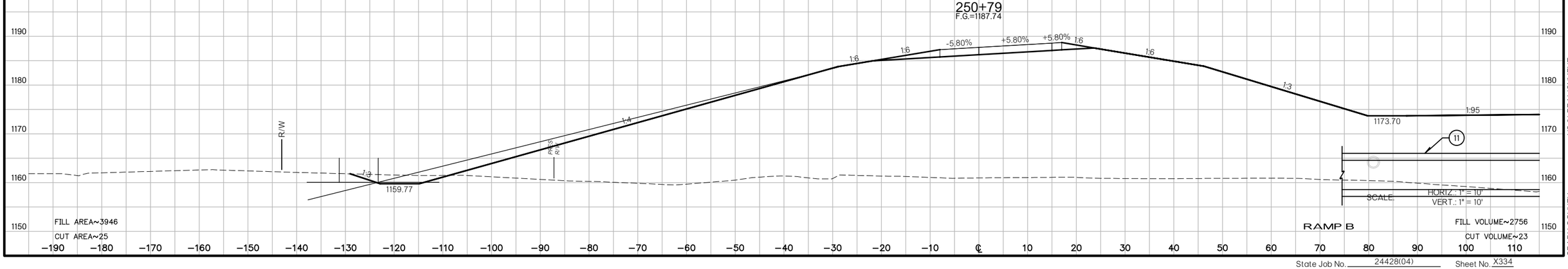


251+00
F.G.=1187.61



(11) STA. 150+34 ℄ SURVEY US 81, ON ℄
CONST. 16'X6'X574' LG. RCB
SKEW 16° LT. FWD.
363' LG. LT. & 211' LG. RT. W/ STD. 0°
END SECTS. & 4' CURTAIN WALLS
℄ LT.=1159.75, ℄ RT.=1155.98

250+79
F.G.=1187.74



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

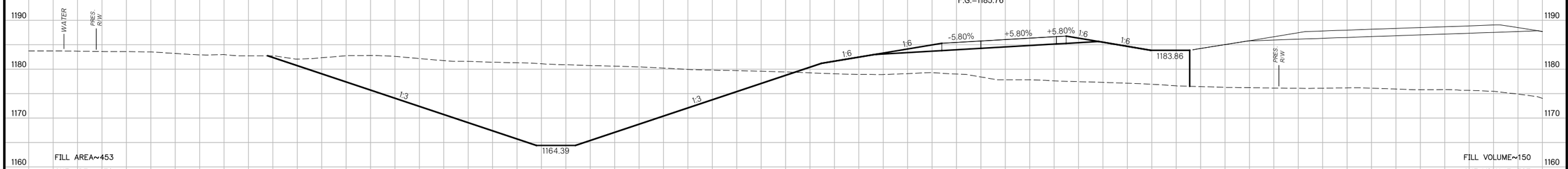
RAMP B

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X334

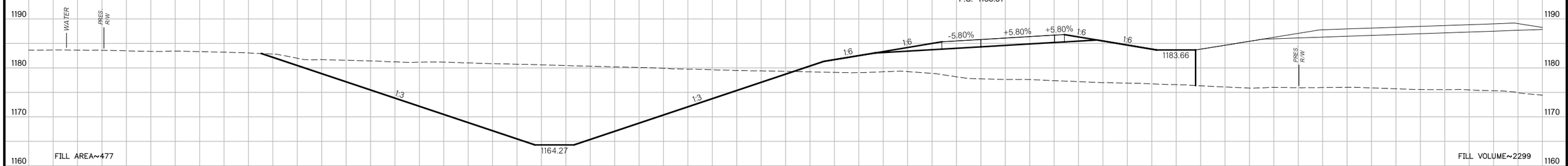
PROPOSED
R/W
AUGUST 2017

254+00
F.G.=1185.76



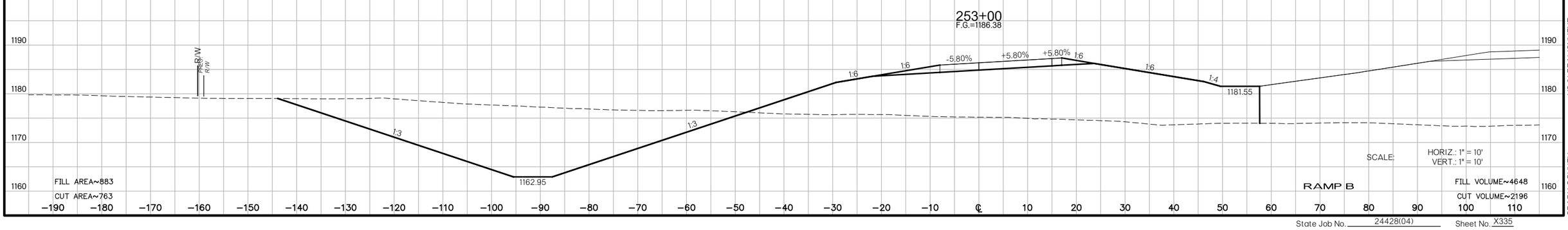
FILL AREA~453
CUT AREA~970
FILL VOLUME~150
CUT VOLUME~307

253+91.28
F.G.=1185.81



FILL AREA~477
CUT AREA~930
FILL VOLUME~2299
CUT VOLUME~2861

253+00
F.G.=1186.38



FILL AREA~883
CUT AREA~763
FILL VOLUME~4648
CUT VOLUME~2196

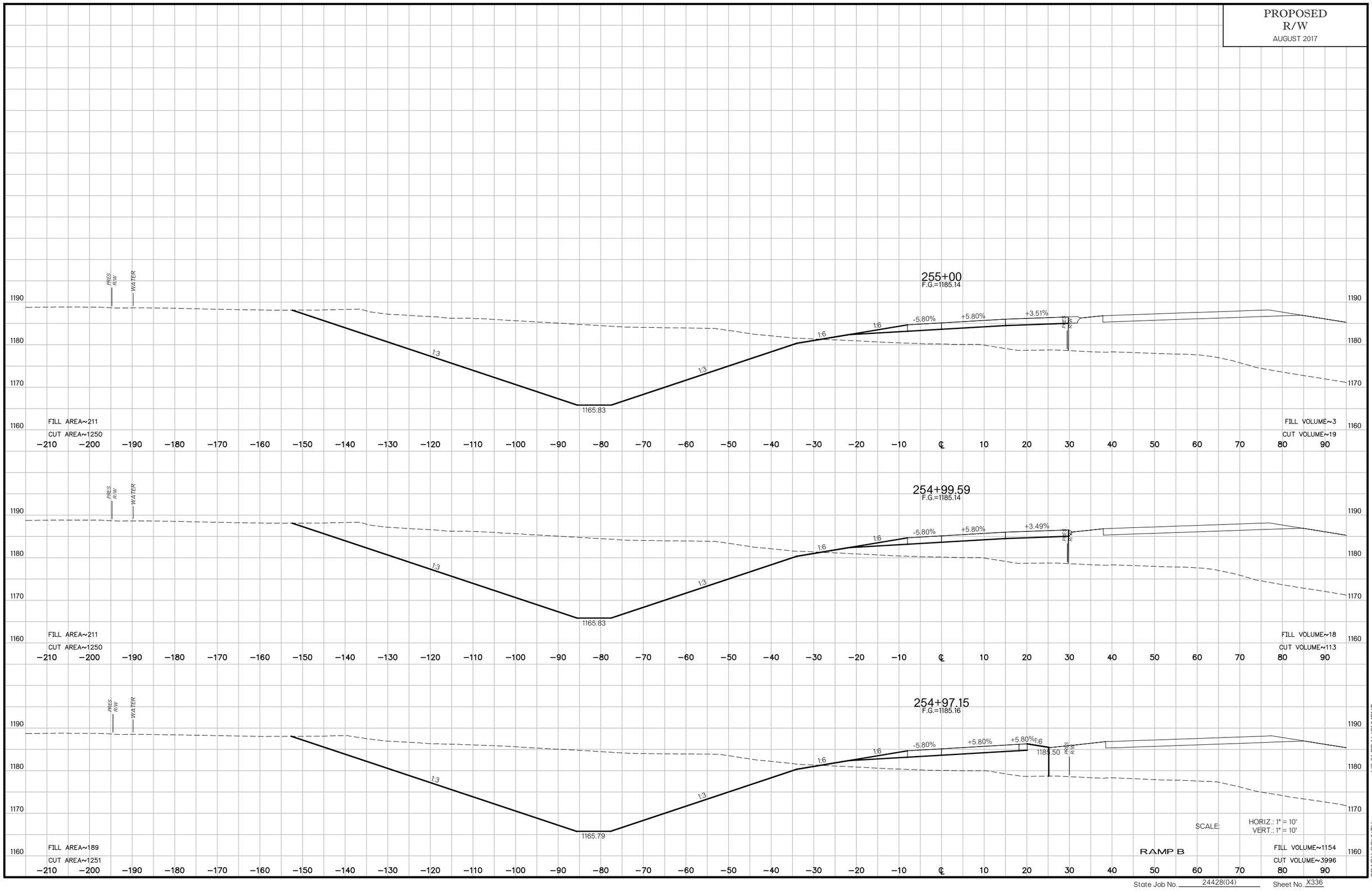
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP B

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X335

PROPOSED
R/W
AUGUST 2017

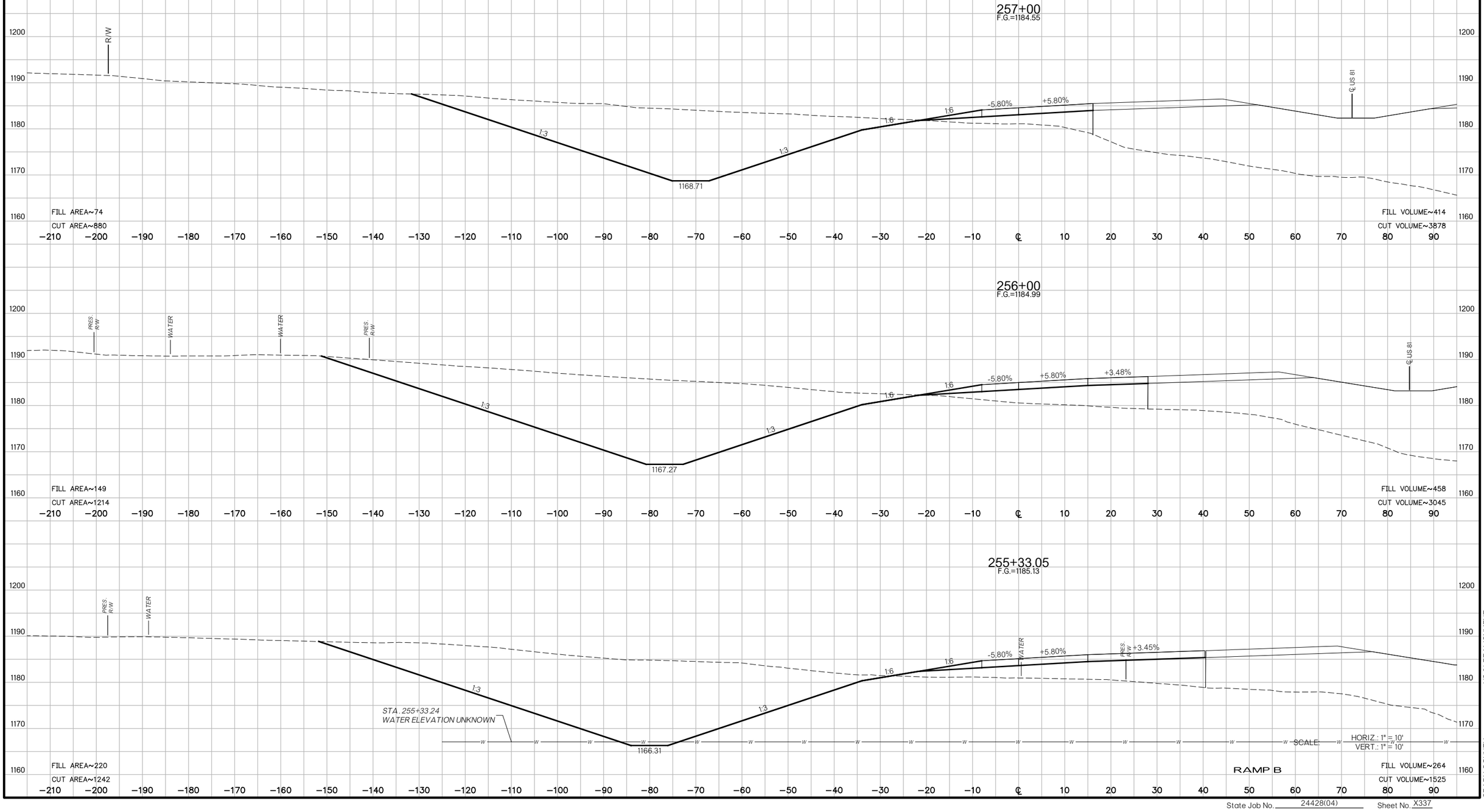


US 81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X336

PROPOSED
R/W
AUGUST 2017

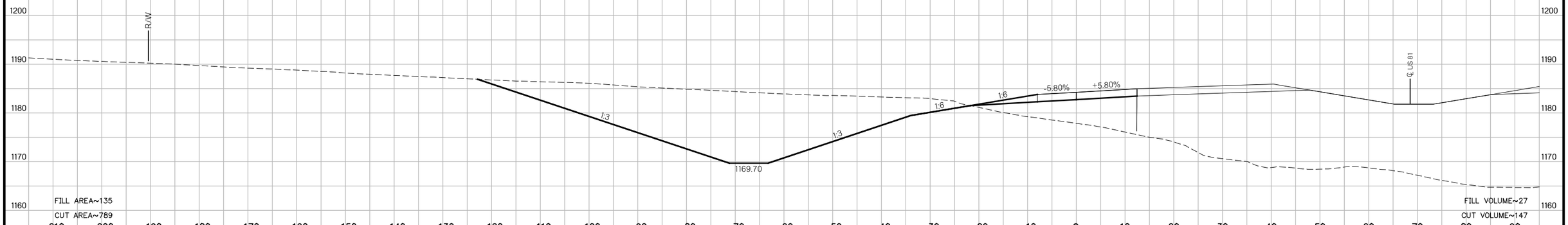


US 81 REALIGNMENT
GRADY COUNTY

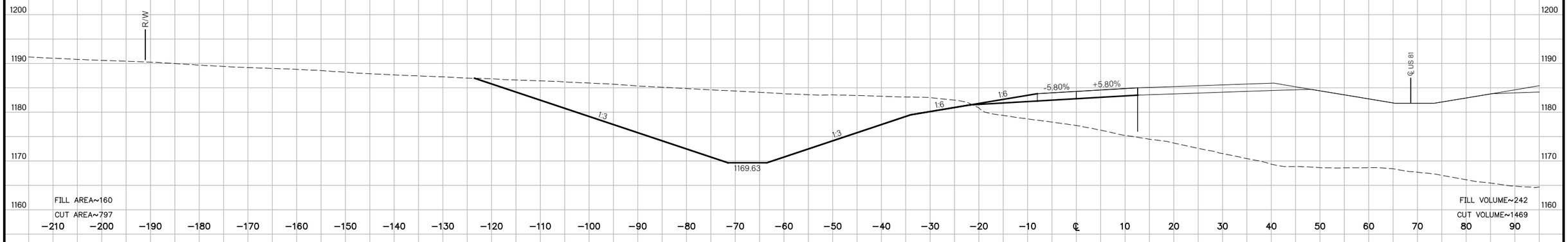
State Job No. 24428(04) Sheet No. X337

PROPOSED
R/W
AUGUST 2017

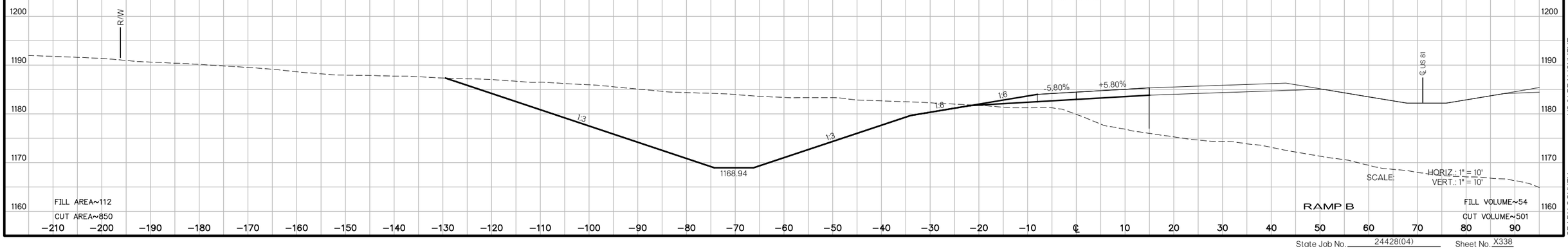
END FULL SUPERELEVATION
257+68.83
F.G.=1184.24



257+63.83
F.G.=1184.27



257+15.65
F.G.=1184.49

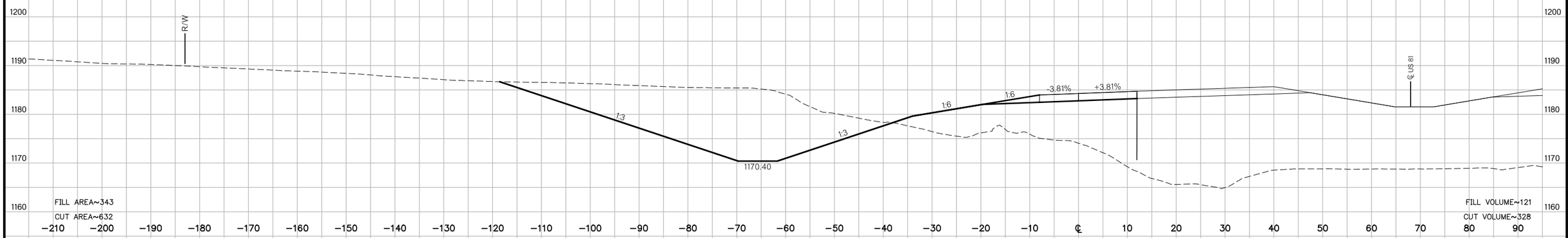


US 81 REALIGNMENT
GRADY COUNTY

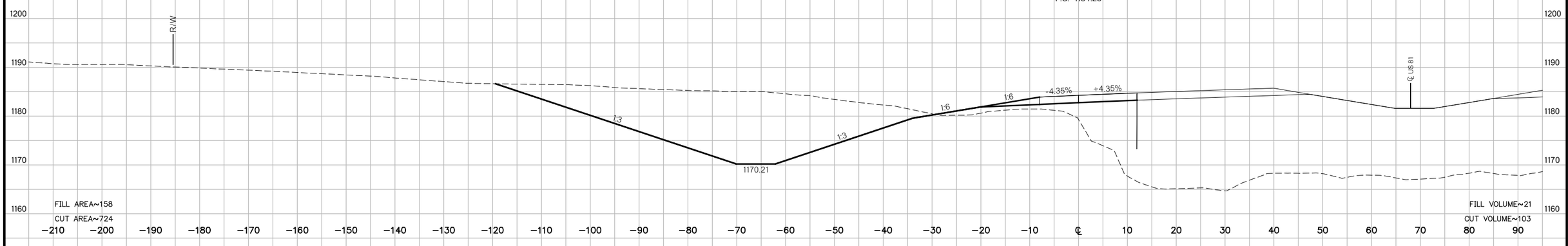
State Job No. 24428(04) Sheet No. X338

PROPOSED
R/W
AUGUST 2017

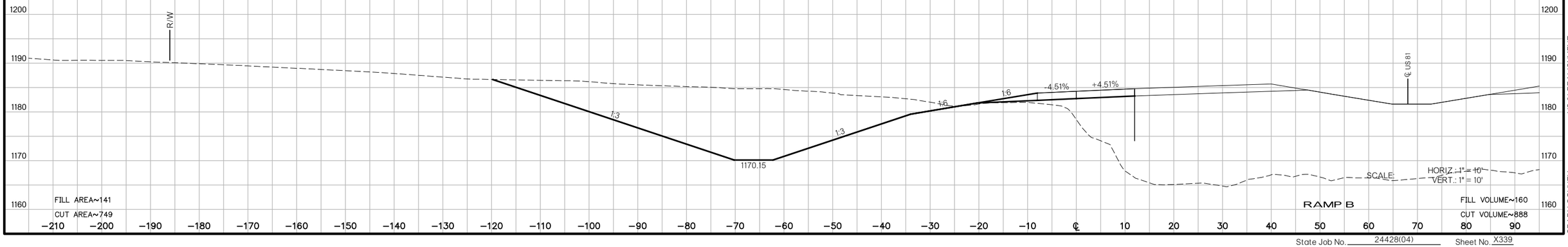
END LANE ROTATION
END SHOULDER ROTATION
258+16.83
F.G.=1184.26



258+03.78
F.G.=1184.25



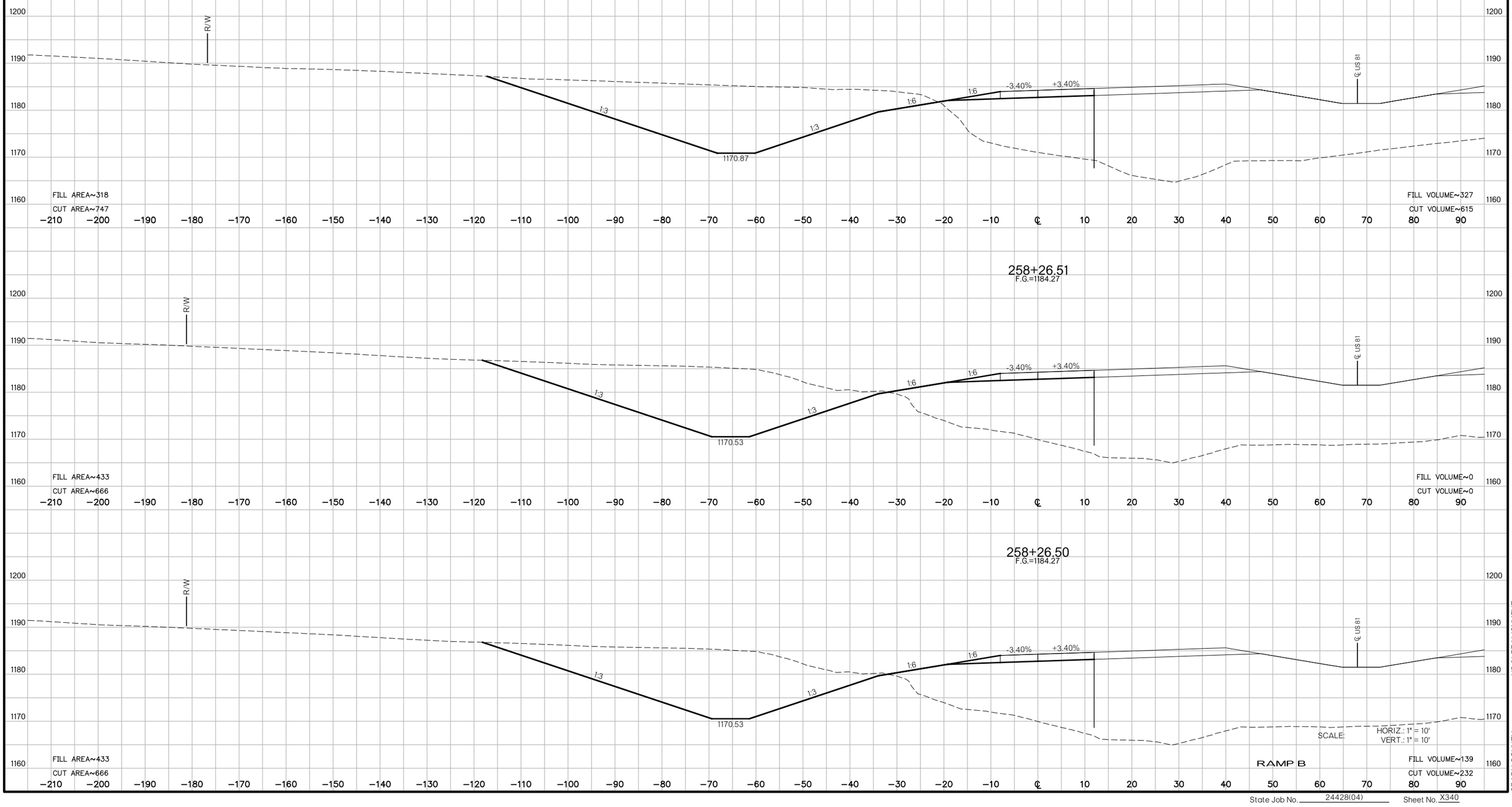
258+00
F.G.=1184.25



US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X339

PROPOSED
R/W
AUGUST 2017



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP B

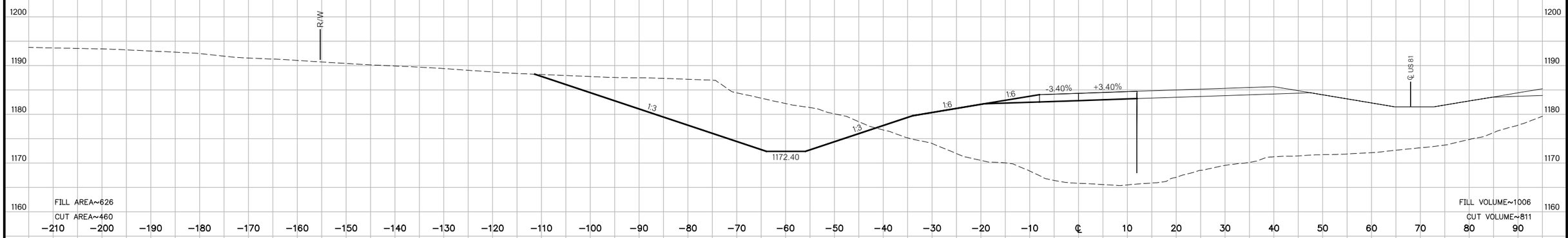
US 81 REALIGNMENT

GRADY COUNTY

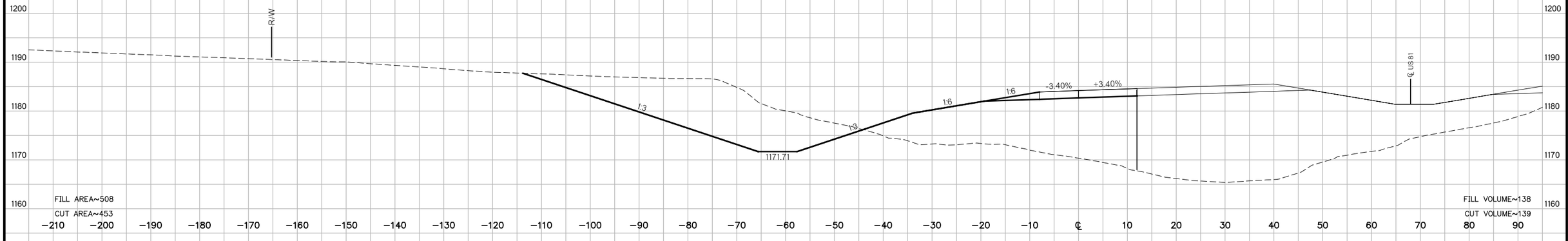
State Job No. 24428(04) Sheet No. X340

PROPOSED
R/W
AUGUST 2017

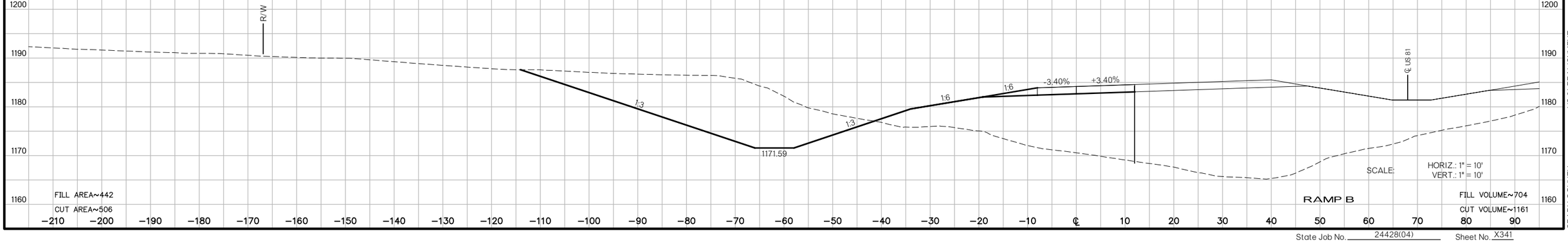
259+55.76
F.G.=1184.31



259+07.83
F.G.=1184.19



259+00
F.G.=1184.18

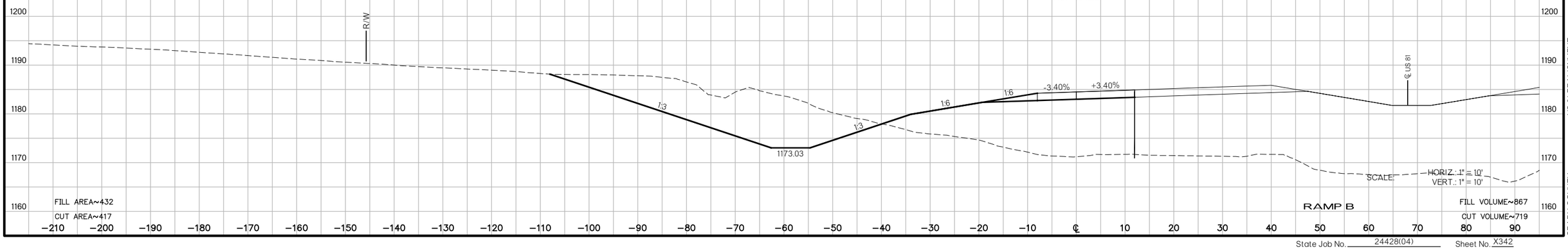


US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X341

PROPOSED
R/W
AUGUST 2017

260+00
F.G.=1184.52

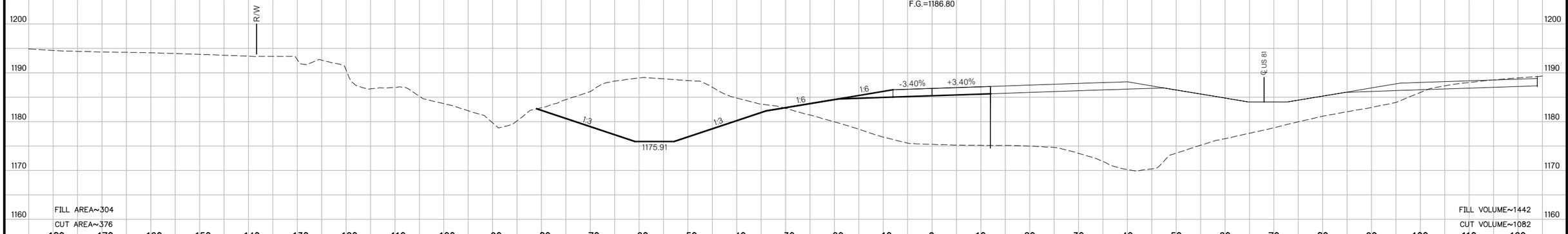


US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X342

PROPOSED
R/W
AUGUST 2017

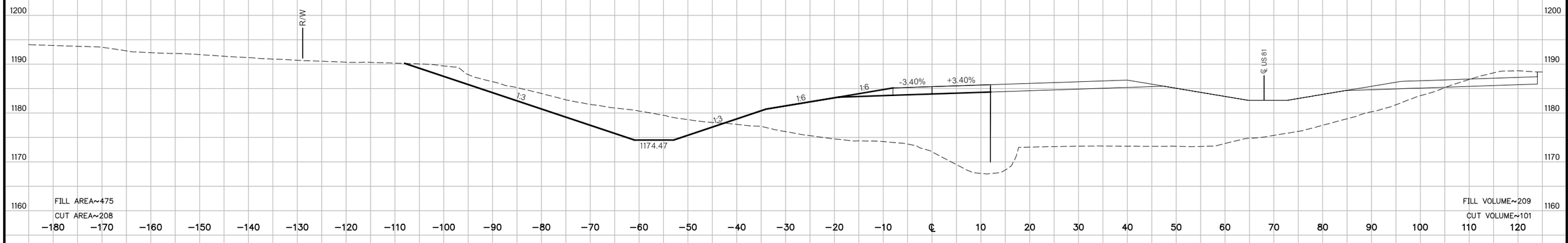
262+00
F.G.=1186.80



FILL AREA~304
CUT AREA~376

FILL VOLUME~1442
CUT VOLUME~1082

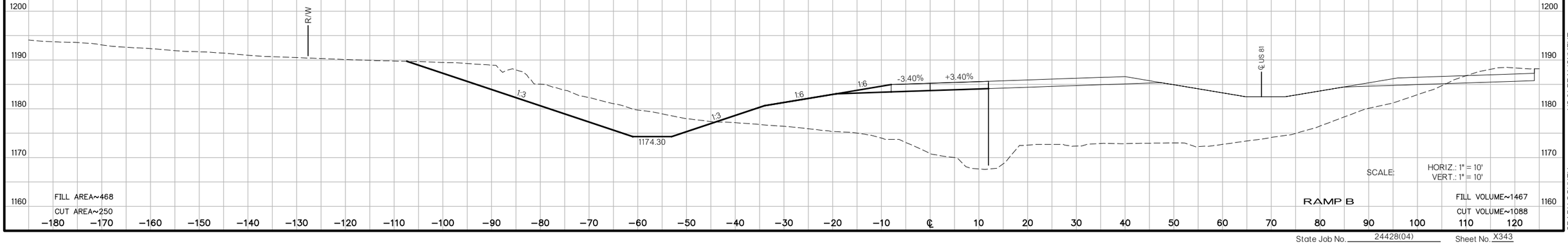
261+00
F.G.=1185.39



FILL AREA~475
CUT AREA~208

FILL VOLUME~209
CUT VOLUME~101

260+88.05
F.G.=1185.25



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP B

FILL AREA~468
CUT AREA~250

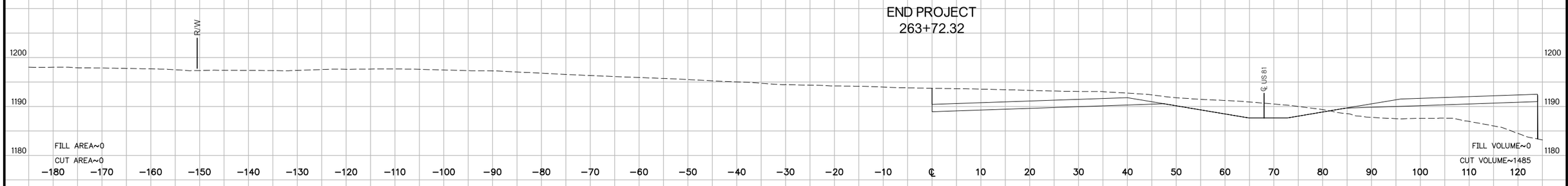
FILL VOLUME~1467
CUT VOLUME~1088

US 81 REALIGNMENT
GRADY COUNTY

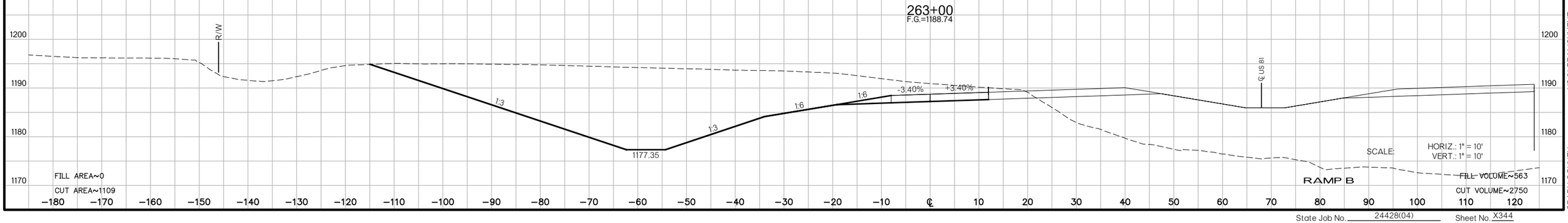
State Job No. 24428(04) Sheet No. X343

PROPOSED
R/W
AUGUST 2017

END PROJECT
263+72.32



263+00
F.G.=1188.74

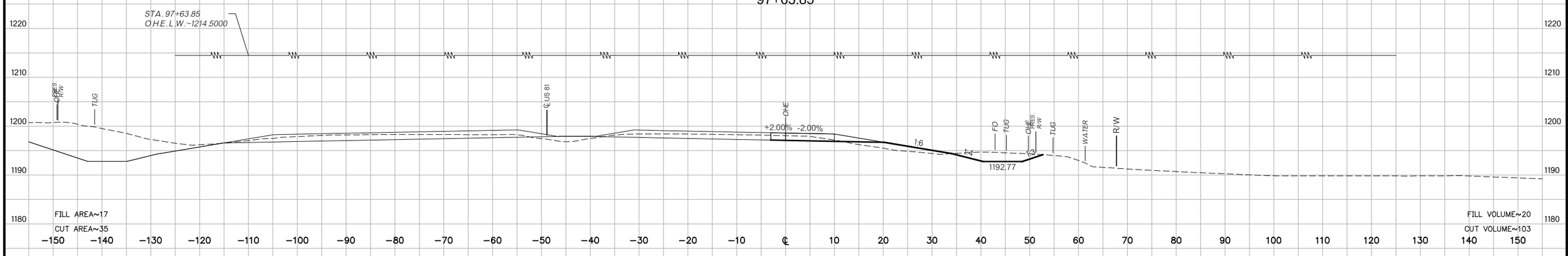


US 81 REALIGNMENT
GRADY COUNTY

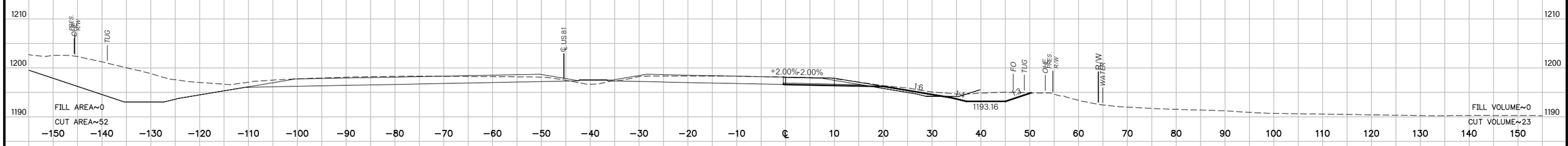
State Job No. 24428(04) Sheet No. X344

PROPOSED
R/W
AUGUST 2017

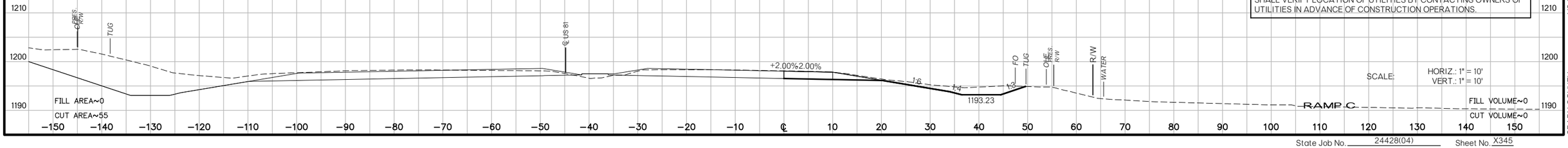
97+63.85



97+00



BEGIN PROJECT
96+88.43



THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPES & LOCATIONS OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE TO MAKE THE DETERMINATIONS AS TO THE TYPE & LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING OWNERS OF UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS.

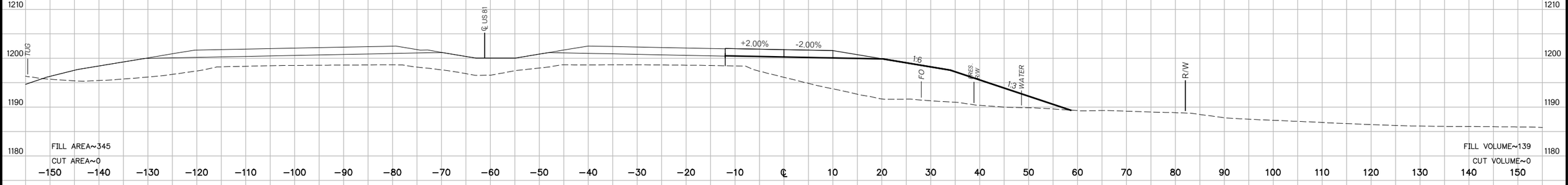
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

US 81 REALIGNMENT
GRADY COUNTY

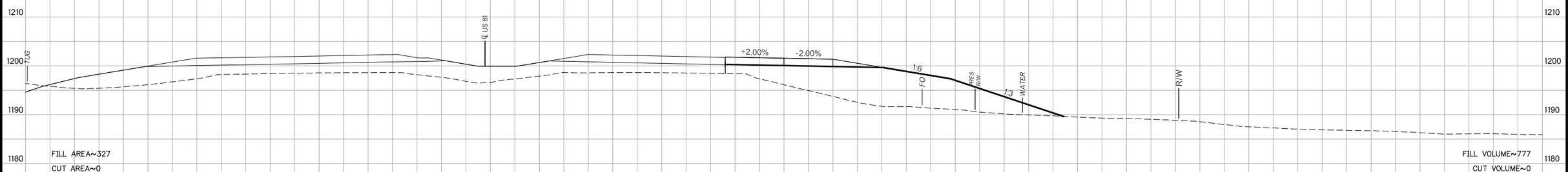
State Job No. 24428(04) Sheet No. X345

PROPOSED
R/W
AUGUST 2017

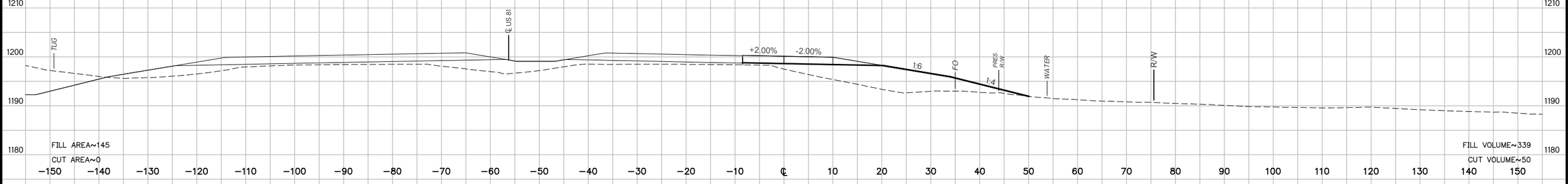
100+00



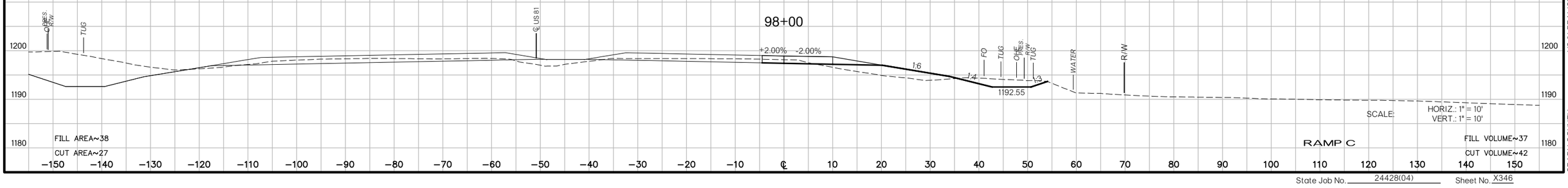
99+88.87



99+00



98+00

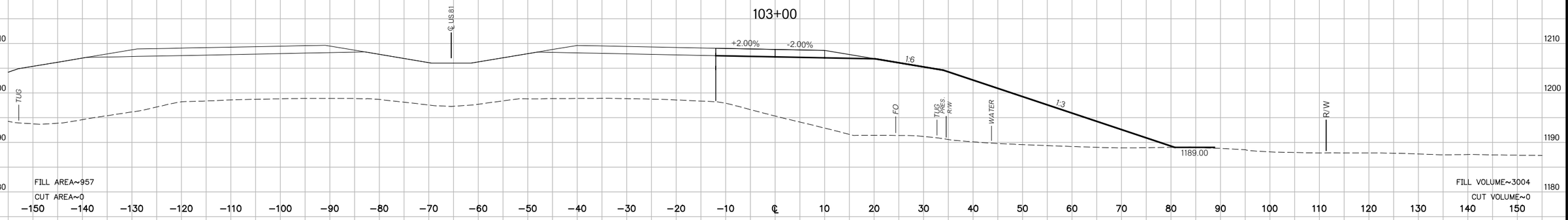


US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X346

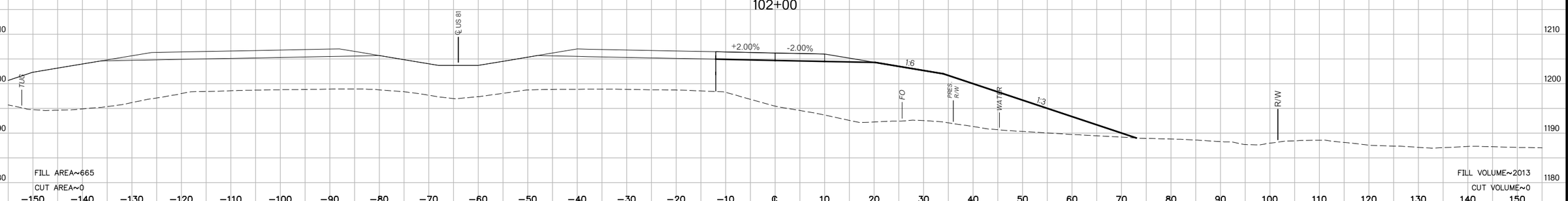
PROPOSED
R/W
AUGUST 2017

103+00



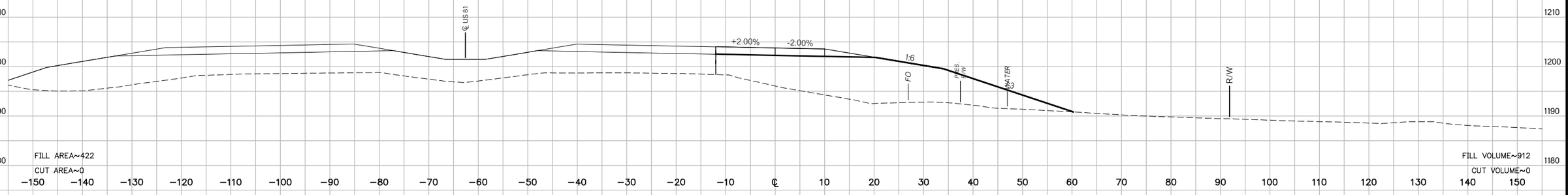
FILL AREA~957
CUT AREA~0
FILL VOLUME~3004
CUT VOLUME~0

102+00



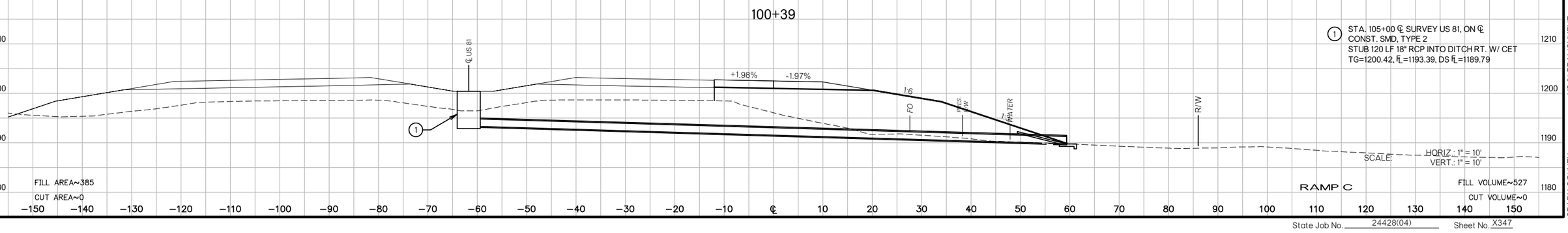
FILL AREA~665
CUT AREA~0
FILL VOLUME~2013
CUT VOLUME~0

101+00



FILL AREA~422
CUT AREA~0
FILL VOLUME~912
CUT VOLUME~0

100+39



① STA. 105+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 120 LF 18" RCP INTO DITCH RT. W/ CET
TG=1200.42, FL=1193.39, DS FL=1189.79

FILL AREA~385
CUT AREA~0
FILL VOLUME~527
CUT VOLUME~0

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

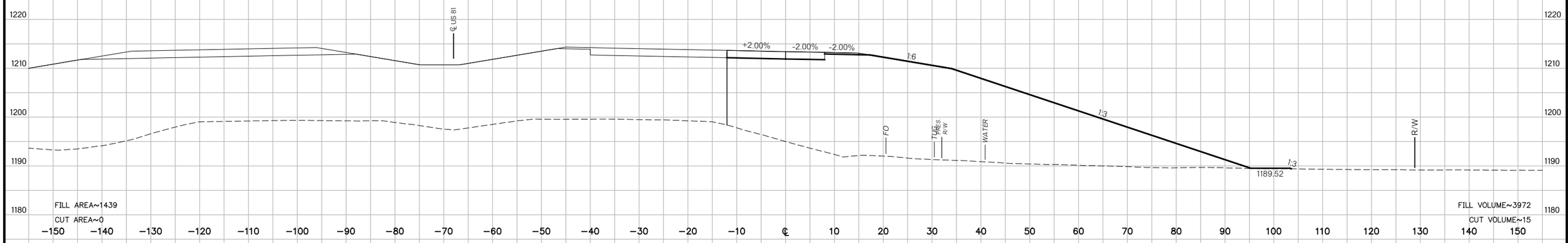
RAMP C

US 81 REALIGNMENT
GRADY COUNTY

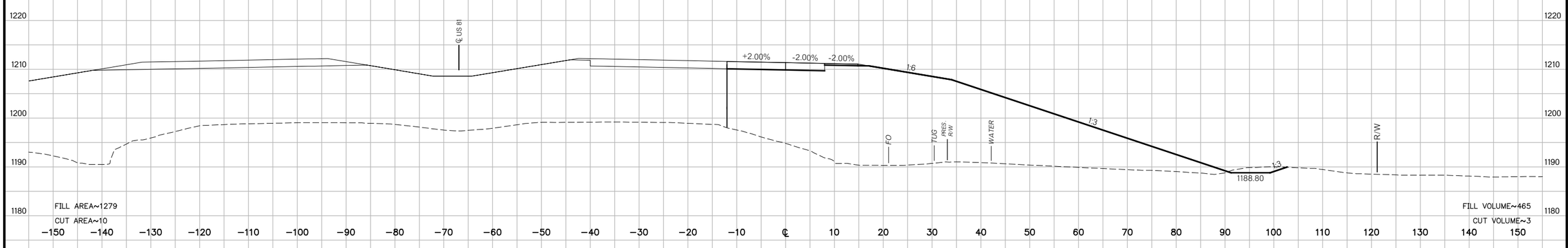
State Job No. 24428(04) Sheet No. X347

PROPOSED
R/W
AUGUST 2017

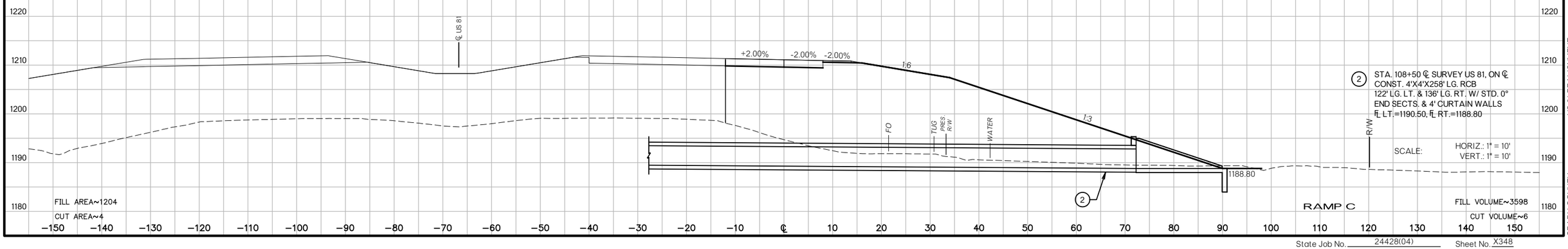
104+78.92



104+00



103+89.89

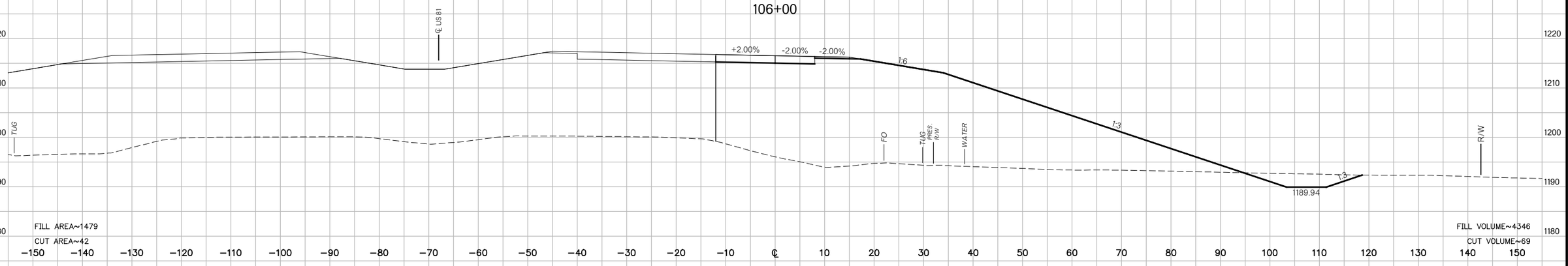


US 81 REALIGNMENT
GRADY COUNTY

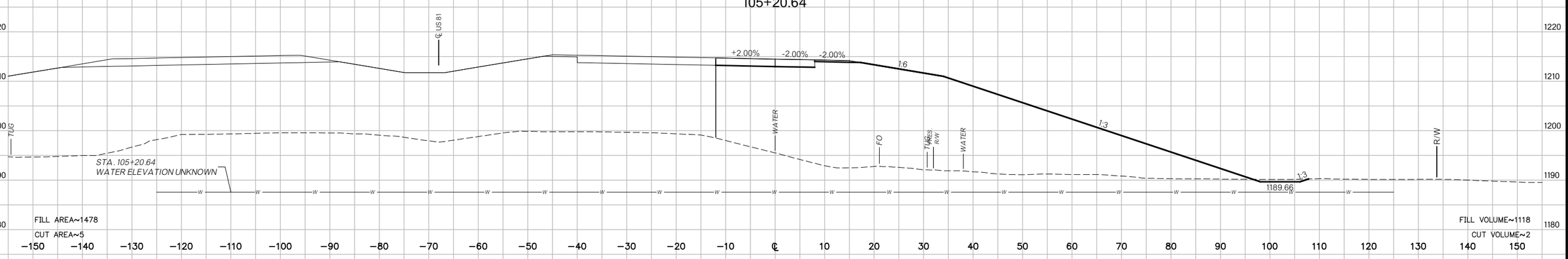
State Job No. 24428(04) Sheet No. X348

PROPOSED
R/W
AUGUST 2017

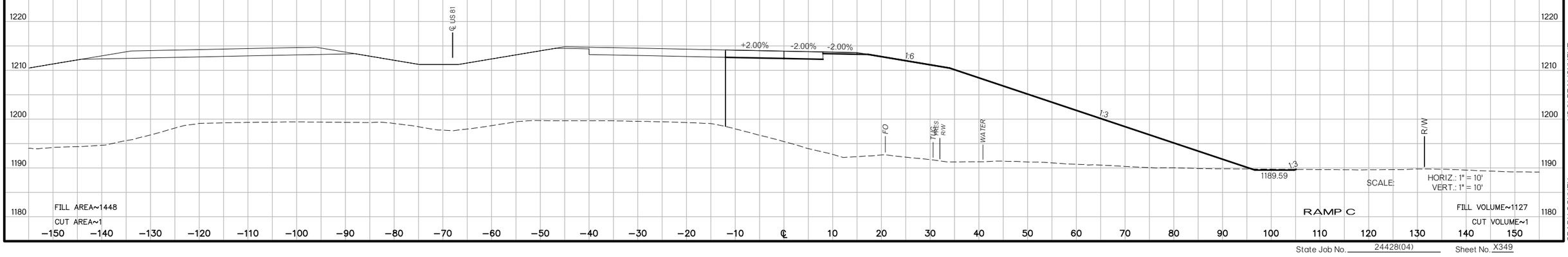
106+00



105+20.64



105+00



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

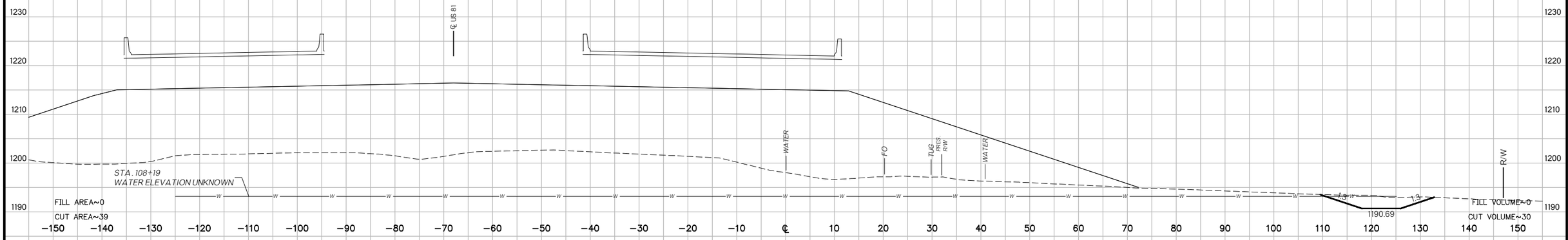
RAMP C

US 81 REALIGNMENT
GRADY COUNTY

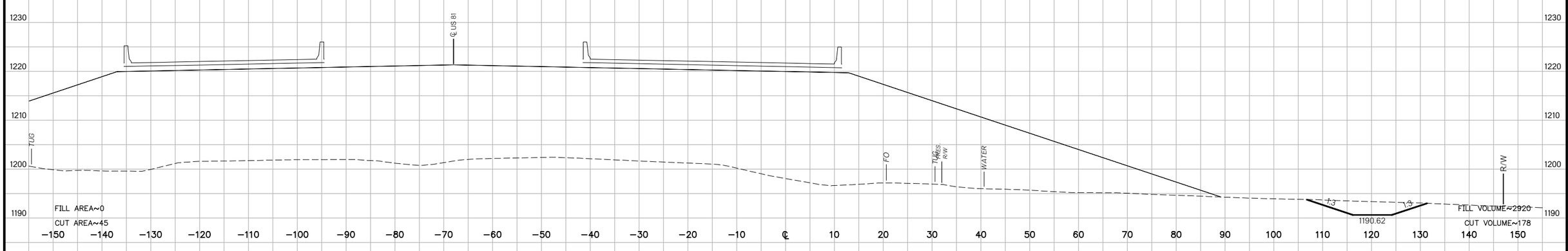
State Job No. 24428(04) Sheet No. X349

PROPOSED
R/W
AUGUST 2017

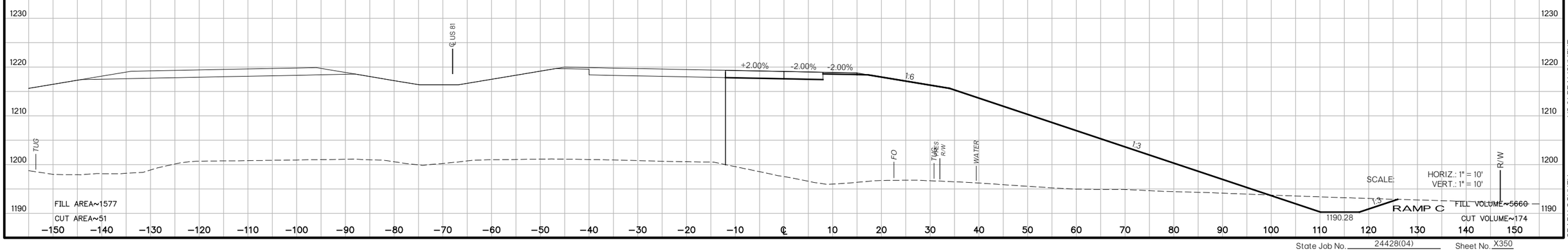
108+19



108+00



107+00

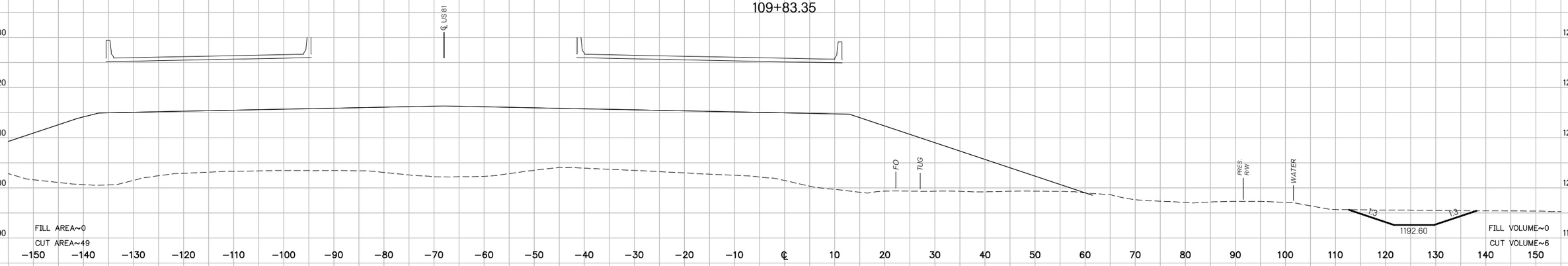


US 81 REALIGNMENT
GRADY COUNTY

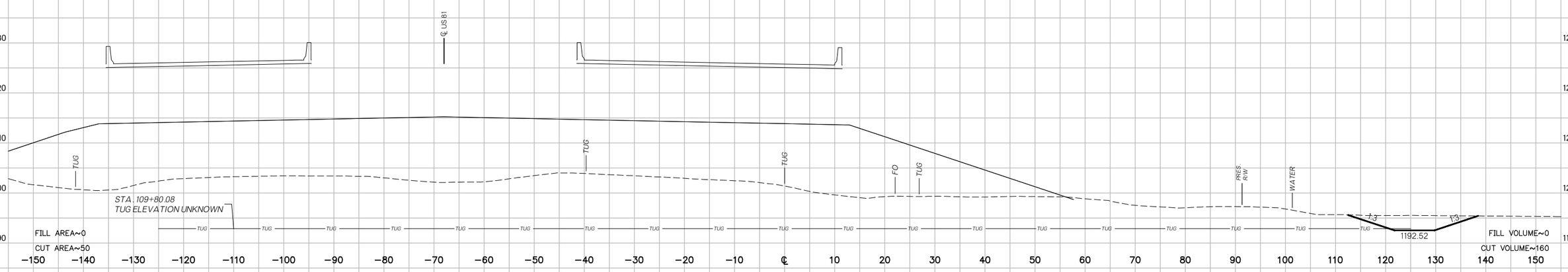
State Job No. 24428(04) Sheet No. X350

PROPOSED
R/W
AUGUST 2017

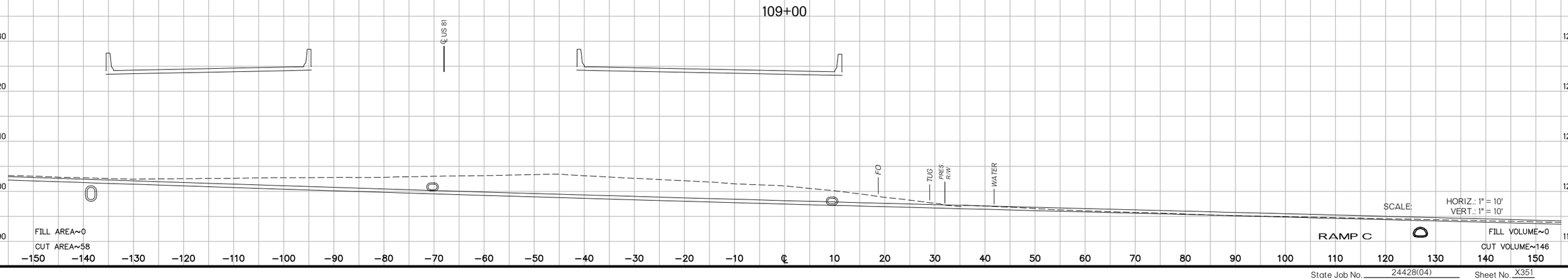
BEGIN LANE ROTATION
BEGIN SHOULDER ROTATION
109+83.35



109+80.08



109+00

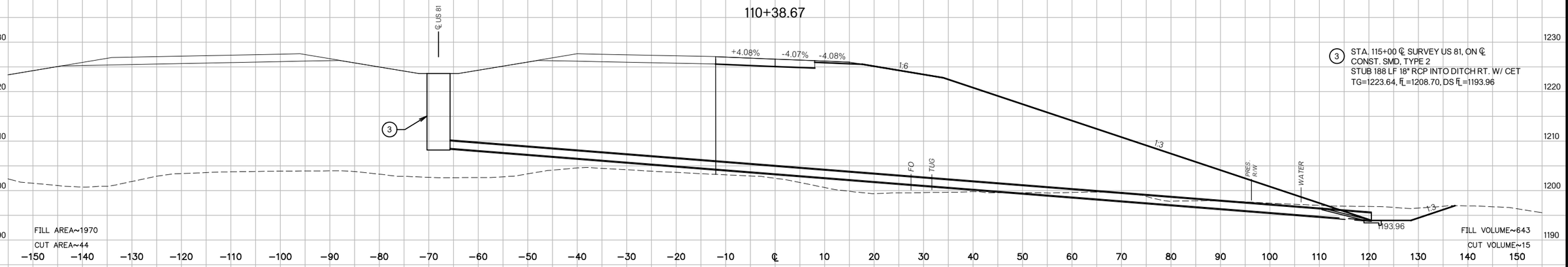


US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X351

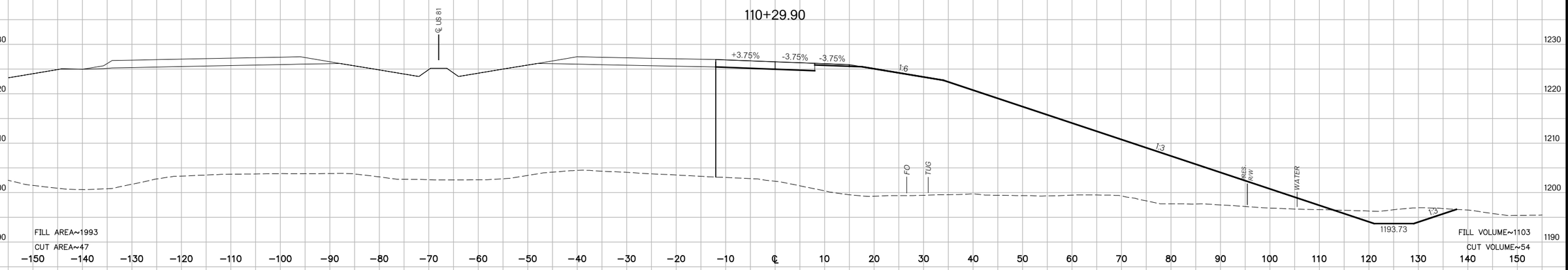
PROPOSED
R/W
AUGUST 2017

110+38.67

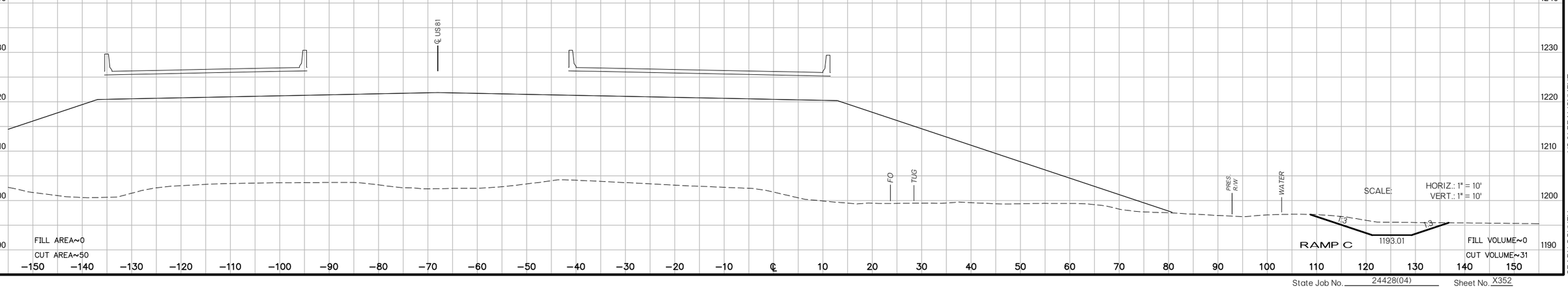


3 STA. 115+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 188 LF 18" RCP INTO DITCH RT. W/ CET
TG=1223.64, FL=1208.70, DS FL=1193.96

110+29.90



110+00



US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X352

PROPOSED
R/W
AUGUST 2017

112+00

℄ US 81

+5.00% +5.00% -5.00%

1:6

1:3

1:3

FO

TUG

PRES. R/W

WATER

1196.82

FILL AREA~1929
CUT AREA~49

FILL VOLUME~7184
CUT VOLUME~193

1230 1220 1210 1200 1190

−150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

111+00

℄ US 81

+5.00% +5.00% -5.00% -5.00%

1:6

1:3

FO

TUG

PRES. R/W

WATER

1:3

1195.43

FILL AREA~1950
CUT AREA~56

FILL VOLUME~2645
CUT VOLUME~76

1230 1220 1210 1200 1190

−150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

BEGIN FULL SUPERELEVATION
110+63.15

℄ US 81

+5.00% +5.00% -5.00% -5.00%

1:6

1:3

FO

TUG

PRES. R/W

WATER

1:3

1194.54

RAMP C

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

FILL AREA~1925
CUT AREA~56

FILL VOLUME~1766
CUT VOLUME~46

1230 1220 1210 1200 1190

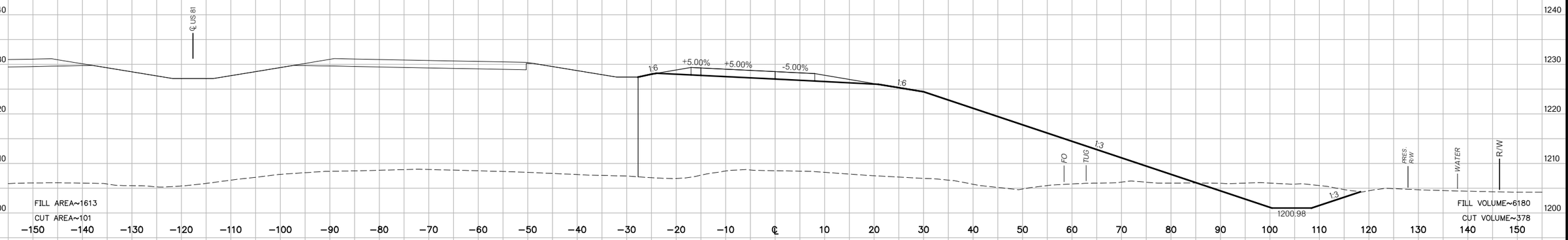
−150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

US 81 REALIGNMENT
GRADY COUNTY

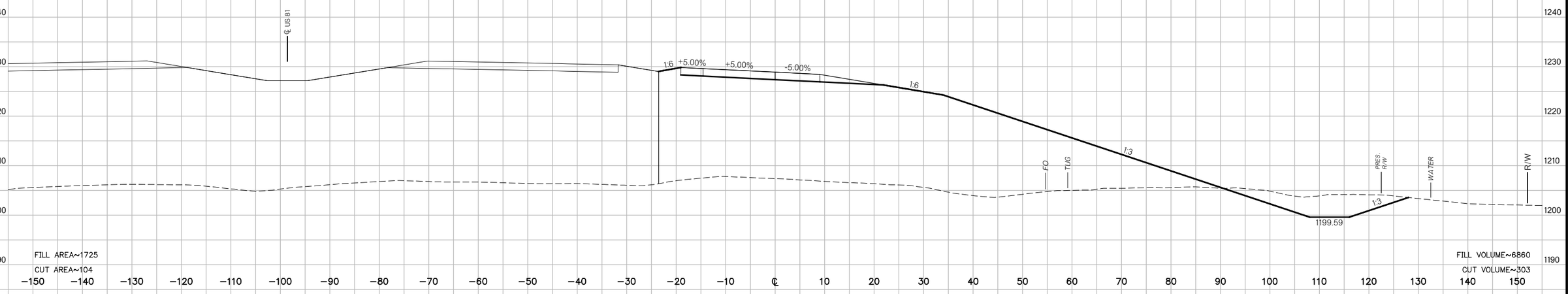
State Job No. 24428(04) Sheet No. X353

PROPOSED
R/W
AUGUST 2017

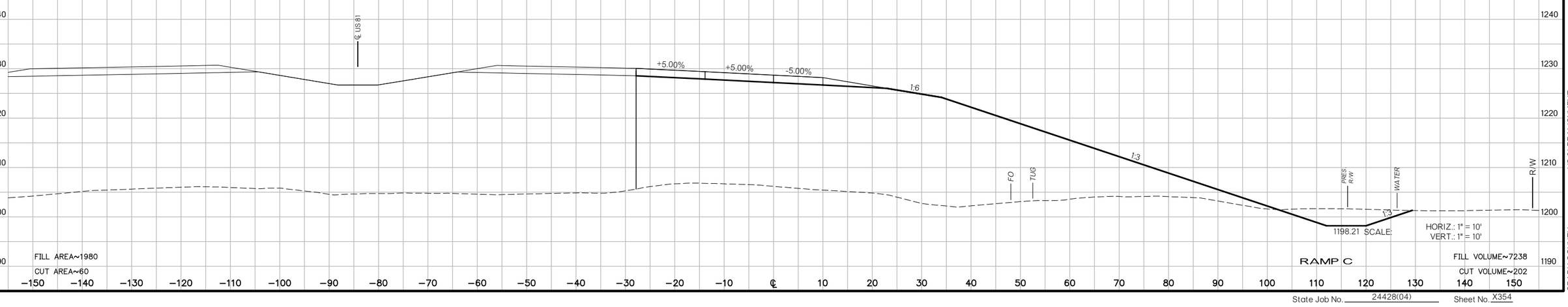
115+00



114+00



113+00



SCALE:
HORIZ.: 1" = 10'
VERT.: 1" = 10'

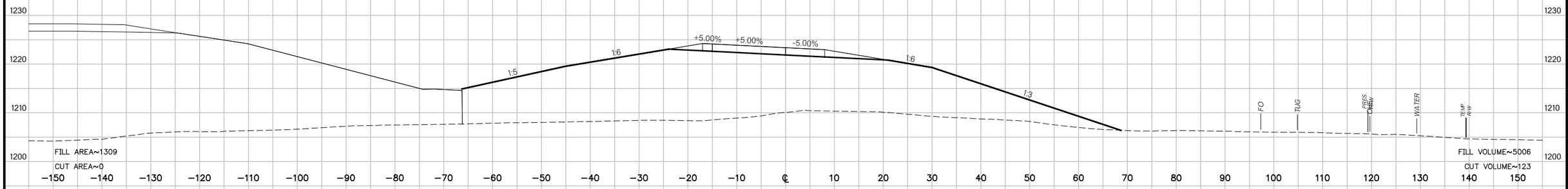
RAMP C

US 81 REALIGNMENT
GRADY COUNTY

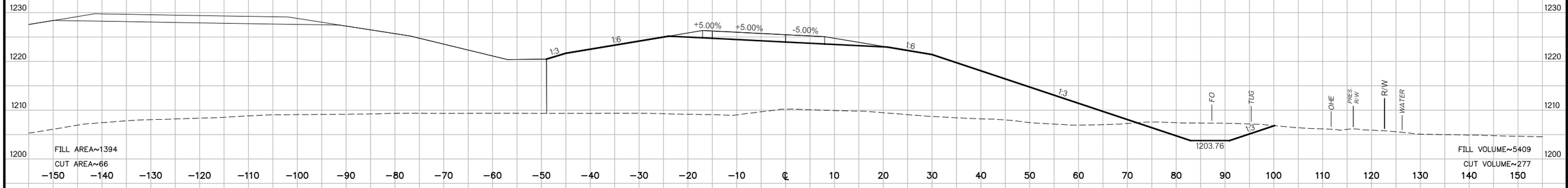
State Job No. 24428(04) Sheet No. X354

PROPOSED
R/W
AUGUST 2017

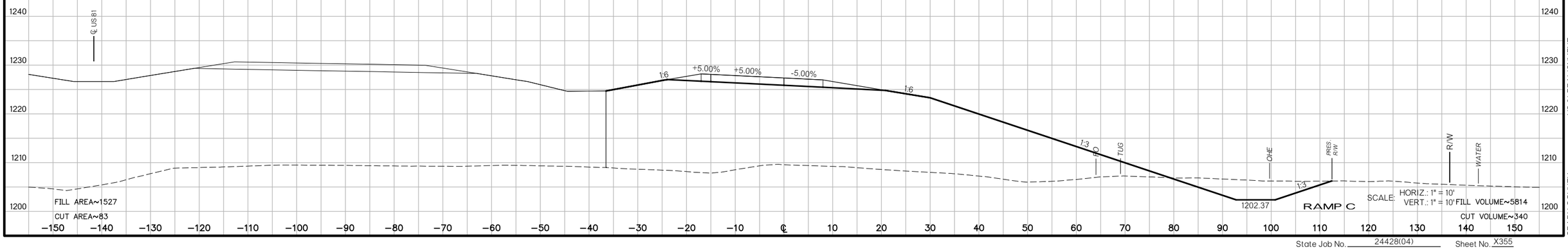
118+00



117+00



116+00



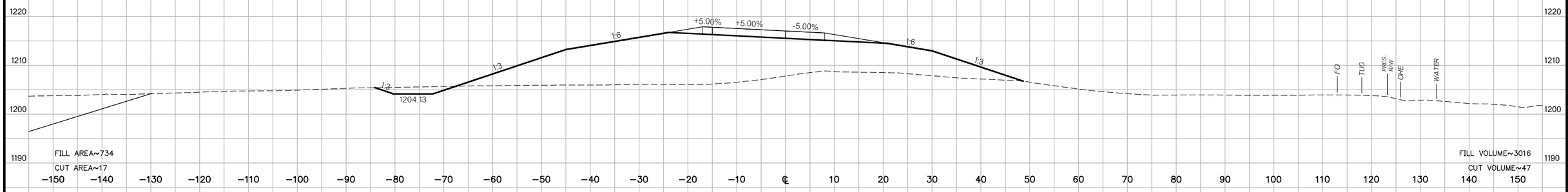
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

US 81 REALIGNMENT
GRADY COUNTY

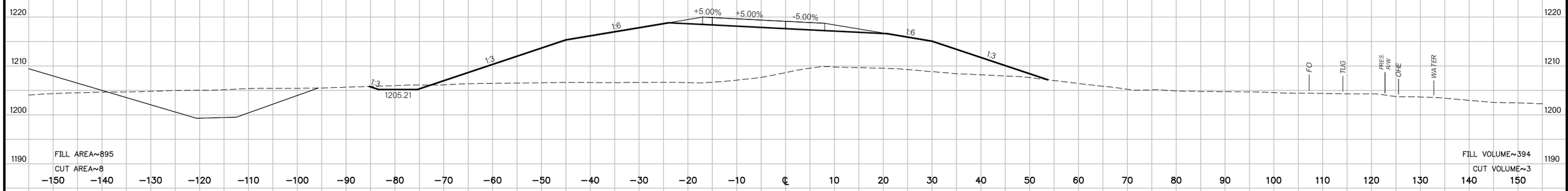
State Job No. 24428(04) Sheet No. X355

PROPOSED
R/W
AUGUST 2017

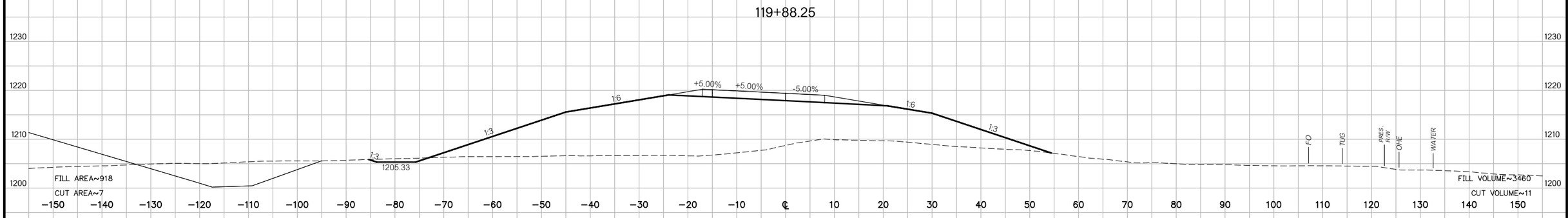
121+00



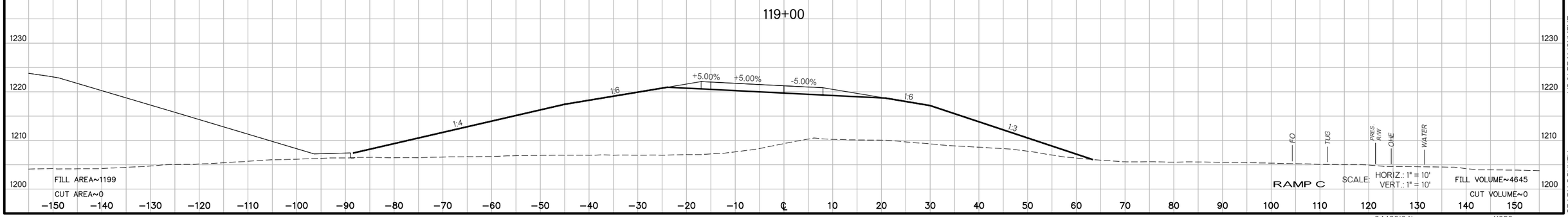
120+00



119+88.25



119+00



RAMP C

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

US 81 REALIGNMENT

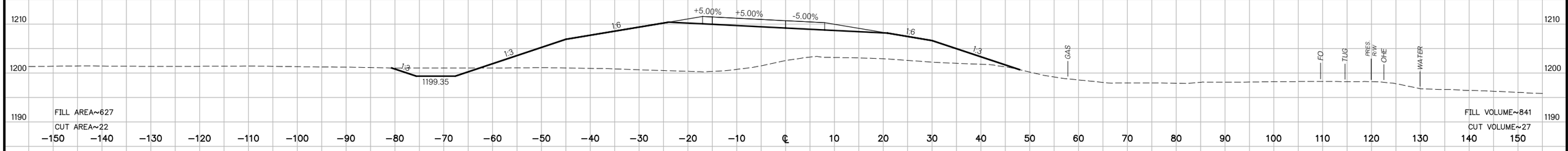
GRADY COUNTY

State Job No. 24428(04)

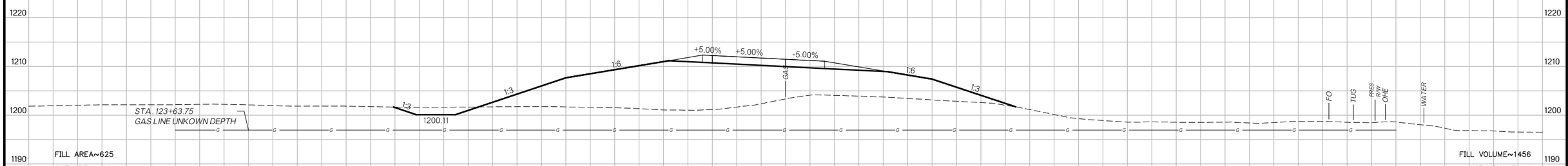
Sheet No. X356

PROPOSED
R/W
AUGUST 2017

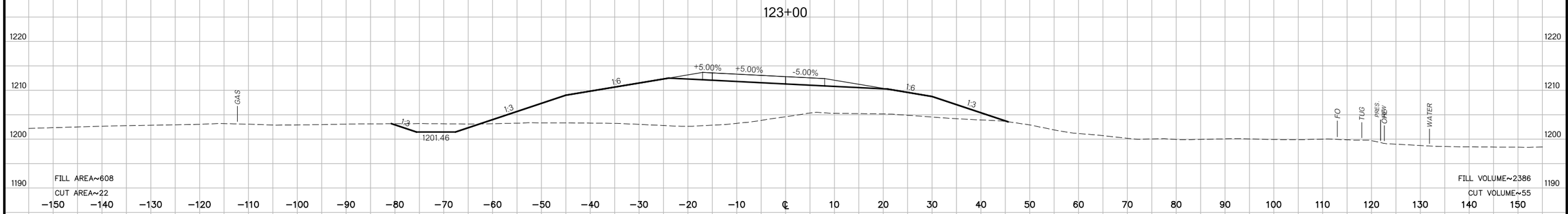
124+00



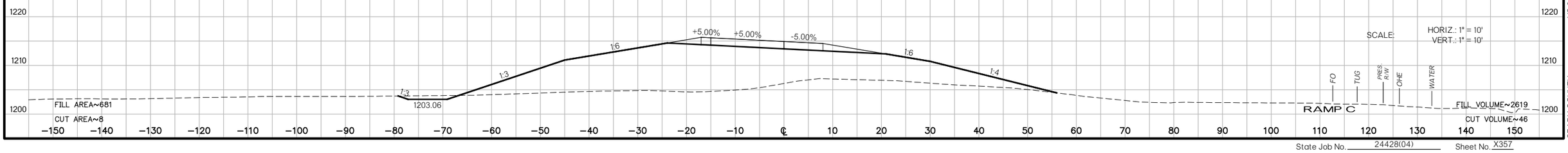
123+63.75



123+00



122+00

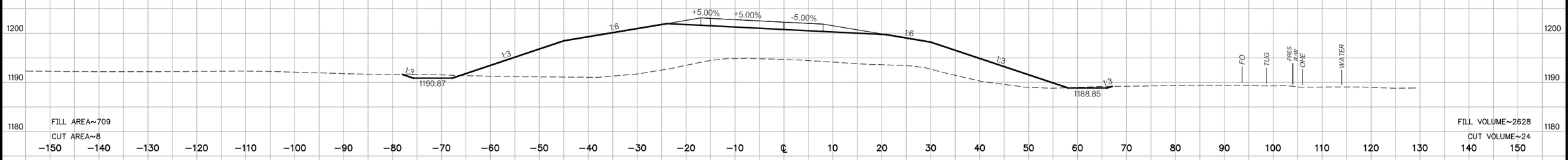


US 81 REALIGNMENT
GRADY COUNTY

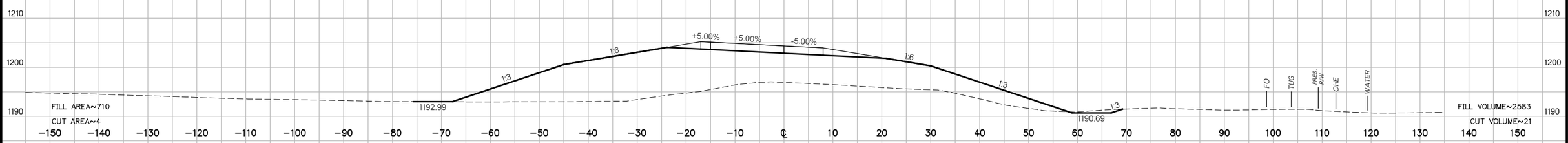
State Job No. 24428(04) Sheet No. X357

PROPOSED
R/W
AUGUST 2017

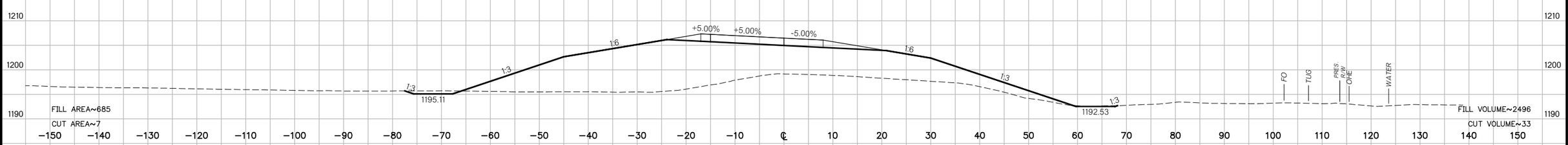
128+00



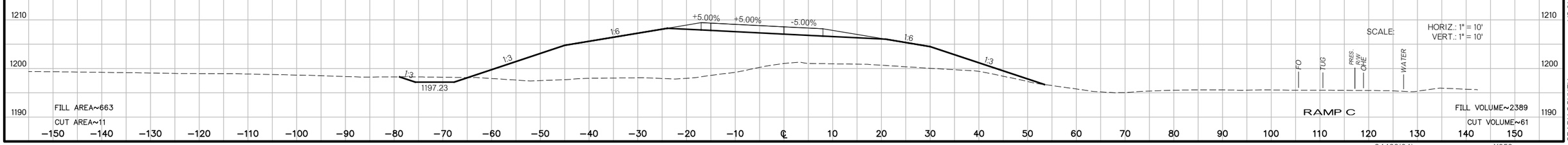
127+00



126+00



125+00

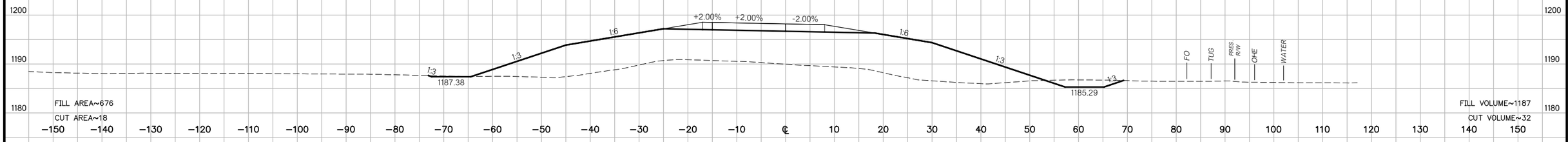


US 81 REALIGNMENT
GRADY COUNTY

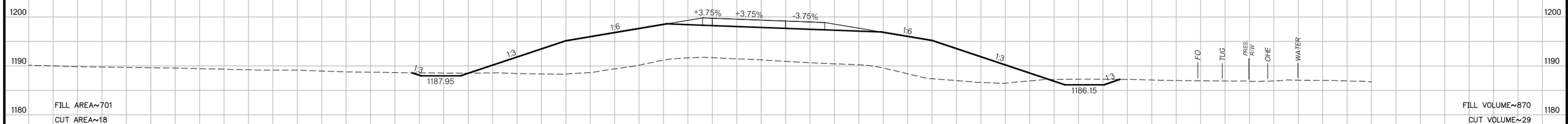
State Job No. 24428(04) Sheet No. X358

PROPOSED
R/W
AUGUST 2017

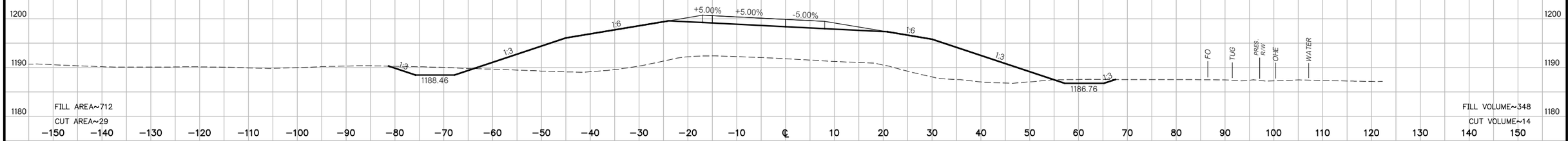
BEGIN NORMAL CROWN
129+93.16



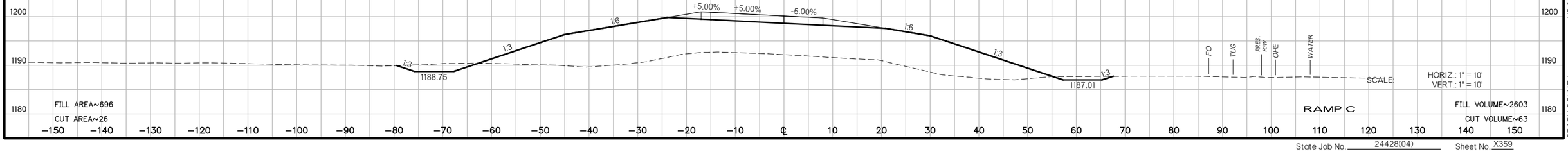
129+46.61



END FULL SUPERELEVATION
129+13.36



129+00



SCALE:
HORIZ.: 1" = 10'
VERT.: 1" = 10'

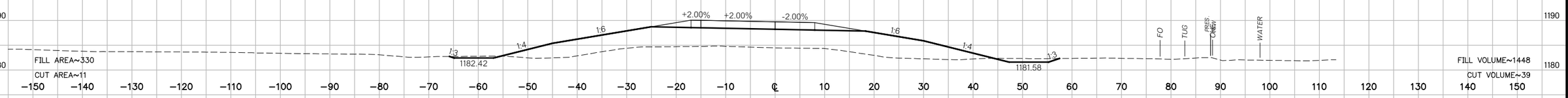
RAMP C

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X359

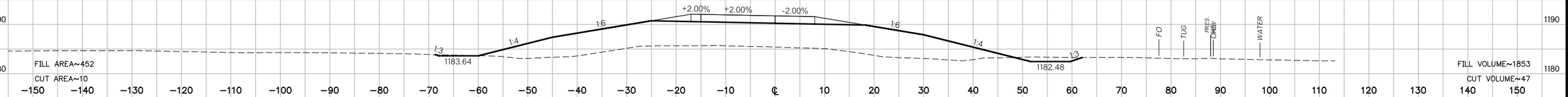
PROPOSED
R/W
AUGUST 2017

134+00



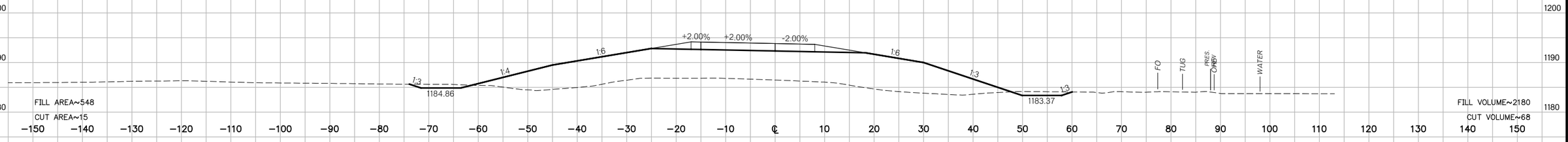
FILL AREA~330
CUT AREA~11
FILL VOLUME~1448
CUT VOLUME~39

133+00



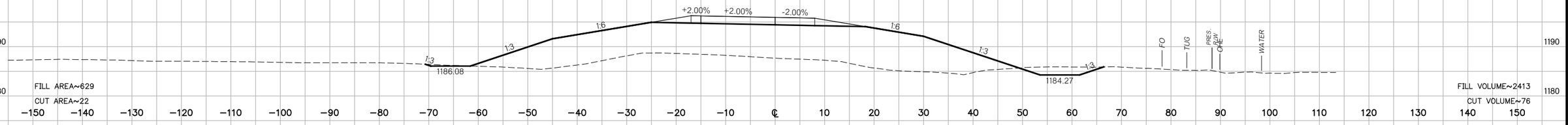
FILL AREA~452
CUT AREA~10
FILL VOLUME~1853
CUT VOLUME~47

132+00



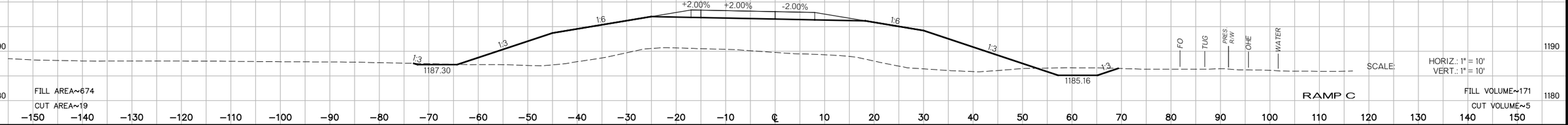
FILL AREA~548
CUT AREA~15
FILL VOLUME~2180
CUT VOLUME~68

131+00



FILL AREA~629
CUT AREA~22
FILL VOLUME~2413
CUT VOLUME~76

130+00



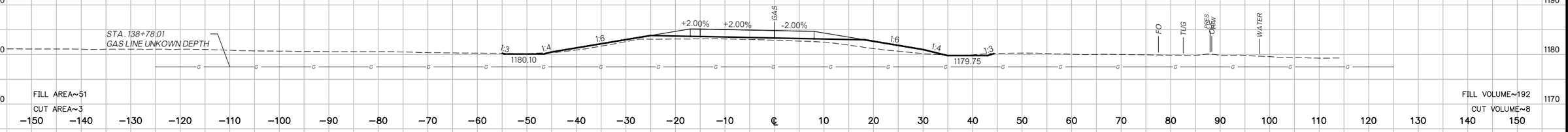
FILL AREA~674
CUT AREA~19
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'
RAMP C
FILL VOLUME~171
CUT VOLUME~5

US 81 REALIGNMENT
GRADY COUNTY

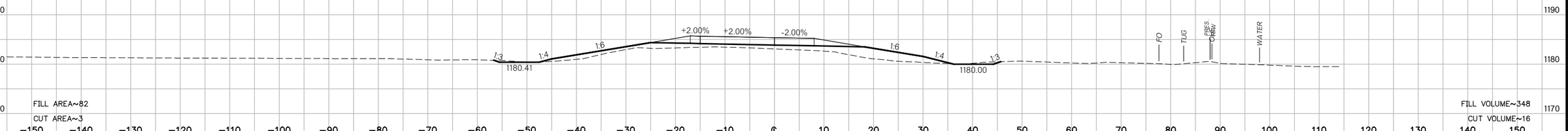
State Job No. 24428(04) Sheet No. X360

PROPOSED
R/W
AUGUST 2017

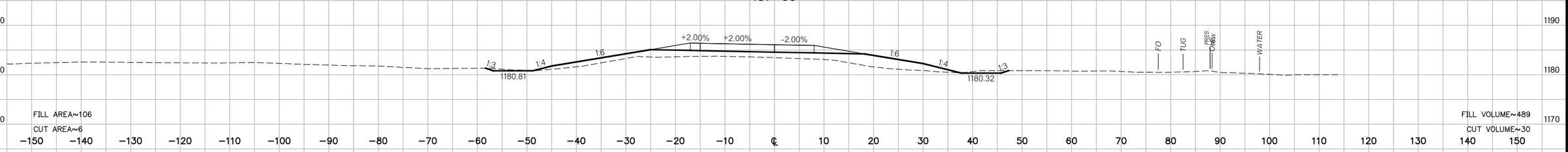
138+78.01



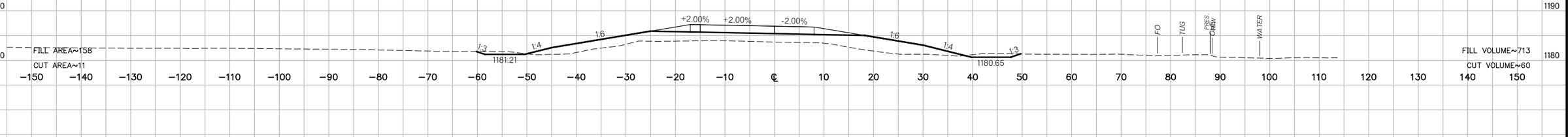
138+00



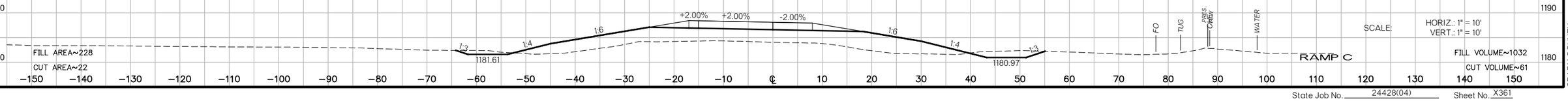
137+00



136+00



135+00



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

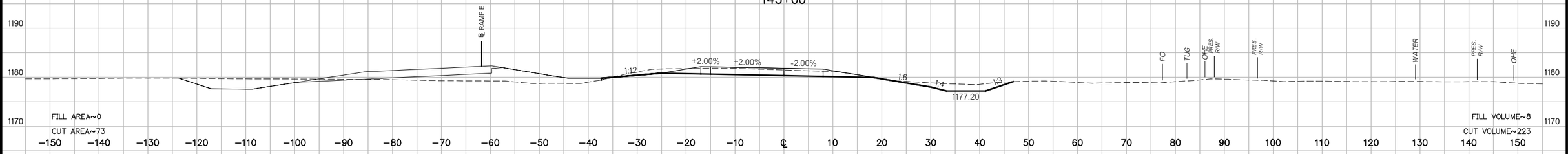
RAMP C

US 81 REALIGNMENT
GRADY COUNTY

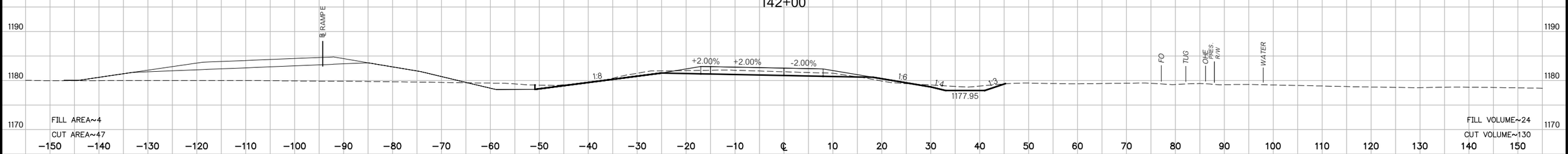
State Job No. 24428(04) Sheet No. X361

PROPOSED
R/W
AUGUST 2017

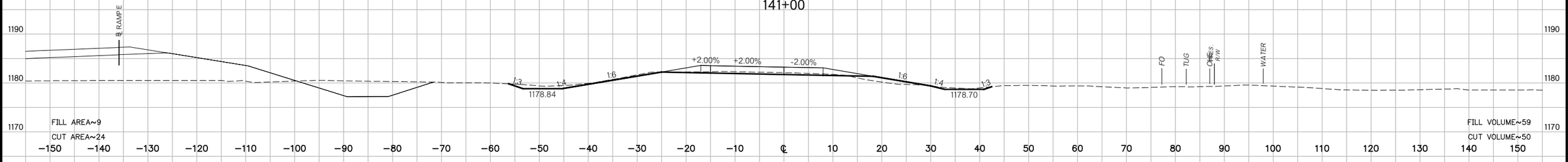
143+00



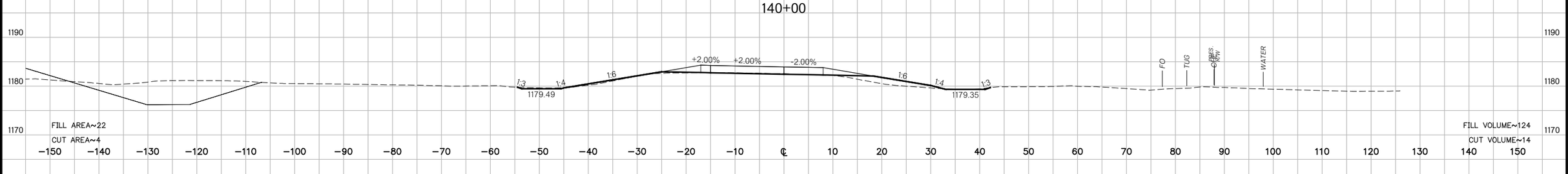
142+00



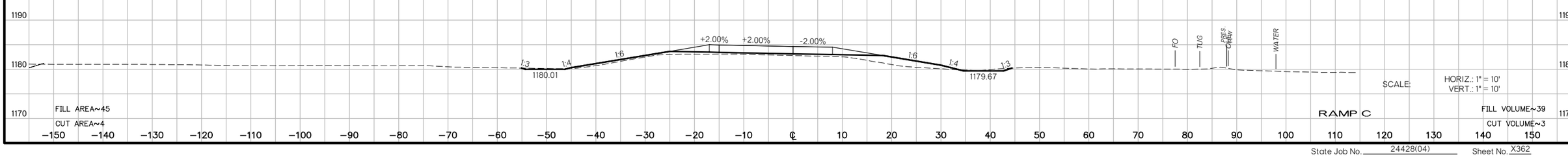
141+00



140+00



139+00



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP C

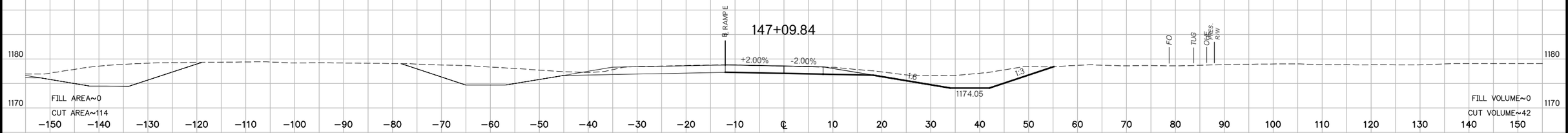
US 81 REALIGNMENT

GRADY COUNTY

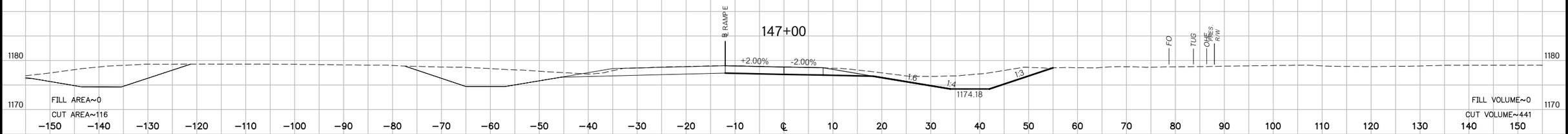
State Job No. 24428(04) Sheet No. X362

PROPOSED
R/W
AUGUST 2017

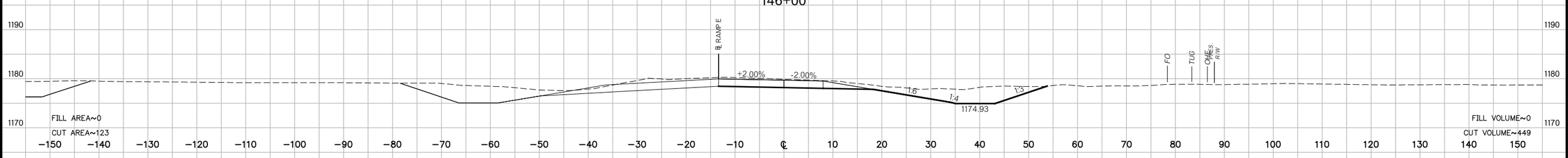
147+09.84



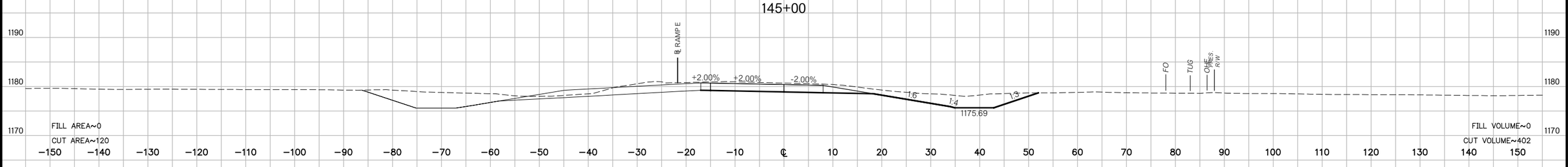
147+00



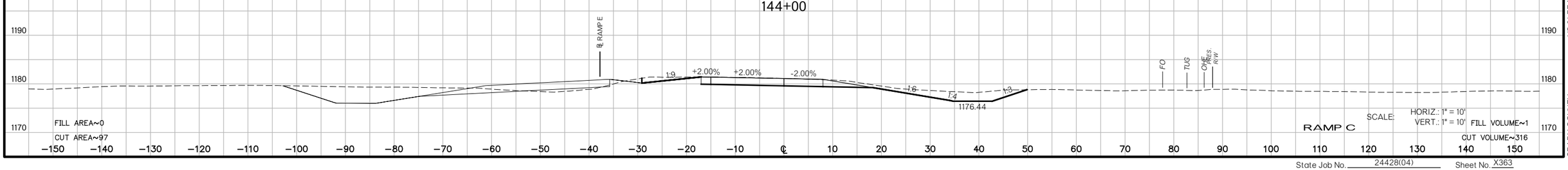
146+00



145+00



144+00



RAMP C

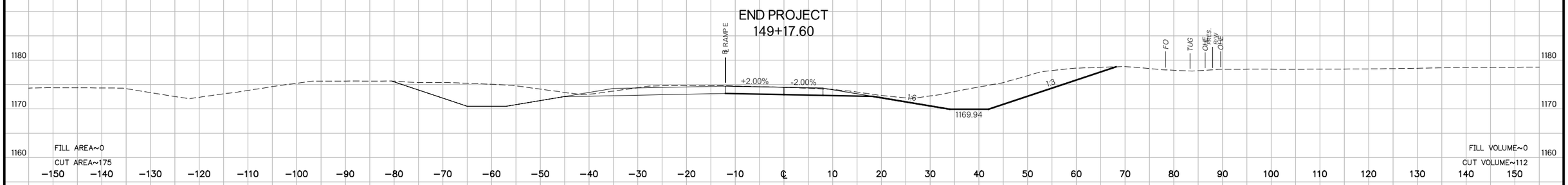
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

US 81 REALIGNMENT
GRADY COUNTY

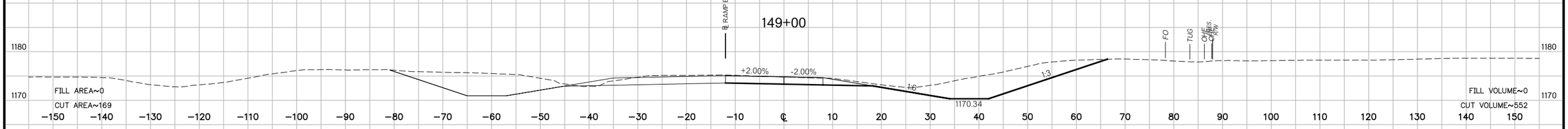
State Job No. 24428(04) Sheet No. X363

PROPOSED
R/W
AUGUST 2017

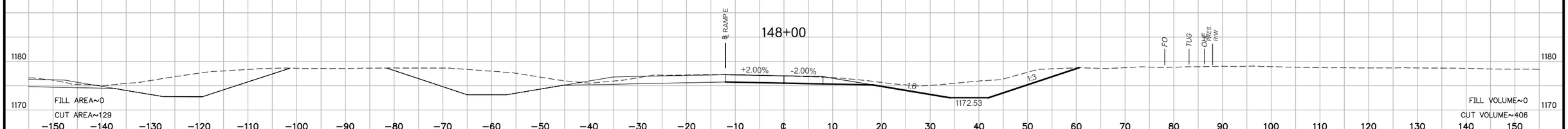
END PROJECT
149+17.60



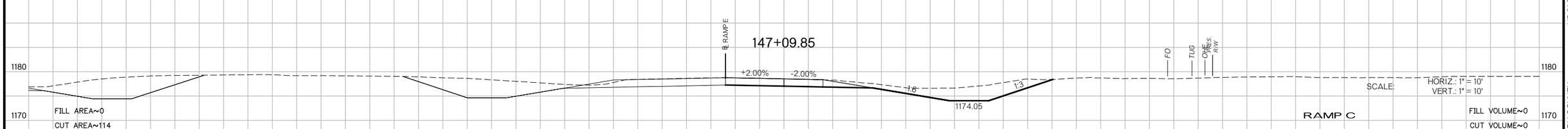
149+00



148+00



147+09.85



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

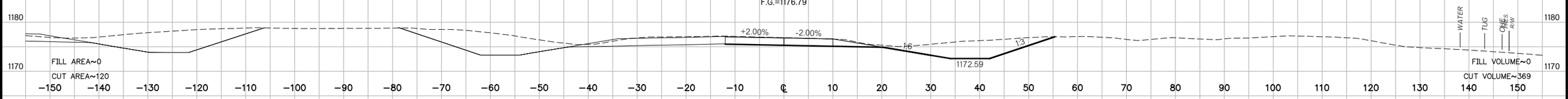
RAMP C

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X364

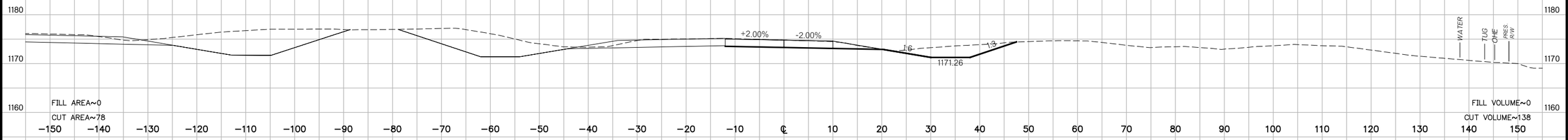
PROPOSED
R/W
AUGUST 2017

220+00
F.G.=1176.79

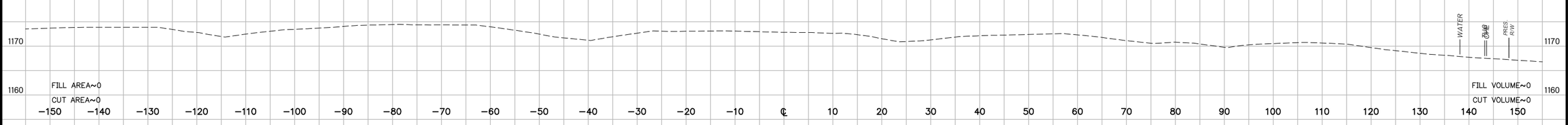


219+00
F.G.=1174.89

BEGIN PROJECT
218+95.41
F.G.=1174.80

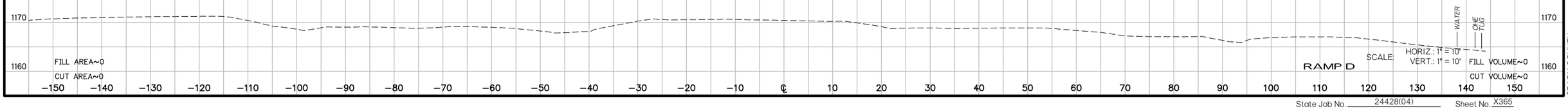


218+00



THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPES & LOCATIONS OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE TO MAKE THE DETERMINATIONS AS TO THE TYPE & LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING OWNERS OF UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS.

217+00



RAMP D

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

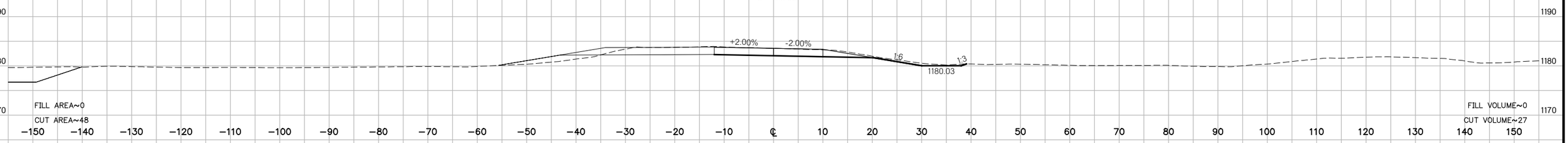
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X365

PROPOSED
R/W
AUGUST 2017

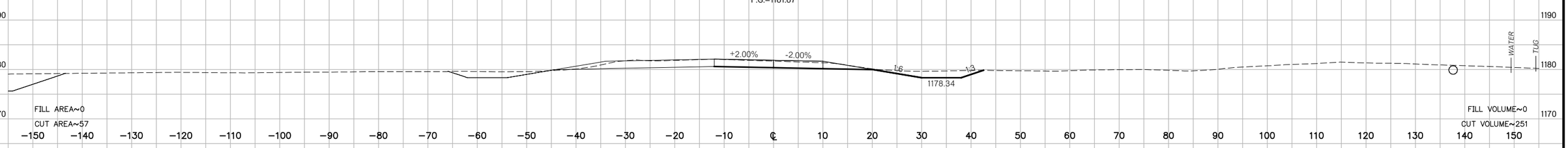
REVERSE CROSS SLOPE STATION

224+14.33
F.G.=1183.56

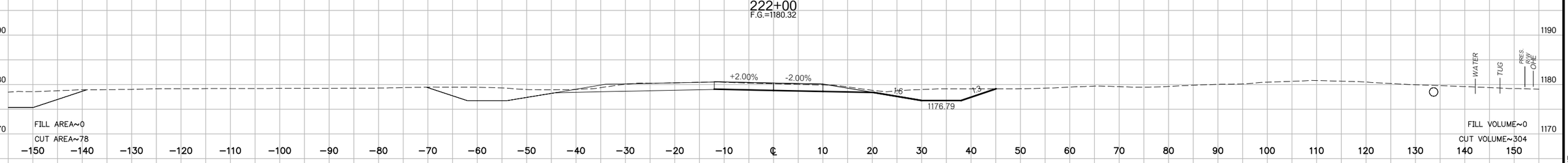


224+00
F.G.=1183.35

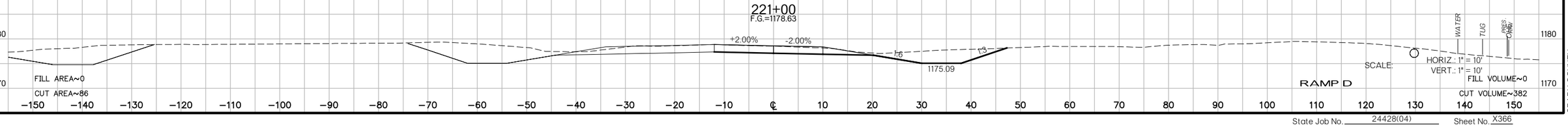
223+00
F.G.=1181.87



222+00
F.G.=1180.32



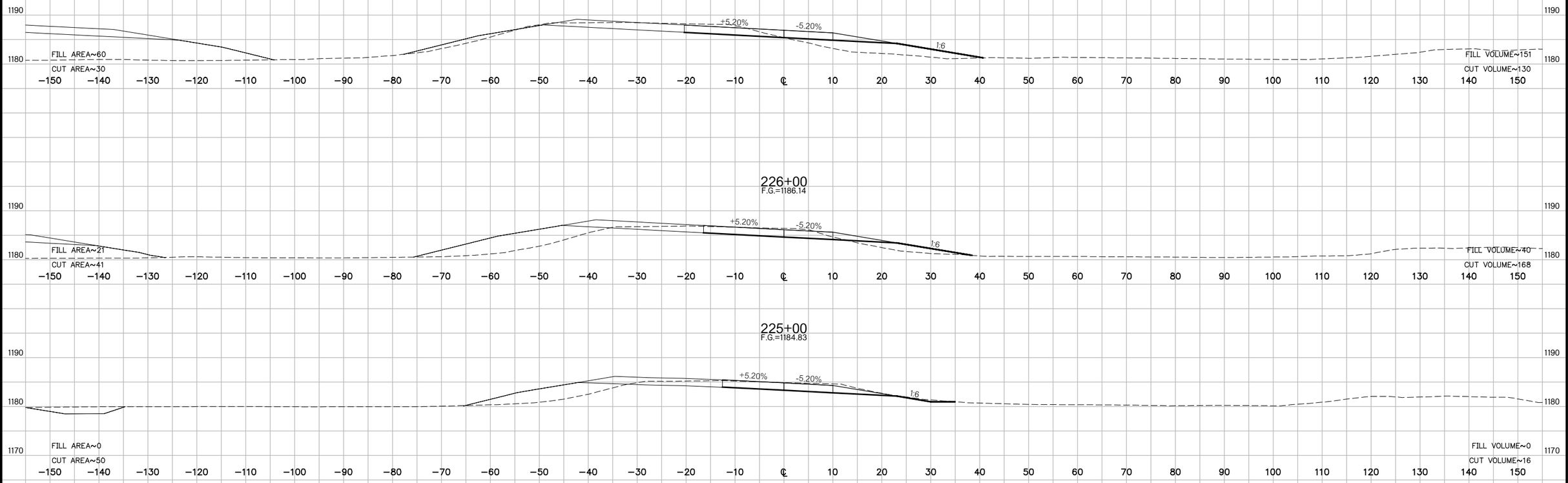
221+00
F.G.=1178.63



US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X366

PROPOSED
R/W
AUGUST 2017



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP D

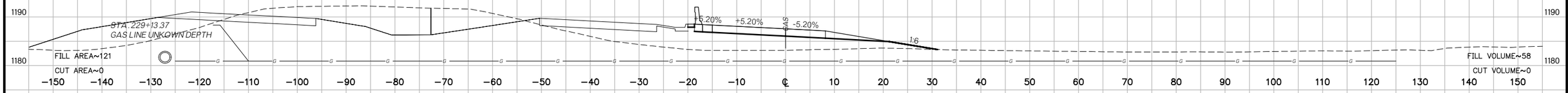
US 81 REALIGNMENT

GRADY COUNTY

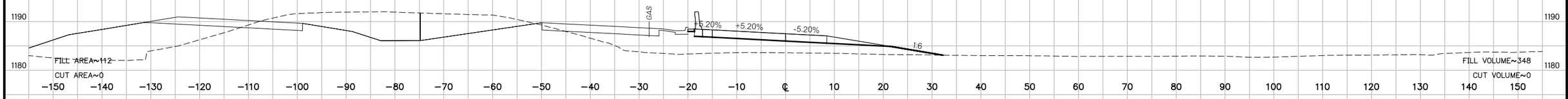
State Job No. 24428(04) Sheet No. X367

PROPOSED
R/W
AUGUST 2017

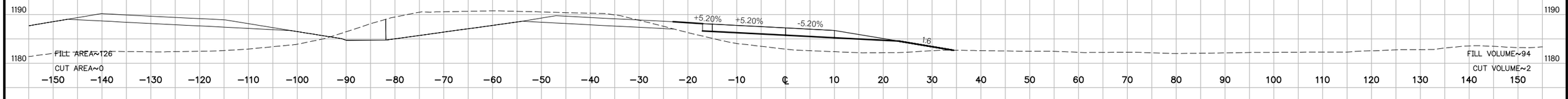
229+13.37
F.G.=1187.55



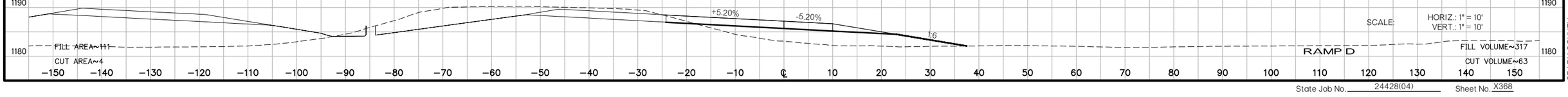
229+00
F.G.=1187.51



228+21.36
F.G.=1187.27



228+00
F.G.=1187.21

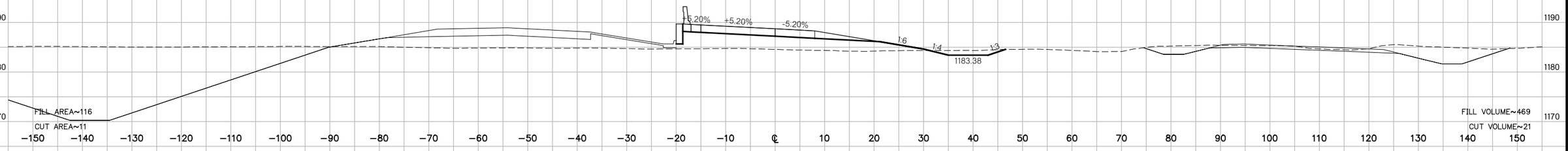


US 81 REALIGNMENT
GRADY COUNTY

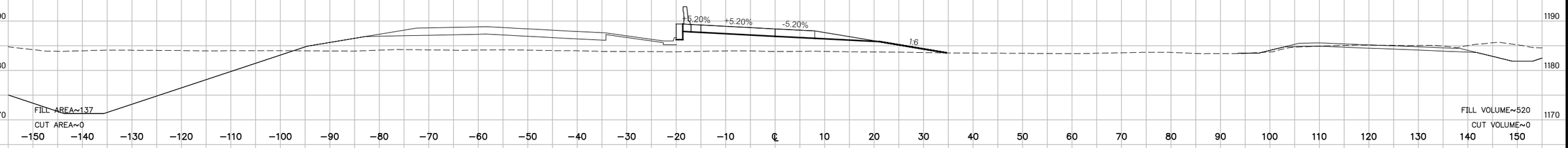
State Job No. 24428(04) Sheet No. X368

PROPOSED
R/W
AUGUST 2017

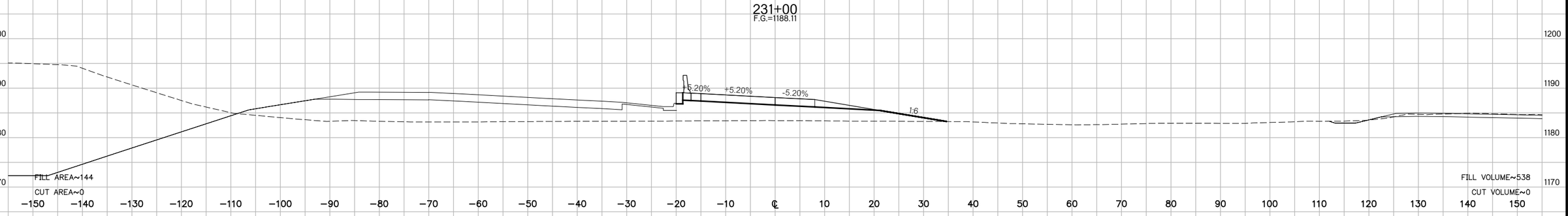
233+00
F.G.=1188.71



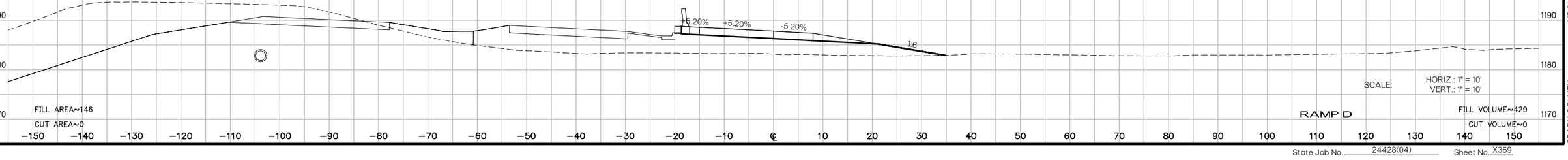
232+00
F.G.=1188.41



231+00
F.G.=1188.11



230+00
F.G.=1187.81



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

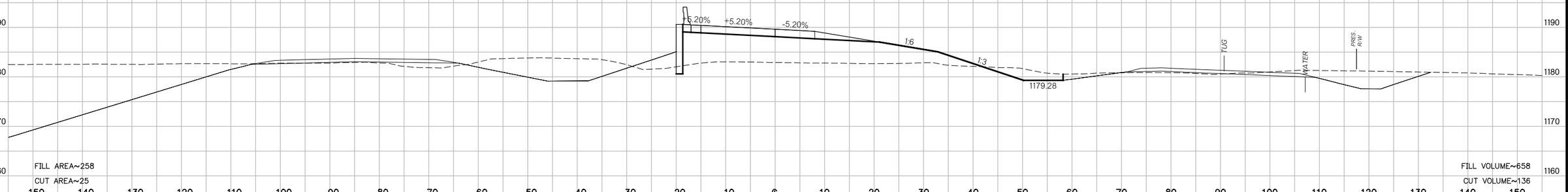
RAMP D

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X369

PROPOSED
R/W
AUGUST 2017

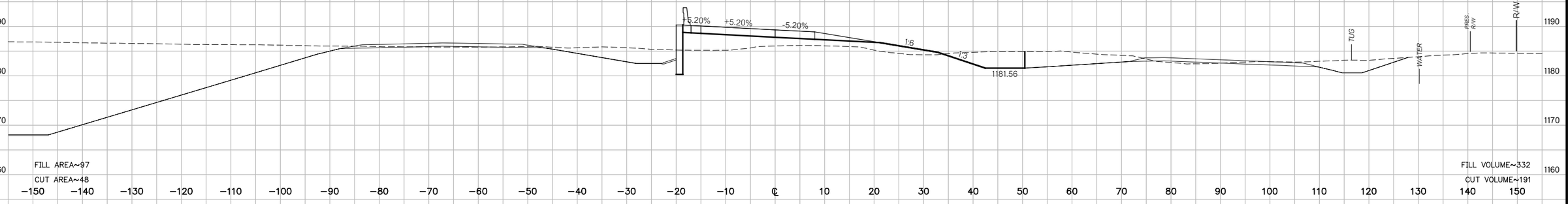
236+00
F.G.=1189.62



FILL AREA~258
CUT AREA~25

FILL VOLUME~658
CUT VOLUME~136

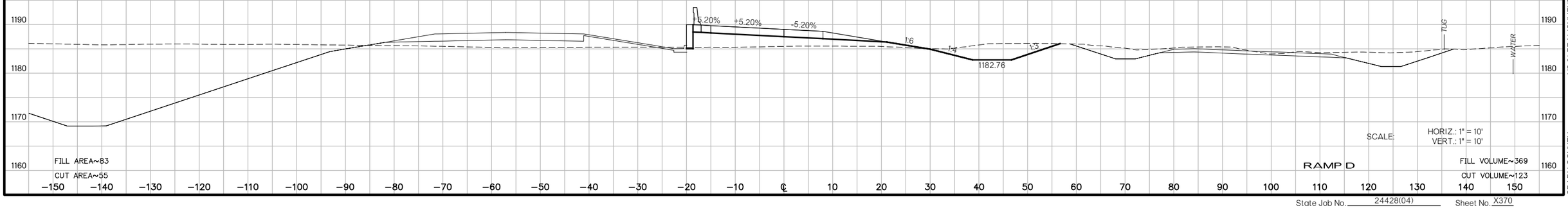
235+00
F.G.=1189.32



FILL AREA~97
CUT AREA~48

FILL VOLUME~332
CUT VOLUME~191

234+00
F.G.=1189.01



FILL AREA~83
CUT AREA~55

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP D

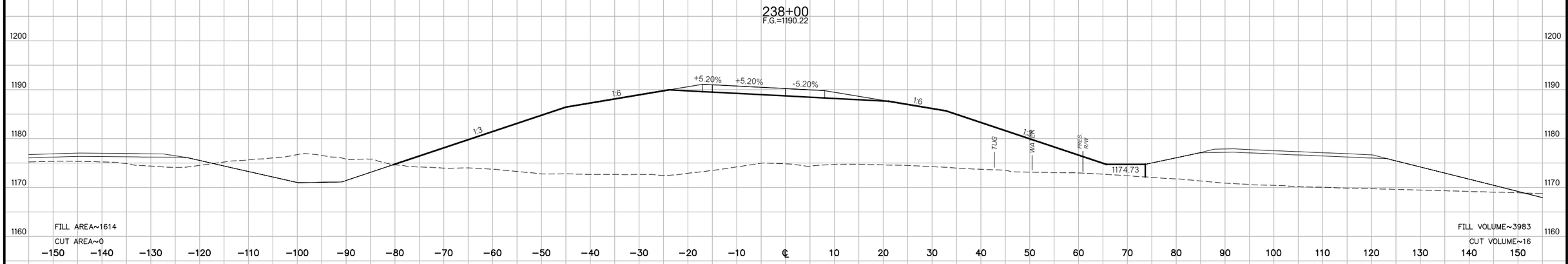
FILL VOLUME~369
CUT VOLUME~123

US 81 REALIGNMENT
GRADY COUNTY

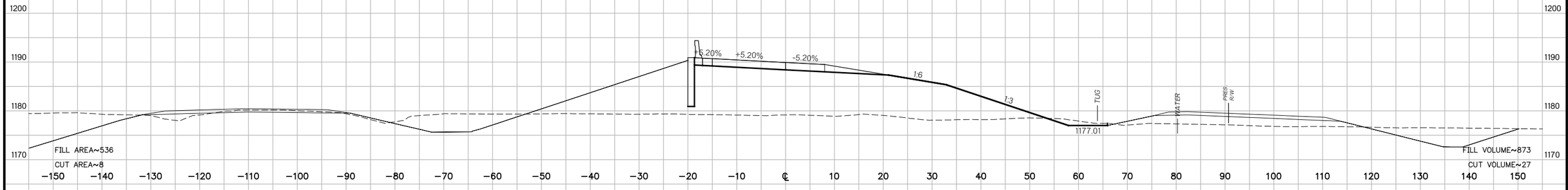
State Job No. 24428(04) Sheet No. X370

PROPOSED
R/W
AUGUST 2017

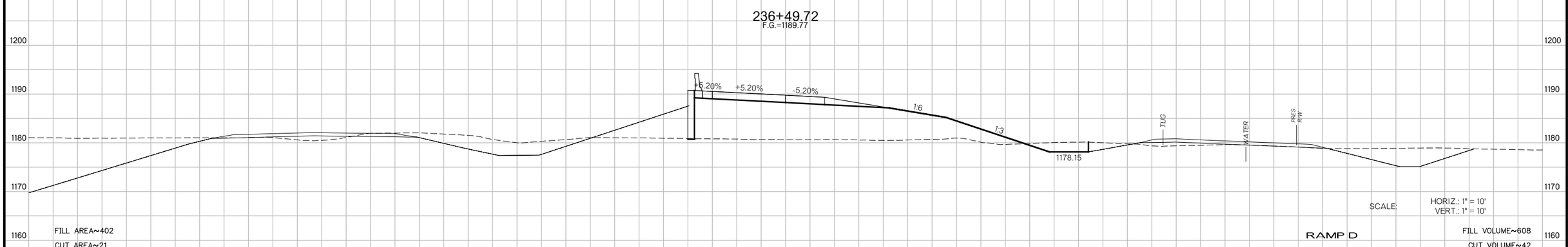
238+00
F.G.=1190.22



237+00
F.G.=1189.92



236+49.72
F.G.=1189.77



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

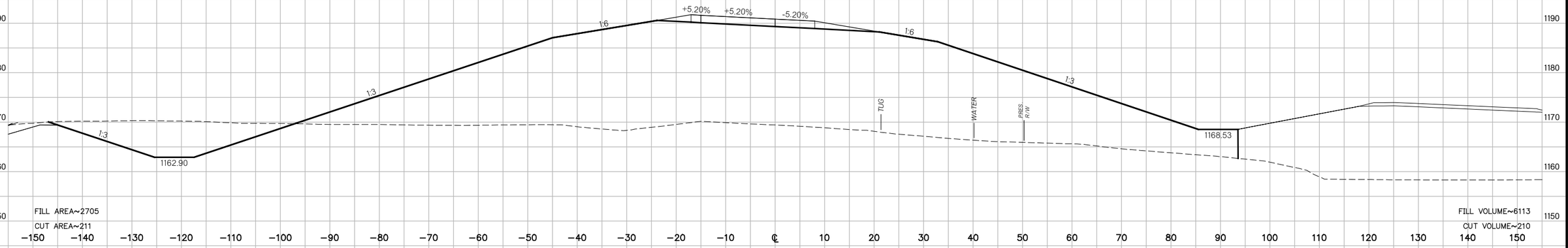
RAMP D

US 81 REALIGNMENT
GRADY COUNTY

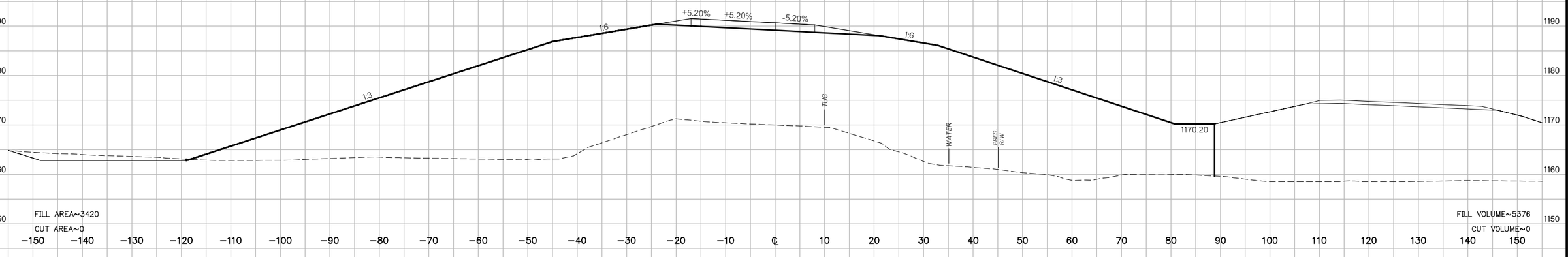
State Job No. 24428(04) Sheet No. X371

PROPOSED
R/W
AUGUST 2017

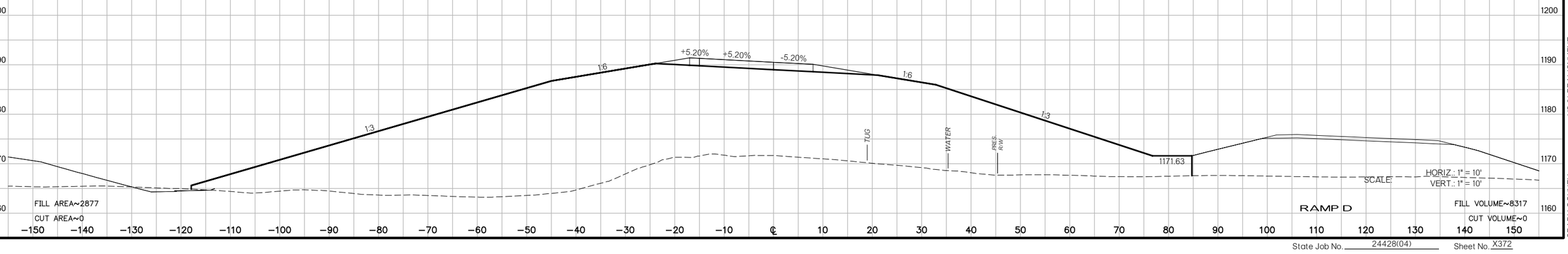
240+00
F.G.=1190.82



239+46.10
F.G.=1190.66



239+00
F.G.=1190.52

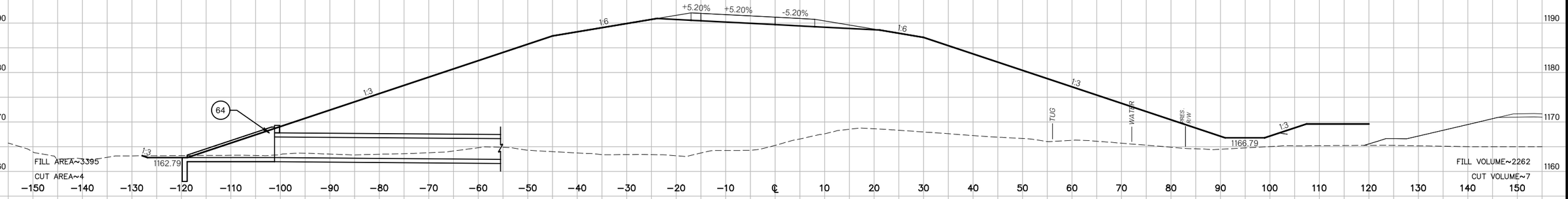


US 81 REALIGNMENT
GRADY COUNTY

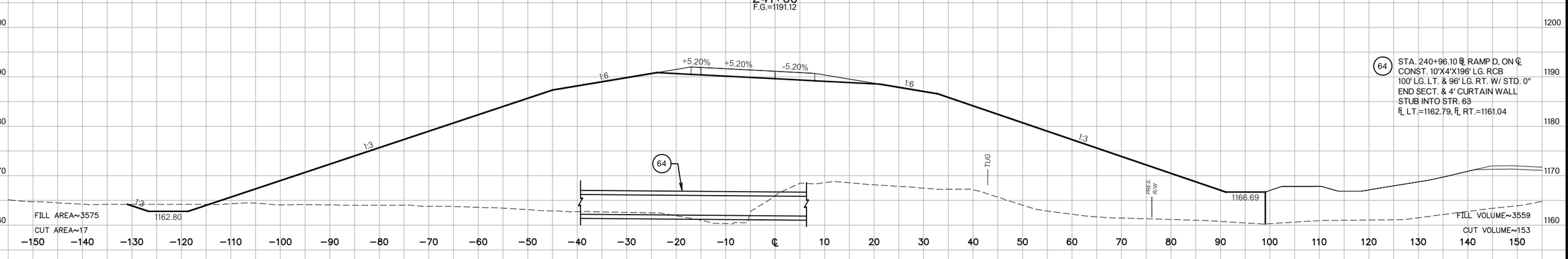
State Job No. 24428(04) Sheet No. X372

PROPOSED
R/W
AUGUST 2017

241+17.53
F.G.=1191.18

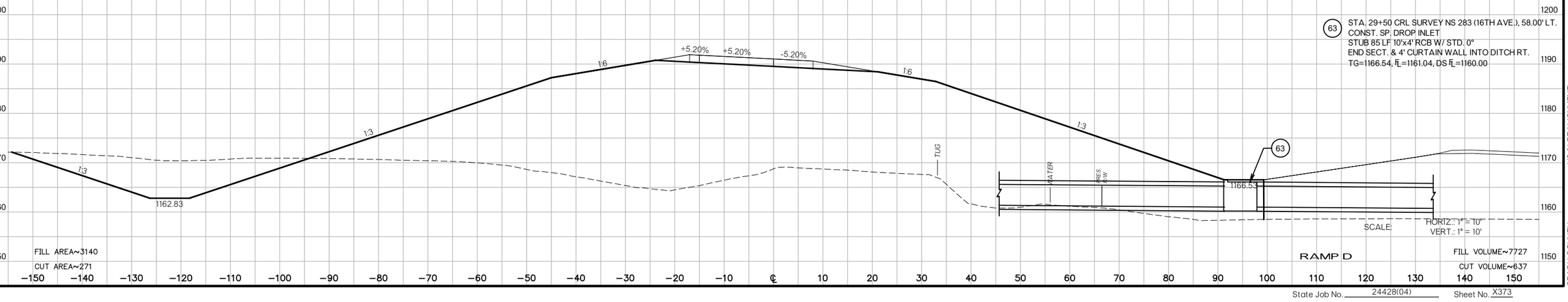


241+00
F.G.=1191.12



64 STA. 240+96.10 ℄ RAMP D, ON ℄
CONST. 10'X4'X196' LG. RCB
100' LG. LT. & 96' LG. RT. W/ STD. 0°
END SECT. & 4' CURTAIN WALL
STUB INTO STR. 63
FL LT.=1162.79, FL RT.=1161.04

240+71.38
F.G.=1191.04



63 STA. 29+50 CRL SURVEY NS 283 (16TH AVE.), 58.00' LT.
CONST. SP. DROP INLET
STUB 85 LF 10'x4' RCB W/ STD. 0°
END SECT. & 4' CURTAIN WALL INTO DITCH RT.
TG=1166.54, FL=1161.04, DS FL=1160.00

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP D

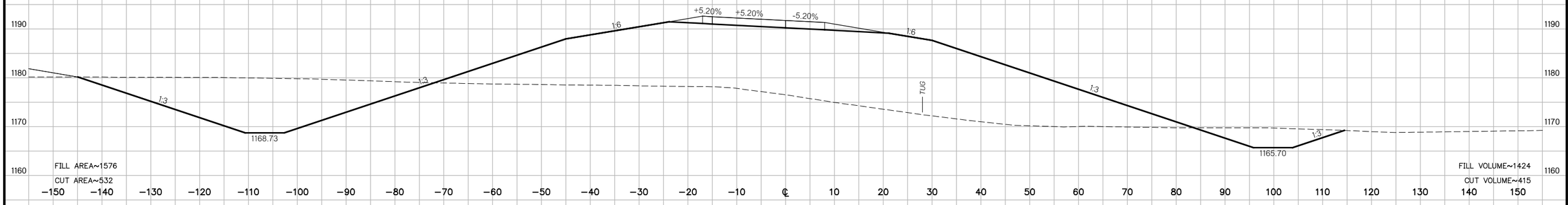
US 81 REALIGNMENT

GRADY COUNTY

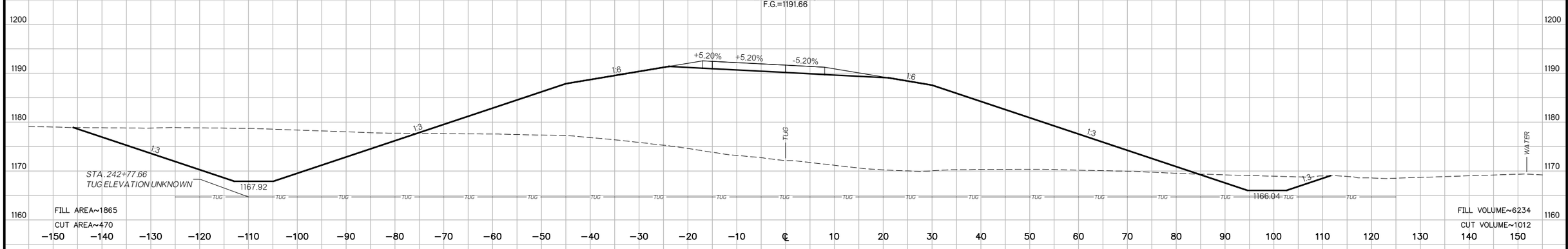
State Job No. 24428(04) Sheet No. X373

PROPOSED
R/W
AUGUST 2017

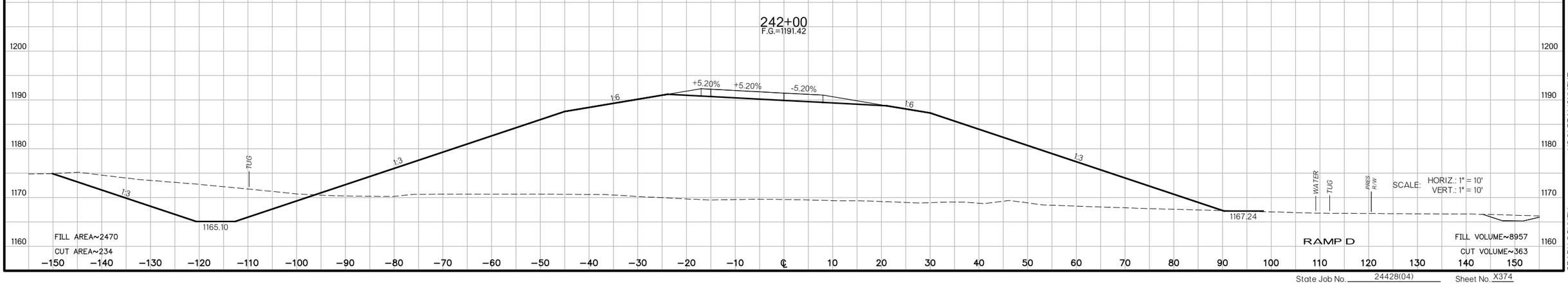
243+00
F.G.=1191.73



242+77.65
F.G.=1191.66



242+00
F.G.=1191.42



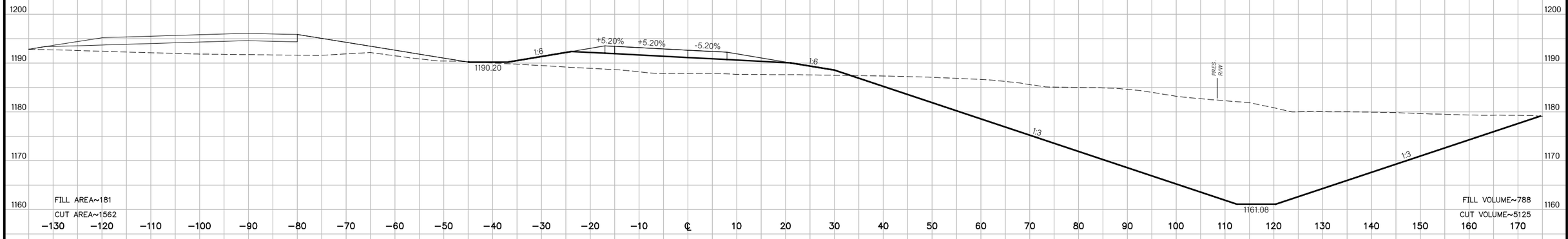
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

US 81 REALIGNMENT
GRADY COUNTY

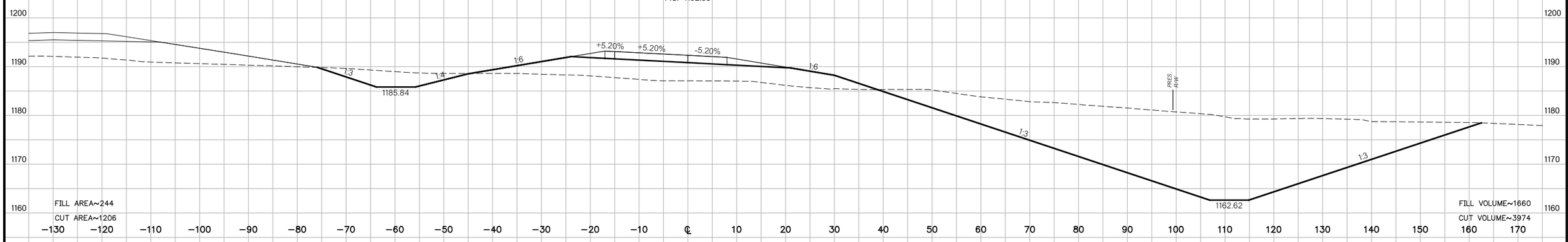
State Job No. 24428(04) Sheet No. X374

PROPOSED
R/W
AUGUST 2017

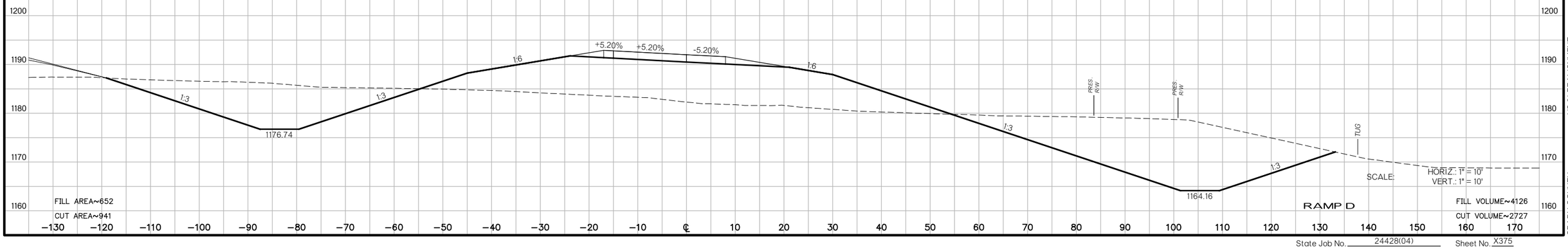
246+00
F.G.=1192.63



245+00
F.G.=1192.33



244+00
F.G.=1192.03

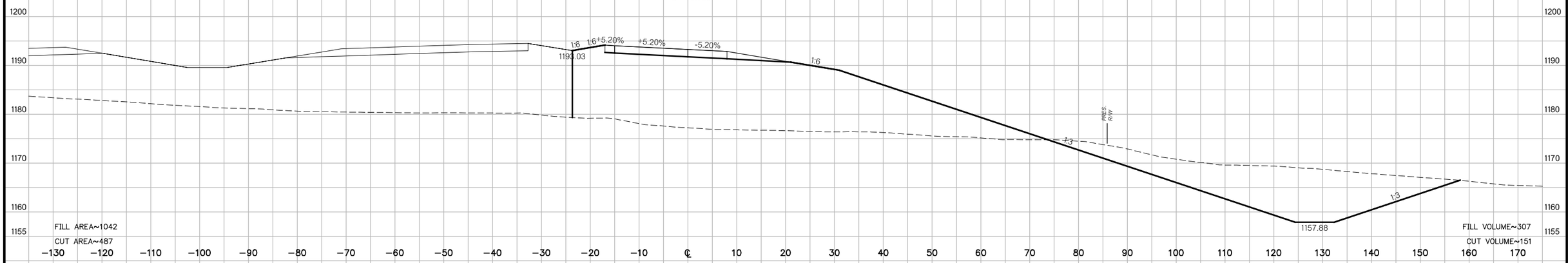


US 81 REALIGNMENT
GRADY COUNTY

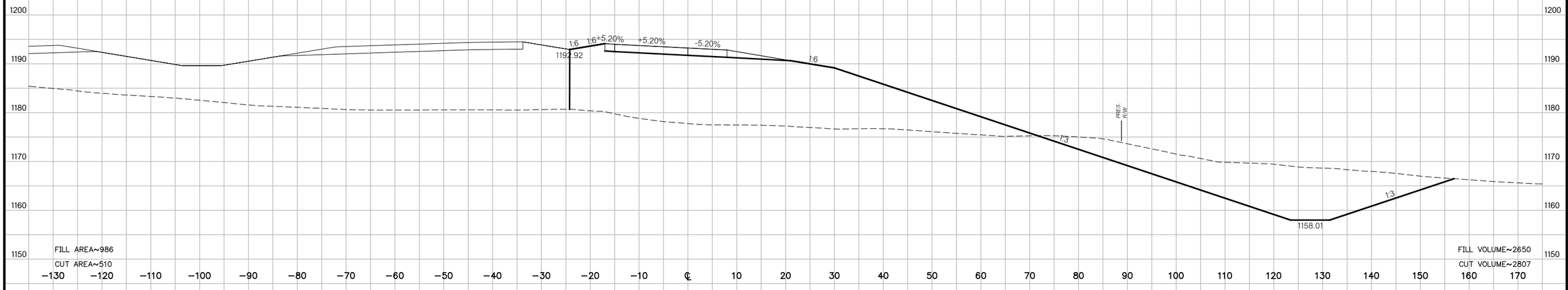
State Job No. 24428(04) Sheet No. X375

PROPOSED
R/W
AUGUST 2017

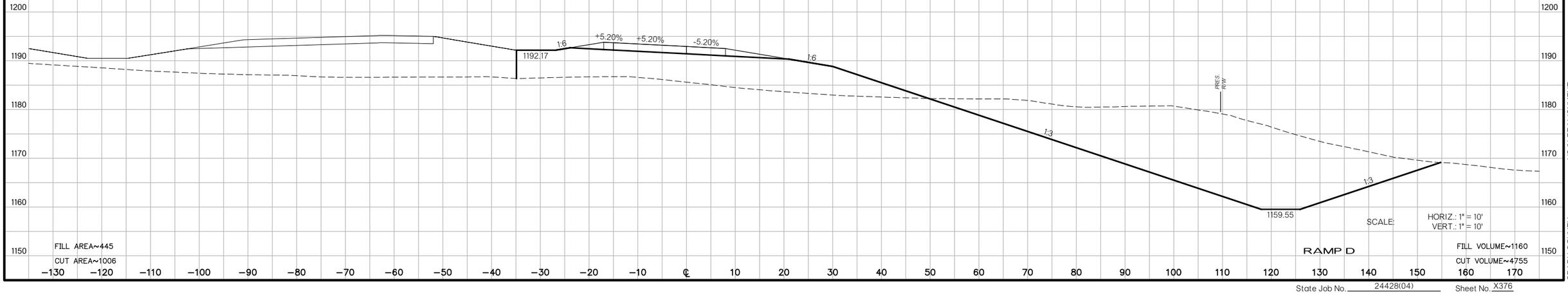
END FULL SUPERELEVATION
248+08.17
F.G.=1193.26



248+00
F.G.=1193.23



247+00
F.G.=1192.93



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

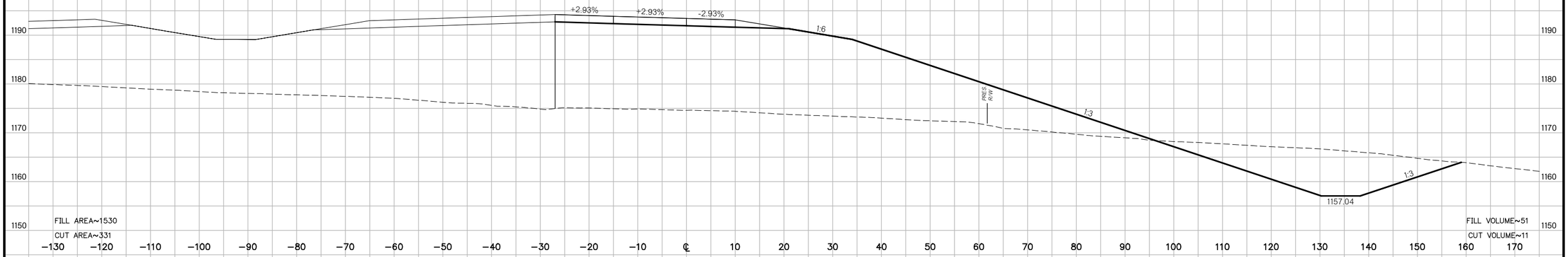
RAMP D

US 81 REALIGNMENT
GRADY COUNTY

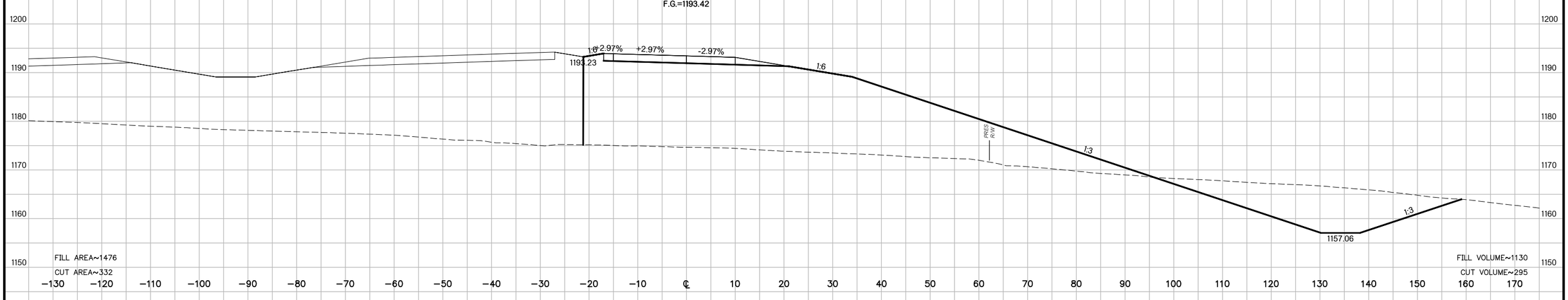
State Job No. 24428(04) Sheet No. X376

PROPOSED
R/W
AUGUST 2017

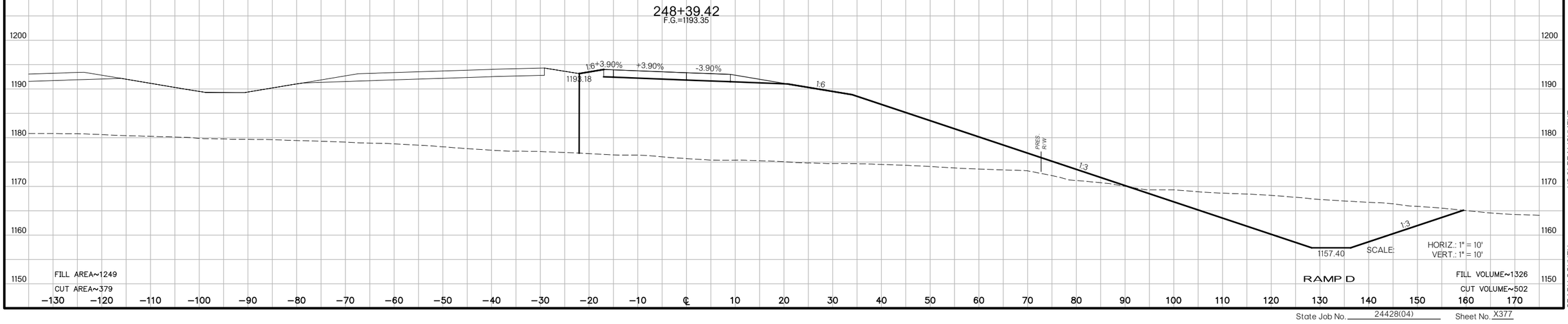
248+62.73
F.G.=1193.42



248+61.81
F.G.=1193.42



248+39.42
F.G.=1193.35

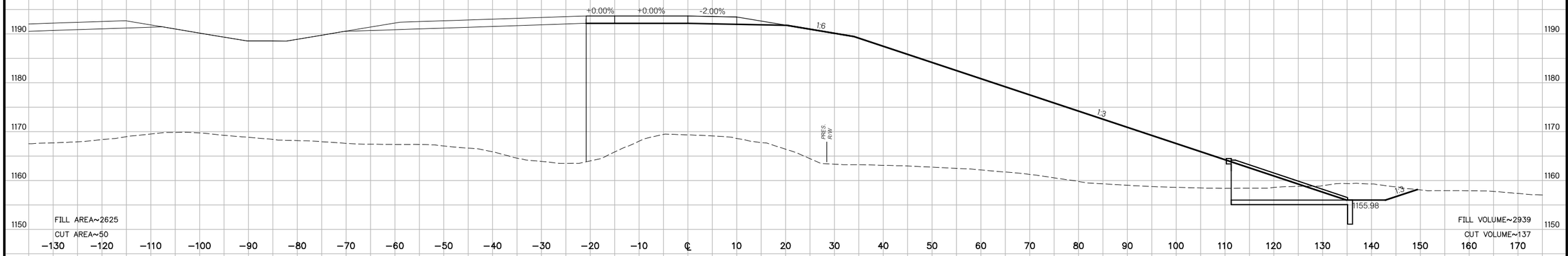


US 81 REALIGNMENT
GRADY COUNTY

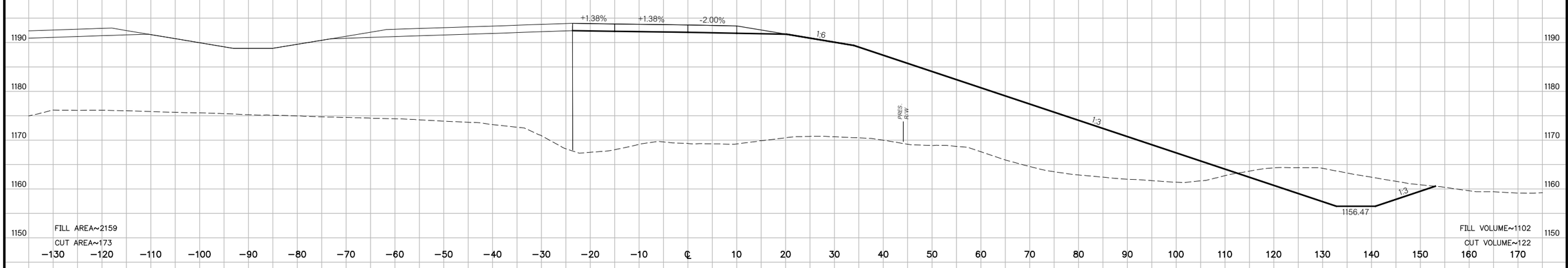
State Job No. 24428(04) Sheet No. X377

PROPOSED
R/W
AUGUST 2017

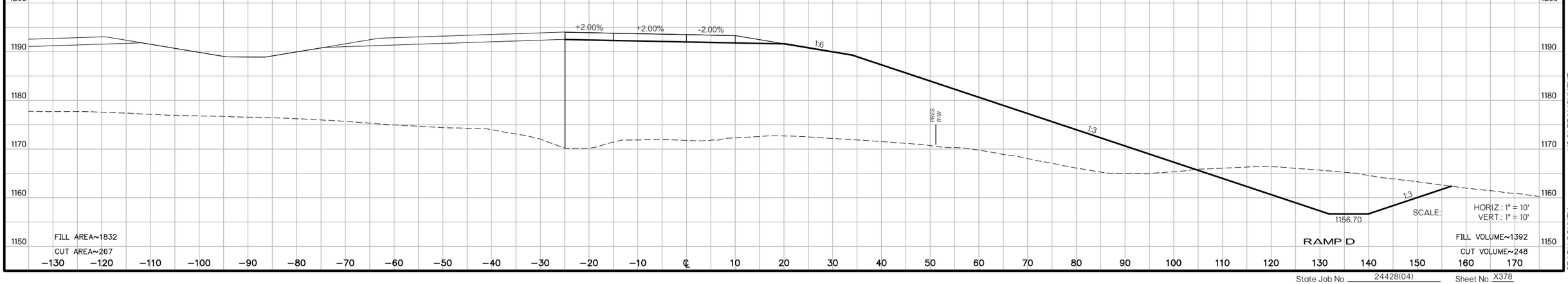
249+33.17
F.G.=1193.65



249+00
F.G.=1193.59



REVERSE CROSS SLOPE STATION
248+85.09
F.G.=1193.52



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

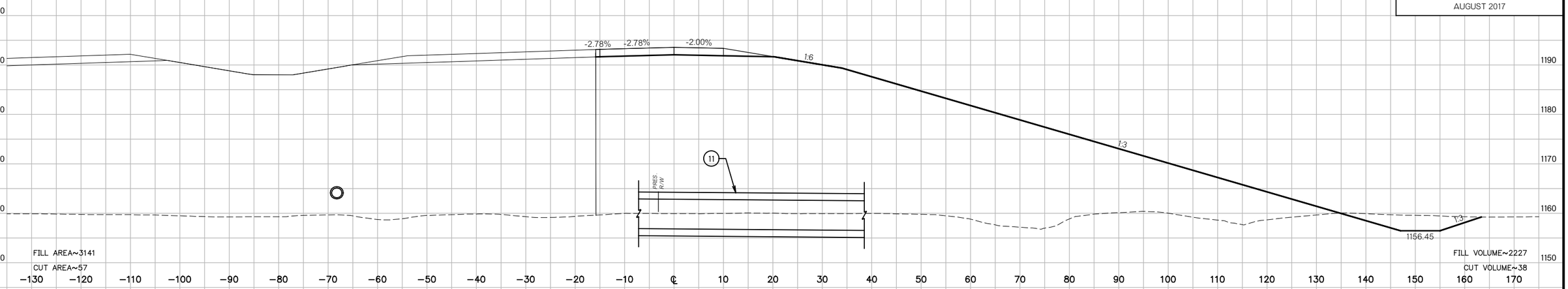
RAMP D

US 81 REALIGNMENT
GRADY COUNTY

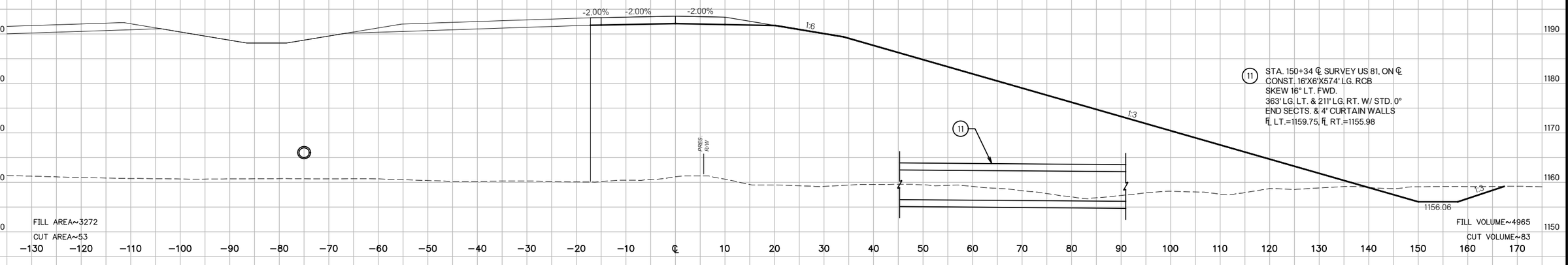
State Job No. 24428(04) Sheet No. X378

PROPOSED
R/W
AUGUST 2017

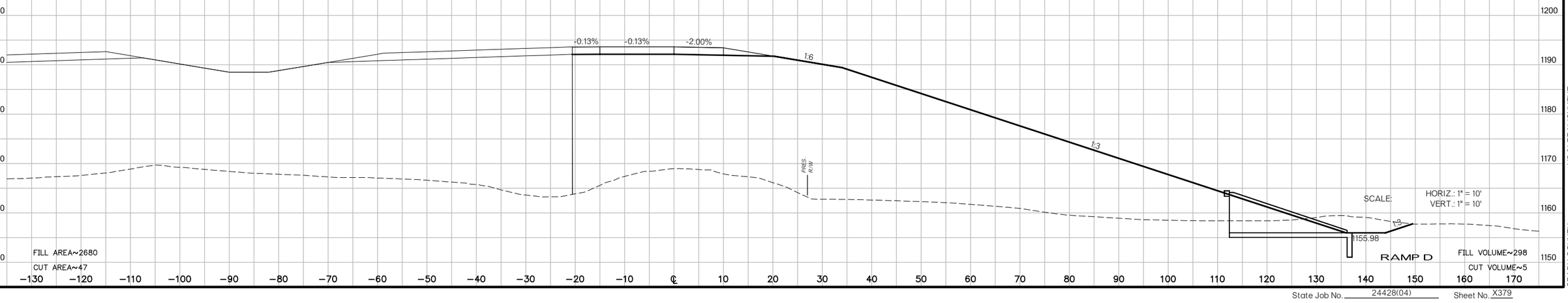
250+00
F.G.=1193.55



249+81.25
F.G.=1193.61



249+36.20
F.G.=1193.65

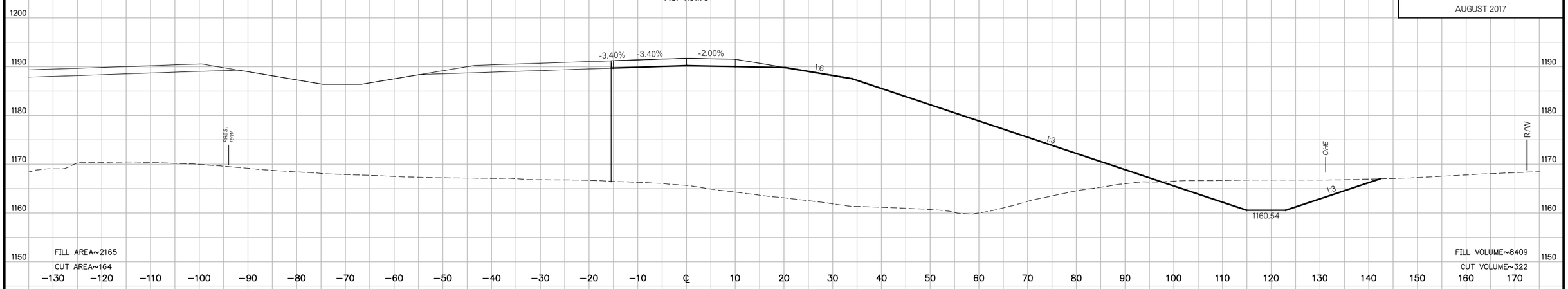


US 81 REALIGNMENT
GRADY COUNTY

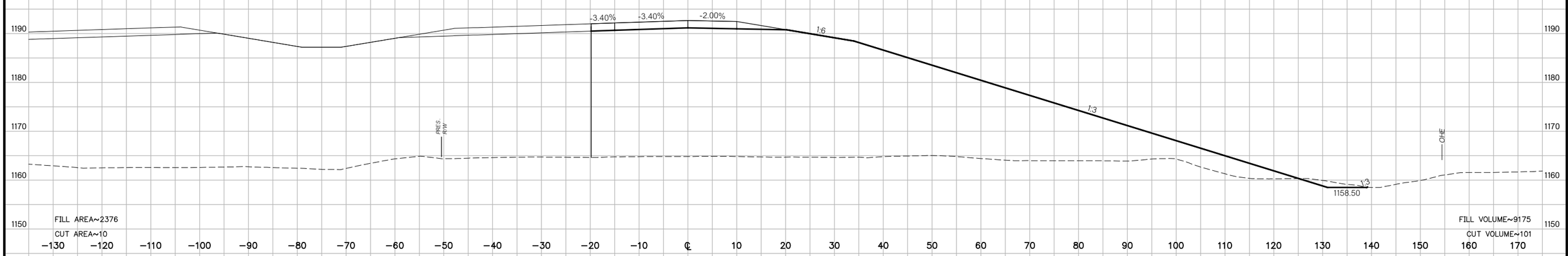
State Job No. 24428(04) Sheet No. X379

PROPOSED
R/W
AUGUST 2017

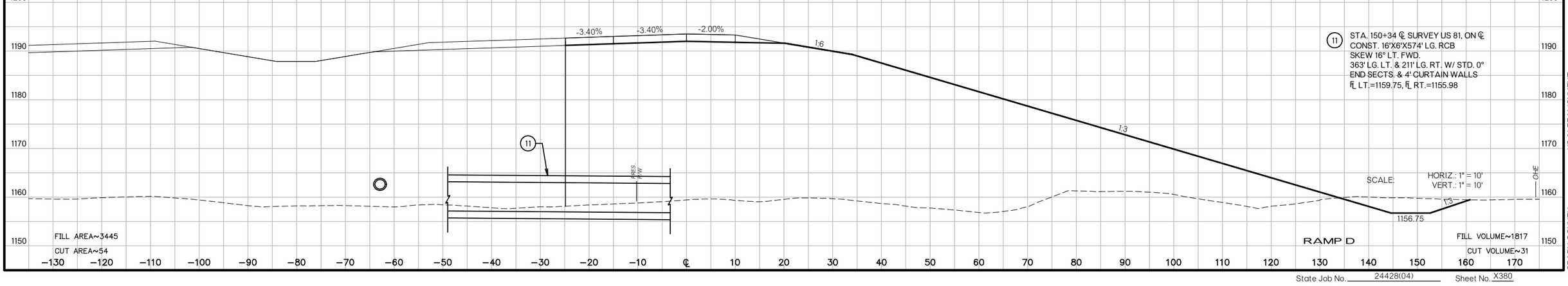
252+00
F.G.=1191.73



251+00
F.G.=1192.67



BEGIN FULL SUPERELEVATION
250+14.90
F.G.=1193.51

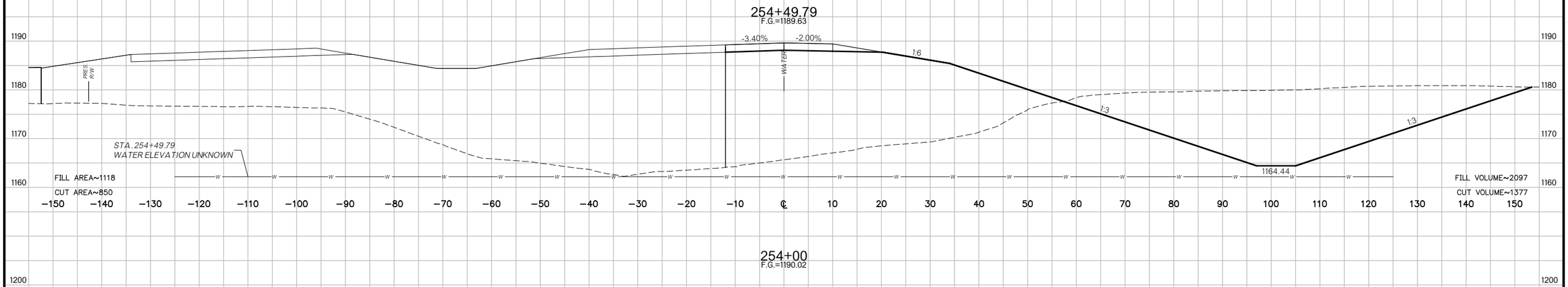


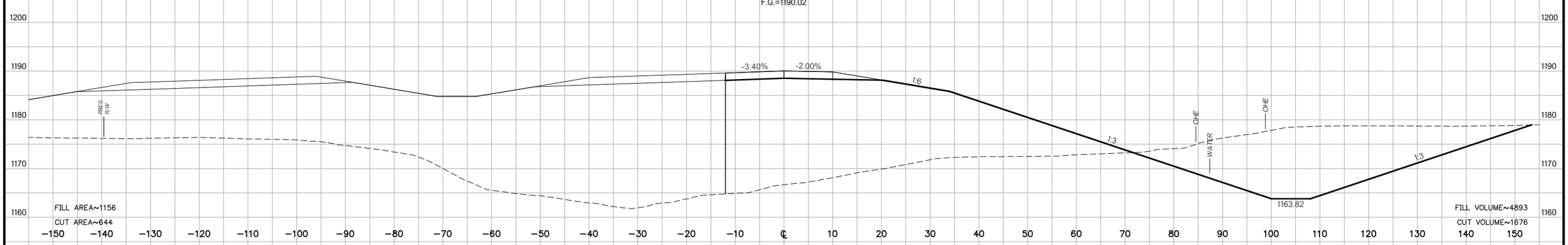
(11) STA. 150+34 ℄ SURVEY US 81, ON ℄
CONST. 16'X6'X574' LG. RCB
SKEW 16° LT. FWD.
363' LG. LT. & 211' LG. RT. W/ STD. 0°
END SECTS. & 4' CURTAIN WALLS
FL LT.=1159.75, FL RT.=1155.98

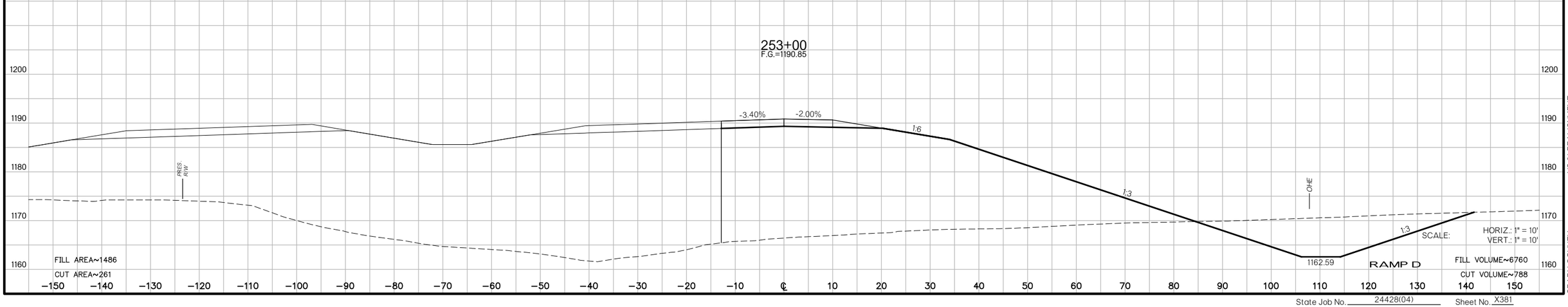
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X380

PROPOSED
R/W
AUGUST 2017







US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X381

PROPOSED
R/W
AUGUST 2017

℄ RAMP B

257+00
F.G.=1187.65

-3.40% -2.00% 1:6 1:3 1:3

1167.52

FILL AREA~1065
CUT AREA~539
FILL VOLUME~4252
CUT VOLUME~2319

℄ RAMP B

256+00
F.G.=1188.44

-3.40% -2.00% 1:6 1:3 1:3

1166.29

FILL AREA~1232
CUT AREA~714
FILL VOLUME~3944
CUT VOLUME~2937

255+01.19
F.G.=1189.22

(12) STA. 155+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 162 LF 18" RCP INTO DITCH RT. W/ CET
TG=1184.00, FL=1176.00, DS FL=1165.07

(12) PREP. R/W WATER -3.40% -2.00% 1:6 1:3 1:3

1165.07

FILL AREA~924
CUT AREA~891
FILL VOLUME~41
CUT VOLUME~39

255+00
F.G.=1189.23

PREP. R/W WATER -3.40% -2.00% 1:6 1:3 1:3

1165.05

FILL AREA~928
CUT AREA~892
FILL VOLUME~1902
CUT VOLUME~1619

1190 1180 1170 1160

−150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP D

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X382

PROPOSED
R/W
AUGUST 2017

℄ RAMP B

259+08.97
F.G.=1186.63

13 STA. 159+03 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 138 LF 24" RCP INTO DITCH RT. W/ CET
TG=1181.39, FL=1178.82, DS FL=1170.09

-3.40% -2.00% 1:6 1:3 1:3

1170.09

1190 1180 1170 1160

FILL AREA~34
CUT AREA~897

FILL VOLUME~15
CUT VOLUME~296

−150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

℄ RAMP B

259+00
F.G.=1186.62

-3.40% -2.00% 1:6 1:3 1:3

1169.98

1190 1180 1170 1160

FILL AREA~58
CUT AREA~886

FILL VOLUME~1265
CUT VOLUME~2968

−150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

℄ RAMP B

258+00
F.G.=1186.92

-3.40% -2.00% 1:6 1:3 1:3

1168.75

1190 1180 1170 1160

FILL AREA~625
CUT AREA~717

FILL VOLUME~3129
CUT VOLUME~2325

−150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

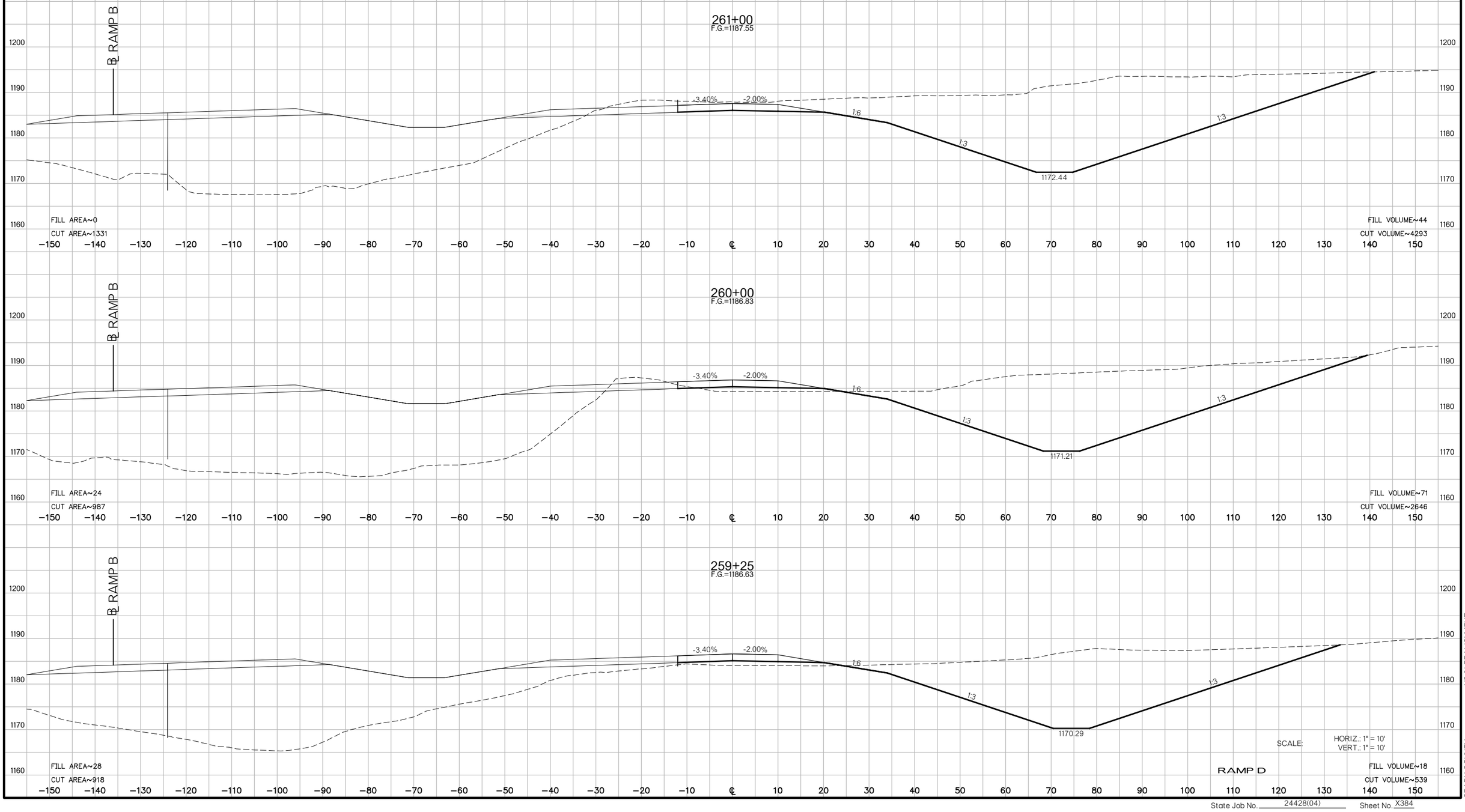
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP D

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X383

PROPOSED
R/W
AUGUST 2017



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP D

US 81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X384

PROPOSED
R/W
AUGUST 2017

℄ RAMP B

263+10.69
F.G.=1190.76

(14) STA. 163+00 ℄ SURVEY US 81, ON ℄
CONST. SMD, TYPE 2
STUB 136 LF 24" RCP INTO DITCH RT. W/ CET
TG=1185.50, FL=1180.50, DS FL=1175.04

-3.40% -2.00% 1:6 1:3 1:3

1175.04

FILL AREA~362
CUT AREA~610

FILL VOLUME~118
CUT VOLUME~286

1200 1190 1180 1170

−150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

℄ RAMP B

263+00
F.G.=1190.52

-3.40% -2.00% 1:6 1:3 1:3

1174.91

FILL AREA~235
CUT AREA~835

FILL VOLUME~435
CUT VOLUME~4013

1200 1190 1180 1170

−150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

℄ RAMP B

262+00
F.G.=1188.78

-3.40% -2.00% 1:6 1:3 1:3

1173.68

FILL AREA~0
CUT AREA~1332

FILL VOLUME~0
CUT VOLUME~4931

1200 1190 1180 1170 1160

−150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

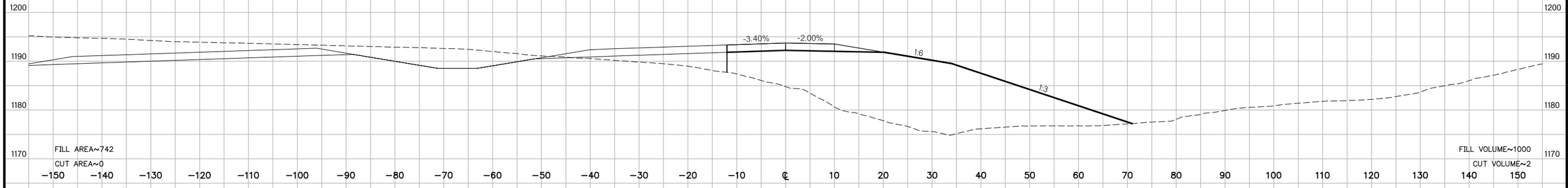
RAMP D

US 81 REALIGNMENT
GRADY COUNTY

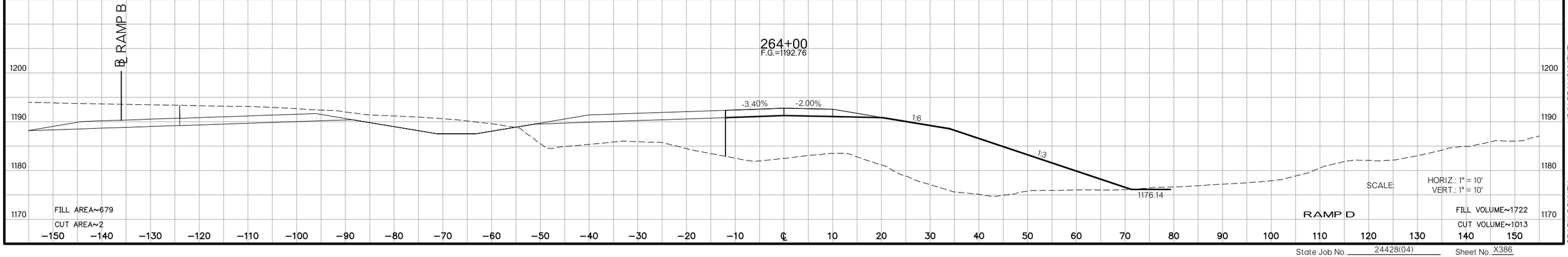
State Job No. 24428(04) Sheet No. X385

PROPOSED
R/W
AUGUST 2017

END PROJECT
END FULL SUPERELEVATION
264+38
F.G.=1193.75



264+00
F.G.=1192.76

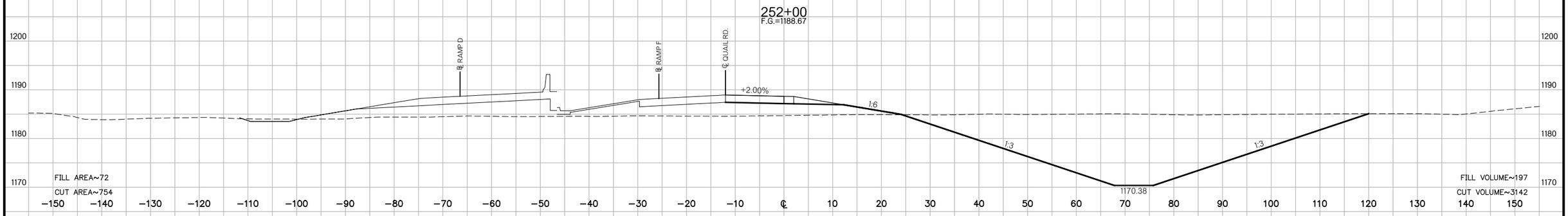


US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X386

PROPOSED
R/W
AUGUST 2017

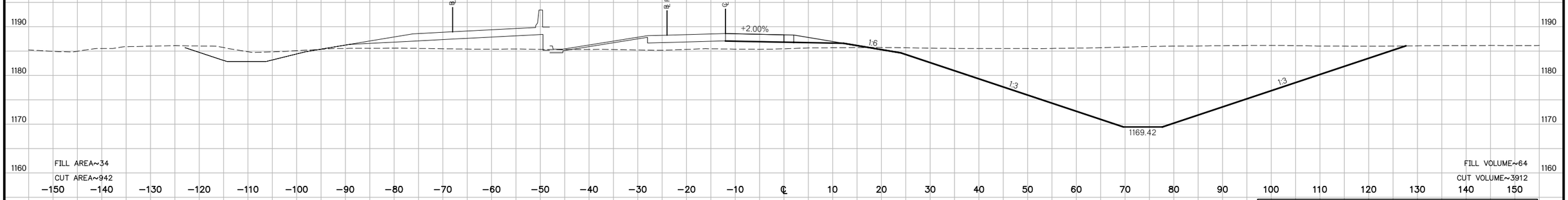
252+00
F.G.=1188.67



FILL AREA~72
CUT AREA~754

FILL VOLUME~197
CUT VOLUME~3142

251+00
F.G.=1188.34

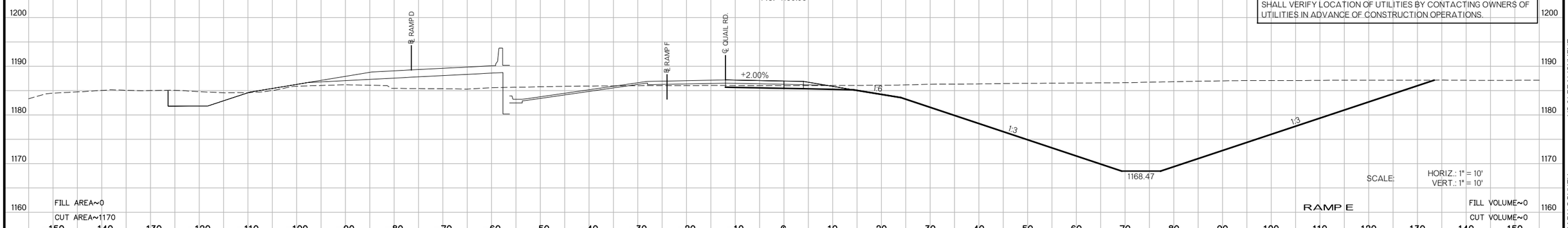


FILL AREA~34
CUT AREA~942

FILL VOLUME~64
CUT VOLUME~3912

THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPES & LOCATIONS OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE TO MAKE THE DETERMINATIONS AS TO THE TYPE & LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING OWNERS OF UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS.

BEGIN PROJECT
250+00
F.G.=1186.98



FILL AREA~0
CUT AREA~1170

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP E

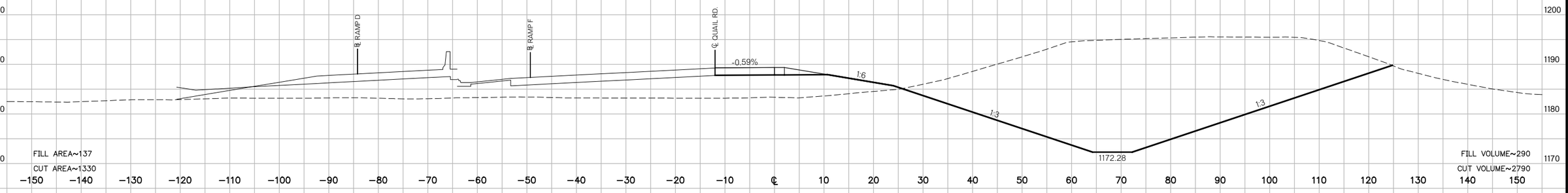
FILL VOLUME~0
CUT VOLUME~0

US 81 REALIGNMENT
GRADY COUNTY

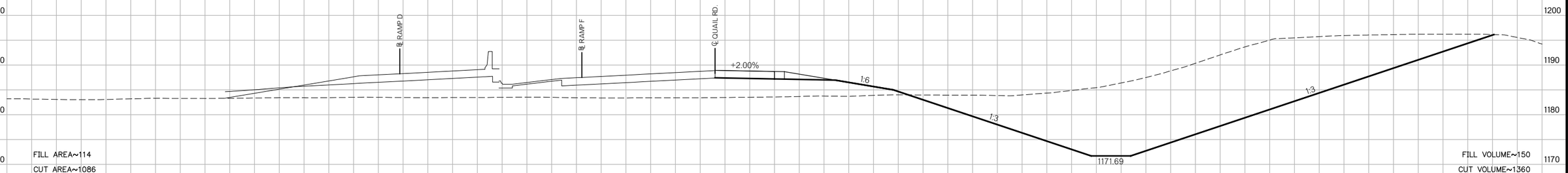
State Job No. 24428(04) Sheet No. X387

PROPOSED
R/W
AUGUST 2017

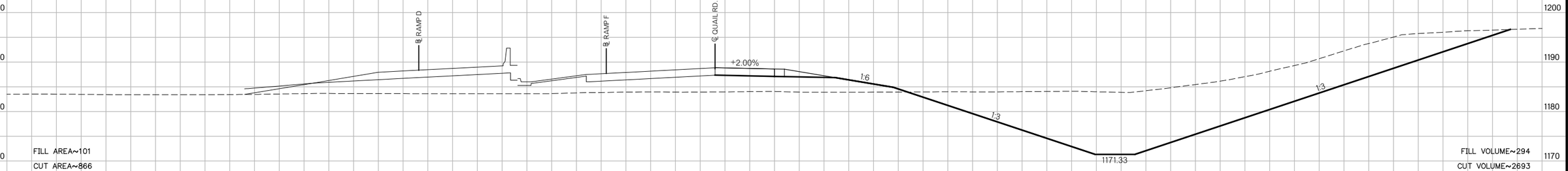
254+00
F.G.=1189.35



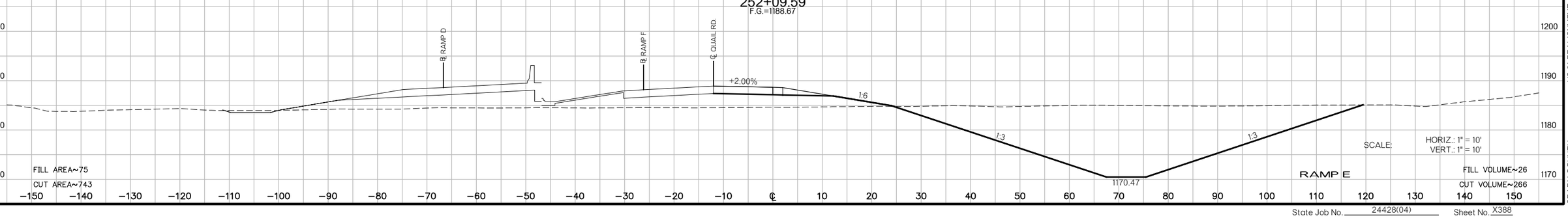
END NORMAL CROWN
253+37.64
F.G.=1188.70



253+00
F.G.=1188.62



252+09.59
F.G.=1188.67



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP E

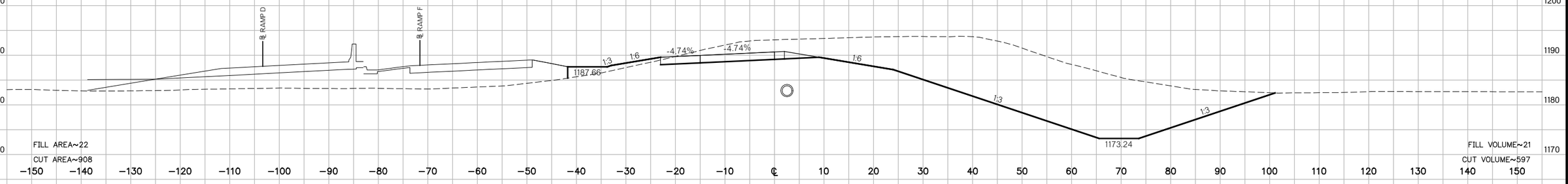
US 81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X388

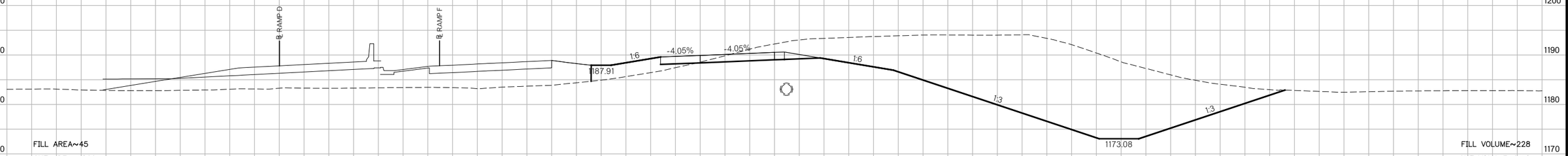
PROPOSED
R/W
AUGUST 2017

255+00
F.G.=1190.66



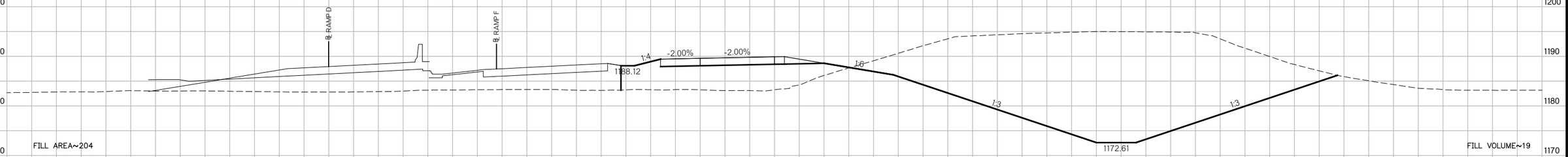
FILL AREA~22
CUT AREA~908
FILL VOLUME~21
CUT VOLUME~597

254+83.30
F.G.=1190.52



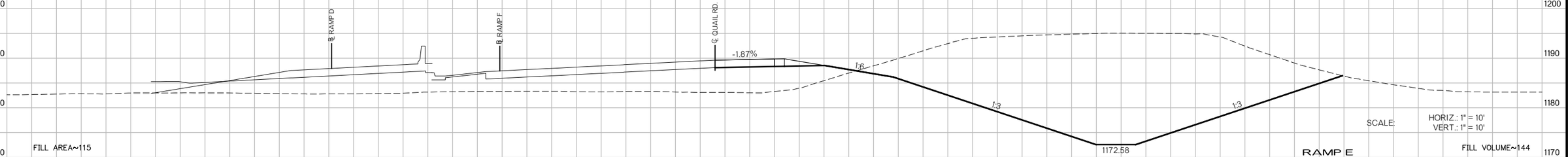
FILL AREA~45
CUT AREA~1022
FILL VOLUME~228
CUT VOLUME~2110

REVERSE CROSS SLOPE STATION
254+33.95
F.G.=1189.90



FILL AREA~204
CUT AREA~1287
FILL VOLUME~19
CUT VOLUME~151

254+30.80
F.G.=1189.85



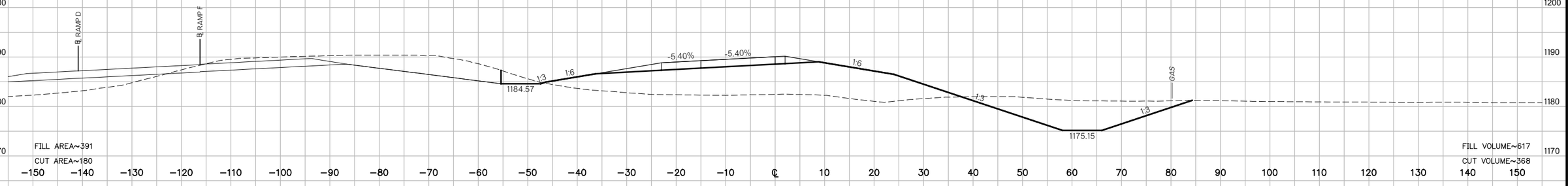
FILL AREA~115
CUT AREA~1297
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'
RAMP E
FILL VOLUME~144
CUT VOLUME~1498

US 81 REALIGNMENT
GRADY COUNTY

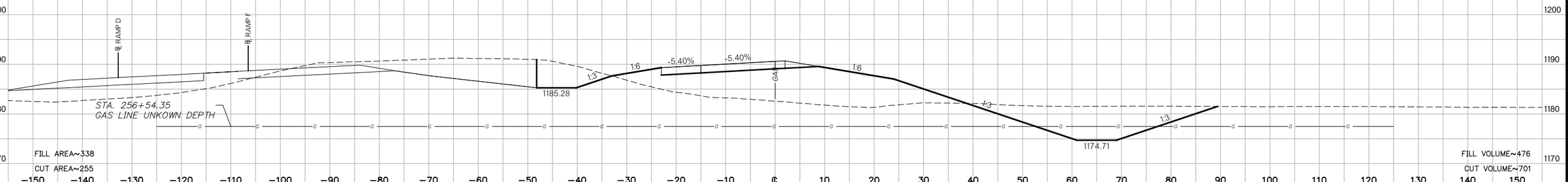
State Job No. 24428(04) Sheet No. X389

PROPOSED
R/W
AUGUST 2017

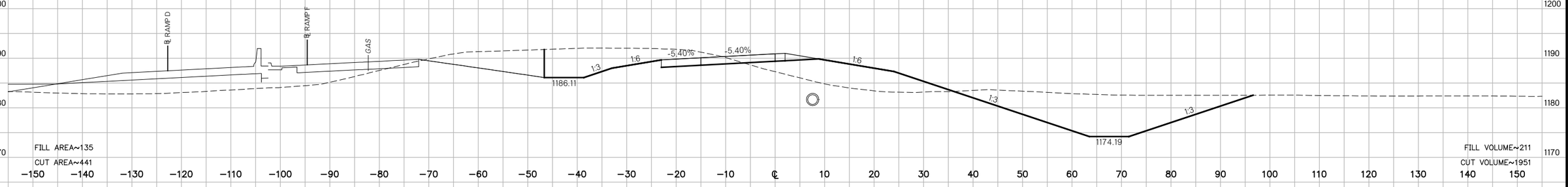
257+00
F.G.=1190.06



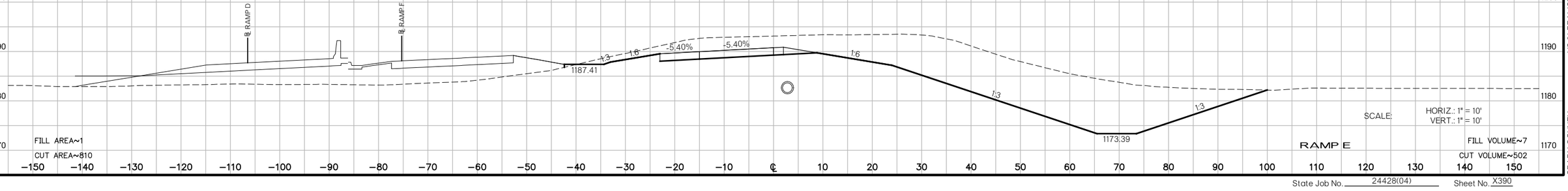
256+54.35
F.G.=1190.58



256+00
F.G.=1190.91



BEGIN FULL SUPERELEVATION
255+15.79
F.G.=1190.78



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP E

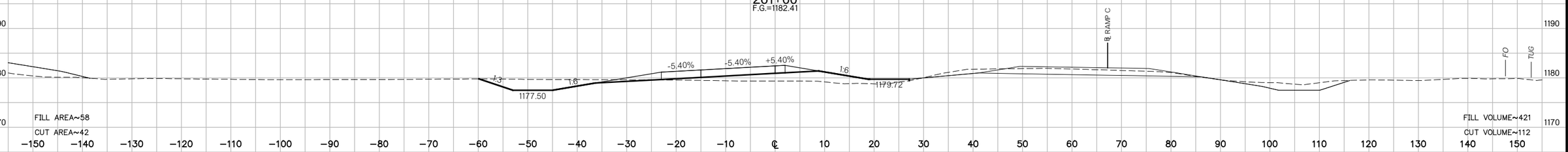
US 81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X390

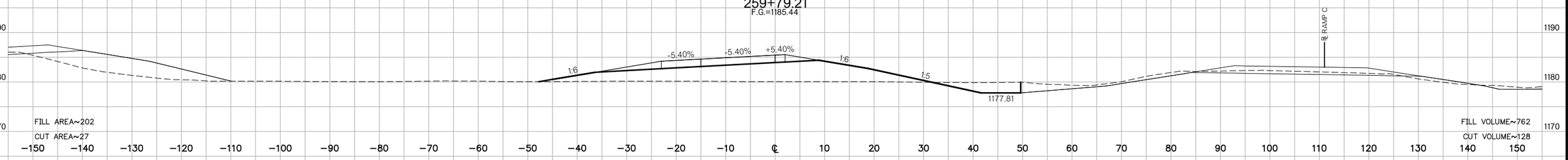
PROPOSED
R/W
AUGUST 2017

261+00
F.G.=1182.41

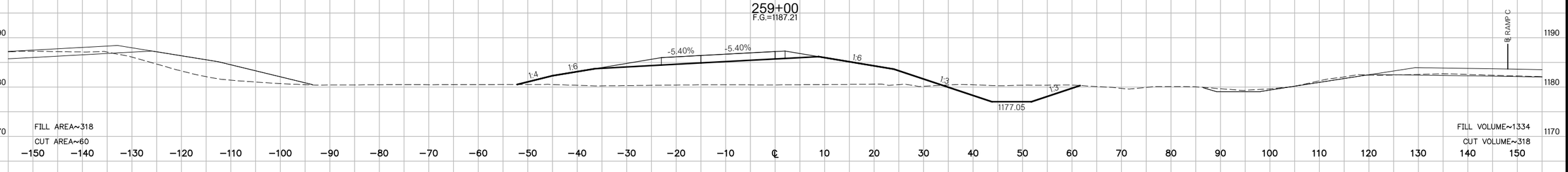


260+00
F.G.=1184.87

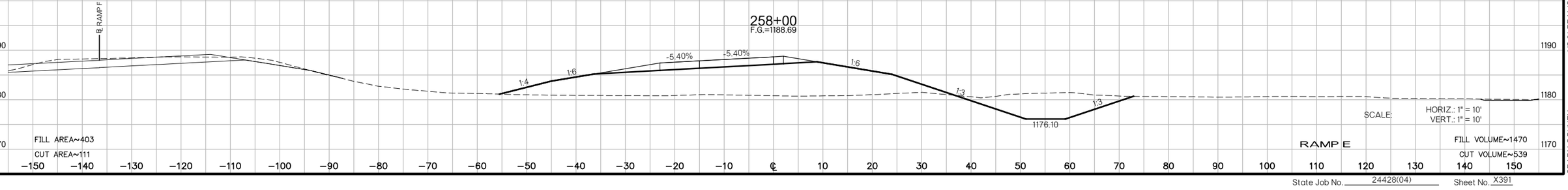
259+79.21
F.G.=1185.44



259+00
F.G.=1187.21



258+00
F.G.=1188.69



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

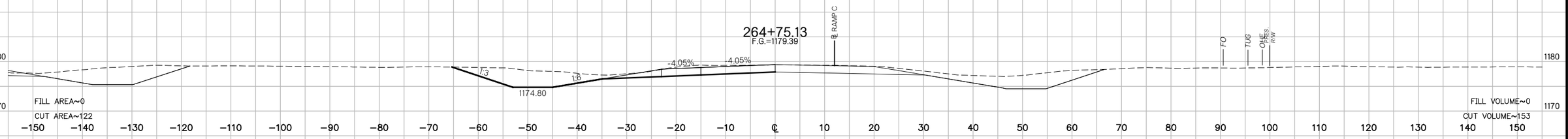
RAMP E

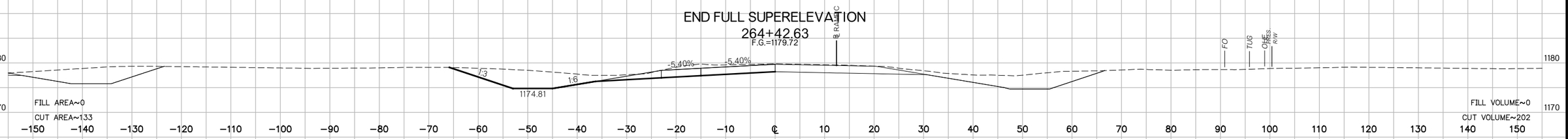
US 81 REALIGNMENT

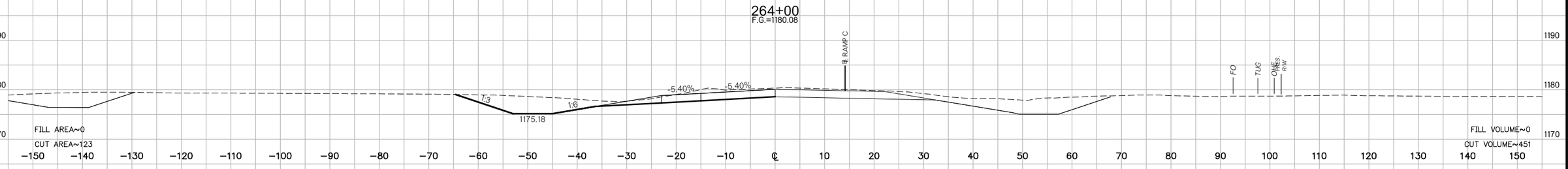
GRADY COUNTY

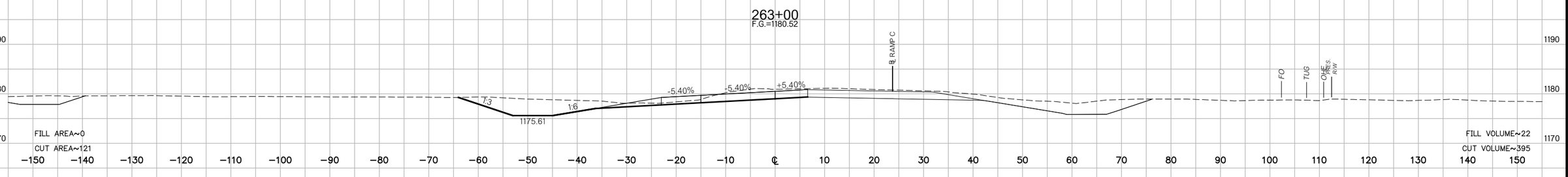
State Job No. 24428(04) Sheet No. X391

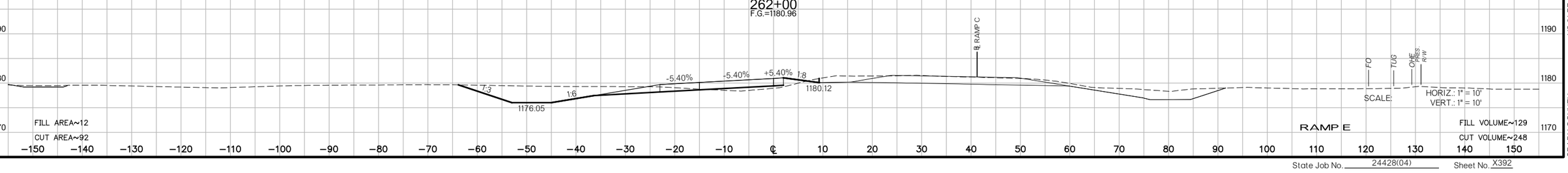
PROPOSED
R/W
AUGUST 2017











SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

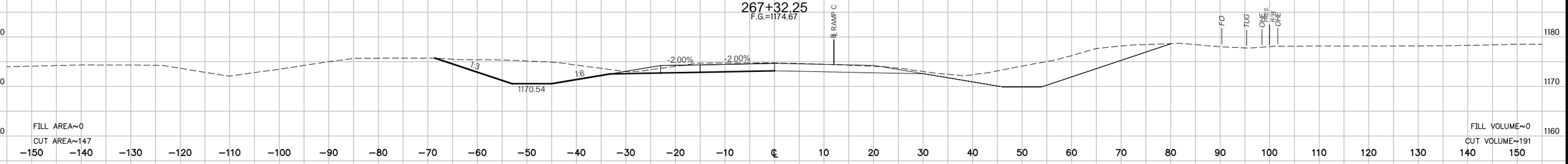
RAMP E

US 81 REALIGNMENT
GRADY COUNTY

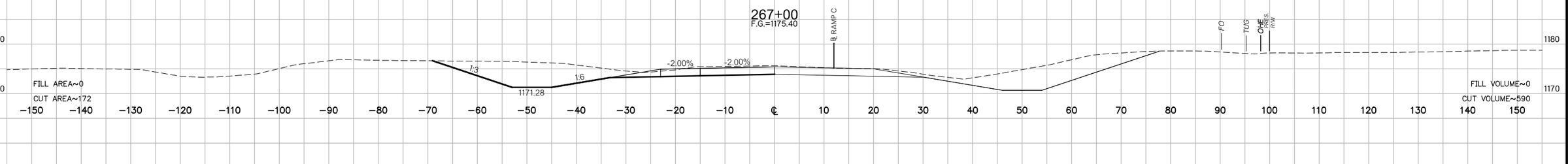
State Job No. 24428(04) Sheet No. X392

PROPOSED
R/W
AUGUST 2017

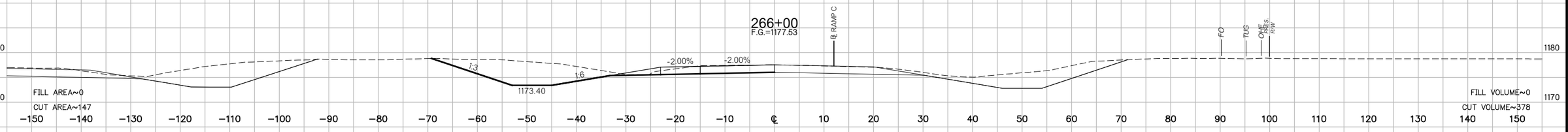
END PROJECT
267+32.25
F.G.=1174.67



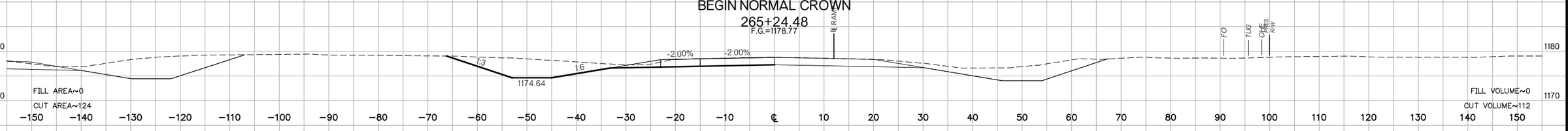
267+00
F.G.=1175.40



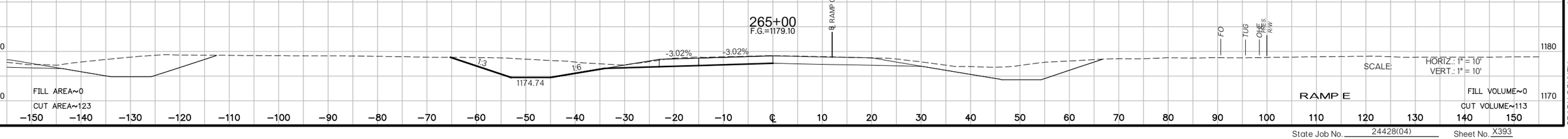
266+00
F.G.=1177.53



BEGIN NORMAL CROWN
265+24.48
F.G.=1178.77



265+00
F.G.=1179.10



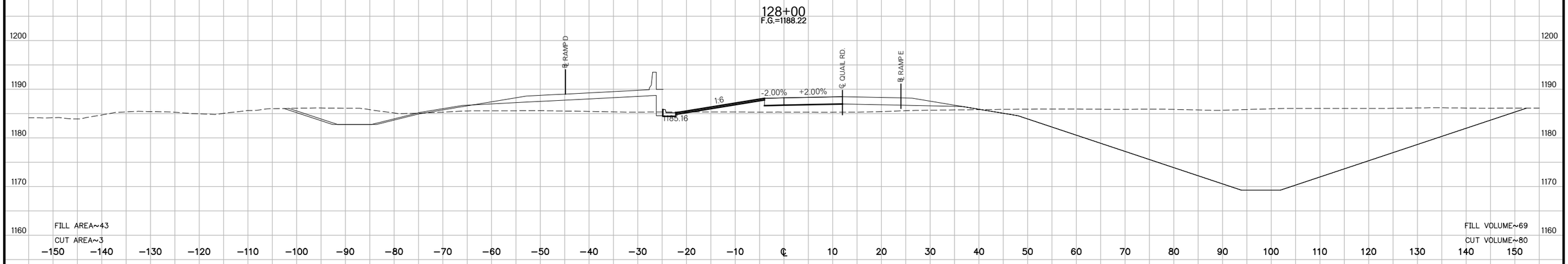
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP E

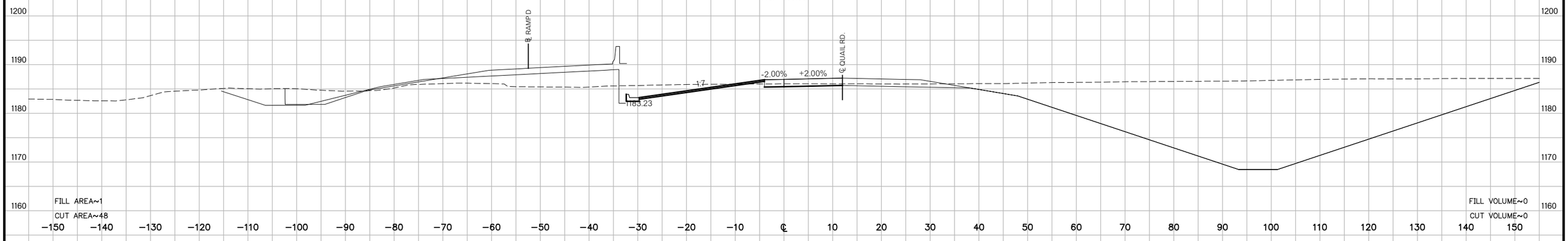
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X393

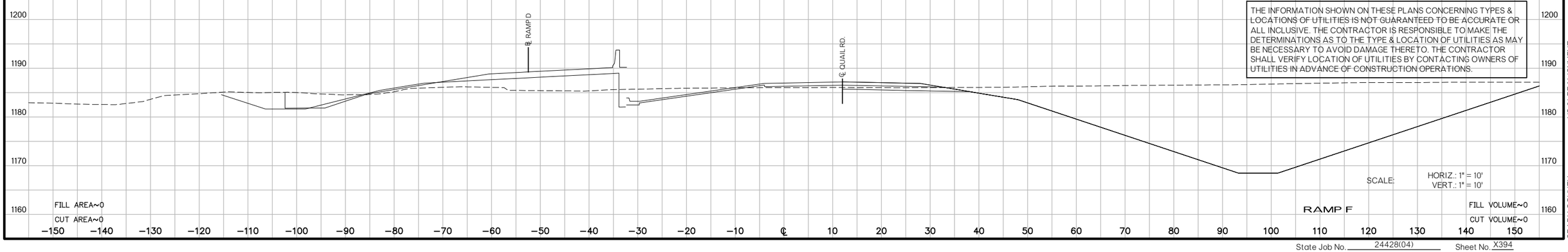
PROPOSED
R/W
AUGUST 2017



BEGIN PROJECT
127+15.41
F.G.=1186.98



127+15.40



THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPES & LOCATIONS OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE TO MAKE THE DETERMINATIONS AS TO THE TYPE & LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING OWNERS OF UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS.

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

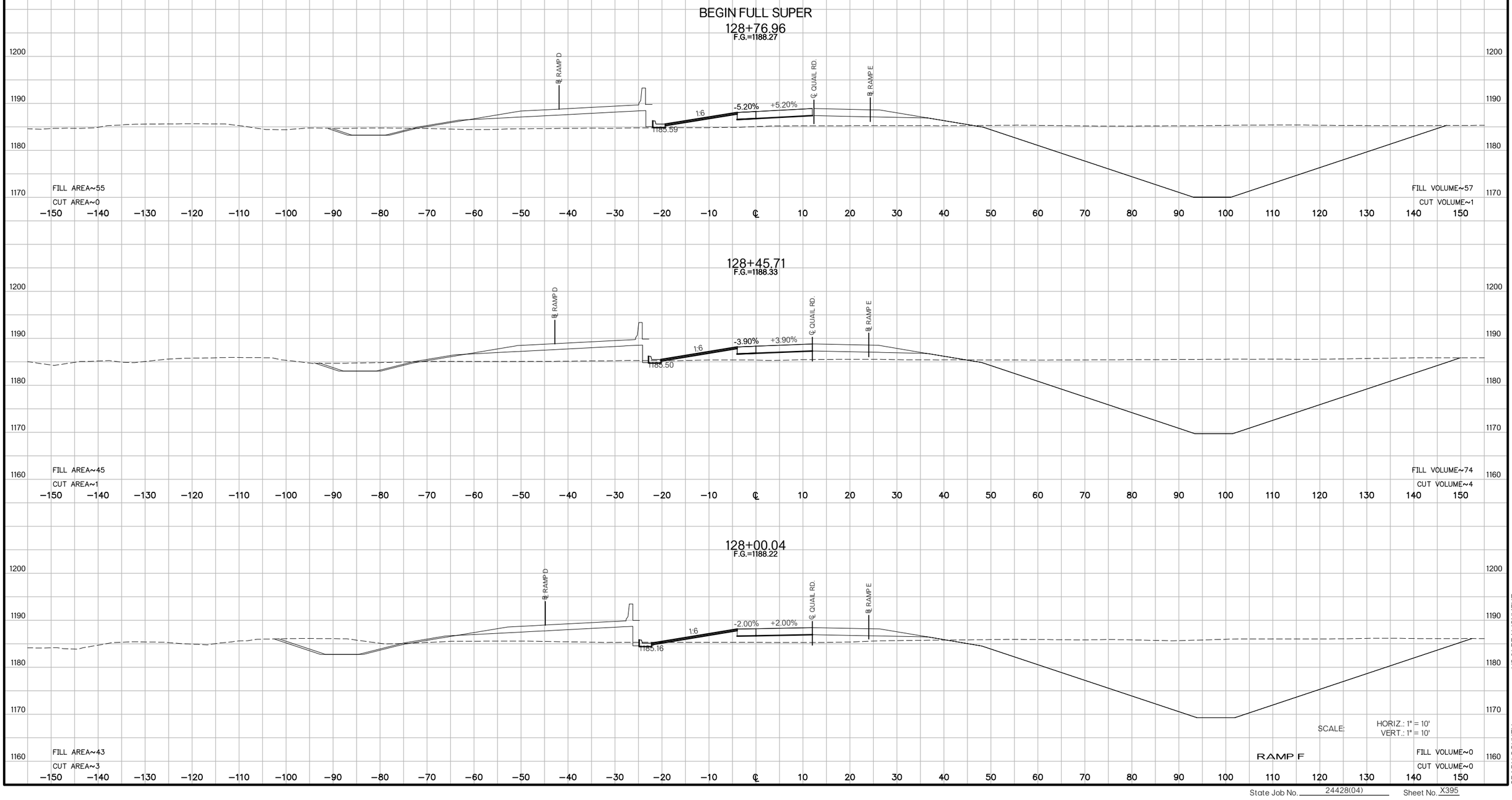
RAMP F

US 81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X394

PROPOSED
R/W
AUGUST 2017

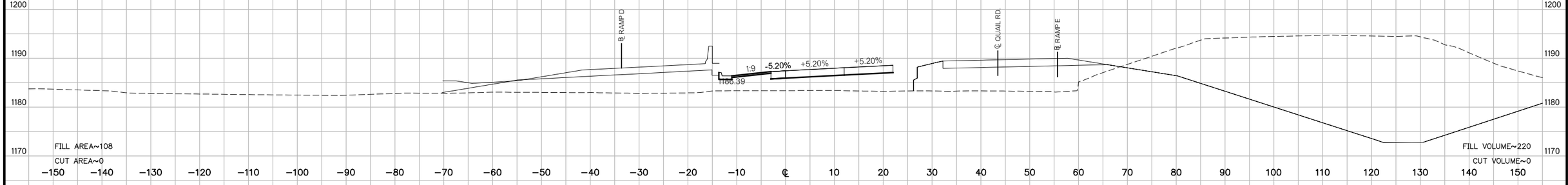


US 81 REALIGNMENT
GRADY COUNTY

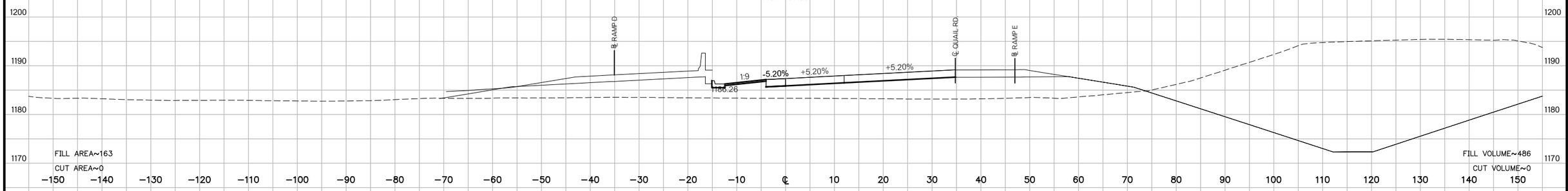
State Job No. 24428(04) Sheet No. X395

PROPOSED
R/W
AUGUST 2017

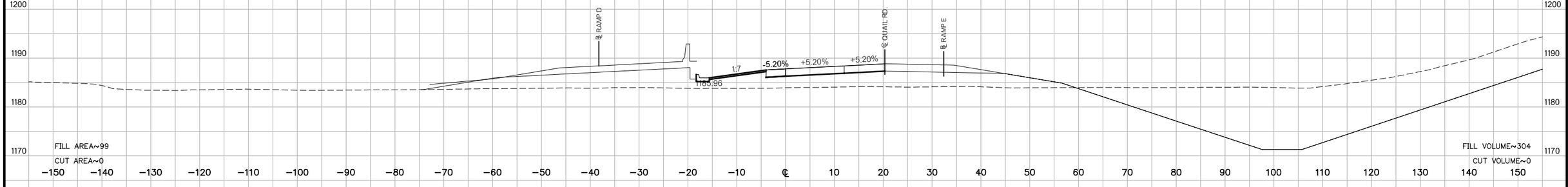
131+43.82
F.G.=1187.43



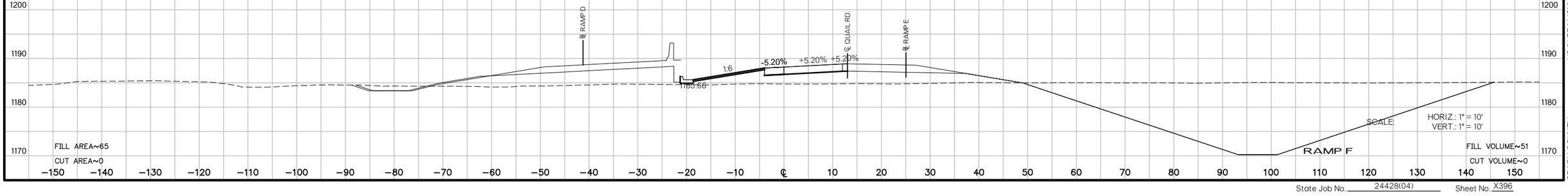
131+00
F.G.=1187.36



130+00
F.G.=1187.79



129+00
F.G.=1188.25



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

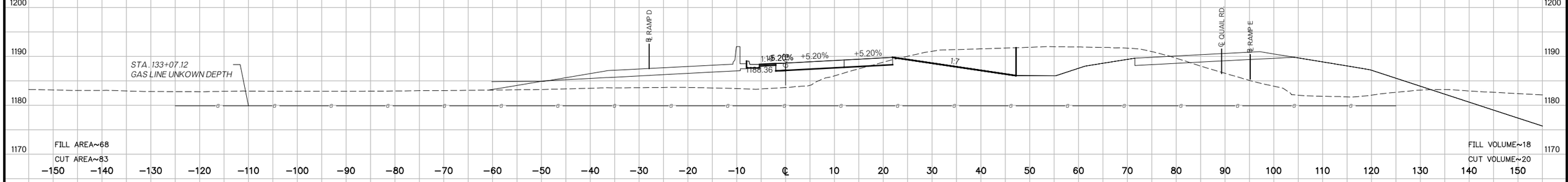
RAMP F

US 81 REALIGNMENT
GRADY COUNTY

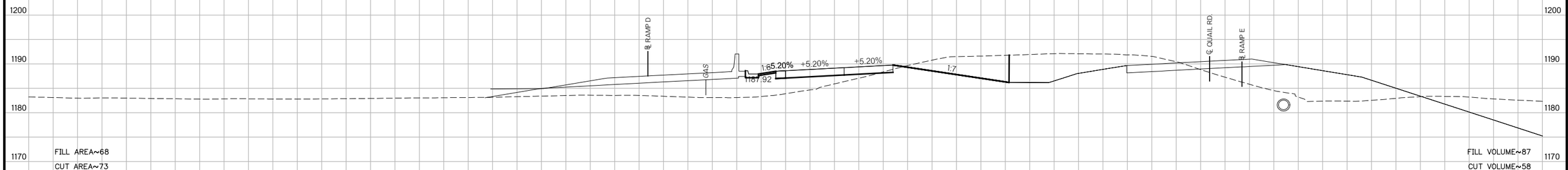
State Job No. 24428(04) Sheet No. X396

PROPOSED
R/W
AUGUST 2017

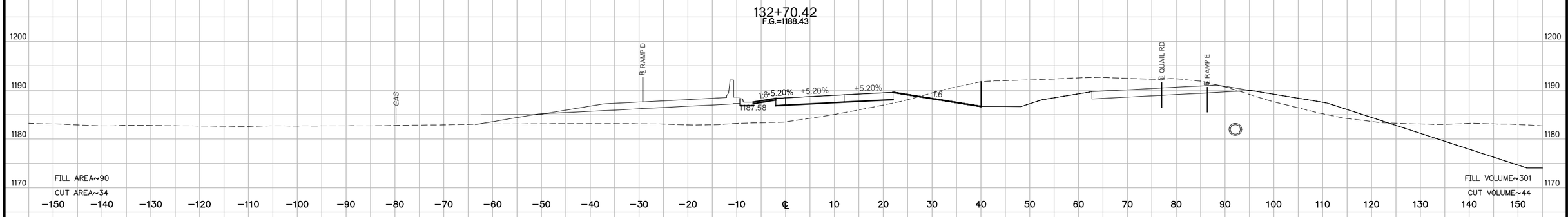
133+07.12
F.G.=1188.64



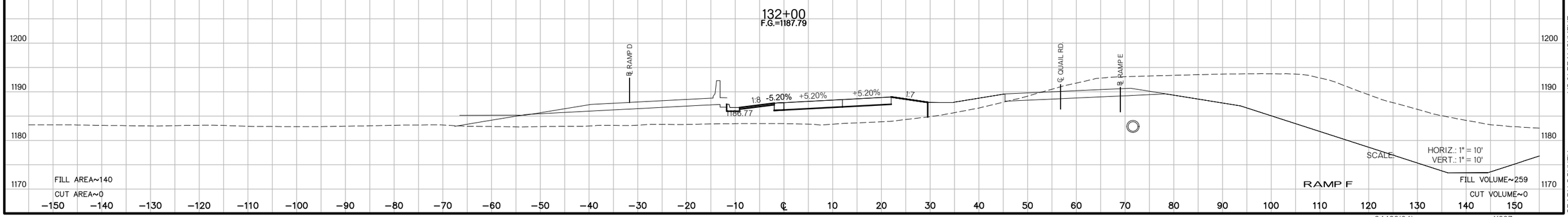
133+00
F.G.=1188.61



132+70.42
F.G.=1188.43



132+00
F.G.=1187.79



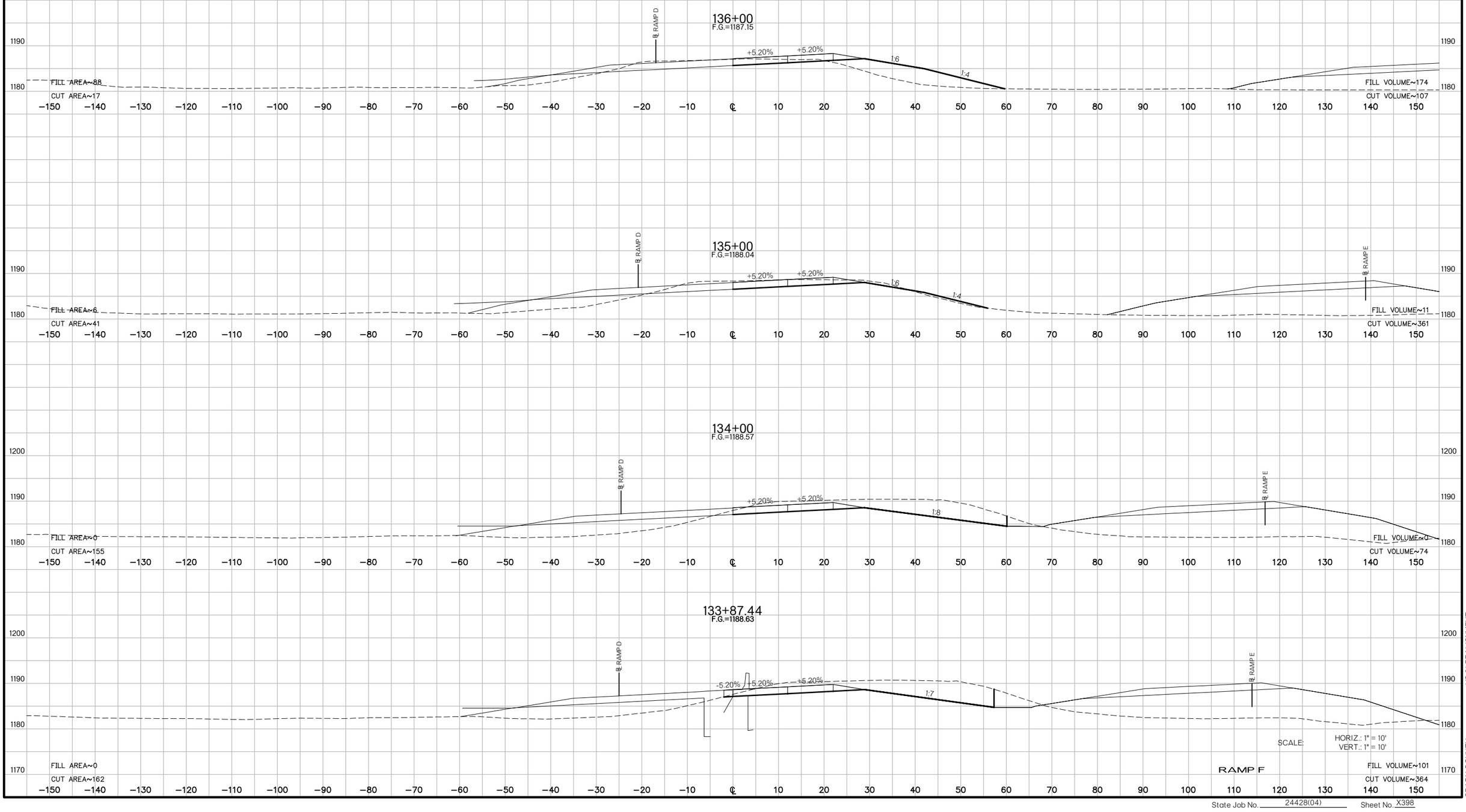
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP F

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X397

PROPOSED
R/W
AUGUST 2017



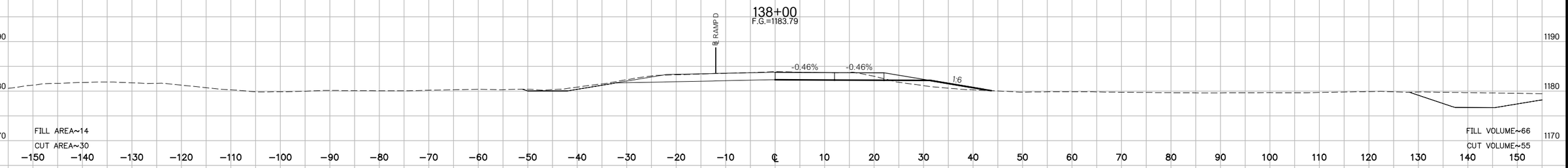
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP F

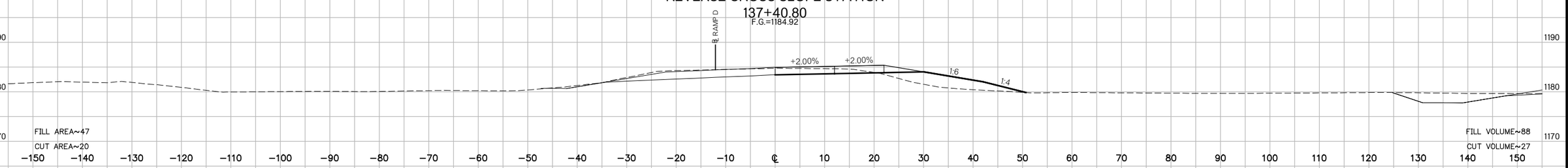
US 81 REALIGNMENT
GRADY COUNTY

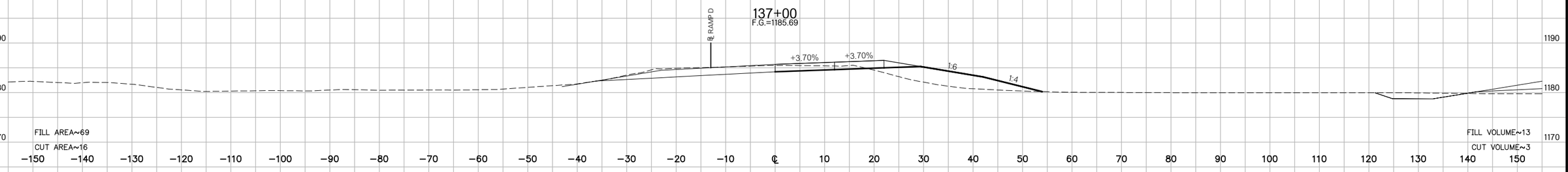
State Job No. 24428(04) Sheet No. X398

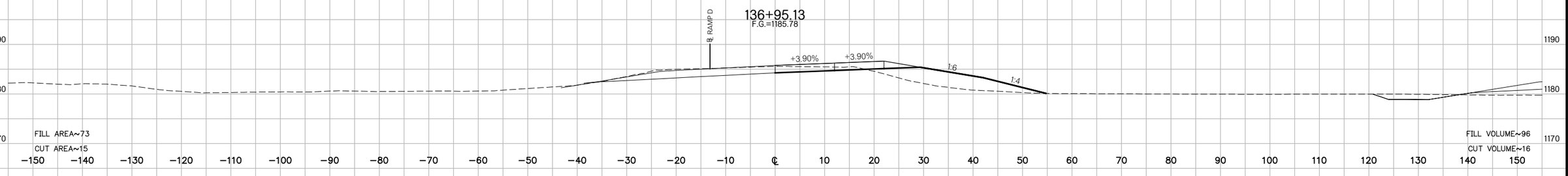
PROPOSED
R/W
AUGUST 2017



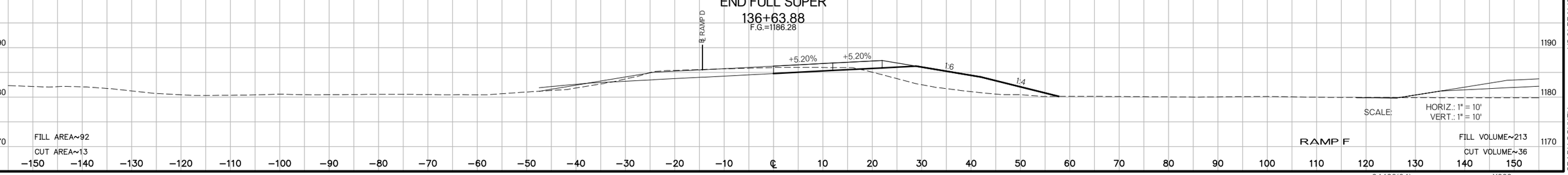
REVERSE CROSS SLOPE STATION







END FULL SUPER



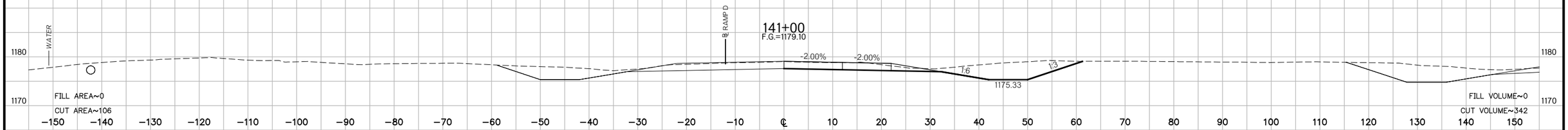
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

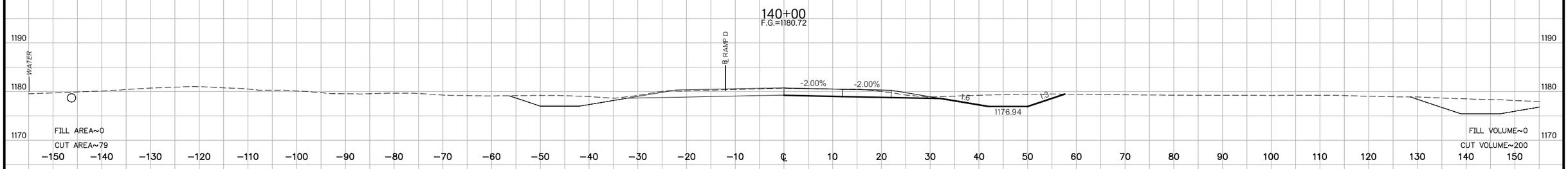
RAMP F

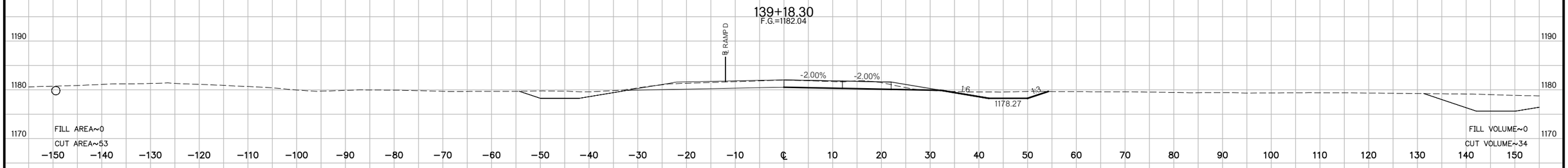
US 81 REALIGNMENT
GRADY COUNTY

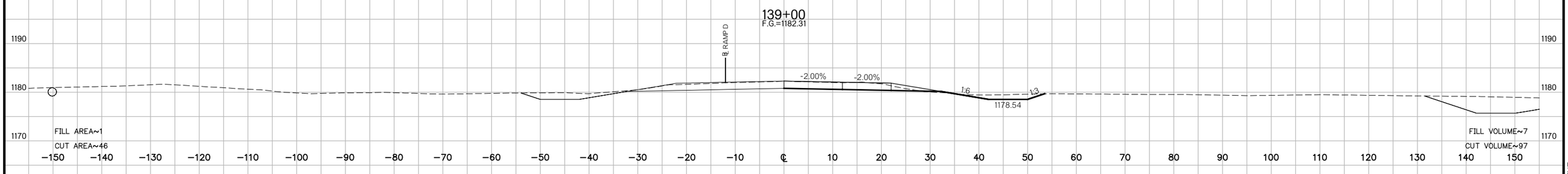
State Job No. 24428(04) Sheet No. X399

PROPOSED
R/W
AUGUST 2017

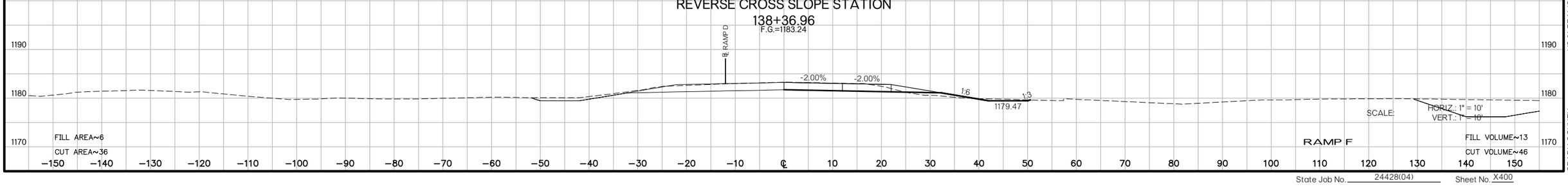








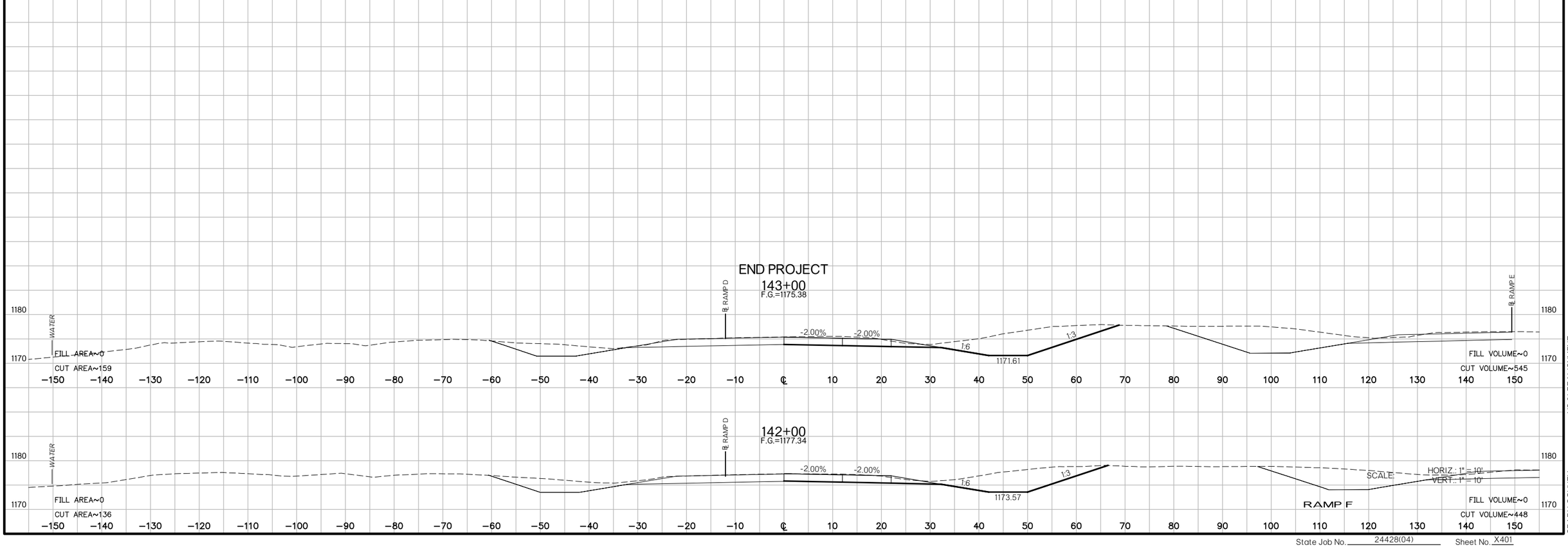
REVERSE CROSS SLOPE STATION



US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X400

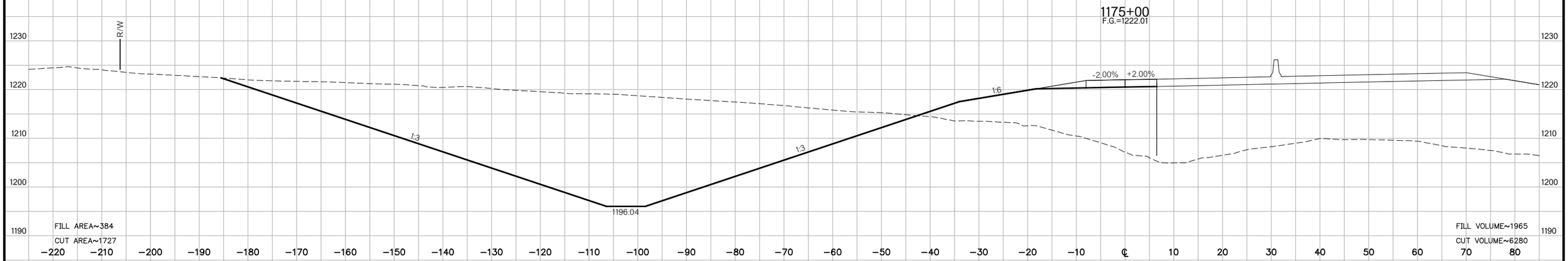
PROPOSED
R/W
AUGUST 2017

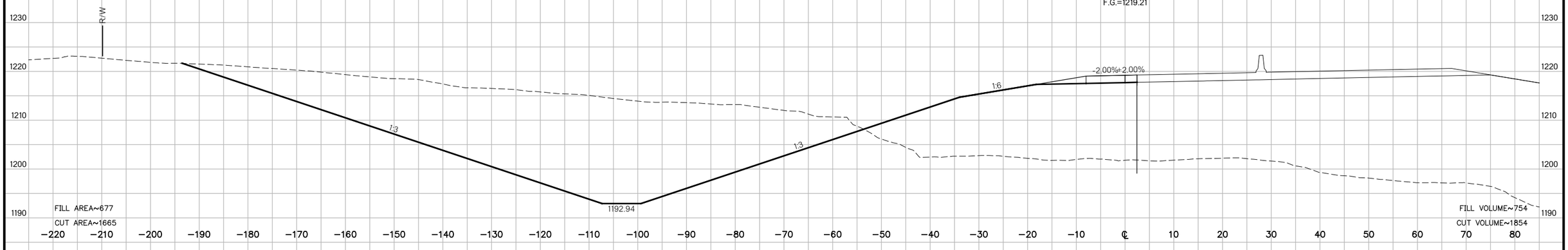


US 81 REALIGNMENT
GRADY COUNTY

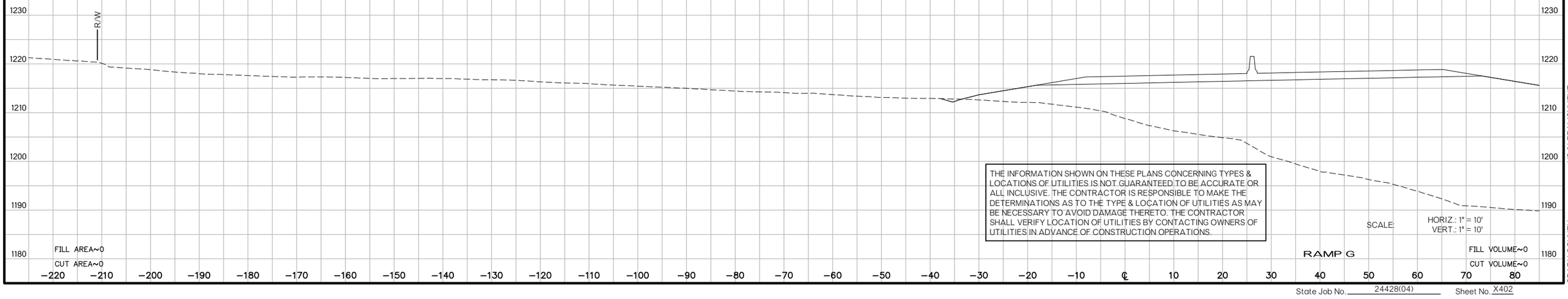
State Job No. 24428(04) Sheet No. X401

PROPOSED
R/W
AUGUST 2017





BEGIN PROJECT
1173+39.86



THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPES & LOCATIONS OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE TO MAKE THE DETERMINATIONS AS TO THE TYPE & LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING OWNERS OF UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS.

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

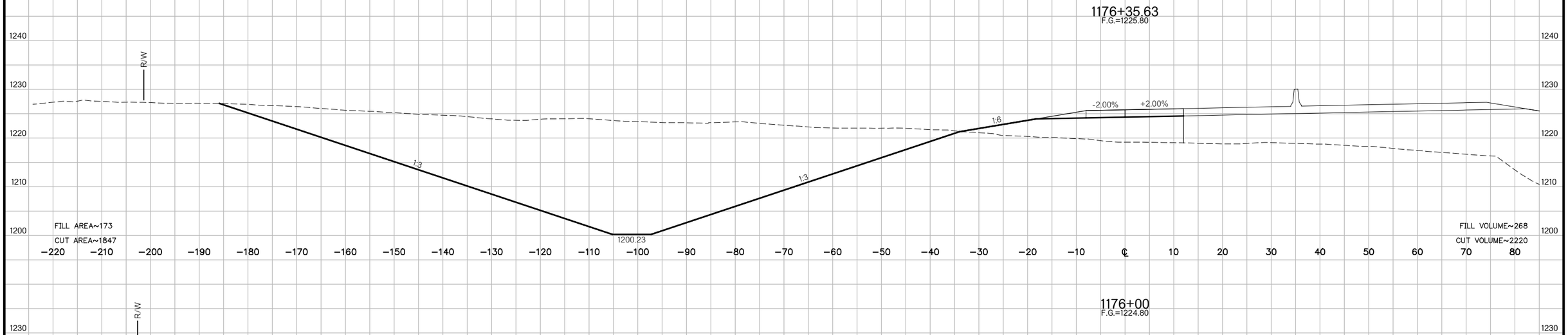
RAMP G

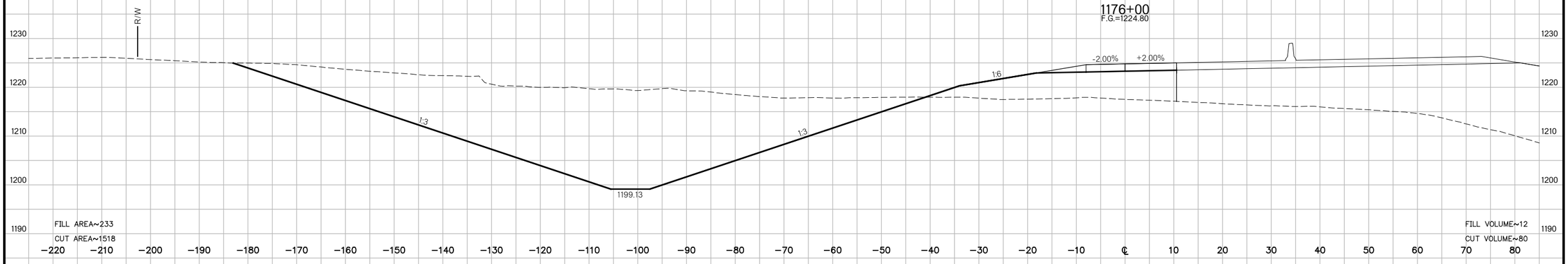
US 81 REALIGNMENT

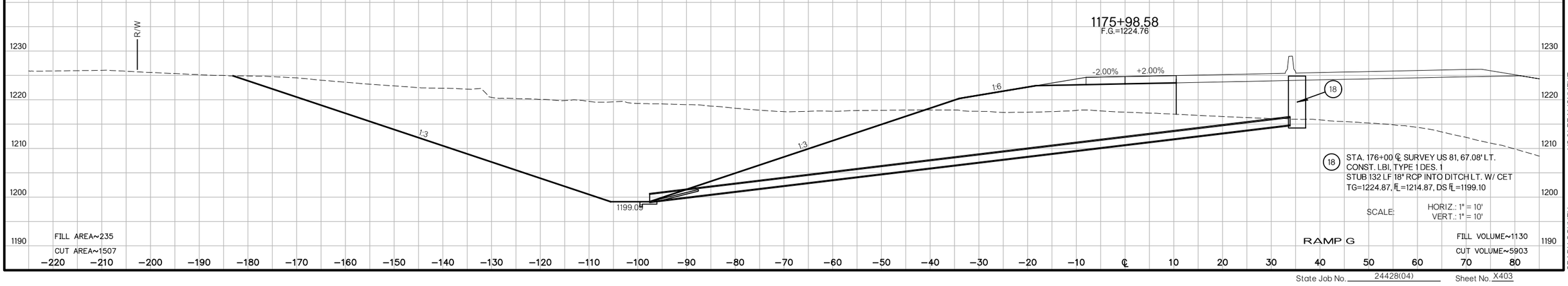
GRADY COUNTY

State Job No. 24428(04) Sheet No. X402

PROPOSED
R/W
AUGUST 2017



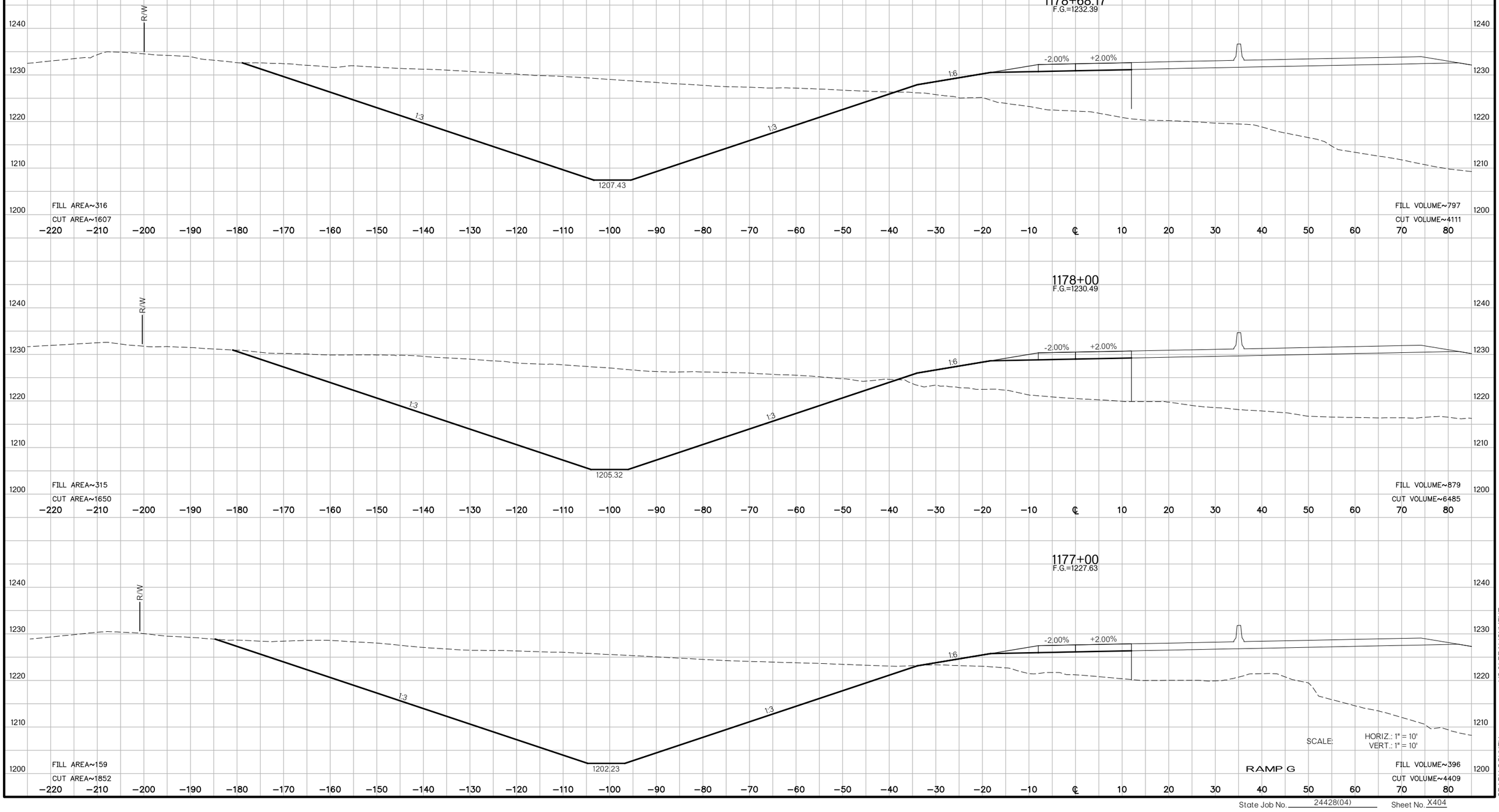




US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X403

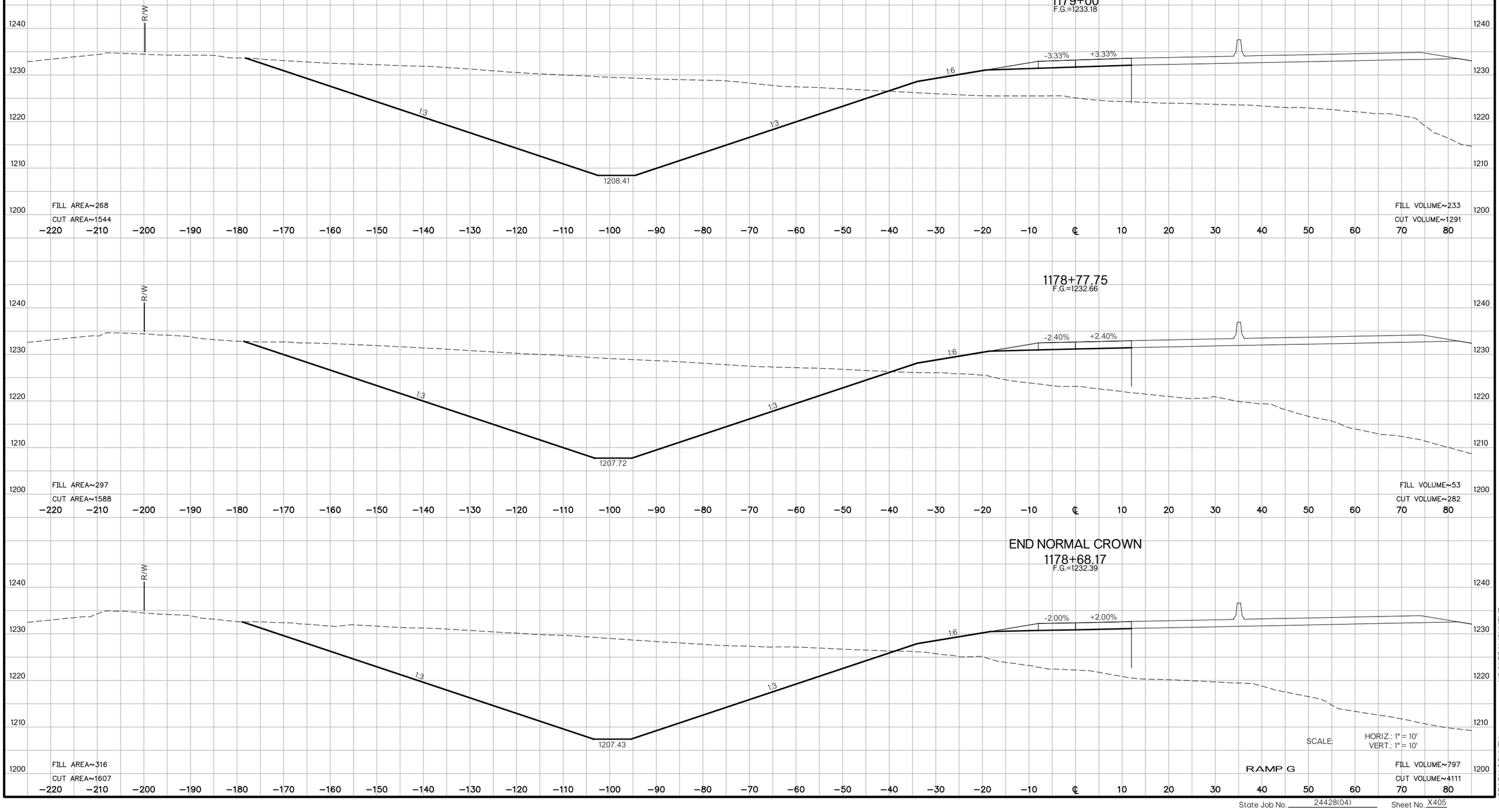
PROPOSED
R/W
AUGUST 2017



US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X404

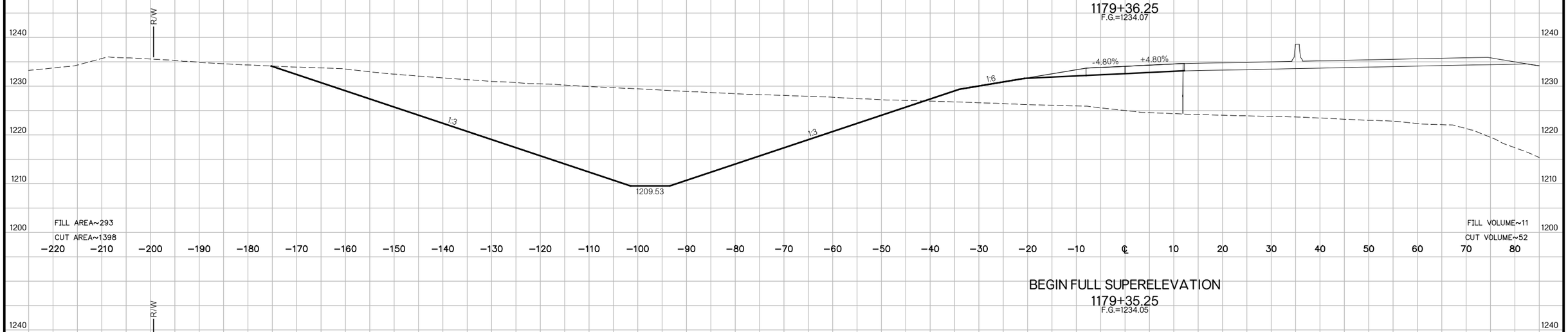
PROPOSED
R/W
AUGUST 2017



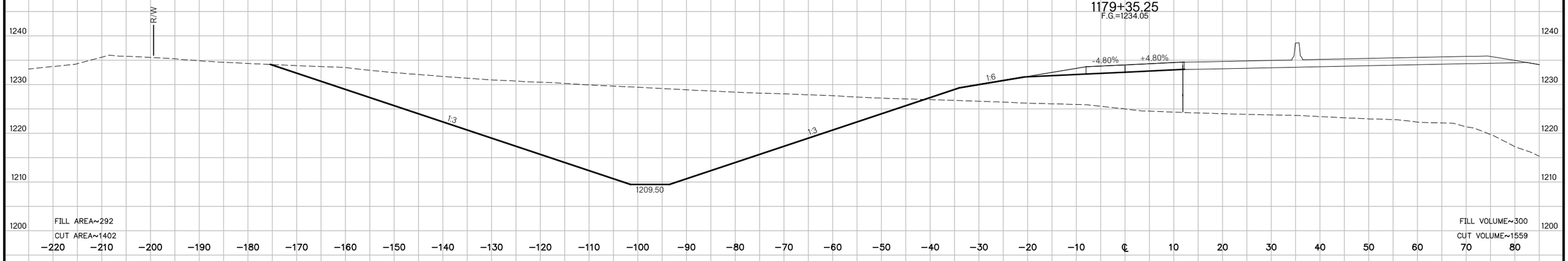
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X405

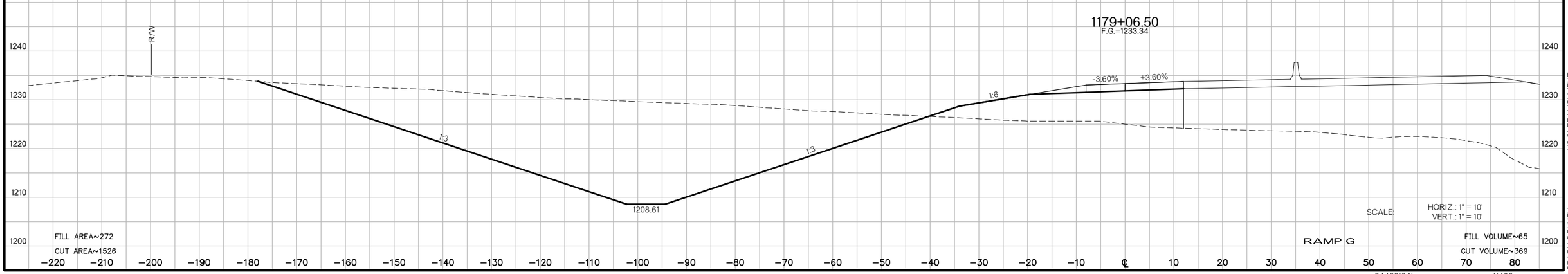
PROPOSED
R/W
AUGUST 2017



BEGIN FULL SUPERELEVATION
1179+35.25
F.G.=1234.05



1179+06.50
F.G.=1233.34



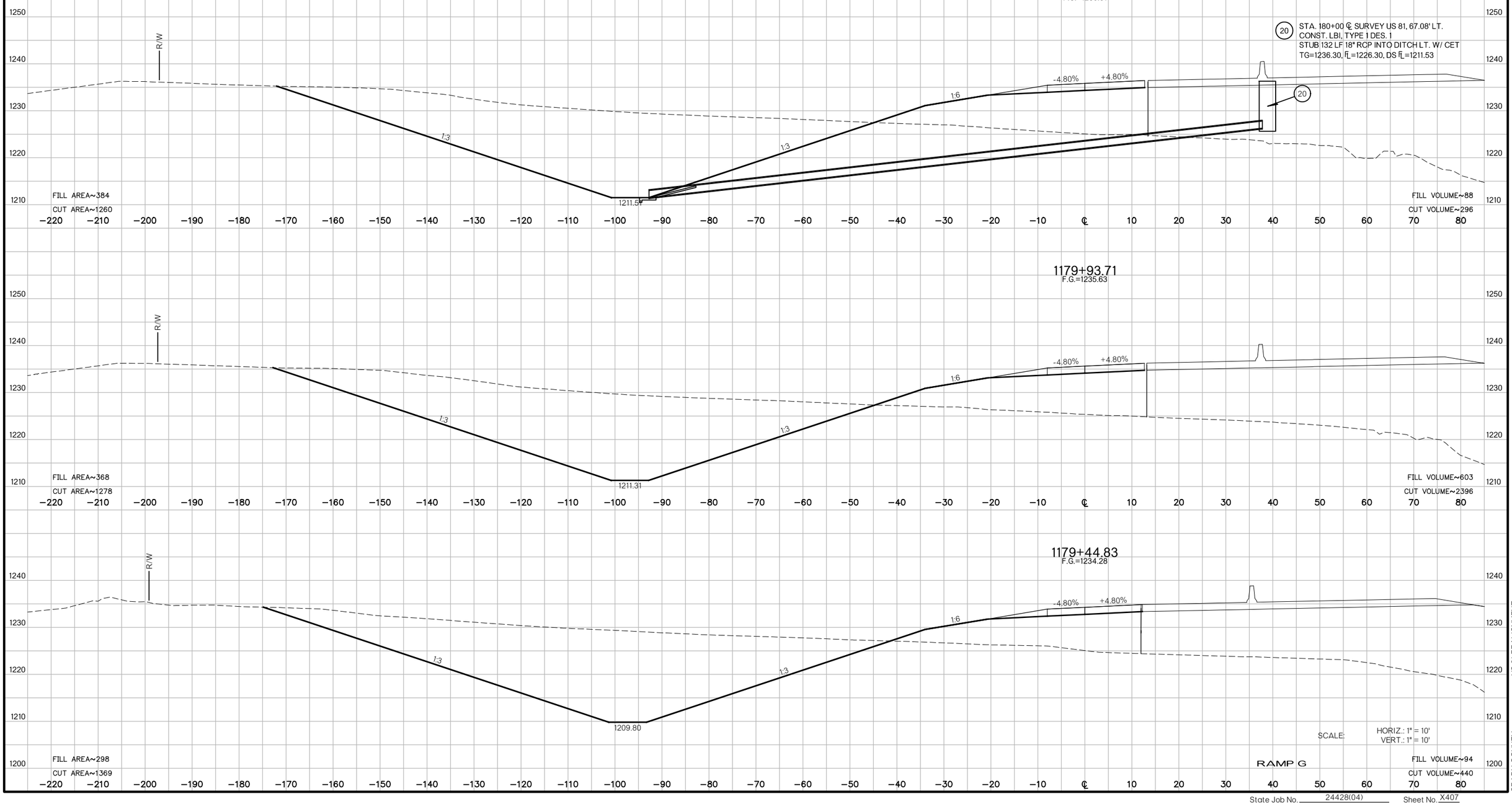
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP G

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X406

PROPOSED
R/W
AUGUST 2017

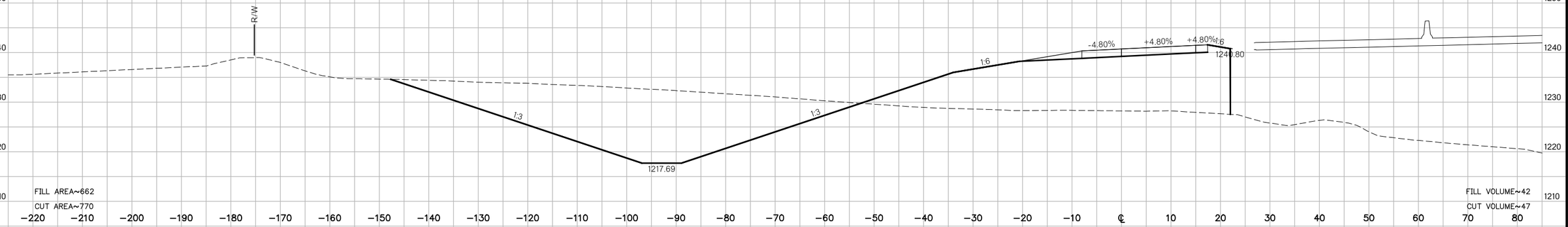


US 81 REALIGNMENT
GRADY COUNTY

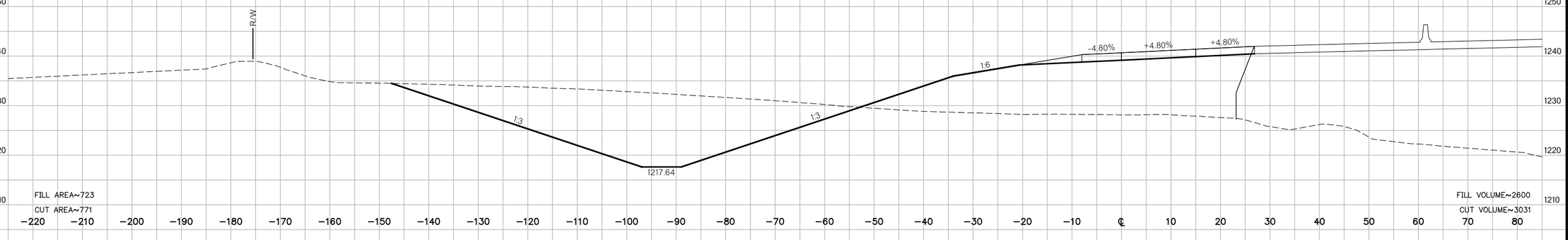
State Job No. 24428(04) Sheet No. X407

PROPOSED
R/W
AUGUST 2017

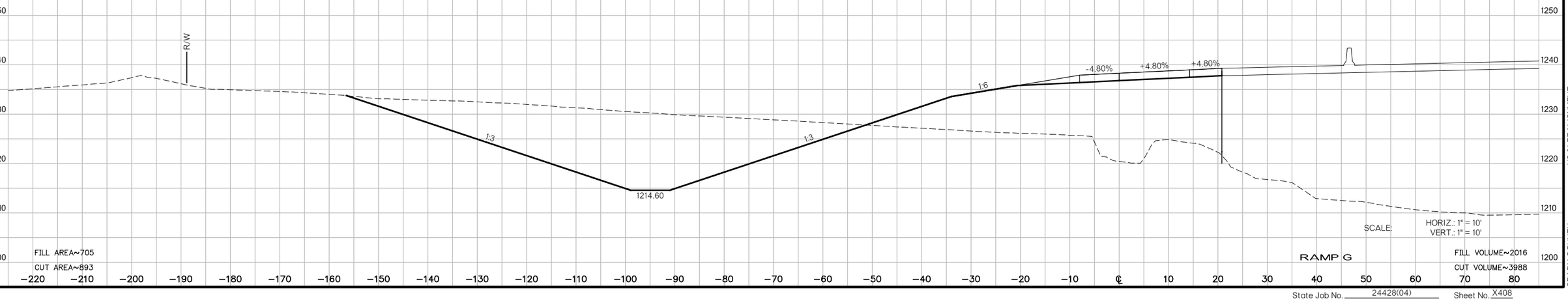
1182+00
F.G.=1240.72



1181+98.35
F.G.=1240.68



1181+00
F.G.=1238.30



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

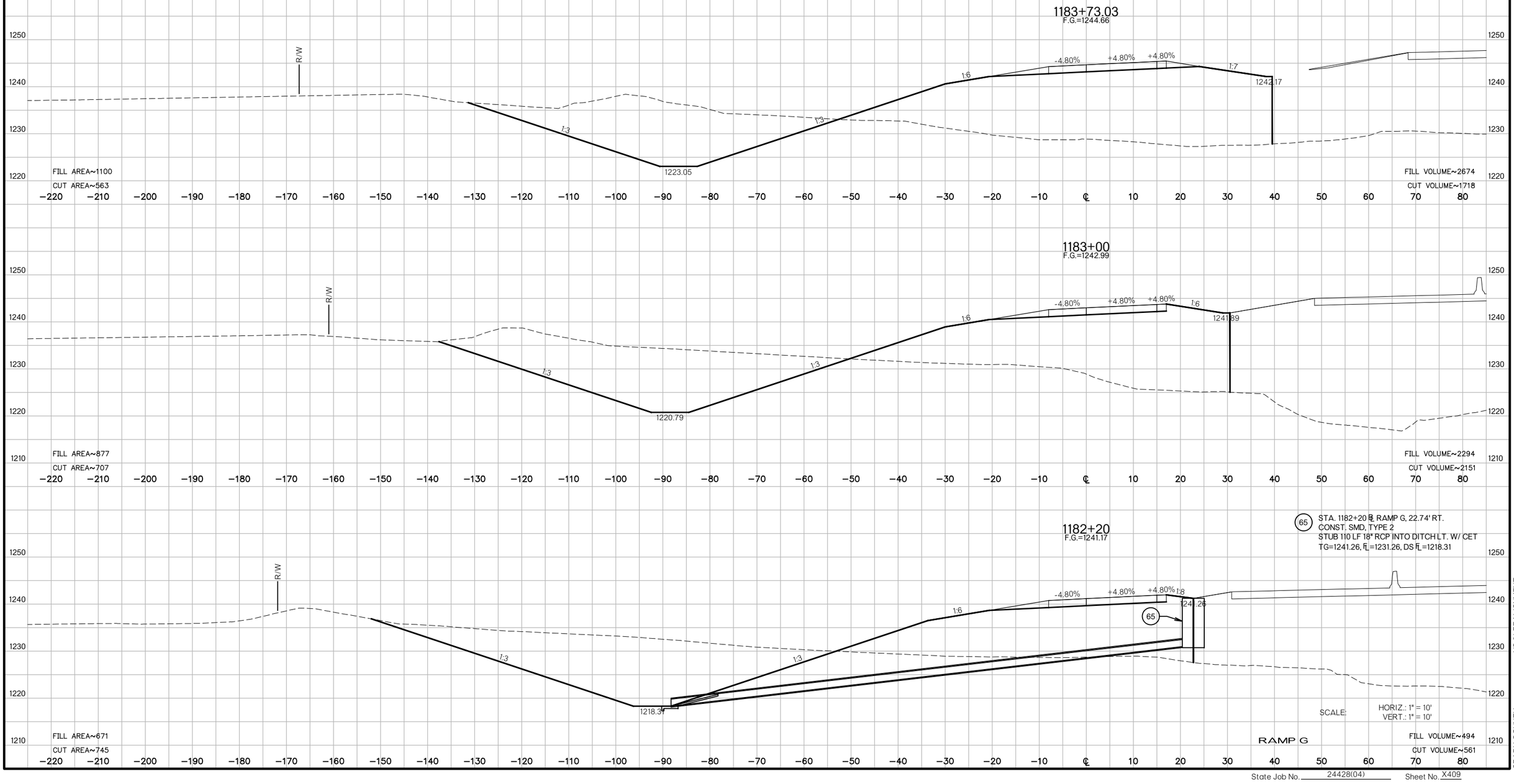
RAMP G

US 81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X408

PROPOSED
R/W
AUGUST 2017



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP G

US 81 REALIGNMENT

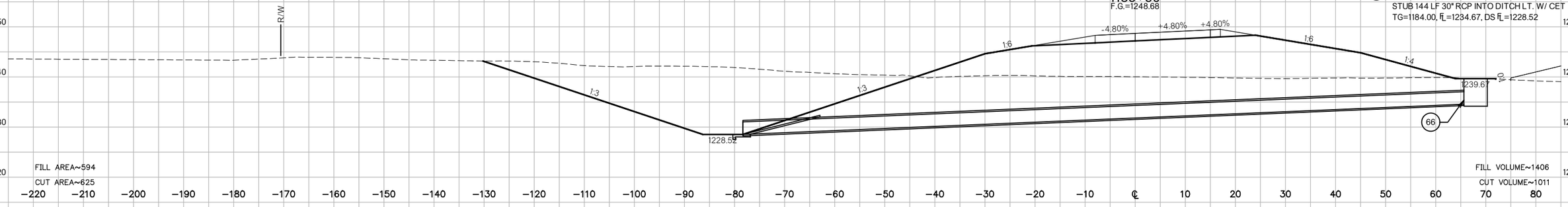
GRADY COUNTY

State Job No. 24428(04) Sheet No. X409

PROPOSED
R/W
AUGUST 2017

1185+50
F.G.=1248.68

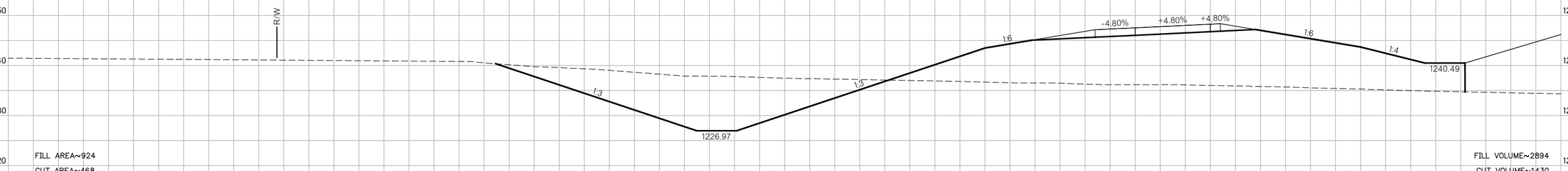
(66) STA. 1185+50 ℄ RAMP G, 67.95' RT.
CONST. SMD, TYPE 2A
STUB 144 LF 30" RCP INTO DITCH LT. W/ CET
TG=1184.00, FL=1234.67, DS FL=1228.52



FILL AREA~594
CUT AREA~625
FILL VOLUME~1406
CUT VOLUME~1011

−220 −210 −200 −190 −180 −170 −160 −150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80

1185+00
F.G.=1247.54

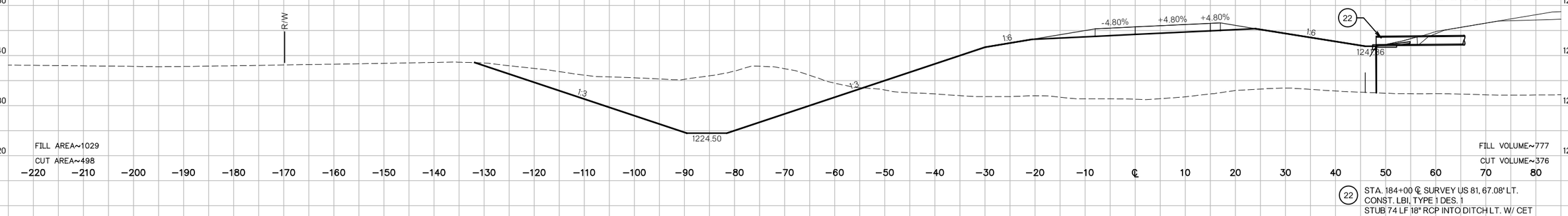


FILL AREA~924
CUT AREA~468
FILL VOLUME~2894
CUT VOLUME~1430

−220 −210 −200 −190 −180 −170 −160 −150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80

1184+20
F.G.=1245.72

(22) STA. 184+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 74 LF 18" RCP INTO DITCH LT. W/ CET
TG=1247.72, FL=1242.72, DS FL=1242.18

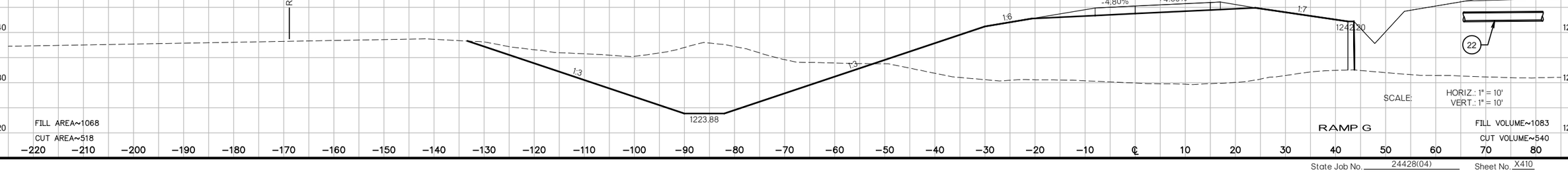


FILL AREA~1029
CUT AREA~498
FILL VOLUME~777
CUT VOLUME~376

−220 −210 −200 −190 −180 −170 −160 −150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80

1184+00
F.G.=1245.27

(22) STA. 184+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 74 LF 18" RCP INTO DITCH LT. W/ CET
TG=1247.72, FL=1242.72, DS FL=1242.18



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP G

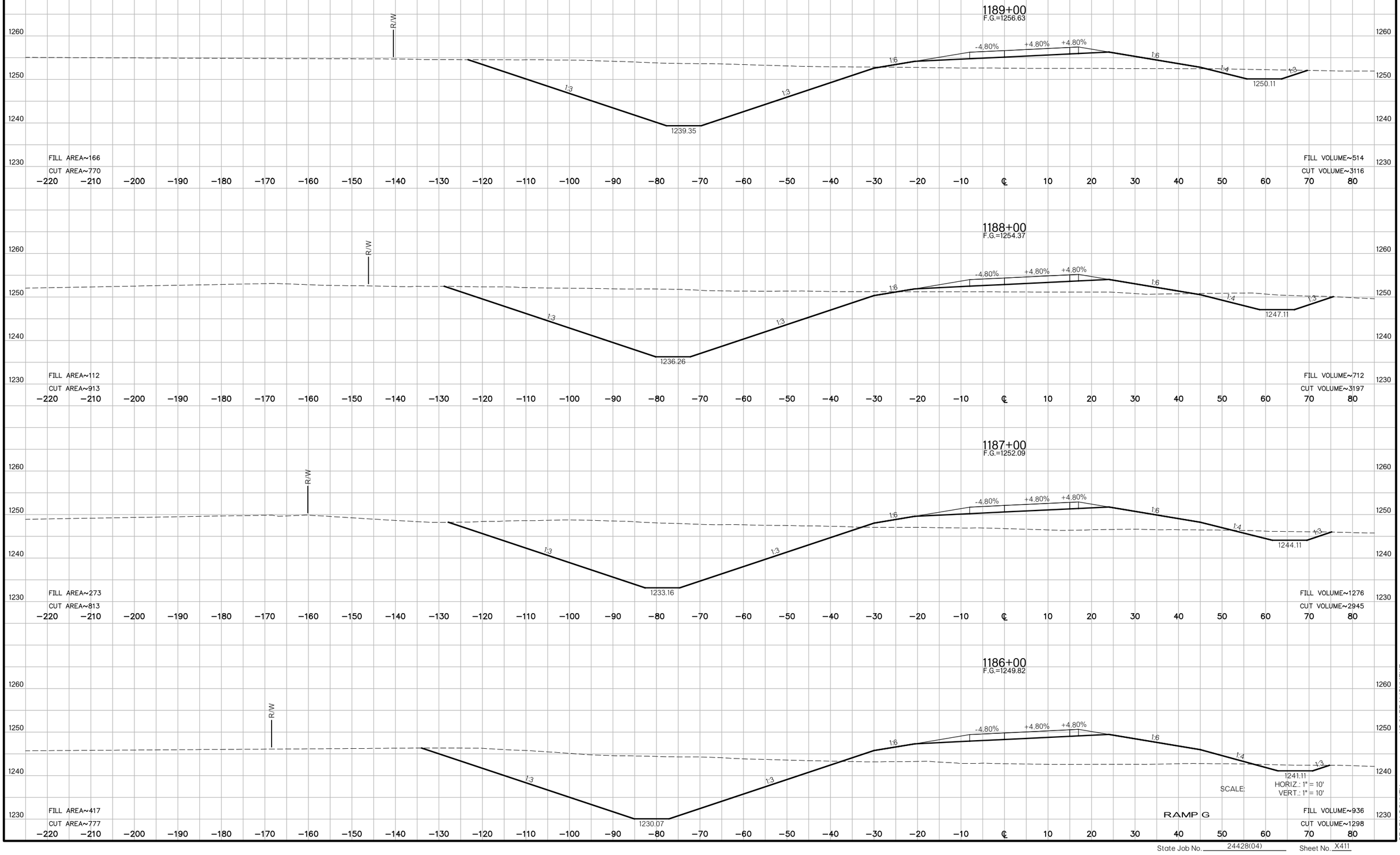
FILL AREA~1068
CUT AREA~518
FILL VOLUME~1083
CUT VOLUME~540

−220 −210 −200 −190 −180 −170 −160 −150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X410

PROPOSED
R/W
AUGUST 2017



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP G

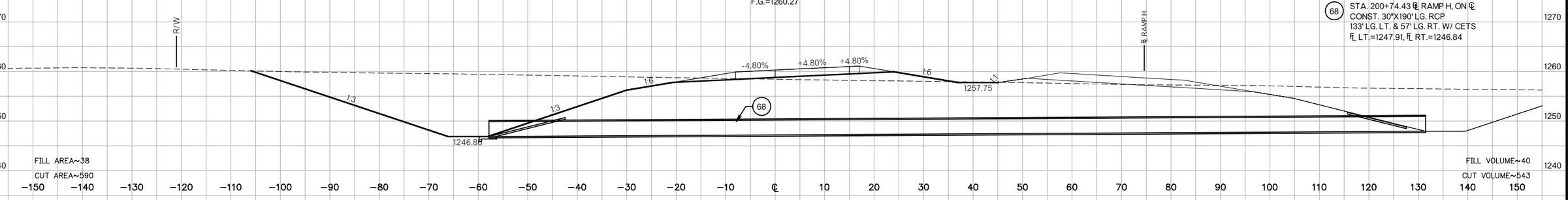
US 81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X411

PROPOSED
R/W
AUGUST 2017

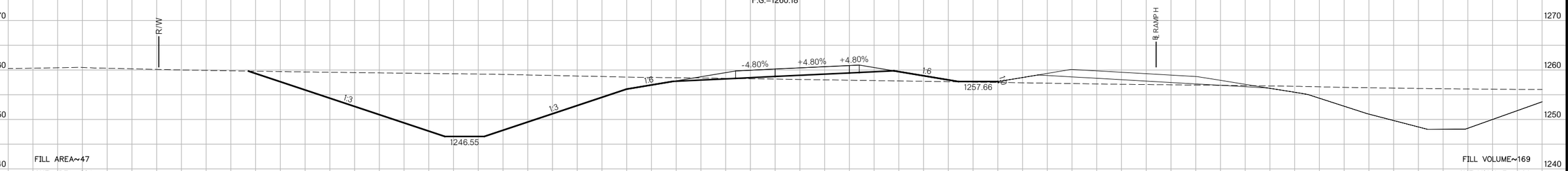
1192+00
F.G.=1260.27



68 STA. 200+74.43 ℄ RAMP H, ON ℄
CONST. 30"X190' LG. RCP
133' LG. LT. & 57' LG. RT. W/ CETS
FL LT.=1247.91, FL RT.=1246.84

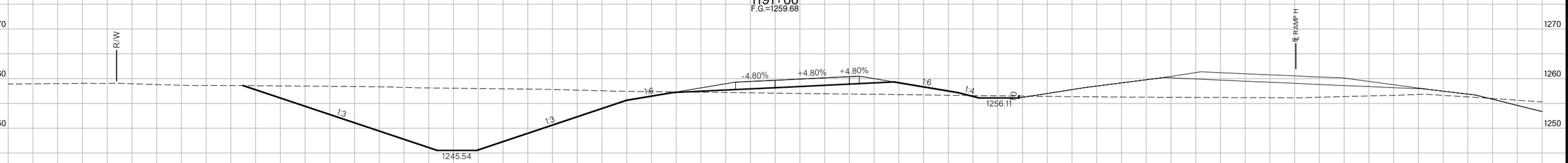
FILL AREA~38
CUT AREA~590
FILL VOLUME~40
CUT VOLUME~543

1191+75.12
F.G.=1260.18



FILL AREA~47
CUT AREA~589
FILL VOLUME~169
CUT VOLUME~1626

1191+00
F.G.=1259.68



FILL AREA~74
CUT AREA~580
FILL VOLUME~307
CUT VOLUME~2536

1190+00
F.G.=1258.47

FILL AREA~91
CUT AREA~790
FILL VOLUME~476
CUT VOLUME~2888

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

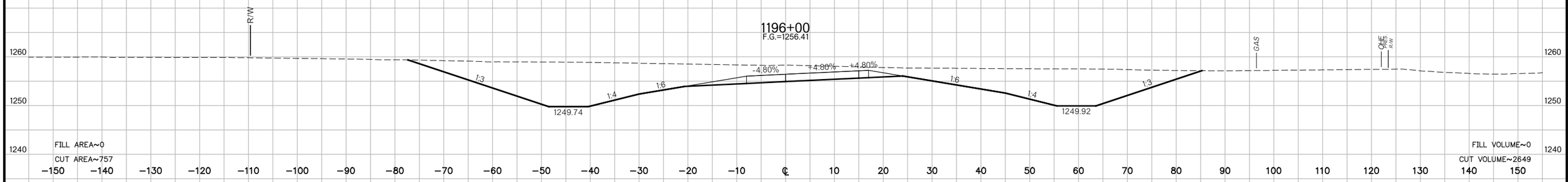
RAMP G

US 81 REALIGNMENT
GRADY COUNTY

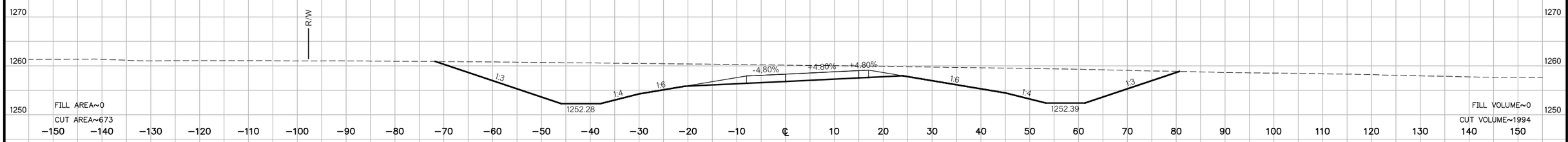
State Job No. 24428(04) Sheet No. X412

PROPOSED
R/W
AUGUST 2017

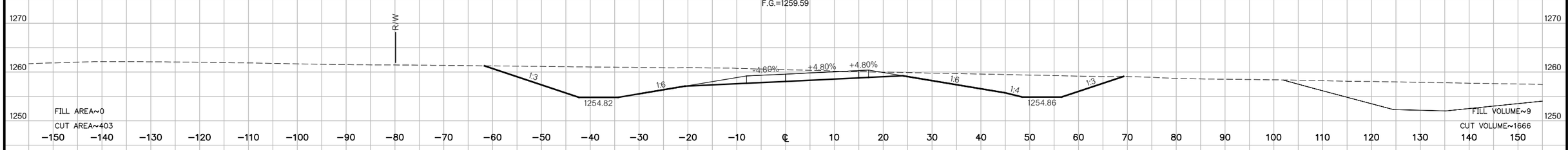
1196+00
F.G.=1256.41



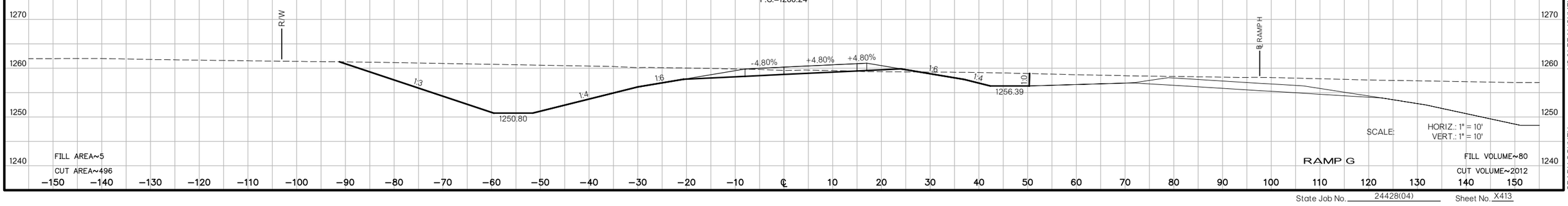
1195+00
F.G.=1258.31



1194+00
F.G.=1259.59



1193+00
F.G.=1260.24

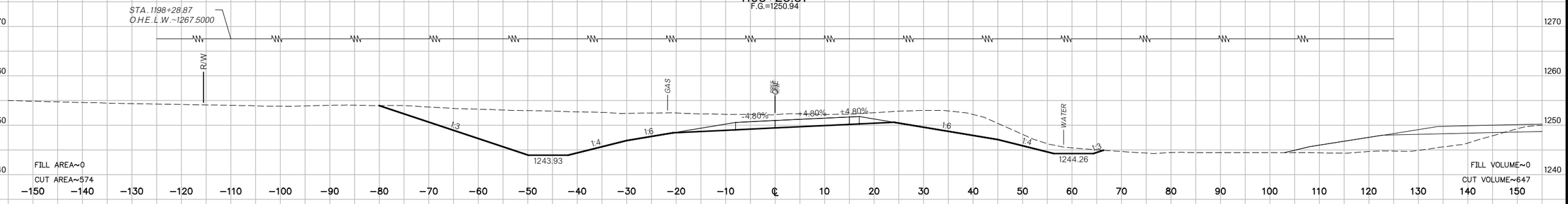


US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X413

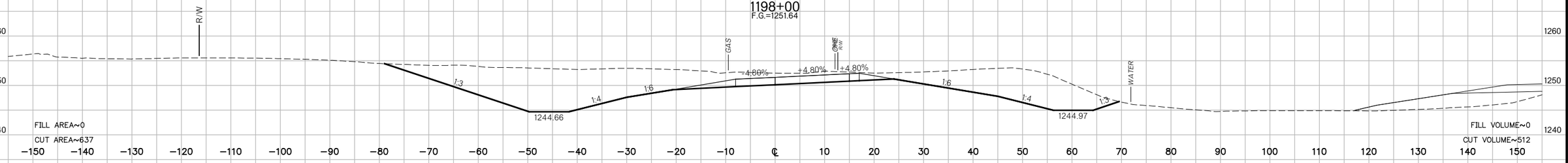
PROPOSED
R/W
AUGUST 2017

1198+28.87
F.G.=1250.94



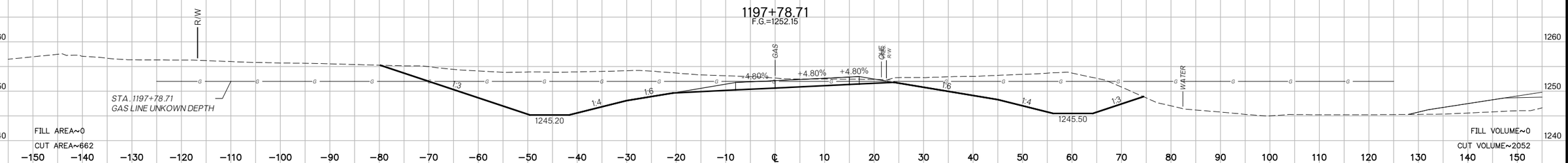
FILL AREA~0
CUT AREA~574
FILL VOLUME~0
CUT VOLUME~647

1198+00
F.G.=1251.64



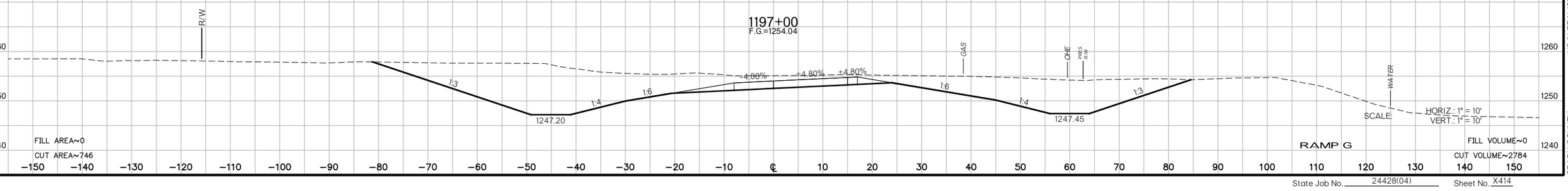
FILL AREA~0
CUT AREA~637
FILL VOLUME~0
CUT VOLUME~512

1197+78.71
F.G.=1252.15



FILL AREA~0
CUT AREA~662
FILL VOLUME~0
CUT VOLUME~2052

1197+00
F.G.=1254.04



FILL AREA~0
CUT AREA~746
FILL VOLUME~0
CUT VOLUME~2784

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

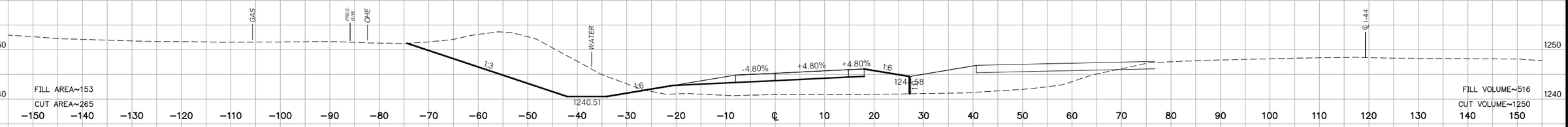
RAMP G

US 81 REALIGNMENT
GRADY COUNTY

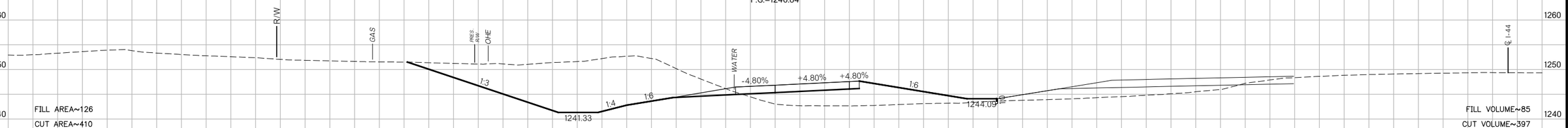
State Job No. 24428(04) Sheet No. X414

PROPOSED
R/W
AUGUST 2017

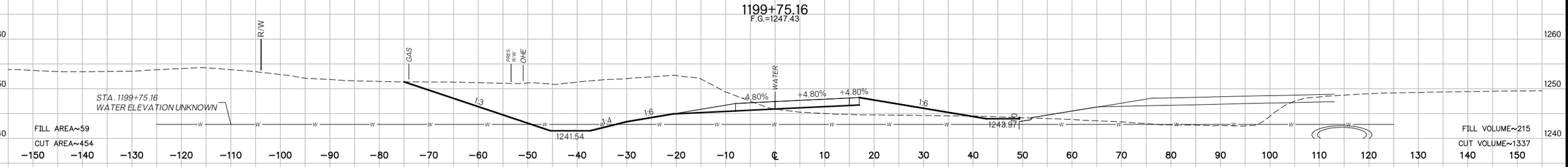
1201+00
F.G.=1245.24



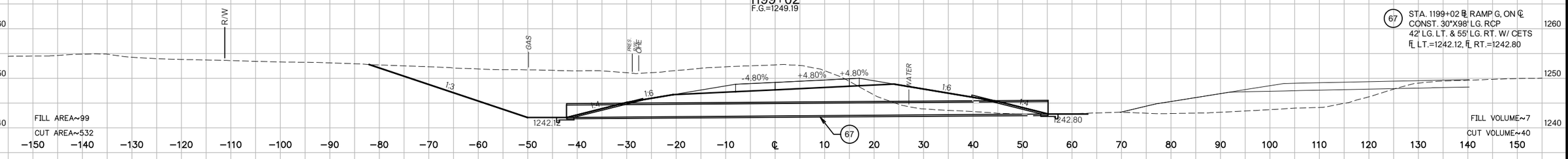
1200+00
F.G.=1246.84



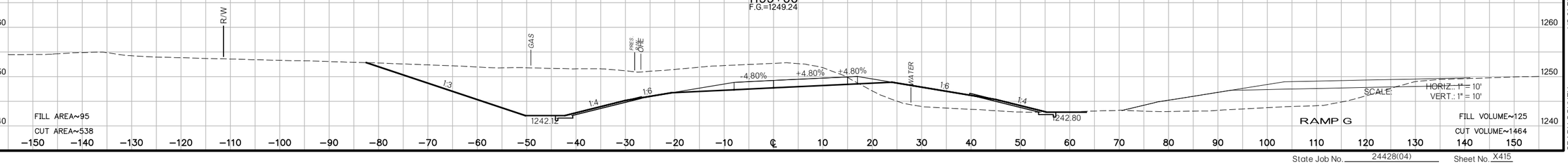
1199+75.16
F.G.=1247.43



1199+02
F.G.=1249.19



1199+00
F.G.=1249.24

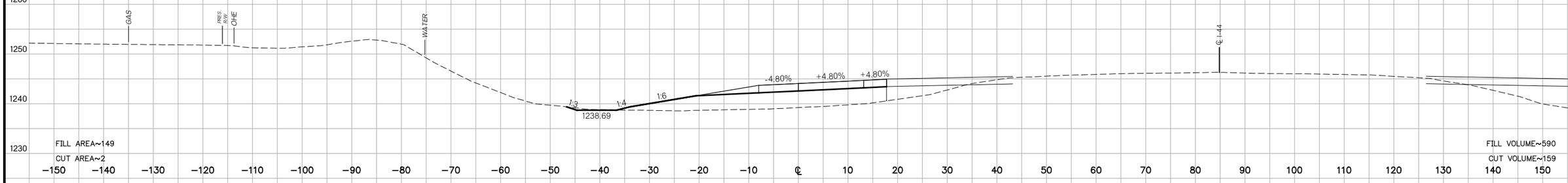


US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X415

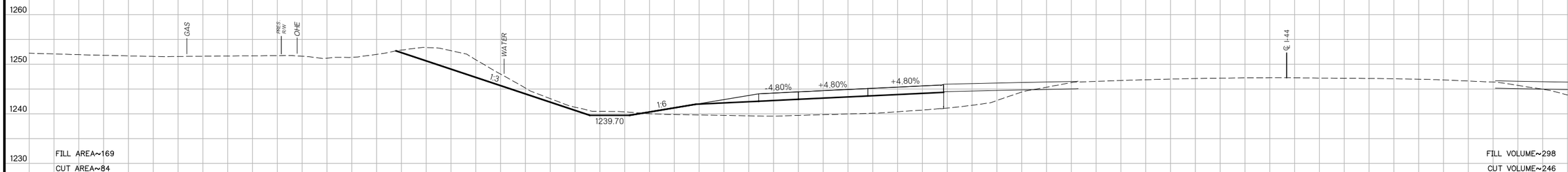
PROPOSED
R/W
AUGUST 2017

1203+00
F.G.=1244.07



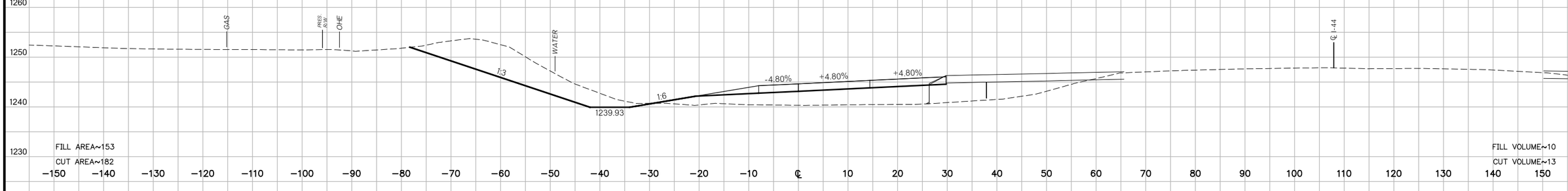
FILL AREA~149
CUT AREA~2
FILL VOLUME~590
CUT VOLUME~159

1202+00
F.G.=1244.42



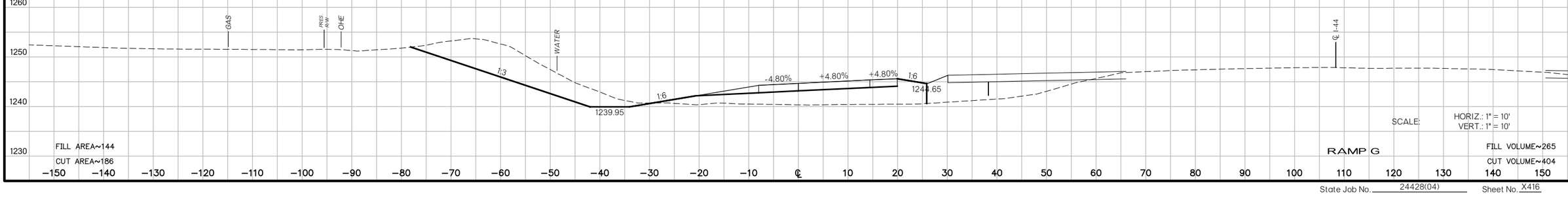
FILL AREA~169
CUT AREA~84
FILL VOLUME~298
CUT VOLUME~246

1201+50.16
F.G.=1244.65



FILL AREA~153
CUT AREA~182
FILL VOLUME~10
CUT VOLUME~13

1201+48.26
F.G.=1244.67



FILL AREA~144
CUT AREA~186
FILL VOLUME~265
CUT VOLUME~404

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP G

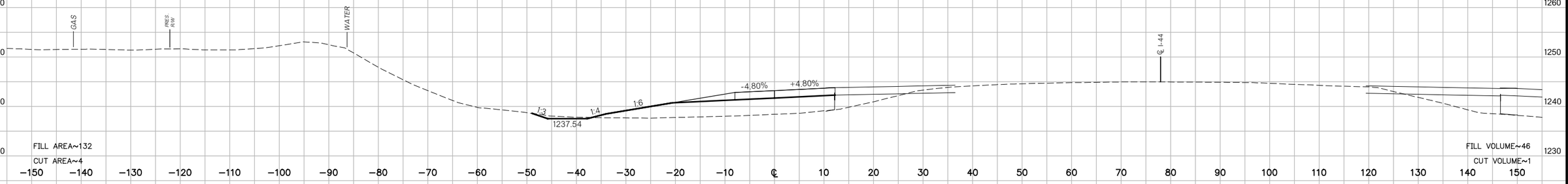
US 81 REALIGNMENT

GRADY COUNTY

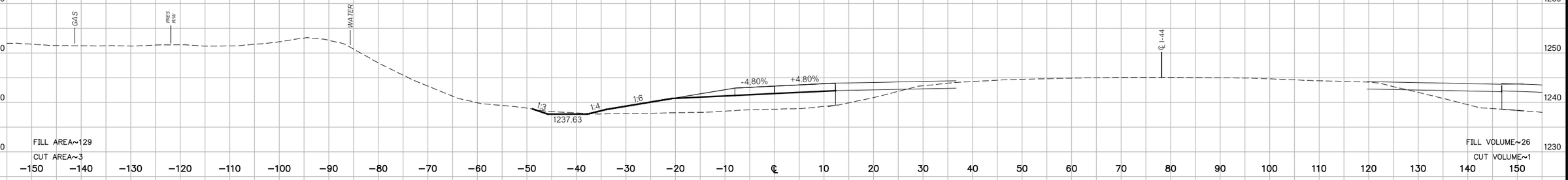
State Job No. 24428(04) Sheet No. X416

PROPOSED
R/W
AUGUST 2017

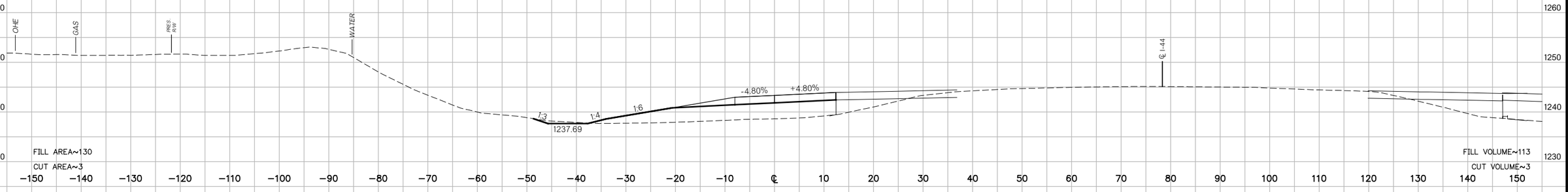
END FULL SUPERELEVATION
1204+14.99
F.G.=1243.20



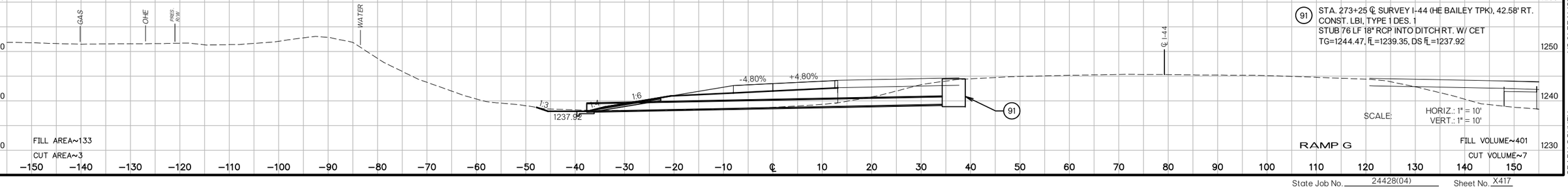
1204+05.41
F.G.=1243.29



1204+00
F.G.=1243.34



1203+76.79
F.G.=1243.51



(91) STA. 273+25 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 76 LF 18" RCP INTO DITCH RT. W/ CET
TG=1244.47, FL=1239.35, DS FL=1237.92

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

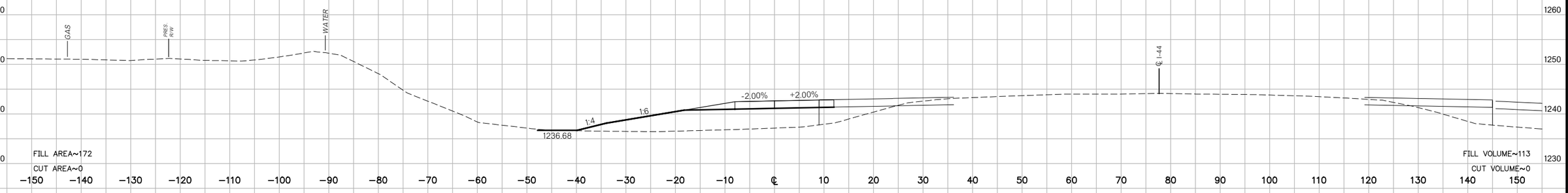
RAMP G

US 81 REALIGNMENT
GRADY COUNTY

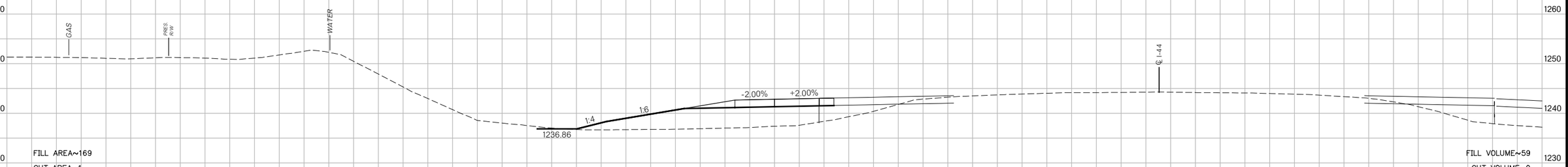
State Job No. 24428(04) Sheet No. X417

PROPOSED
R/W
AUGUST 2017

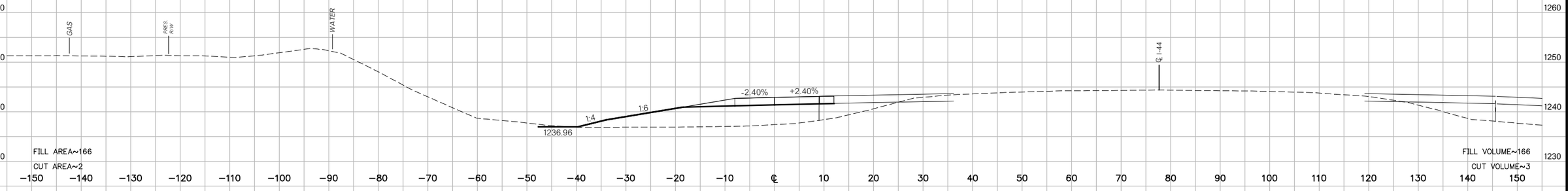
1205+00
F.G.=1242.63



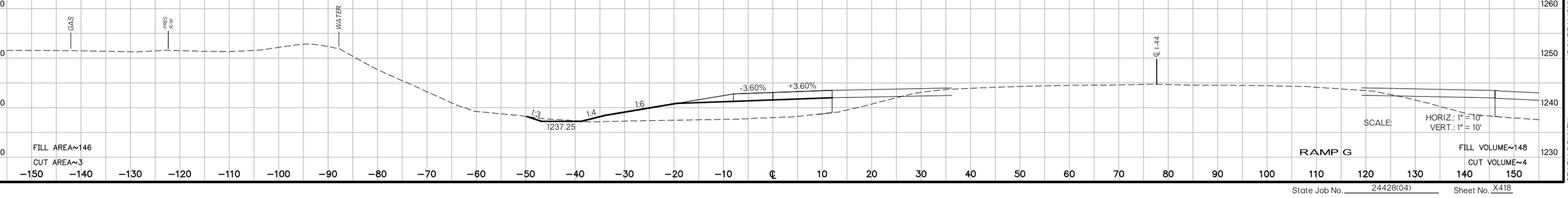
BEGIN NORMAL CROWN
1204+82.07
F.G.=1242.83



1204+72.49
F.G.=1242.90



1204+43.74
F.G.=1243.07



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP G

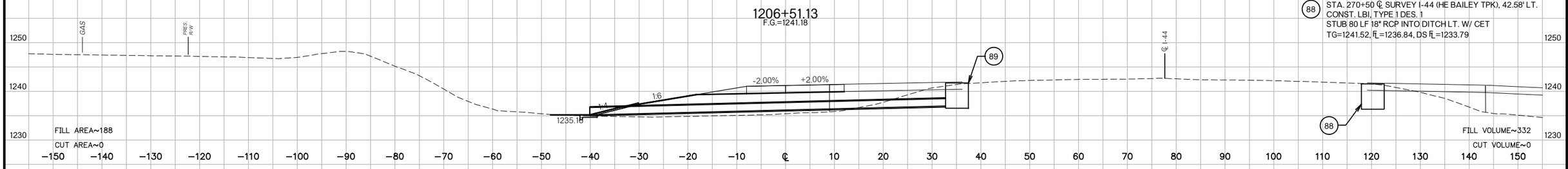
US 81 REALIGNMENT
GRADY COUNTY

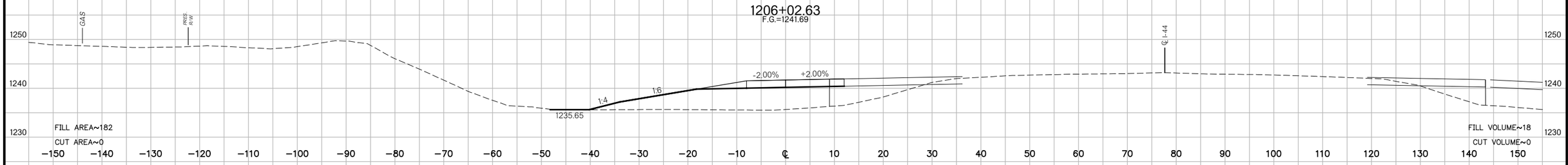
State Job No. 24428(04) Sheet No. X418

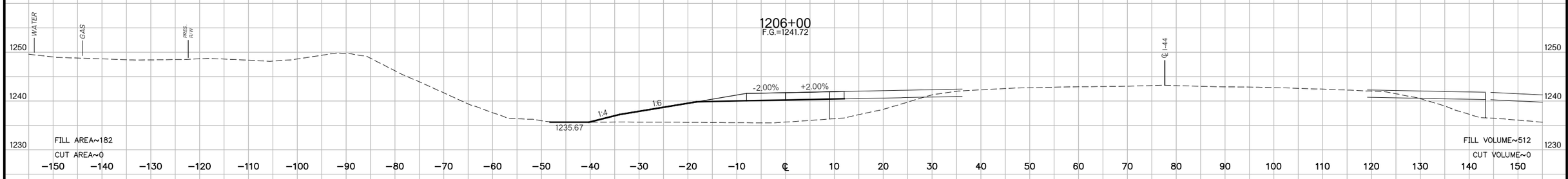
PROPOSED
R/W
AUGUST 2017

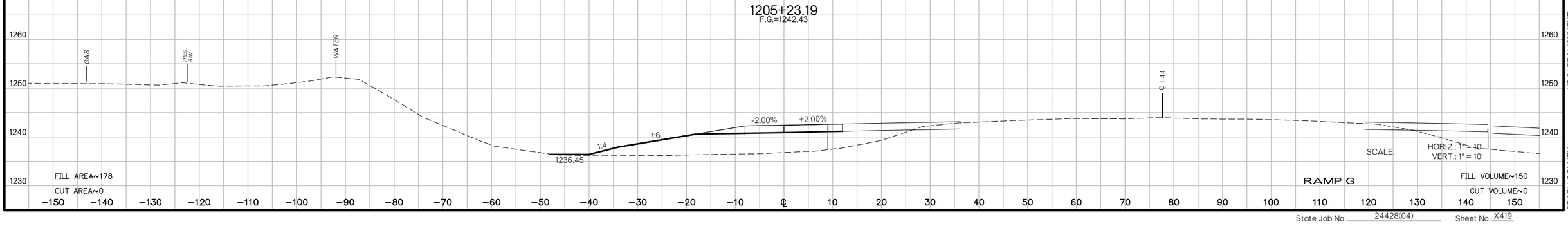
(89) STA. 270+50 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 76 LF 18" RCP INTO DITCH RT. W/ CET
TG=1241.72, FL=1237.04, DS FL=1235.16

(88) STA. 270+50 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 80 LF 18" RCP INTO DITCH LT. W/ CET
TG=1241.52, FL=1236.84, DS FL=1233.79









SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

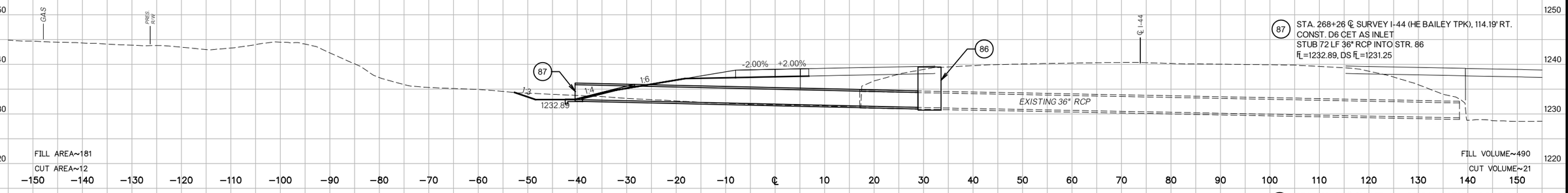
RAMP G

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X419

PROPOSED
R/W
AUGUST 2017

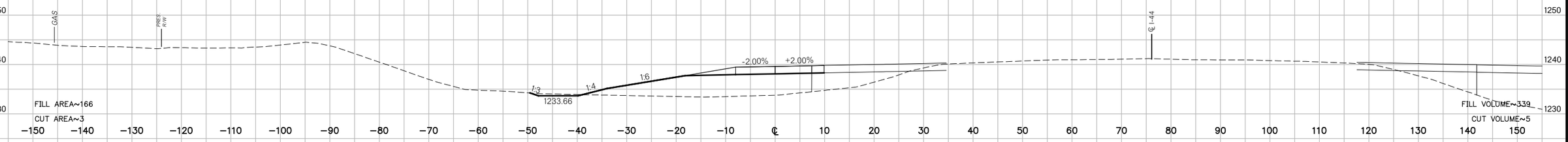
1208+76.05
F.G.=1238.99



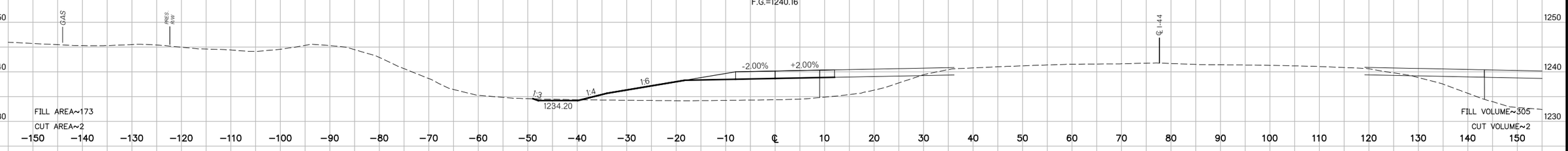
87 STA. 268+26 ℄ SURVEY I-44 (HE BAILEY TPK), 114.19' RT.
CONST. D6 CET AS INLET
STUB 72 LF 36" RCP INTO STR. 86
FL=1232.89, DS FL=1231.25

86 STA. 268+26 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB ONTO EXIST. 36" RCP
TG=1239.47, FL=1231.25

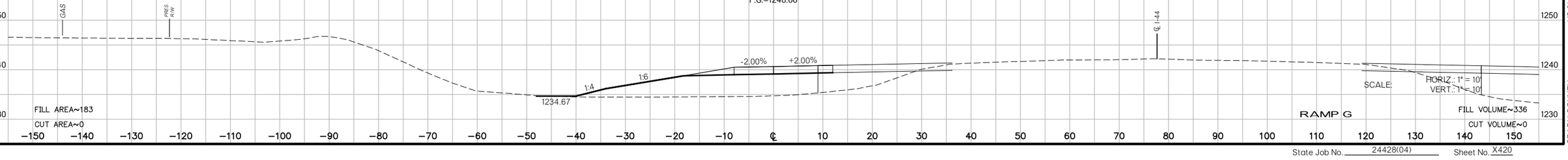
1208+00
F.G.=1239.61



1207+46.13
F.G.=1240.16



1207+00
F.G.=1240.66

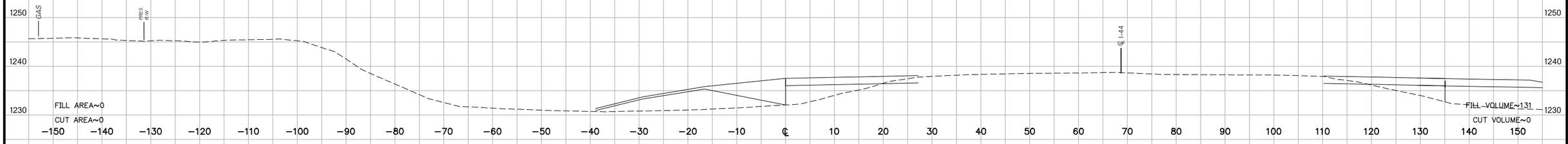


US 81 REALIGNMENT
GRADY COUNTY

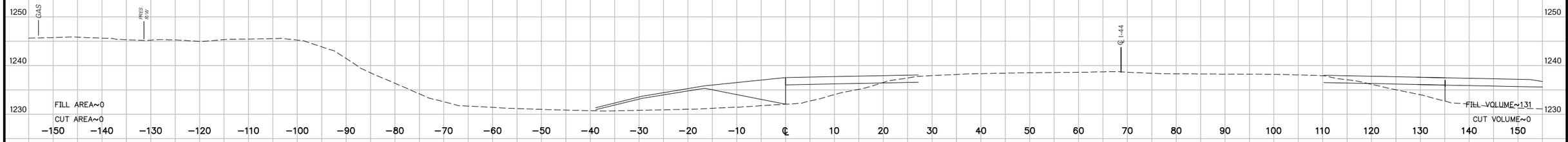
State Job No. 24428(04) Sheet No. X420

PROPOSED
R/W
AUGUST 2017

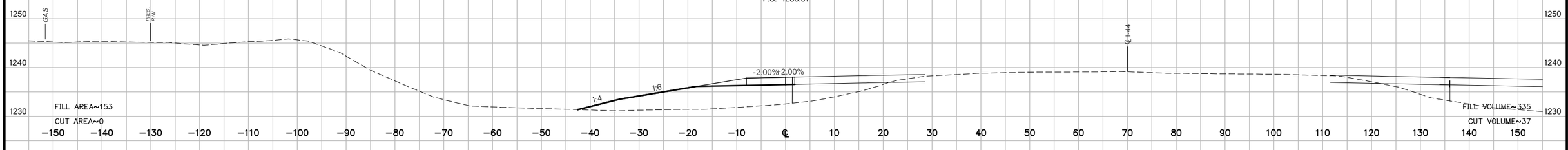
1210+46.26



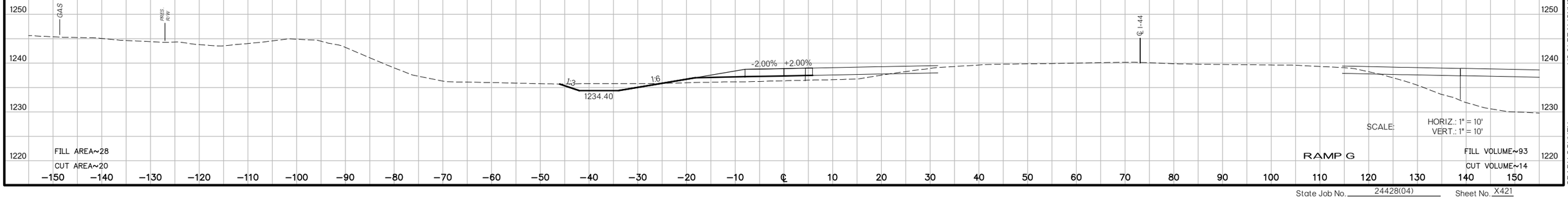
END PROJECT
1210+46.26



1210+00
F.G.=1238.01



1209+00
F.G.=1238.89



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP G

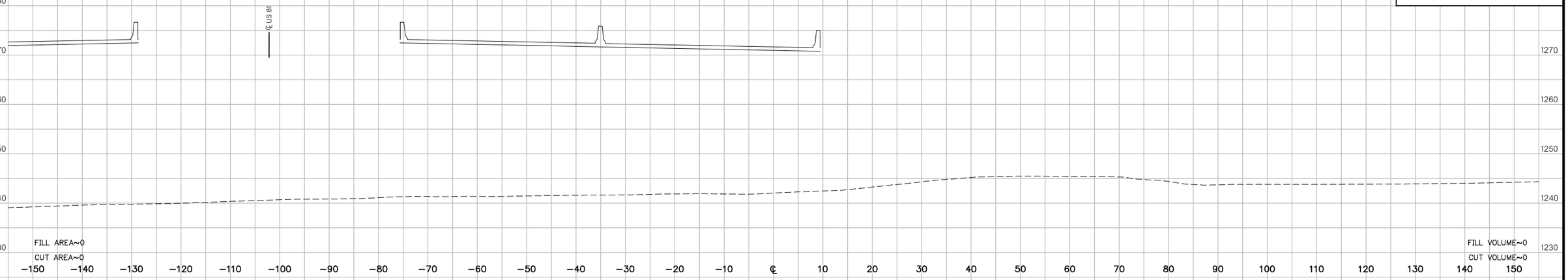
US 81 REALIGNMENT

GRADY COUNTY

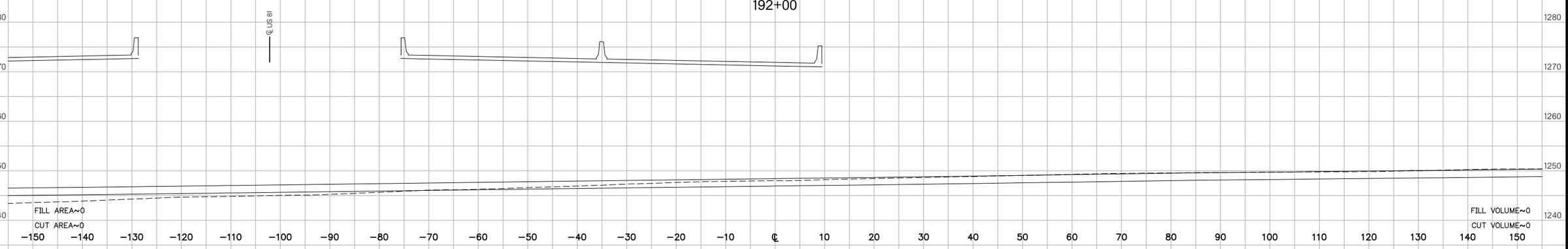
State Job No. 24428(04) Sheet No. X421

PROPOSED
R/W
AUGUST 2017

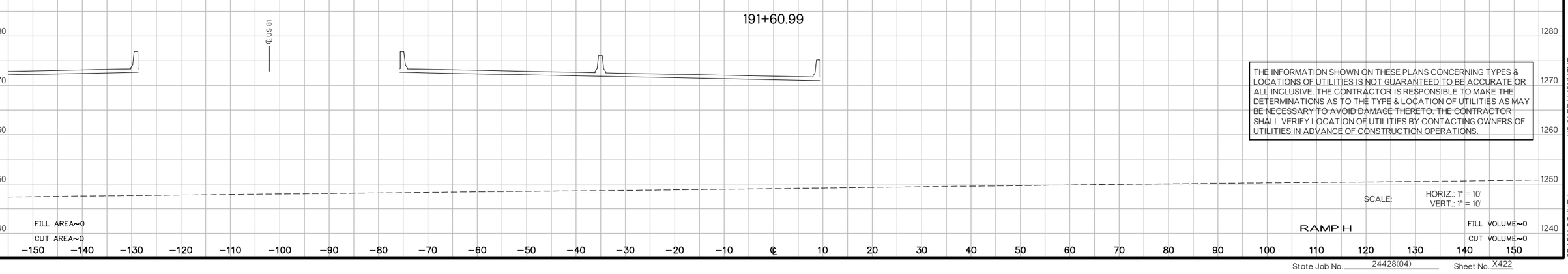
193+00



192+00



191+60.99



THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPES & LOCATIONS OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE TO MAKE THE DETERMINATIONS AS TO THE TYPE & LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING OWNERS OF UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS.

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

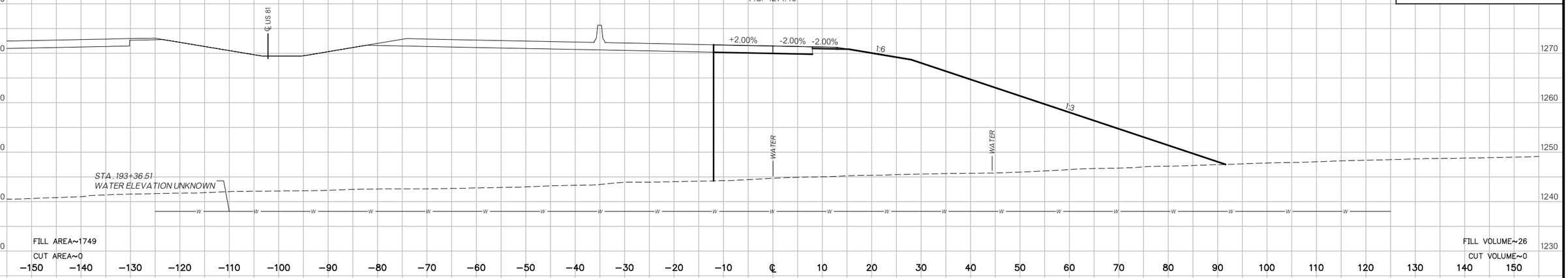
RAMP H

US 81 REALIGNMENT
GRADY COUNTY

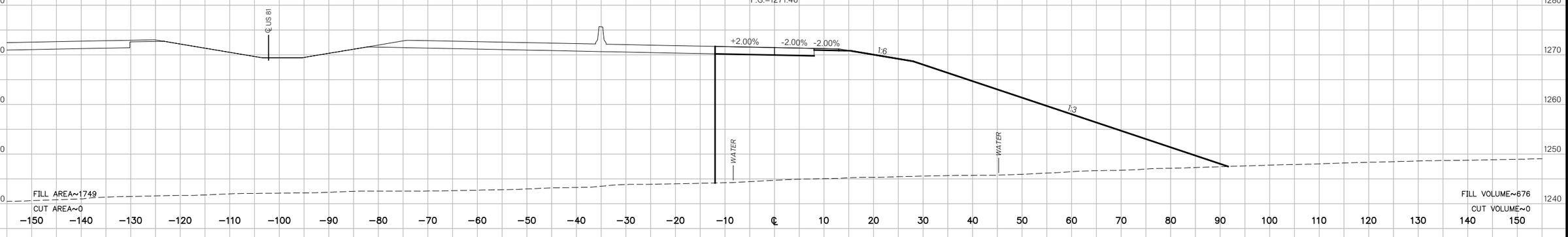
State Job No. 24428(04) Sheet No. X422

PROPOSED
R/W
AUGUST 2017

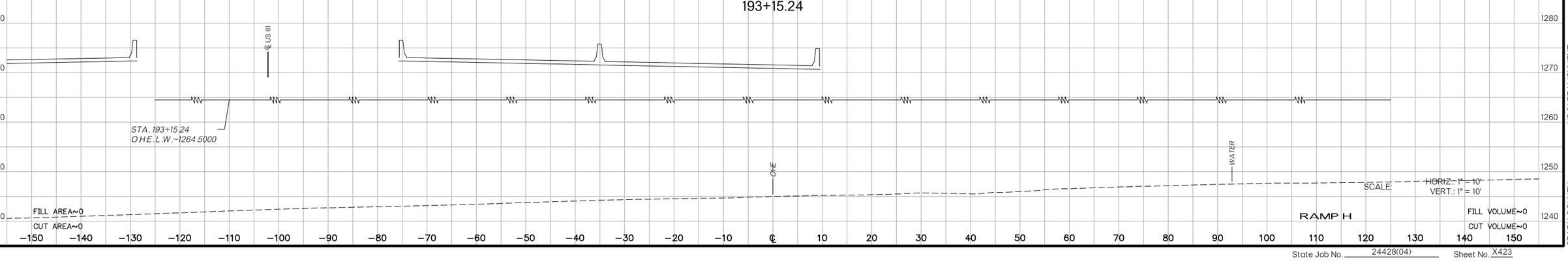
193+36.51
F.G.=1271.46



BEGIN PROJECT
193+36.11
F.G.=1271.46



193+15.24



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

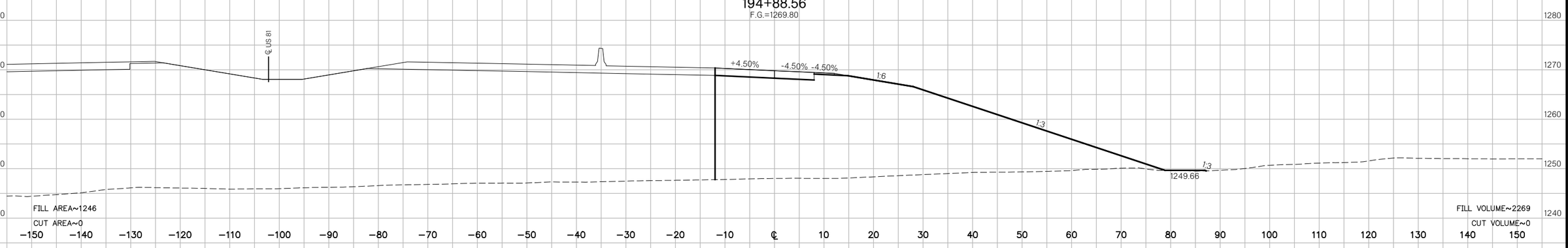
RAMP H

US 81 REALIGNMENT
GRADY COUNTY

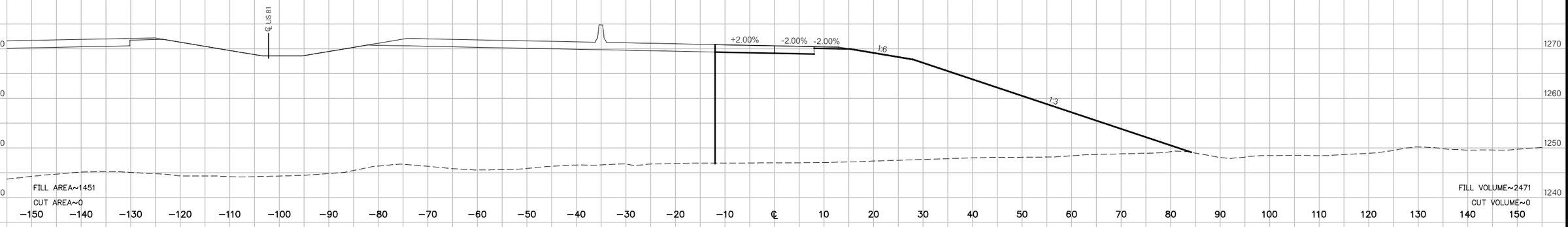
State Job No. 24428(04) Sheet No. X423

PROPOSED
R/W
AUGUST 2017

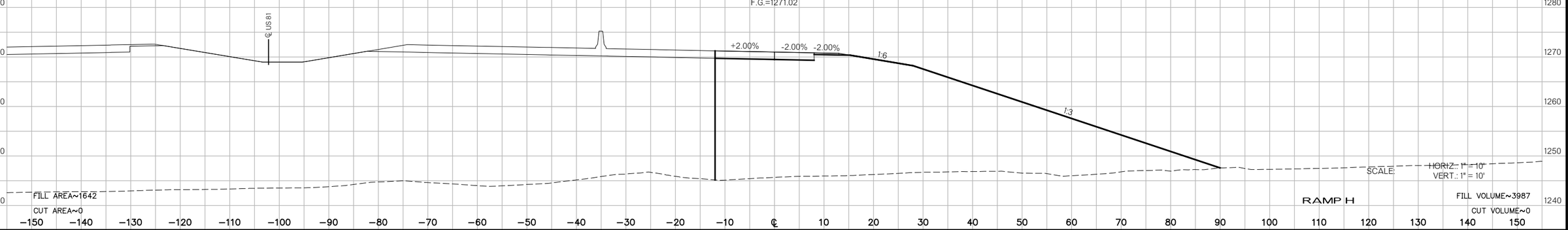
194+88.56
F.G.=1269.80



END NORMAL CROWN
194+43.14
F.G.=1270.61



194+00
F.G.=1271.02

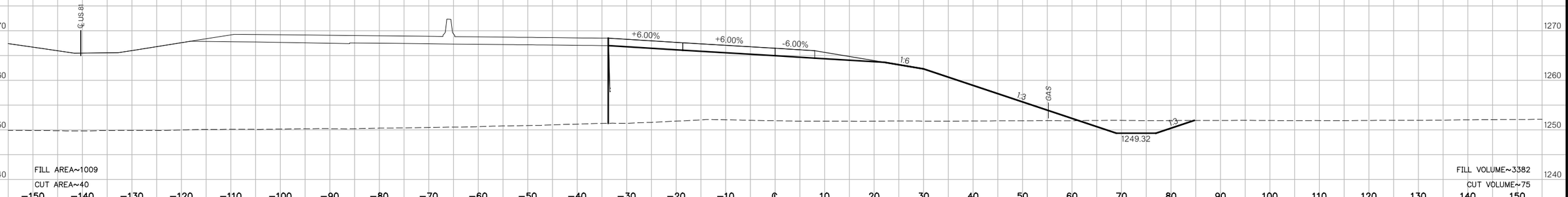


US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X424

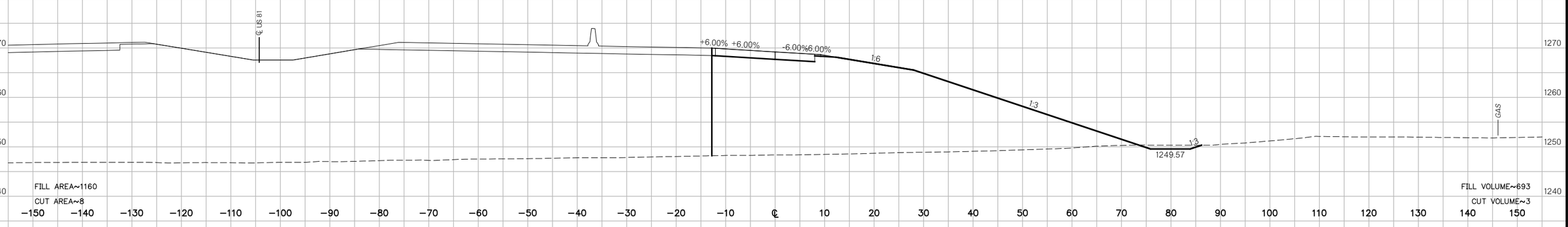
PROPOSED
R/W
AUGUST 2017

196+00
F.G.=1266.45

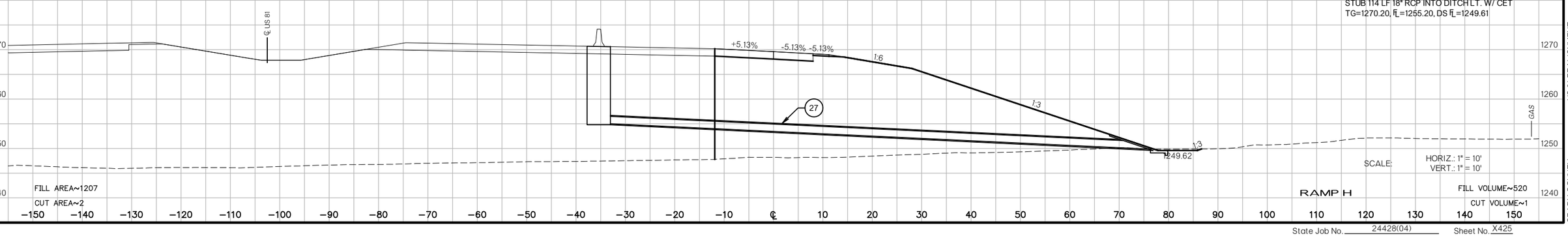


BEGIN FULL SUPERELEVATION

195+15.81
F.G.=1269.21



195+00
F.G.=1269.60



(27) STA. 193+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 114 LF 18" RCP INTO DITCH LT. W/ CET
TG=1270.20, FL=1255.20, DS FL=1249.61

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

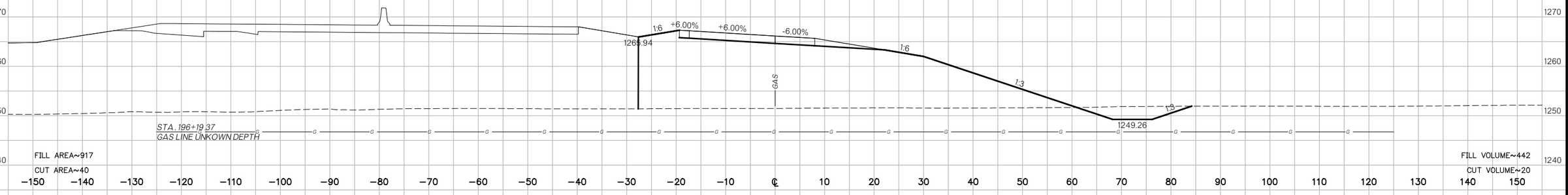
RAMP H

US 81 REALIGNMENT
GRADY COUNTY

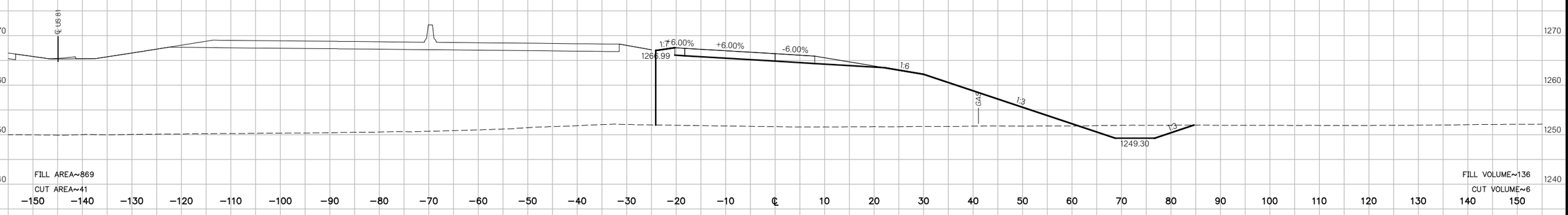
State Job No. 24428(04) Sheet No. X425

PROPOSED
R/W
AUGUST 2017

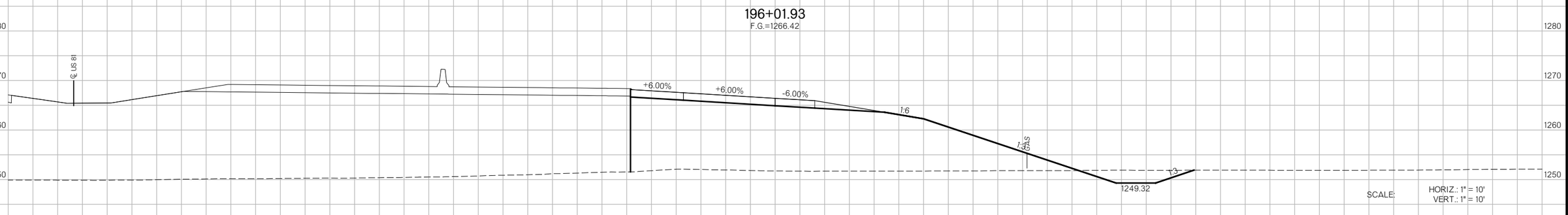
196+19.37
F.G.=1266.14



196+05.98
F.G.=1266.35



196+01.93
F.G.=1266.42



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

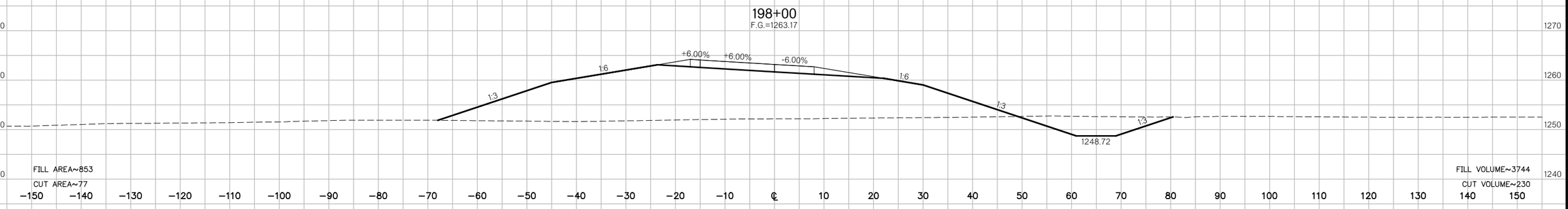
RAMP H

US 81 REALIGNMENT
GRADY COUNTY

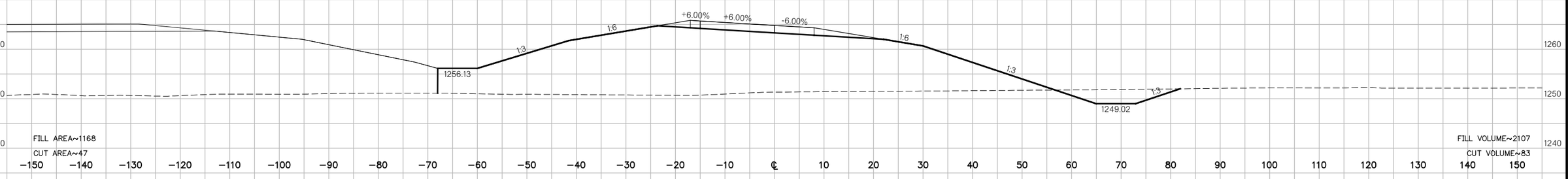
State Job No. 24428(04) Sheet No. X426

PROPOSED
R/W
AUGUST 2017

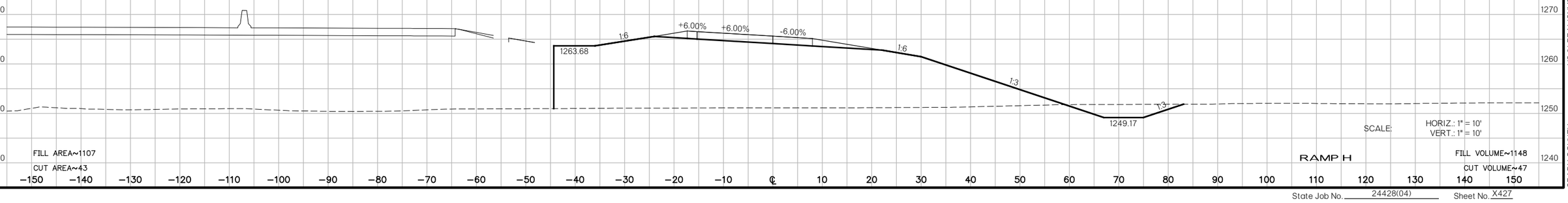
198+00
F.G.=1263.17



197+00
F.G.=1264.81



196+50
F.G.=1265.63



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

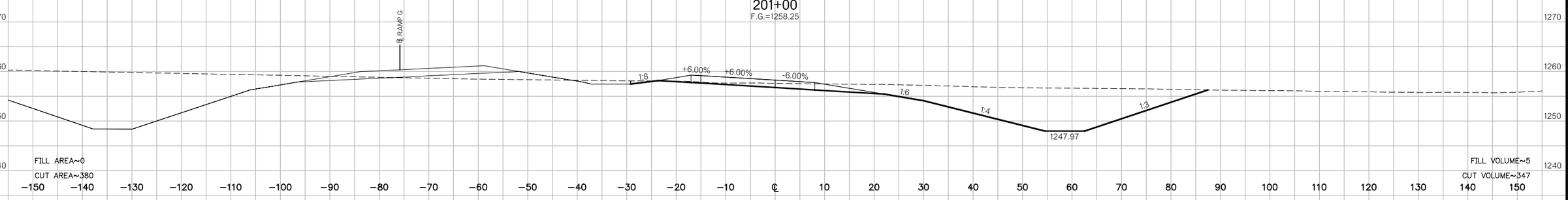
RAMP H

US 81 REALIGNMENT
GRADY COUNTY

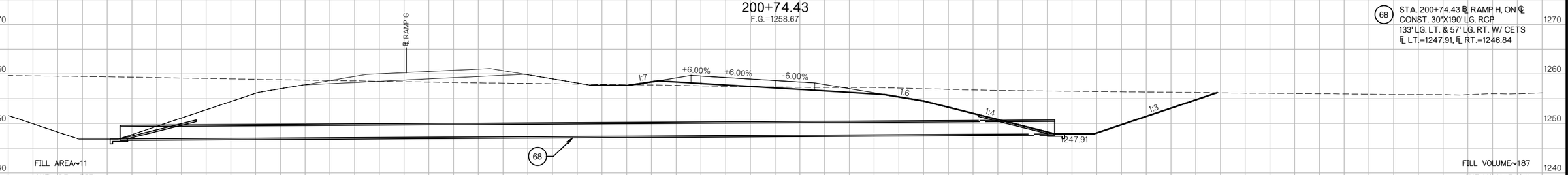
State Job No. 24428(04) Sheet No. X427

PROPOSED
R/W
AUGUST 2017

201+00
F.G.=1258.25



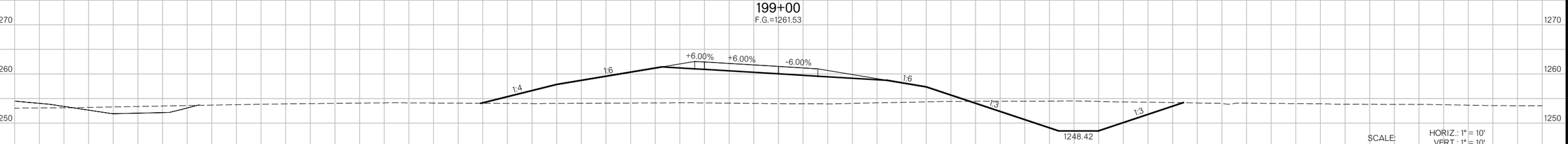
200+74.43
F.G.=1258.67



(68) STA. 200+74.43 ℄ RAMP H, ON ℄
CONST. 30"X190' LG. RCP
133' LG. LT. & 57' LG. RT. W/ CETS
℄ LT.=1247.91, ℄ RT.=1246.84

200+00
F.G.=1259.89

199+00
F.G.=1261.53



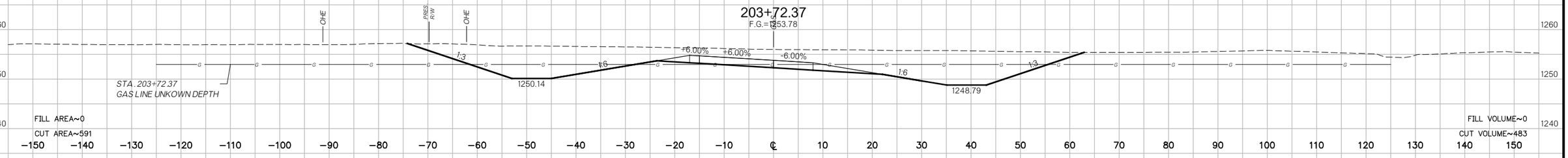
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

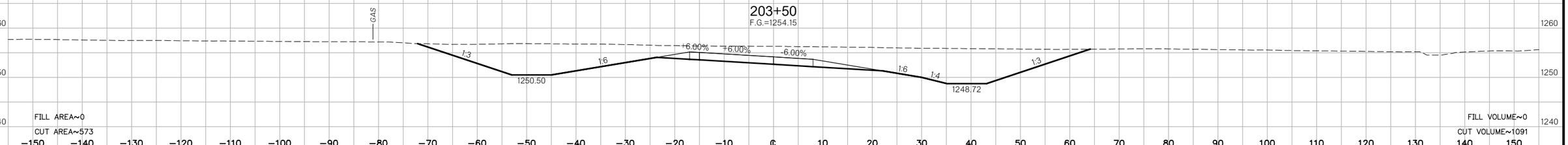
RAMP H

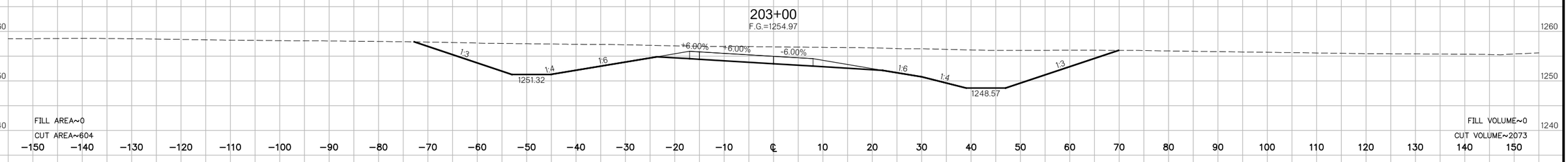
US 81 REALIGNMENT
GRADY COUNTY

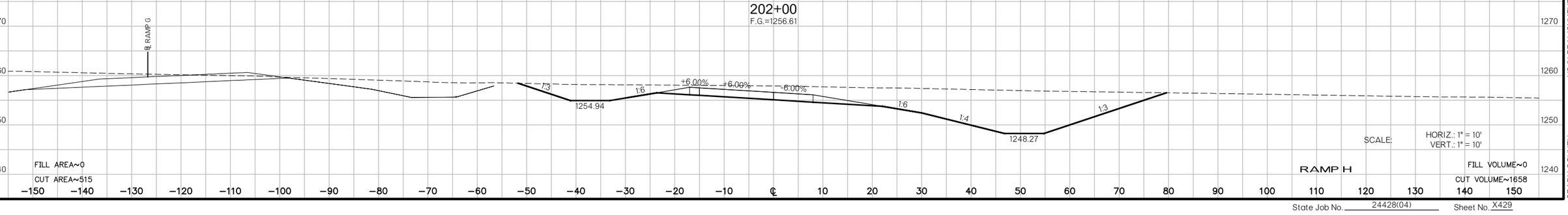
State Job No. 24428(04) Sheet No. X428

PROPOSED
R/W
AUGUST 2017









SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

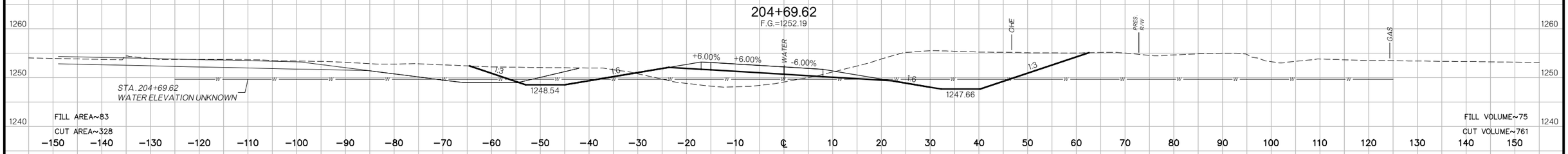
RAMP H

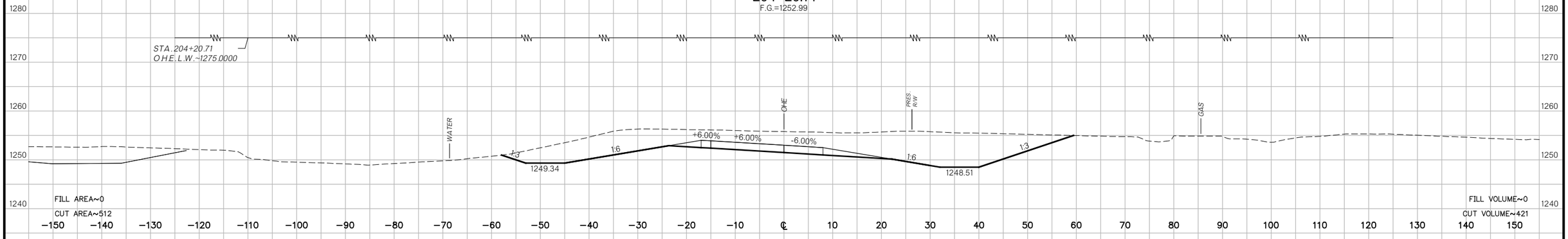
US 81 REALIGNMENT

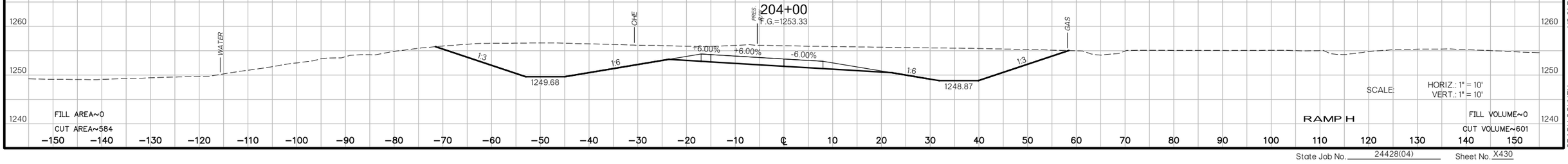
GRADY COUNTY

State Job No. 24428(04) Sheet No. X429

PROPOSED
R/W
AUGUST 2017







SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

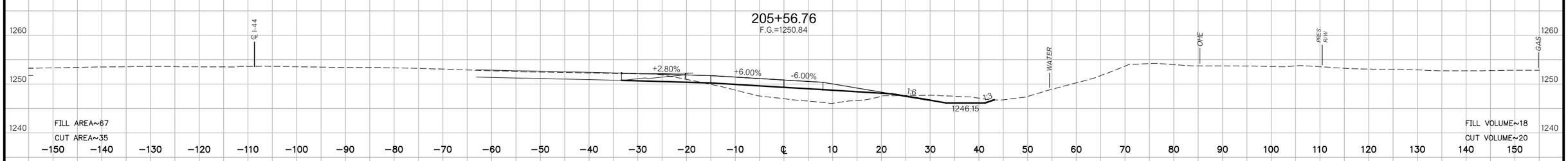
RAMP H

US 81 REALIGNMENT
GRADY COUNTY

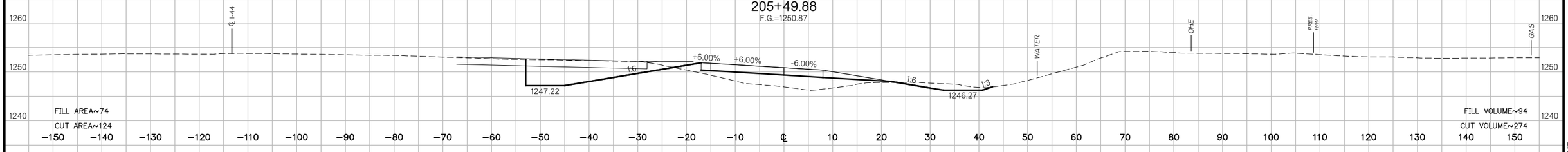
State Job No. 24428(04) Sheet No. X430

PROPOSED
R/W
AUGUST 2017

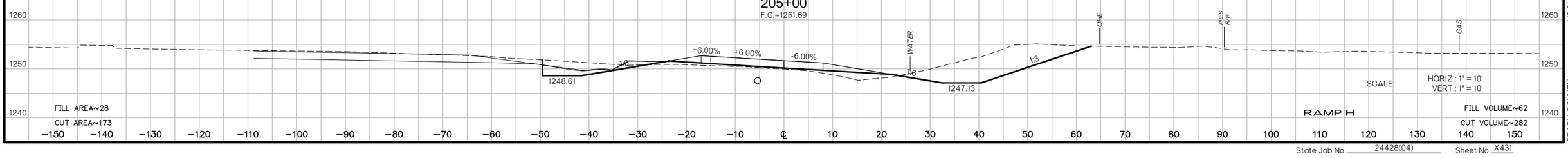
205+56.76
F.G.=1250.84



205+49.88
F.G.=1250.87



205+00
F.G.=1251.69



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP H

US 81 REALIGNMENT
GRADY COUNTY

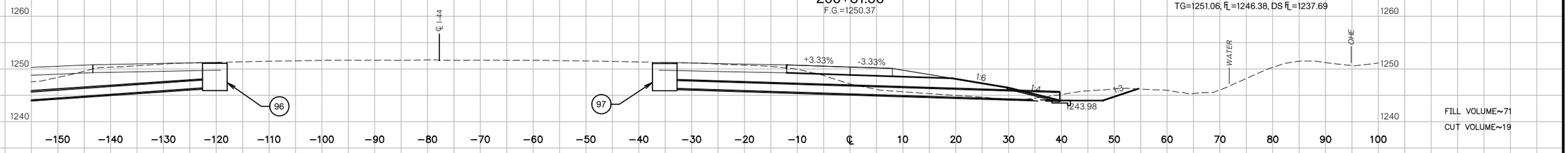
State Job No. 24428(04) Sheet No. X431

PROPOSED
R/W
AUGUST 2017

(97) STA. 286+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB746 LF 18" RCP INTO DITCH LT. W/ CET
TG=1251.03, fL=1246.35, DS fL=1244.01

(96) STA. 286+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 100 LF 18" RCP INTO DITCH LT. W/ CET
TG=1251.06, fL=1246.38, DS fL=1237.69

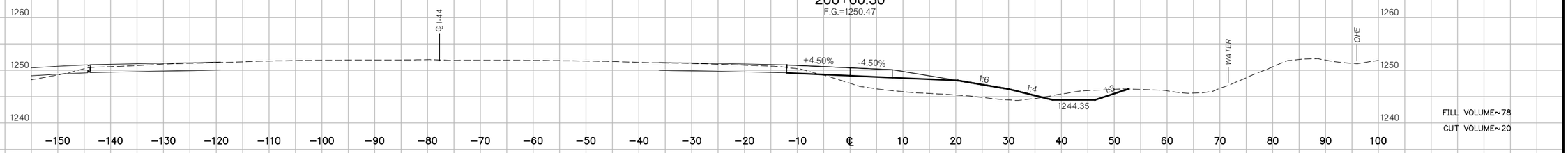
206+81.56
F.G.=1250.37



FILL AREA~96
CUT AREA~25

FILL VOLUME~71
CUT VOLUME~19

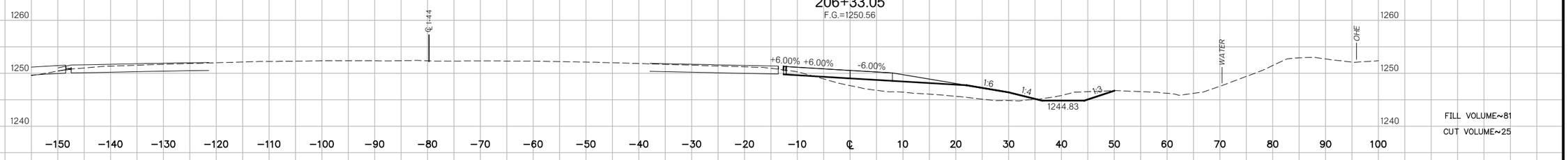
206+60.30
F.G.=1250.47



FILL AREA~85
CUT AREA~22

FILL VOLUME~78
CUT VOLUME~20

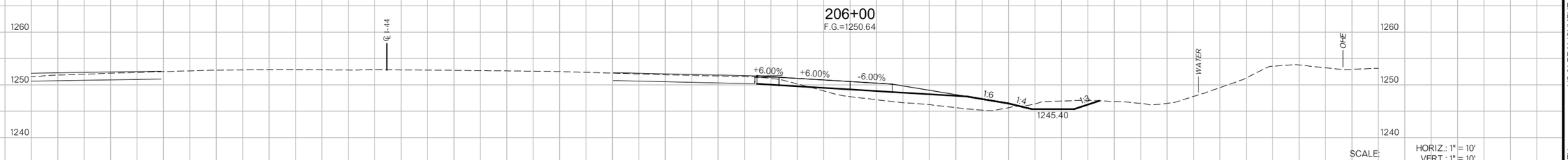
END FULL SUPERELEVATION
206+33.05
F.G.=1250.56



FILL AREA~70
CUT AREA~17

FILL VOLUME~81
CUT VOLUME~25

206+00
F.G.=1250.64



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP H

FILL AREA~63
CUT AREA~25

FILL VOLUME~104
CUT VOLUME~48

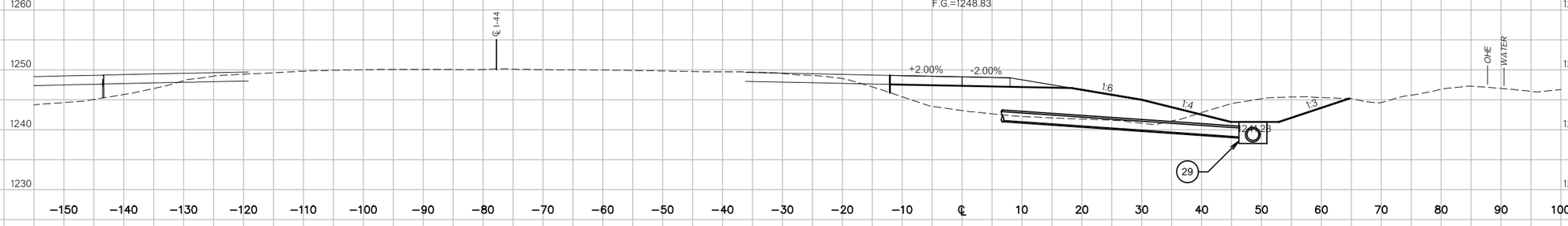
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X432

PROPOSED
R/W
AUGUST 2017

(29) STA. 195+18 ℄ SURVEY US 81, 177.62' LT.
CONST. SMD, TYPE 2
STUB 410 LF 24" RCP INTO DITCH RT. W/ CET
TG=1241.28, FL=1238.18, DS FL=1233.82

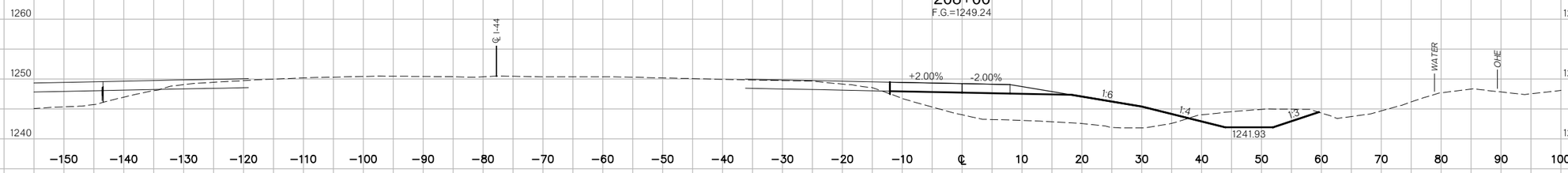
208+39.68
F.G.=1248.83



FILL AREA~198
CUT AREA~63

FILL VOLUME~272
CUT VOLUME~79

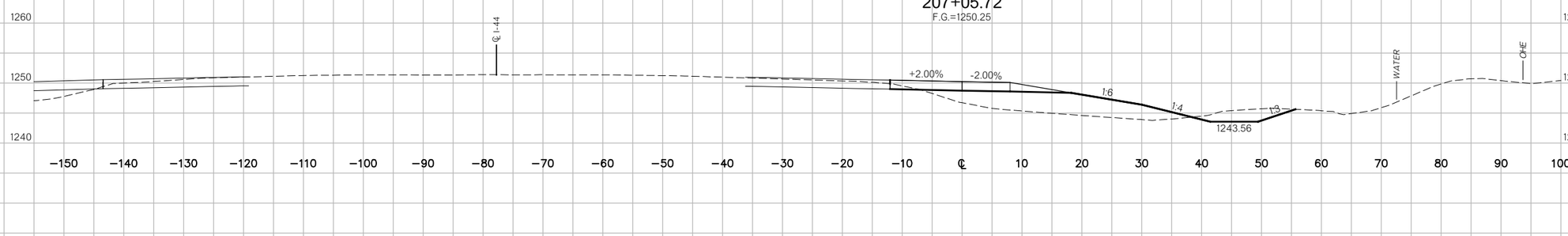
208+00
F.G.=1249.24



FILL AREA~172
CUT AREA~44

FILL VOLUME~494
CUT VOLUME~122

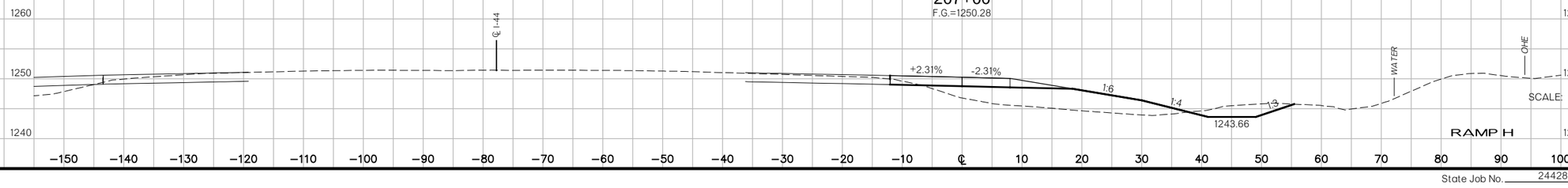
BEGIN NORMAL CROWN
207+05.72
F.G.=1250.25



FILL AREA~111
CUT AREA~26

FILL VOLUME~23
CUT VOLUME~5

207+00
F.G.=1250.28



FILL AREA~107
CUT AREA~26

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP H

FILL VOLUME~69
CUT VOLUME~17

US 81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X433

PROPOSED
R/W
AUGUST 2017

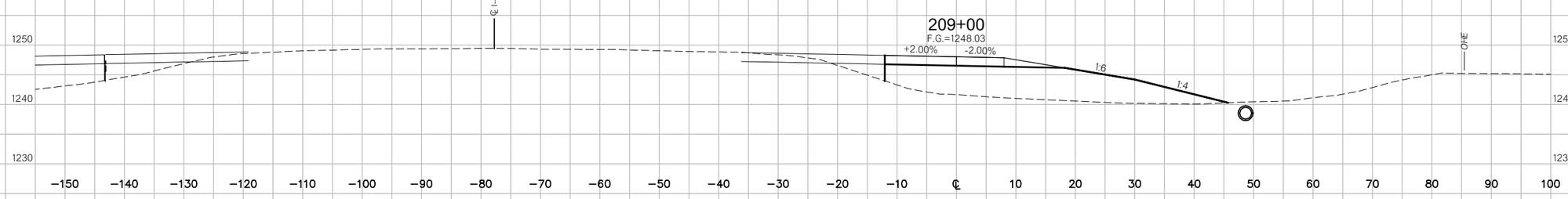
209+16.80

FILL AREA~173
CUT AREA~0

FILL VOLUME~127
CUT VOLUME~0

209+00

F.G.=1248.03



FILL AREA~235
CUT AREA~0

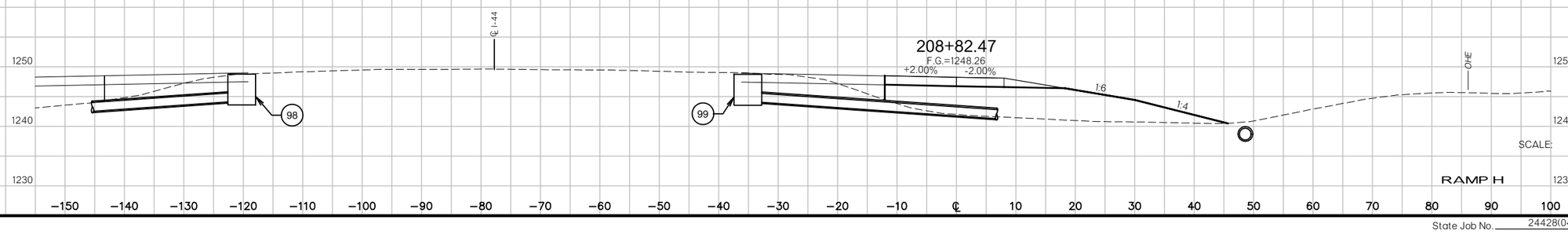
FILL VOLUME~149
CUT VOLUME~0

98 STA. 288+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 146 LF 18" RCP INTO DITCH LT. W/ CET
TG=1248.79, FL=1244.11, DS FL=1234.37

99 STA. 288+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 94 LF 18" RCP INTO STR. 29
TG=1248.74, FL=1244.06, DS FL=1238.68

208+82.47

F.G.=1248.26



FILL AREA~225
CUT AREA~0

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP H

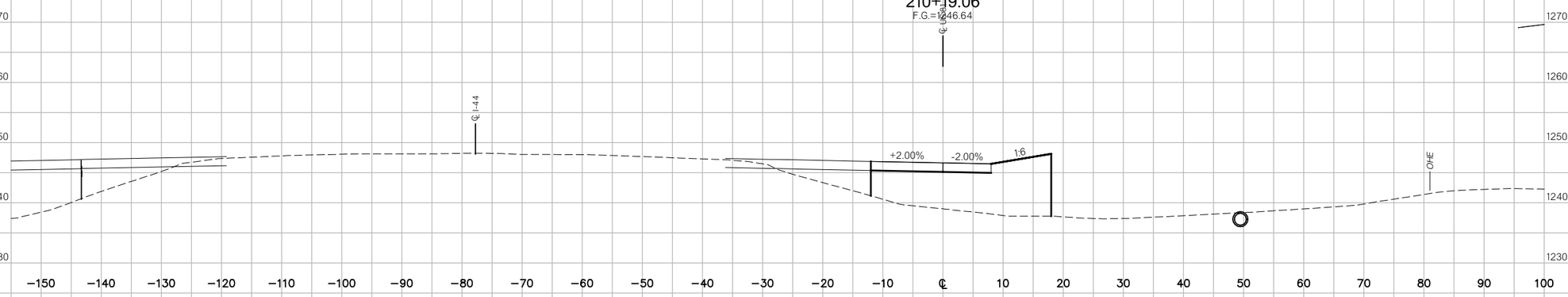
FILL VOLUME~335
CUT VOLUME~50

US 81 REALIGNMENT
GRADY COUNTY

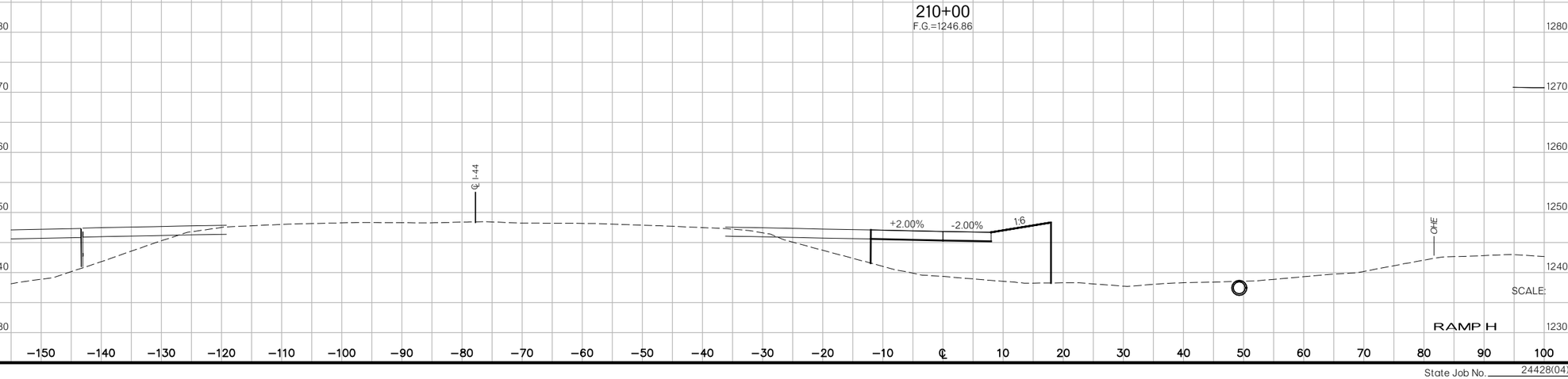
State Job No. 24428(04) Sheet No. X434

PROPOSED
R/W
AUGUST 2017

END PROJECT
210+19.06
F.G.=1246.64



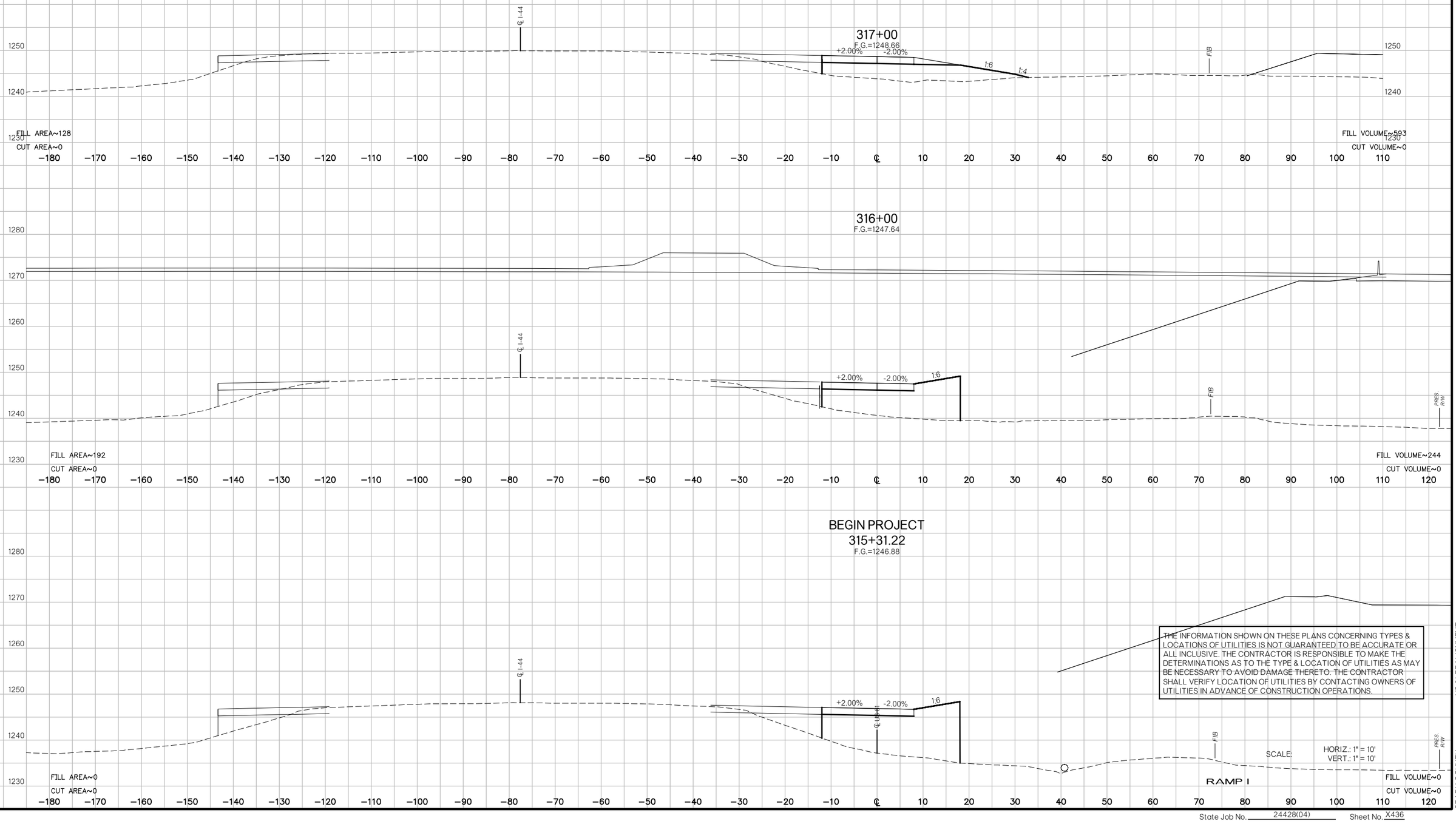
210+00
F.G.=1246.86



US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X435

PROPOSED
R/W
AUGUST 2017



THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPES & LOCATIONS OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE TO MAKE THE DETERMINATIONS AS TO THE TYPE & LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING OWNERS OF UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS.

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

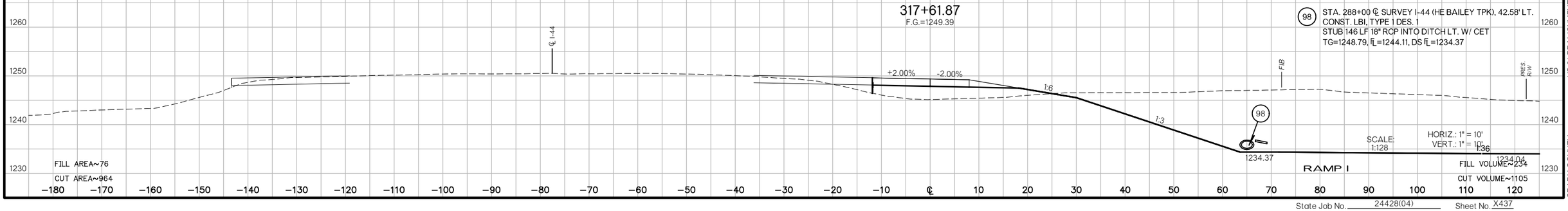
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X436

PROPOSED
R/W
AUGUST 2017

317+61.87
F.G.=1249.39

98 STA. 288+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 146 LF 18" RCP INTO DITCH LT. W/ CET
TG=1248.79, FL=1244.11, DS FL=1234.37

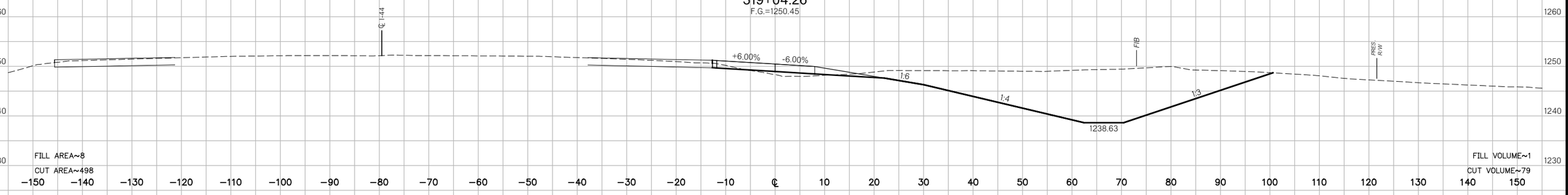


US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X437

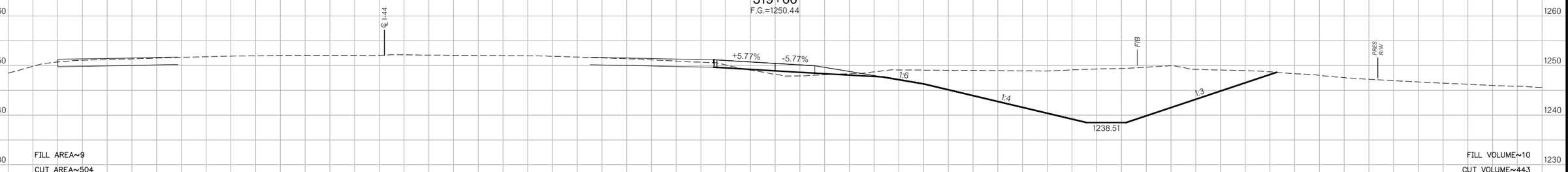
PROPOSED
R/W
AUGUST 2017

BEGIN FULL SUPERELEVATION
319+04.26
F.G.=1250.45



FILL AREA~8
CUT AREA~498
FILL VOLUME~1
CUT VOLUME~79

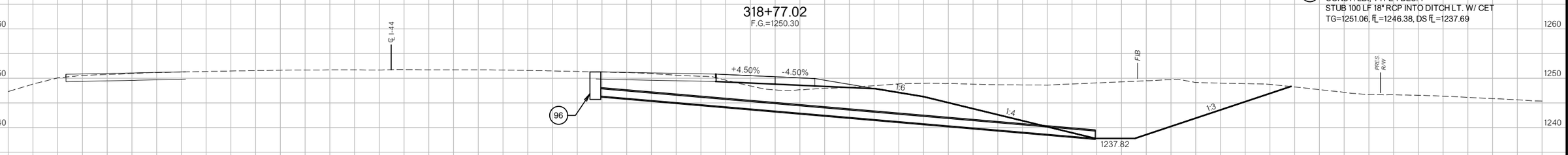
319+00
F.G.=1250.44



FILL AREA~9
CUT AREA~504
FILL VOLUME~10
CUT VOLUME~443

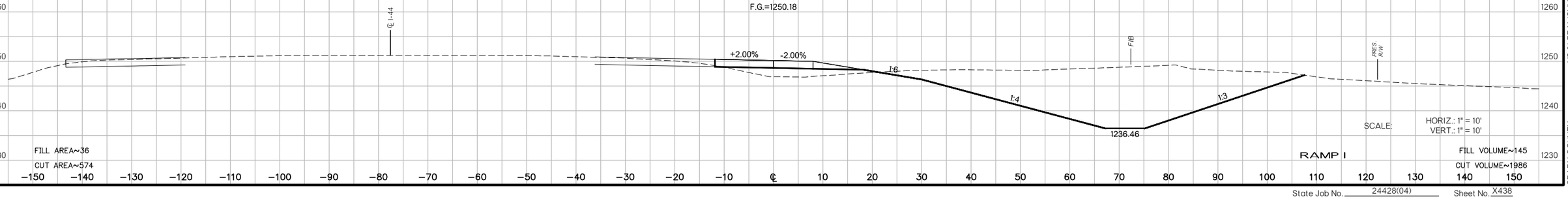
96 STA. 286+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 100 LF 18" RCP INTO DITCH LT. W/ CET
TG=1251.06, FL=1246.38, DS FL=1237.69

318+77.02
F.G.=1250.30



FILL AREA~16
CUT AREA~536
FILL VOLUME~44
CUT VOLUME~934

END NORMAL CROWN
318+31.60
F.G.=1250.18



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP I

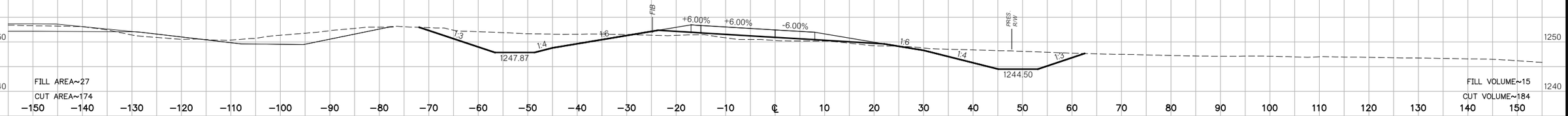
FILL AREA~36
CUT AREA~574
FILL VOLUME~145
CUT VOLUME~1986

US 81 REALIGNMENT
GRADY COUNTY

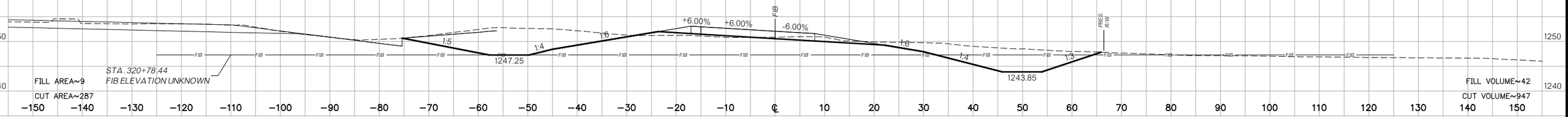
State Job No. 24428(04) Sheet No. X438

PROPOSED
R/W
AUGUST 2017

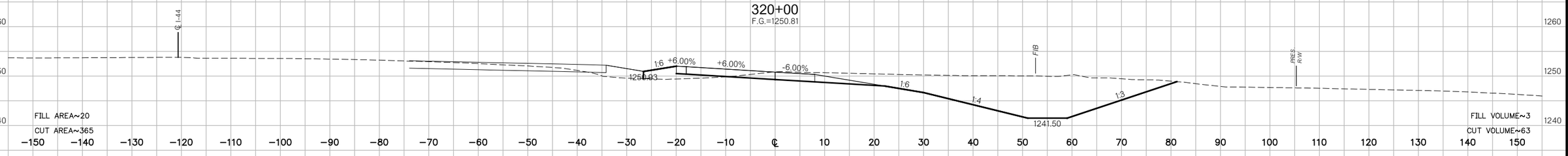
321+00
F.G.=1252.42



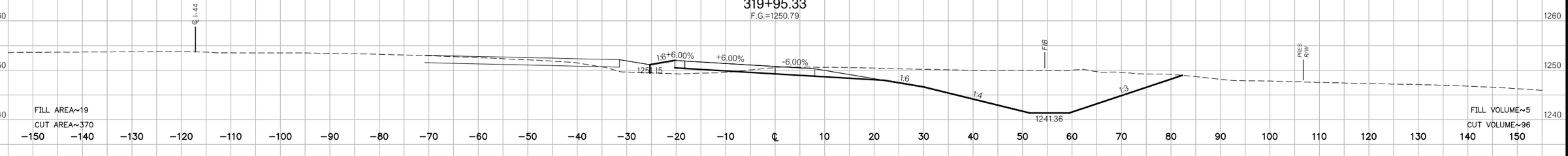
320+78.44
F.G.=1252.08



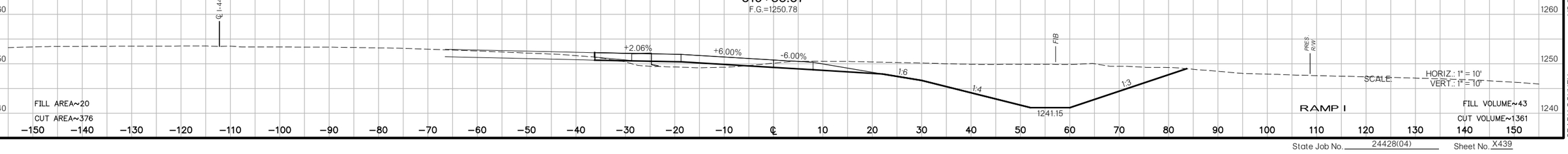
320+00
F.G.=1250.81



319+95.33
F.G.=1250.79



319+88.37
F.G.=1250.78

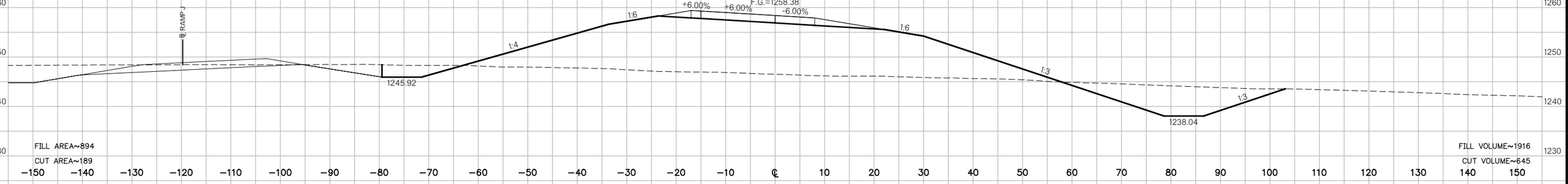


US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X439

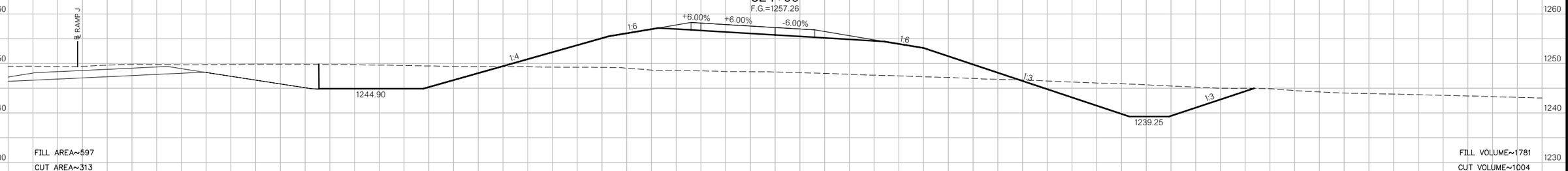
PROPOSED
R/W
AUGUST 2017

324+69.37
F.G.=1258.38



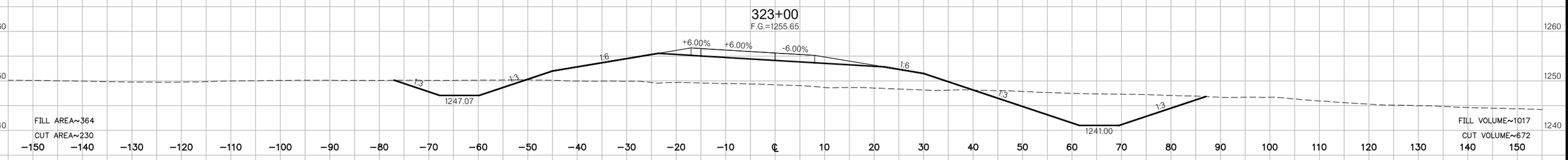
FILL AREA~894
CUT AREA~189
FILL VOLUME~1916
CUT VOLUME~645

324+00
F.G.=1257.26



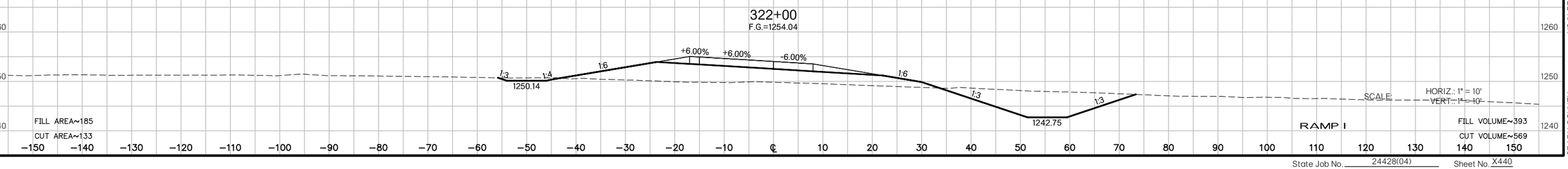
FILL AREA~597
CUT AREA~313
FILL VOLUME~1781
CUT VOLUME~1004

323+00
F.G.=1255.65



FILL AREA~364
CUT AREA~230
FILL VOLUME~1017
CUT VOLUME~672

322+00
F.G.=1254.04



FILL AREA~185
CUT AREA~133
FILL VOLUME~393
CUT VOLUME~569

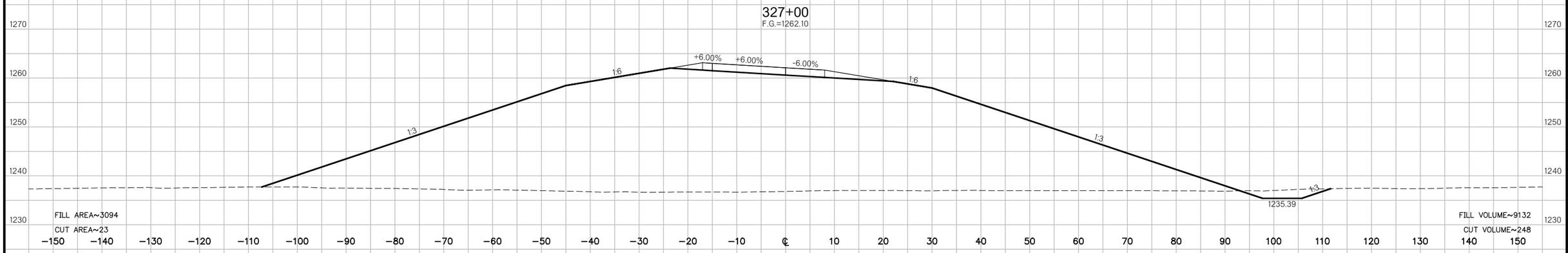
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

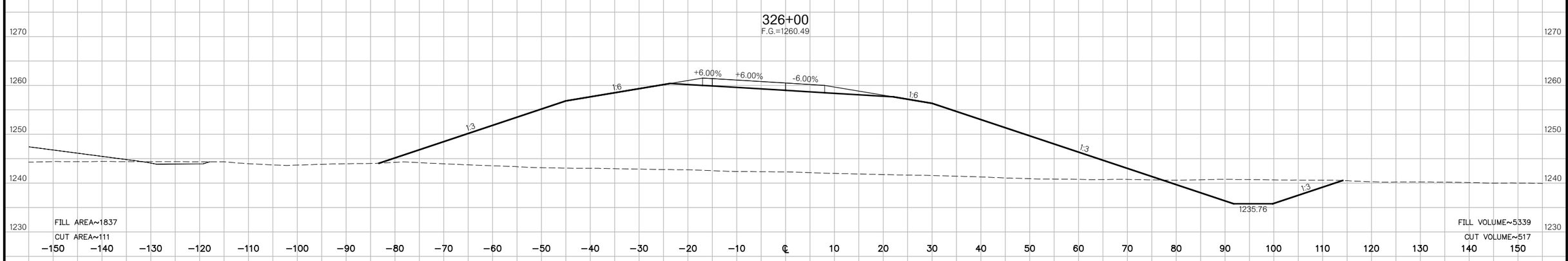
RAMP I

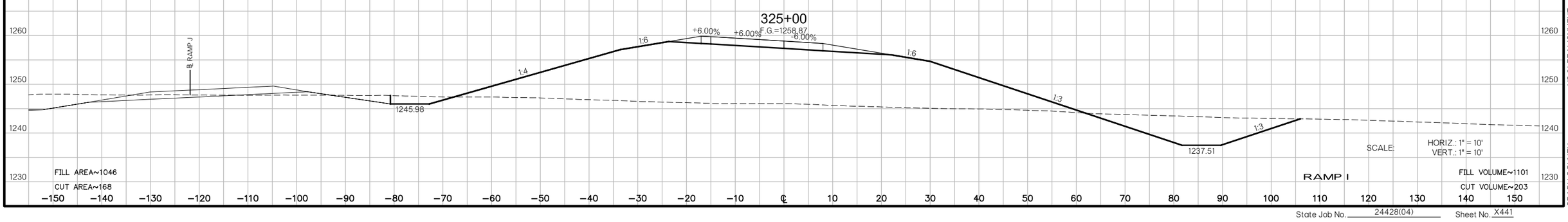
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X440

PROPOSED
R/W
AUGUST 2017







SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP I

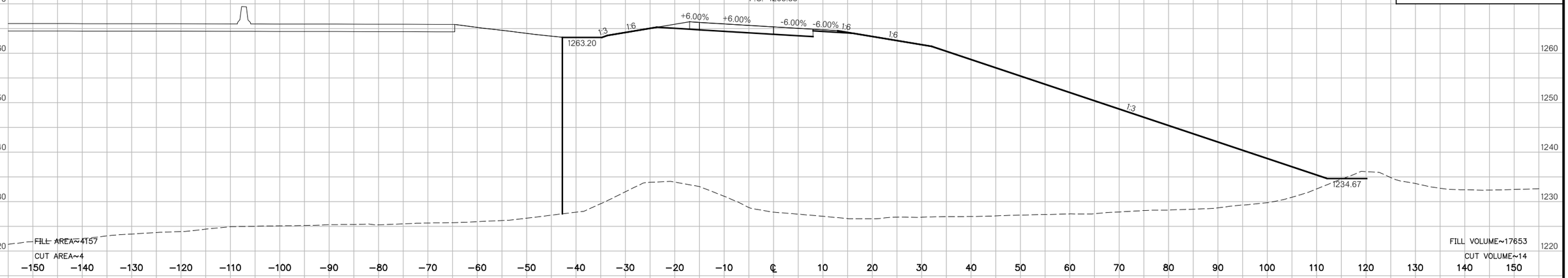
US 81 REALIGNMENT

GRADY COUNTY

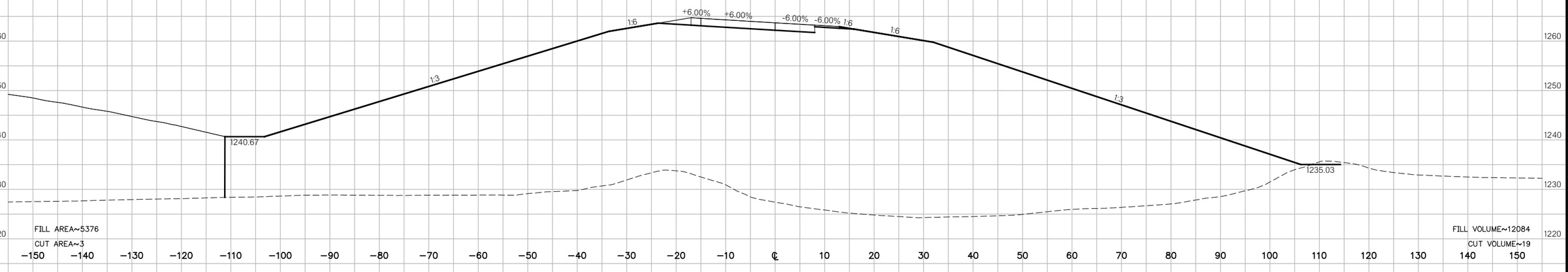
State Job No. 24428(04) Sheet No. X441

PROPOSED
R/W
AUGUST 2017

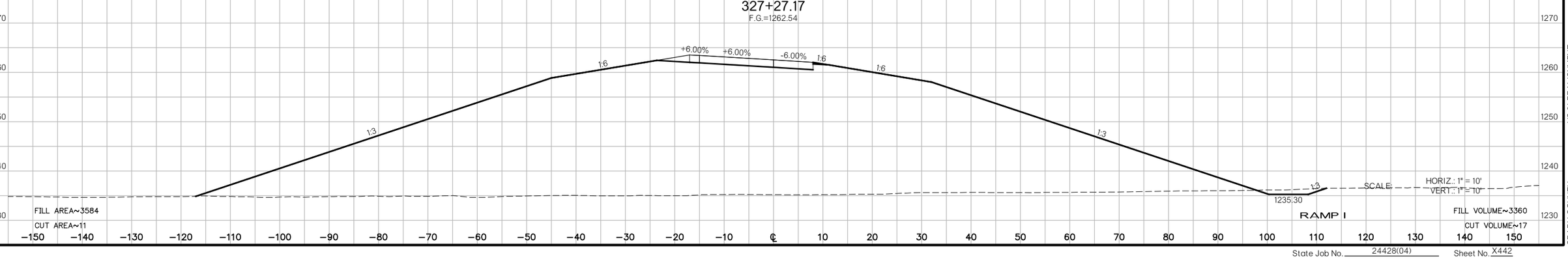
329+00
F.G.=1265.33



328+00
F.G.=1263.71



327+27.17
F.G.=1262.54

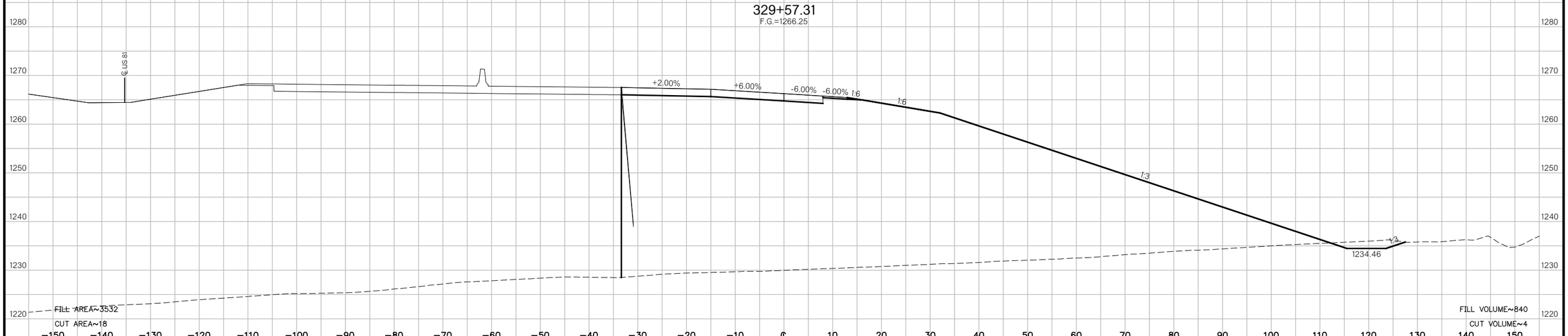


US 81 REALIGNMENT
GRADY COUNTY

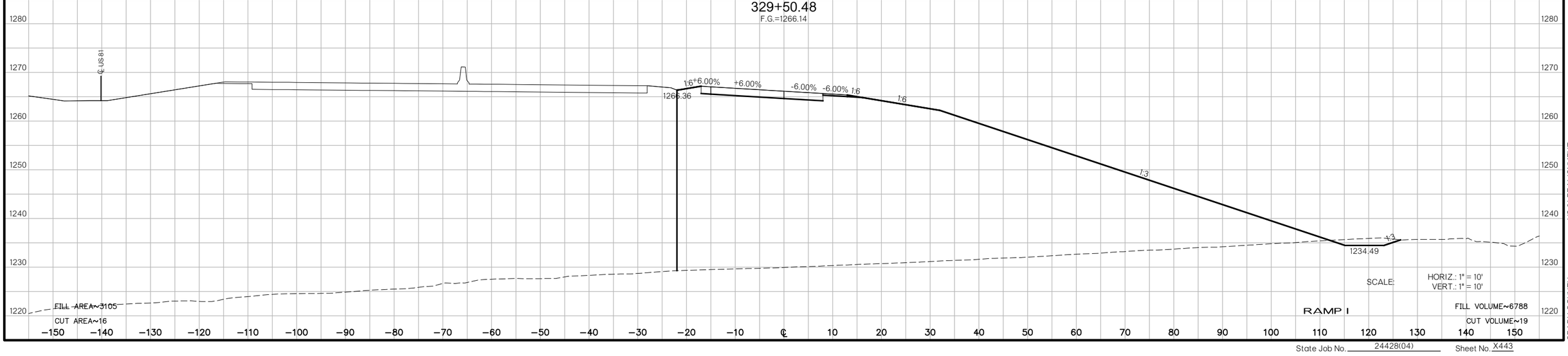
State Job No. 24428(04) Sheet No. X442

PROPOSED
R/W
AUGUST 2017

329+57.31
F.G.=1266.25



329+50.48
F.G.=1266.14



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP I

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X443

PROPOSED
R/W
AUGUST 2017

330+00
F.G.=1267.35

℄ US 81

+6.00% +6.00% -6.00% -6.00% 1:6 1:6 1:3 1:3

1234.31

1280 1270 1260 1250 1240 1230 1220

−150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FILL AREA~2776
CUT AREA~43

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP I

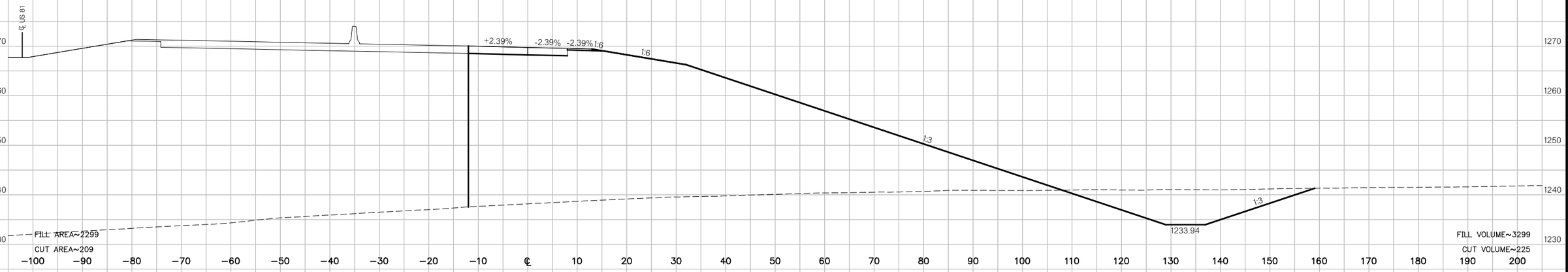
FILL VOLUME~4986
CUT VOLUME~48

US 81 REALIGNMENT
GRADY COUNTY

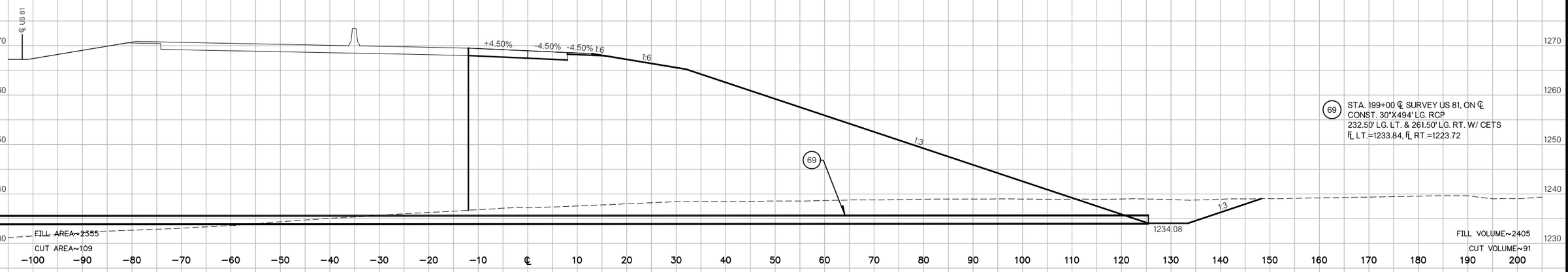
State Job No. 24428(04) Sheet No. X444

PROPOSED
R/W
AUGUST 2017

331+00
F.G.=1269.73

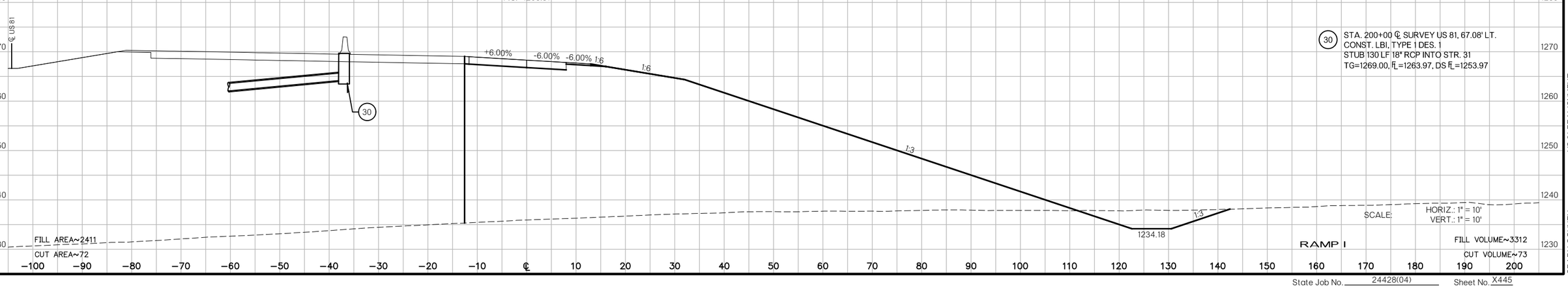


330+61.72
F.G.=1268.97



69 STA. 199+00 ℄ SURVEY US 81, ON ℄
CONST. 30"X494' LG. RCP
232.50' LG. LT. & 261.50' LG. RT. W/ CETS
FL LT.=1233.84, FL RT.=1223.72

END FULL SUPERELEVATION
330+34.47
F.G.=1268.31



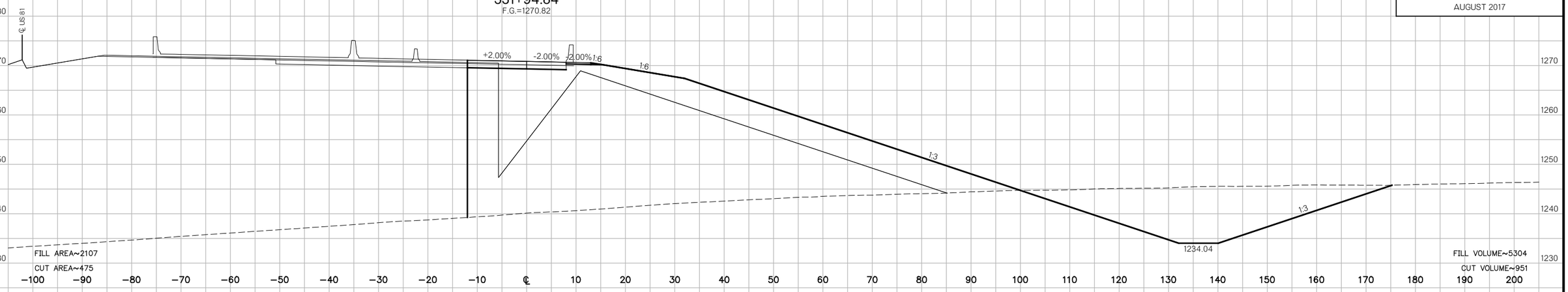
30 STA. 200+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 130 LF 18" RCP INTO STR. 31
TG=1269.00, FL=1263.97, DS FL=1253.97

US 81 REALIGNMENT
GRADY COUNTY

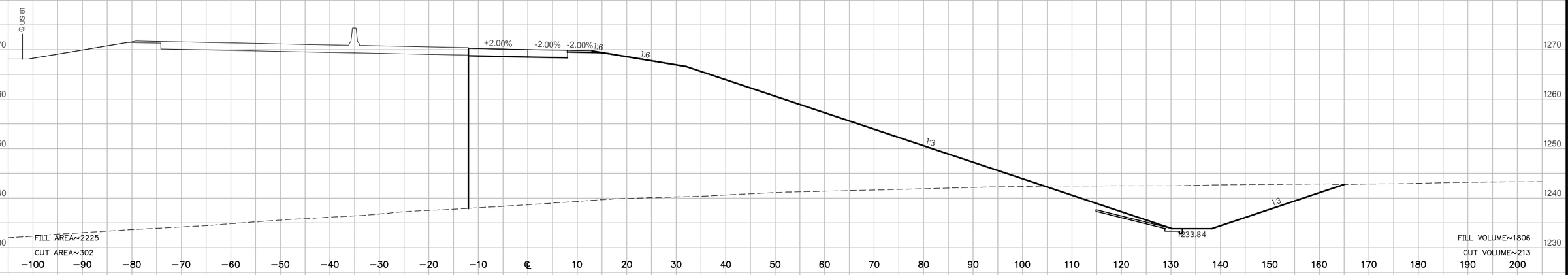
State Job No. 24428(04) Sheet No. X445

PROPOSED
R/W
AUGUST 2017

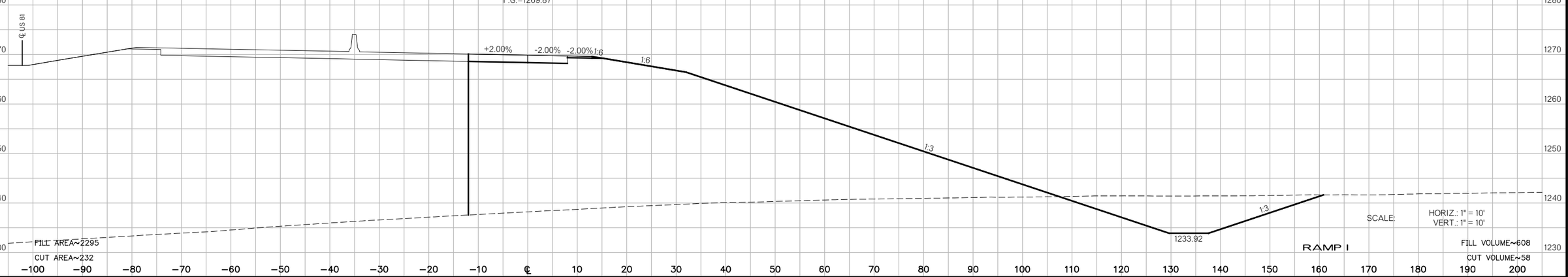
END PROJECT
331+94.84
F.G.=1270.82



331+28.72
F.G.=1270.01



BEGIN NORMAL CROWN
331+07.14
F.G.=1269.87



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

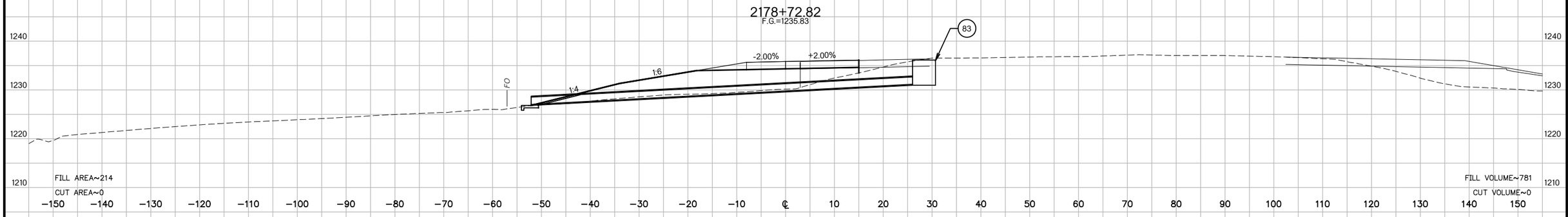
RAMP I

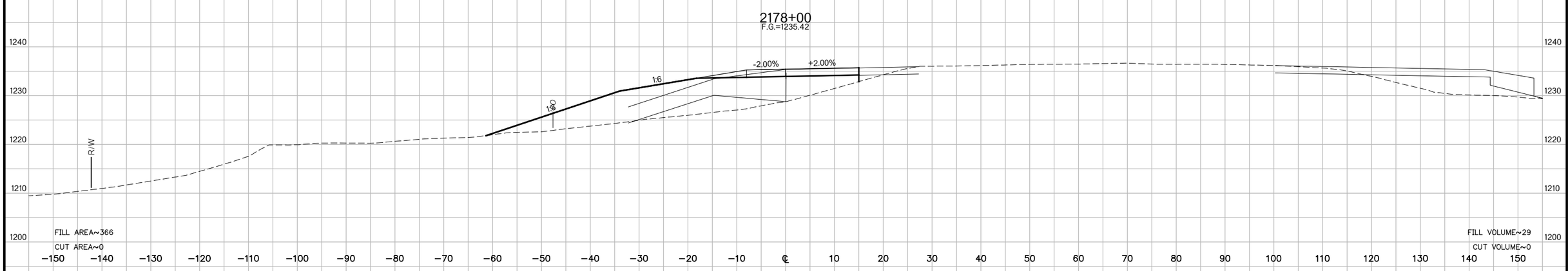
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X446

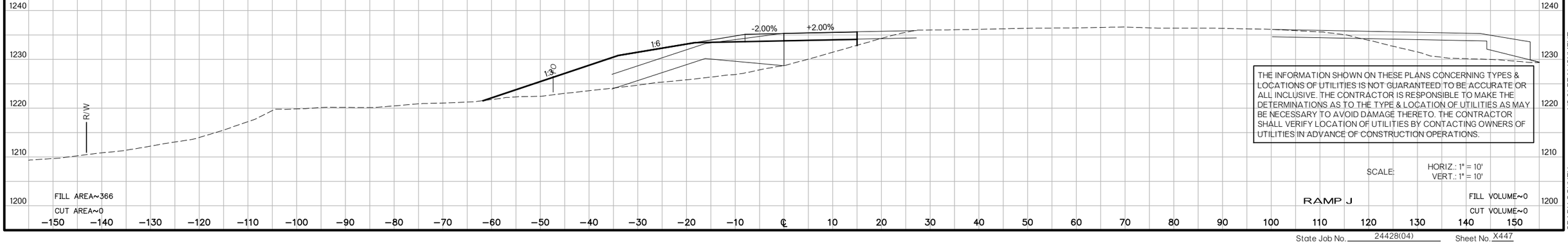
PROPOSED
R/W
AUGUST 2017

83 STA. 265+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 82 LF 18" RCP INTO DITCH LT. W/ CET
TG=1236.13, FL=1231.45, DS FL=1226.83





BEGIN PROJECT
2177+97.85
F.G.=1235.30



THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPES & LOCATIONS OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE TO MAKE THE DETERMINATIONS AS TO THE TYPE & LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING OWNERS OF UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS.

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

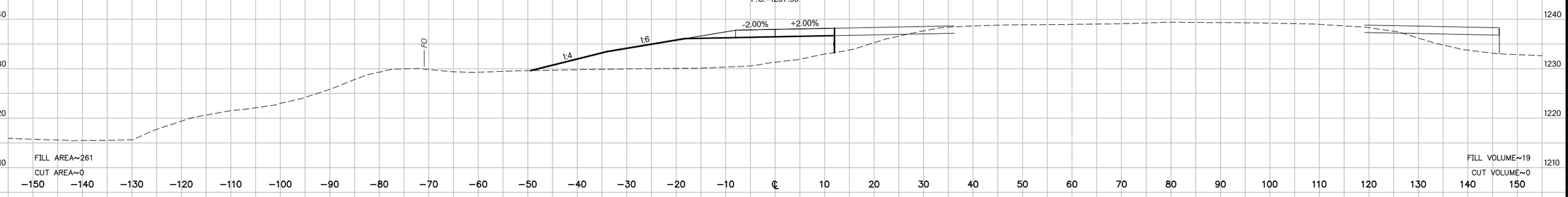
RAMP J

US 81 REALIGNMENT
GRADY COUNTY

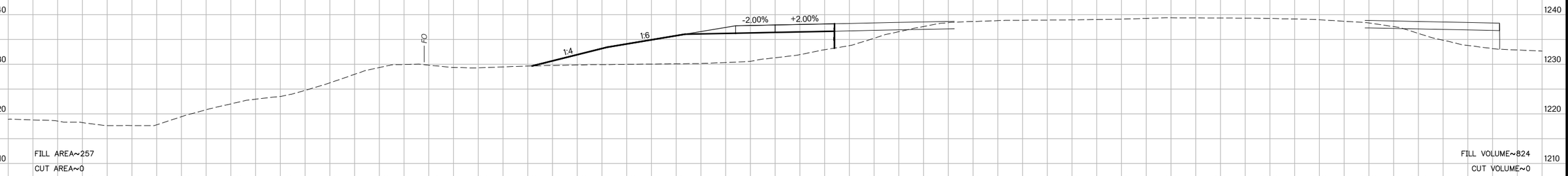
State Job No. 24428(04) Sheet No. X447

PROPOSED
R/W
AUGUST 2017

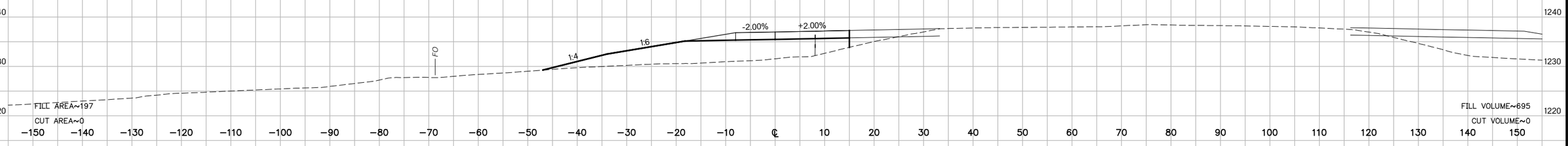
2181+00
F.G.=1237.95



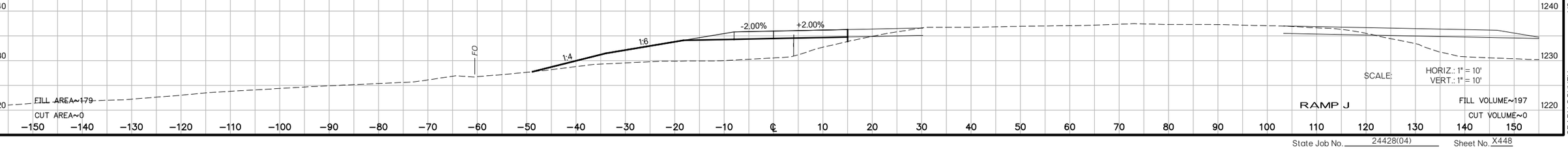
2180+97.98
F.G.=1237.93



2180+00
F.G.=1236.99



2179+00
F.G.=1235.98



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

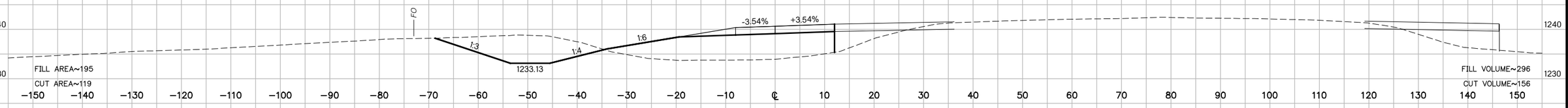
RAMP J

US 81 REALIGNMENT
GRADY COUNTY

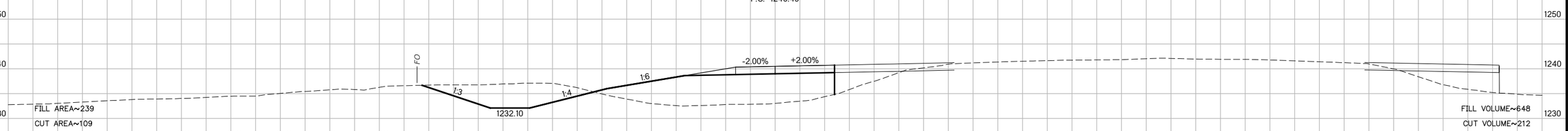
State Job No. 24428(04) Sheet No. X448

PROPOSED
R/W
AUGUST 2017

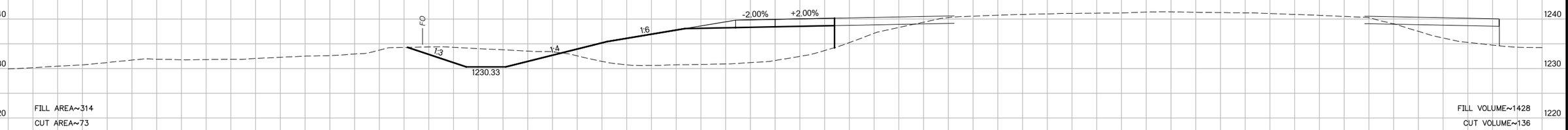
2184+00
F.G.=1240.63



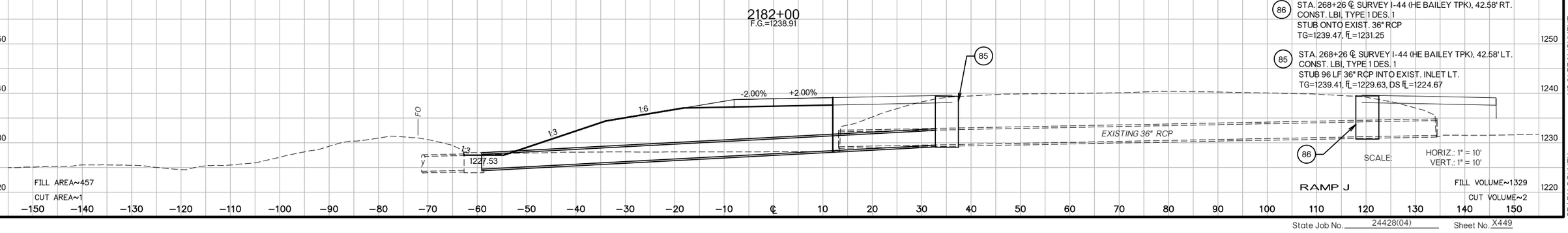
END NORMAL CROWN
2183+63.19
F.G.=1240.49



2183+00
F.G.=1239.93



2182+00
F.G.=1238.91



86 STA. 268+26 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB ONTO EXIST. 36" RCP
TG=1239.47, FL=1231.25

85 STA. 268+26 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 96 LF 36" RCP INTO EXIST. INLET LT.
TG=1239.41, FL=1229.63, DS FL=1224.67

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

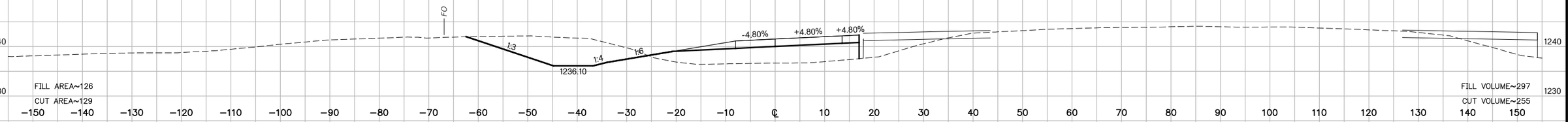
RAMP J

US 81 REALIGNMENT
GRADY COUNTY

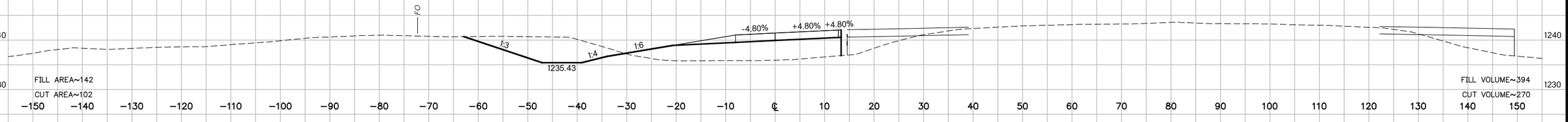
State Job No. 24428(04) Sheet No. X449

PROPOSED
R/W
AUGUST 2017

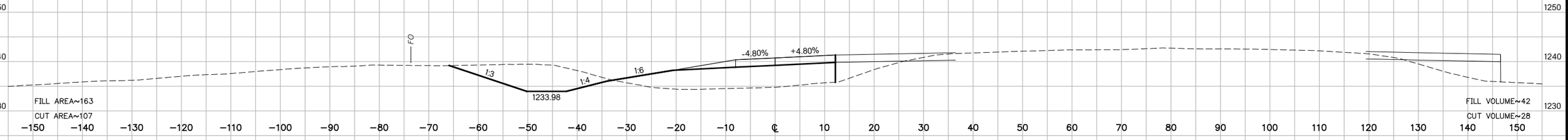
2185+59.76
F.G.=1241.51



2185+00
F.G.=1241.42

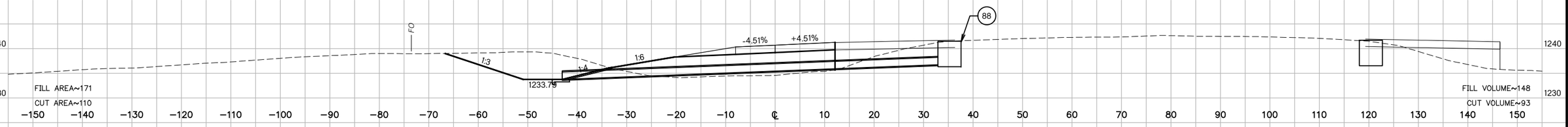


BEGIN FULL SUPERELEVATION
2184+30.27
F.G.=1240.74

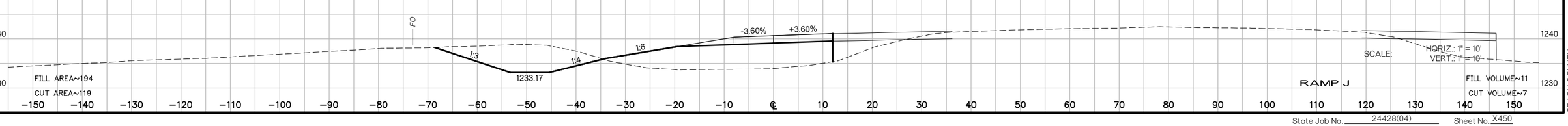


2184+23.41
F.G.=1240.71

88 STA. 270+50 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 80 LF 18" RCP INTO DITCH LT. W/ CET
TG=1241.52, FL=1236.84, DS FL=1233.79



2184+01.52
F.G.=1240.63



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

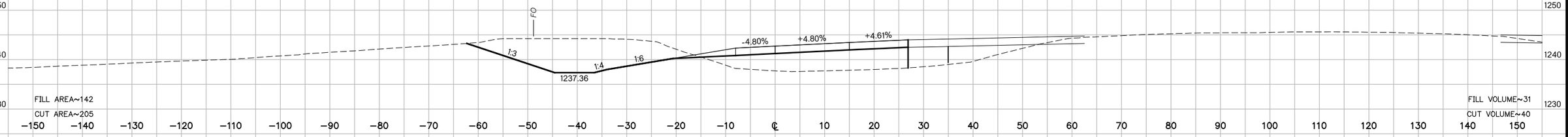
RAMP J

US 81 REALIGNMENT
GRADY COUNTY

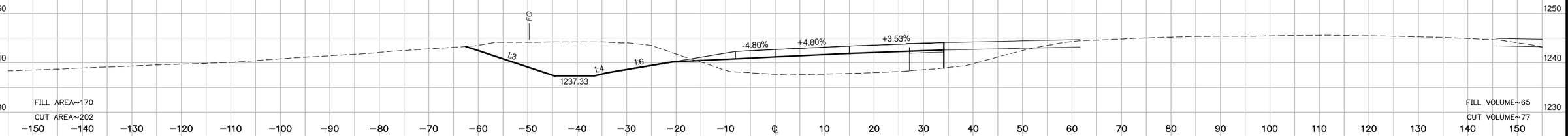
State Job No. 24428(04) Sheet No. X450

PROPOSED
R/W
AUGUST 2017

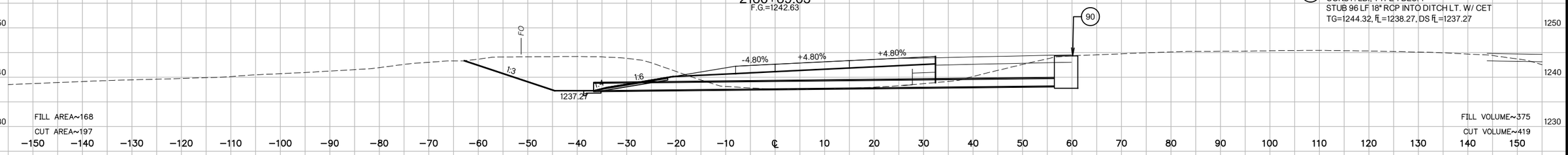
2187+05.34
F.G.=1242.72



2187+00
F.G.=1242.69

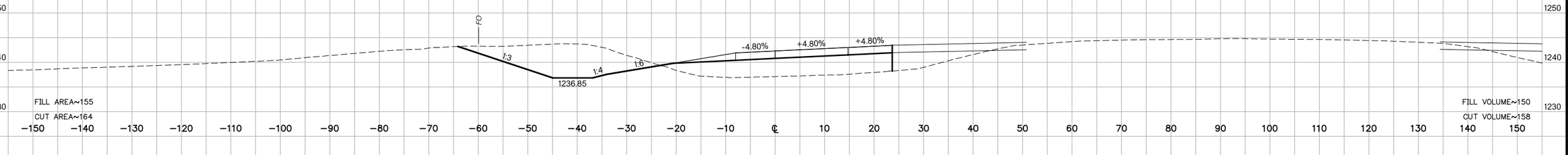


2186+89.63
F.G.=1242.63

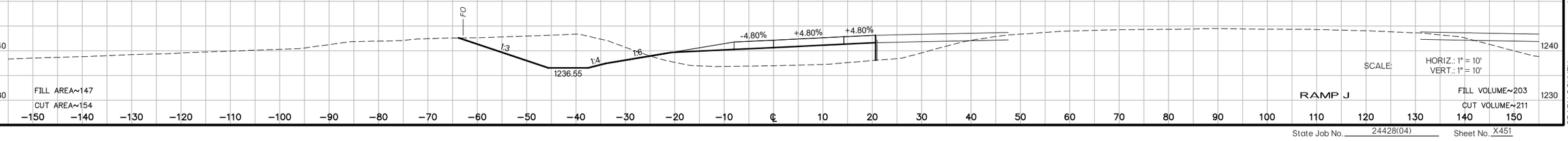


(90) STA. 273+25 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 96 LF 18" RCP INTO DITCH LT. W/ CET
TG=1244.32, FL=1238.27, DS FL=1237.27

2186+26.84
F.G.=1242.30



2186+00
F.G.=1242.16



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

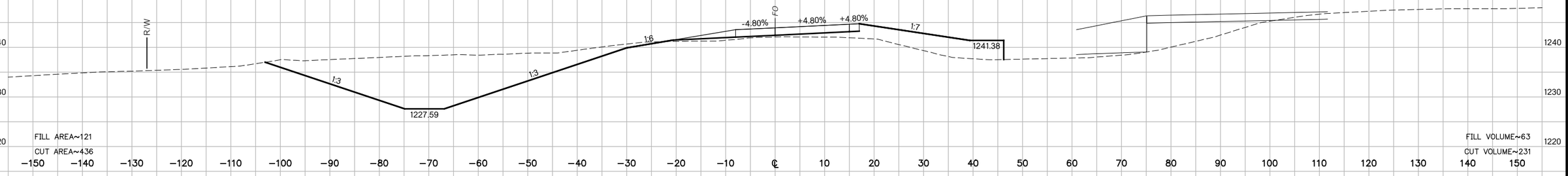
RAMP J

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X451

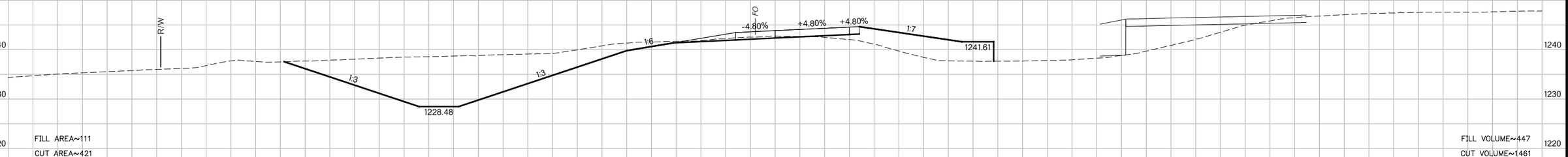
PROPOSED
R/W
AUGUST 2017

2189+14.55
F.G.=1243.93



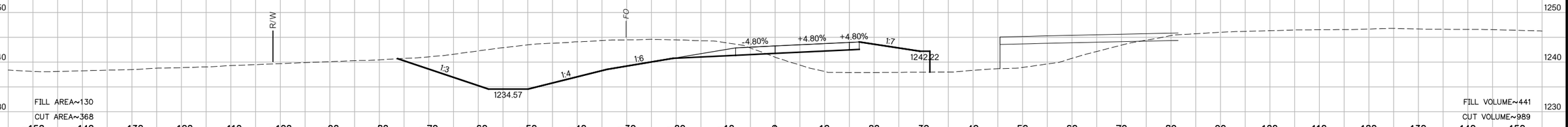
FILL AREA~121
CUT AREA~436
FILL VOLUME~63
CUT VOLUME~231

2189+00
F.G.=1243.85



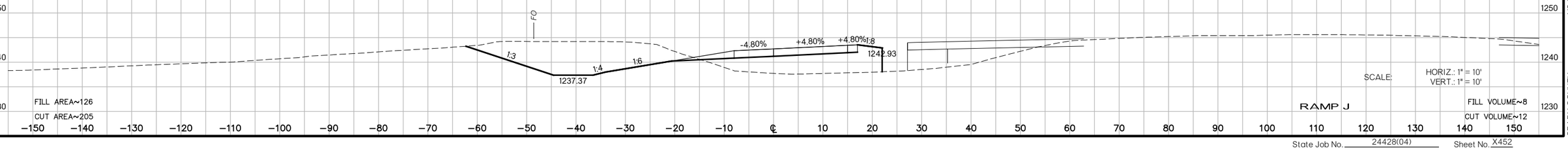
FILL AREA~111
CUT AREA~421
FILL VOLUME~447
CUT VOLUME~1461

2188+00
F.G.=1243.27



FILL AREA~130
CUT AREA~368
FILL VOLUME~441
CUT VOLUME~989

2187+06.96
F.G.=1242.73



FILL AREA~126
CUT AREA~205
FILL VOLUME~8
CUT VOLUME~12

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

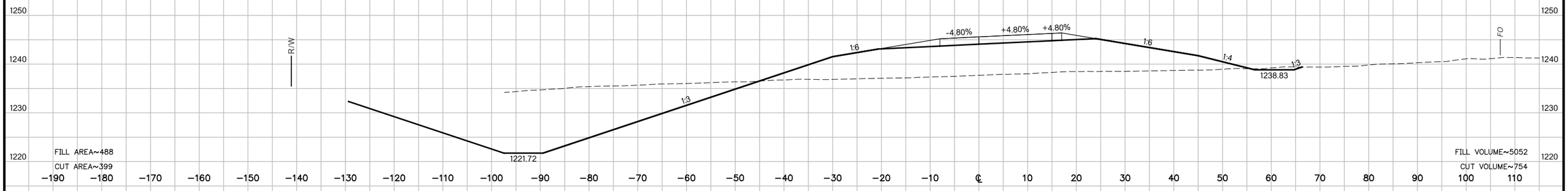
RAMP J

US 81 REALIGNMENT
GRADY COUNTY

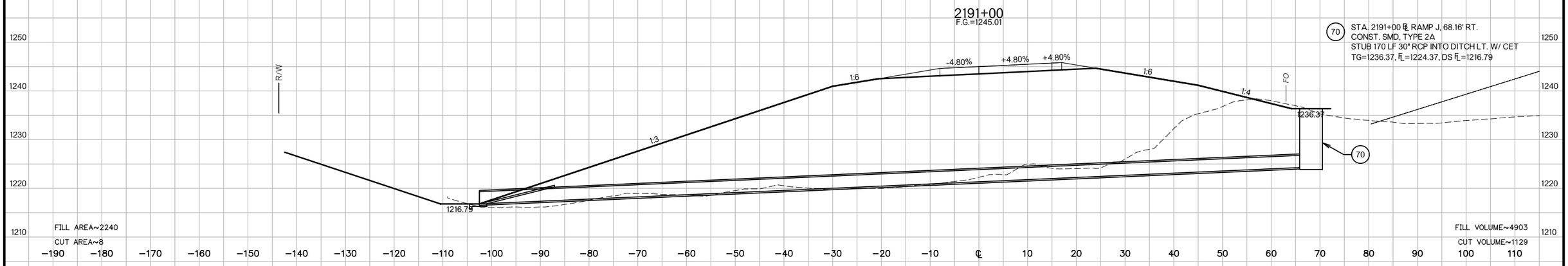
State Job No. 24428(04) Sheet No. X452

PROPOSED
R/W
AUGUST 2017

2192+00
F.G.=1245.59

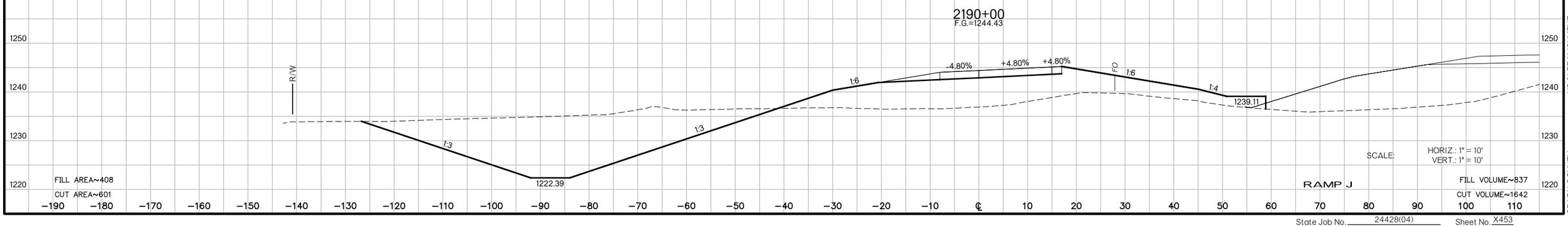


2191+00
F.G.=1245.01



70 STA. 2191+00 ℄ RAMP J, 68.16' RT.
CONST. SMD, TYPE 2A
STUB 170 LF 30" RCP INTO DITCH LT. W/ CET
TG=1236.37, FL=1224.37, DS FL=1216.79

2190+00
F.G.=1244.43



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP J

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X453

PROPOSED
R/W

2193+00
F.G.=1246.17

-4.80%
+4.80%
+4.80%
1:6
1:6
1:4
1:3
1:3
1241.35
1227.07
R/W

1250
1240
1230
1220

−190 −180 −170 −160 −150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90 100 110

FILL AREA~265
CUT AREA~309

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP J

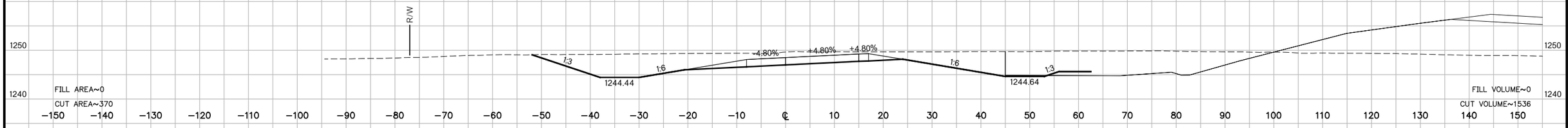
FILL VOLUME~1393
CUT VOLUME~1312

US 81 REALIGNMENT
GRADY COUNTY

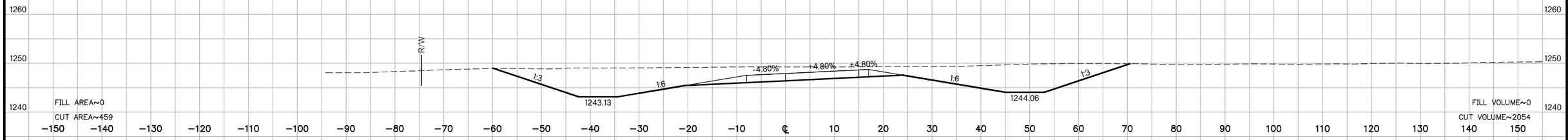
State Job No. 24428(04) Sheet No. X454

PROPOSED
R/W
AUGUST 2017

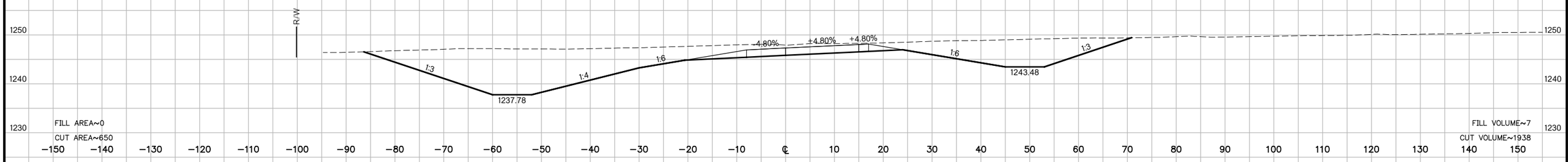
2197+00
F.G.=1248.49



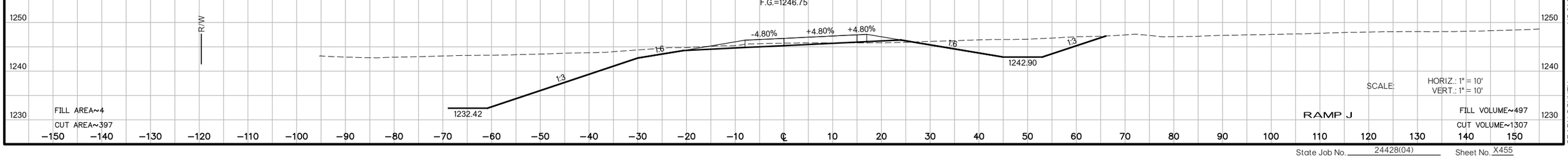
2196+00
F.G.=1247.91



2195+00
F.G.=1247.33



2194+00
F.G.=1246.75



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

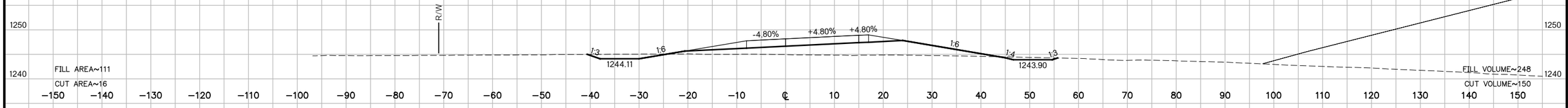
RAMP J

US 81 REALIGNMENT
GRADY COUNTY

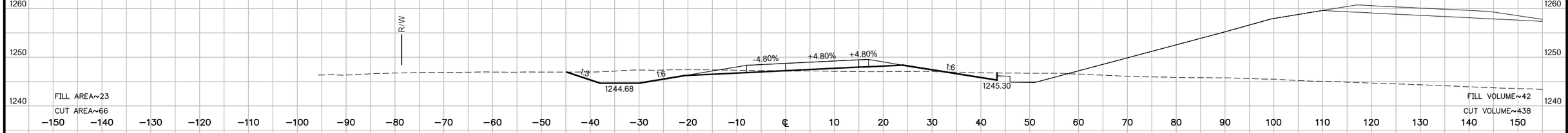
State Job No. 24428(04) Sheet No. X455

PROPOSED
R/W
AUGUST 2017

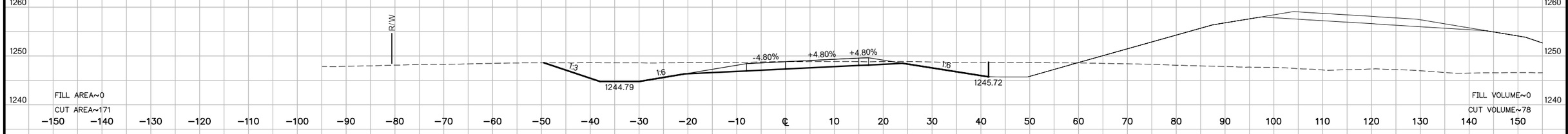
2200+00
F.G.=1248.16



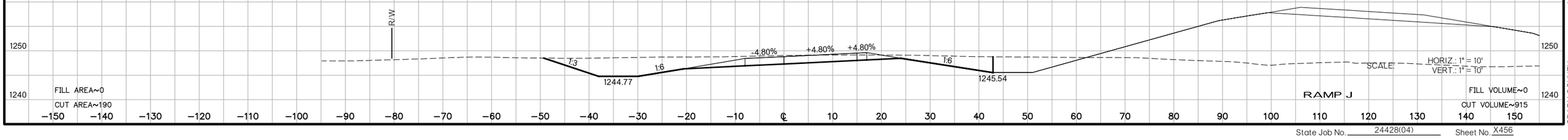
2199+00
F.G.=1248.73



2198+00
F.G.=1248.84



2197+88.29
F.G.=1248.82

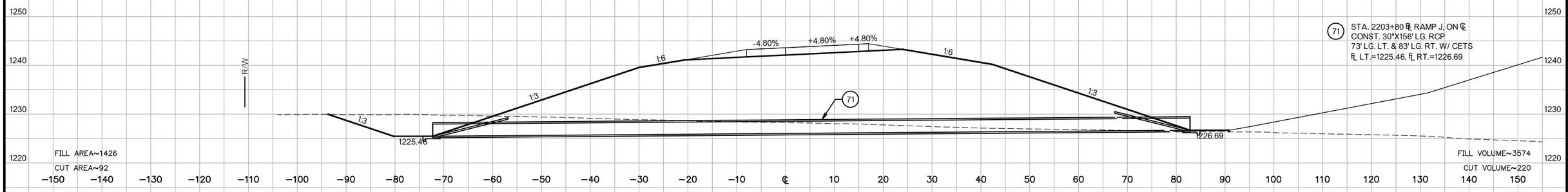


US 81 REALIGNMENT
GRADY COUNTY

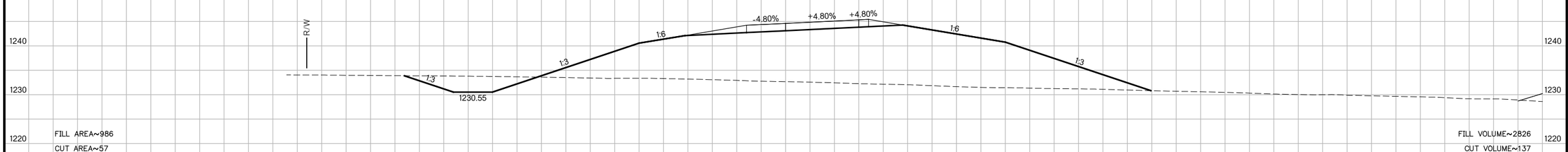
State Job No. 24428(04) Sheet No. X456

PROPOSED
R/W
AUGUST 2017

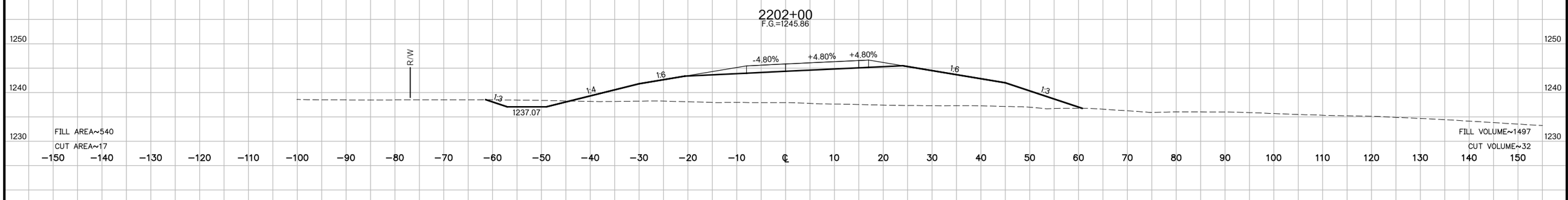
2203+80
F.G.=1243.59



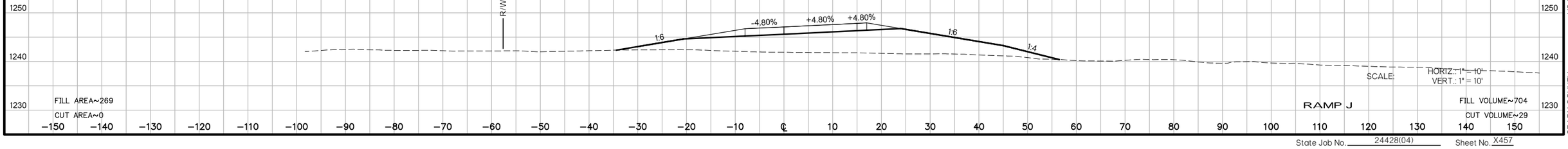
2203+00
F.G.=1244.60



2202+00
F.G.=1245.86



2201+00
F.G.=1247.13



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

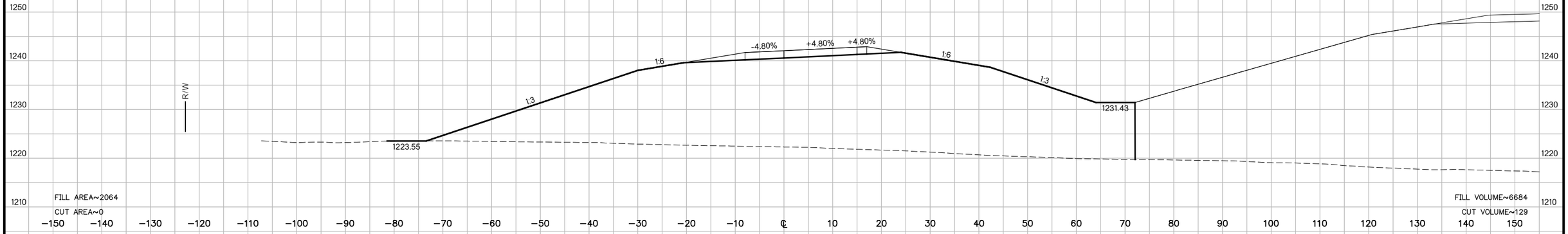
RAMP J

US 81 REALIGNMENT
GRADY COUNTY

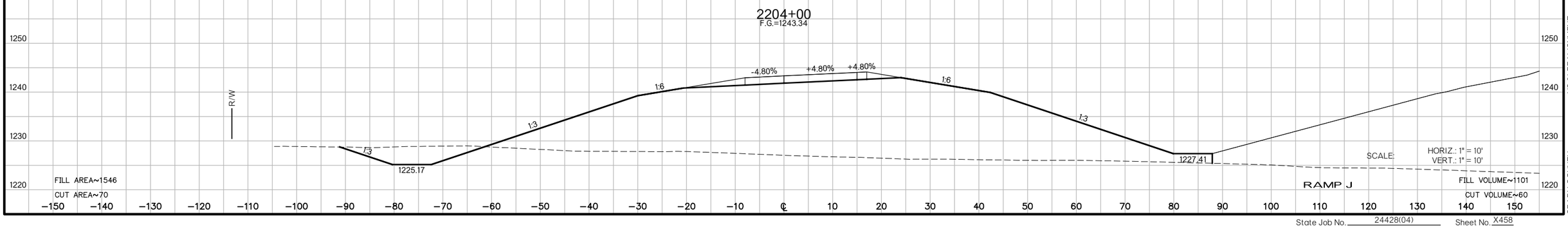
State Job No. 24428(04) Sheet No. X457

PROPOSED
R/W
AUGUST 2017

2205+00
F.G.=1242.08



2204+00
F.G.=1243.34

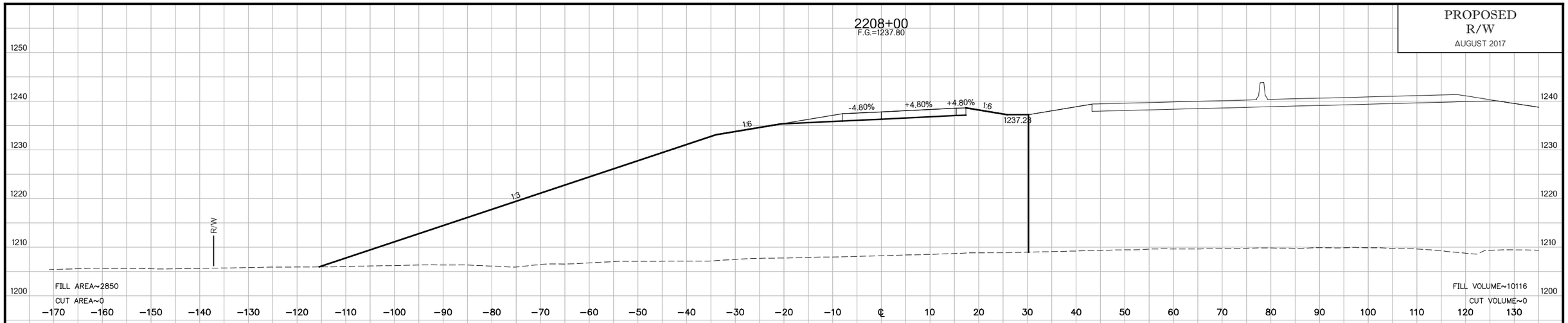


US 81 REALIGNMENT
GRADY COUNTY

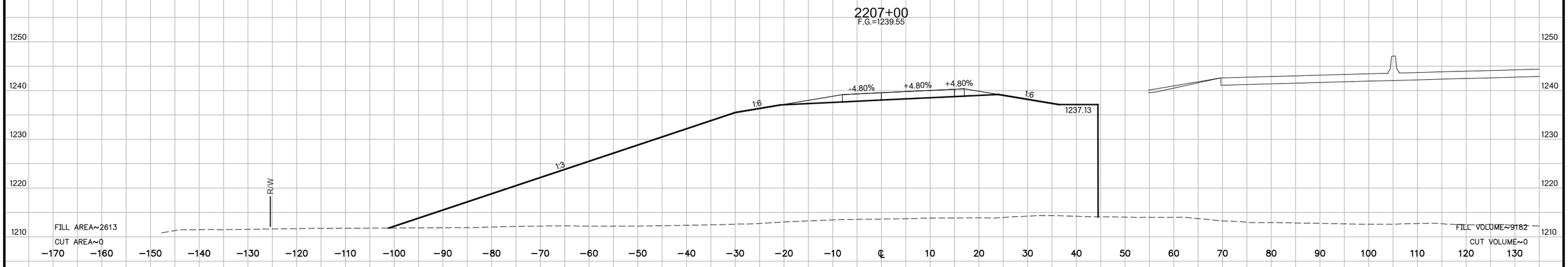
State Job No. 24428(04) Sheet No. X458

PROPOSED
R/W
AUGUST 2017

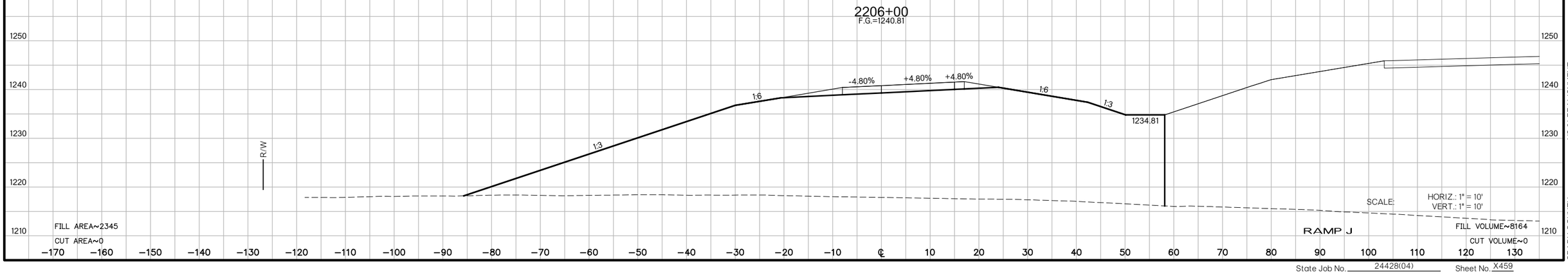
2208+00
F.G.=1237.80



2207+00
F.G.=1239.55



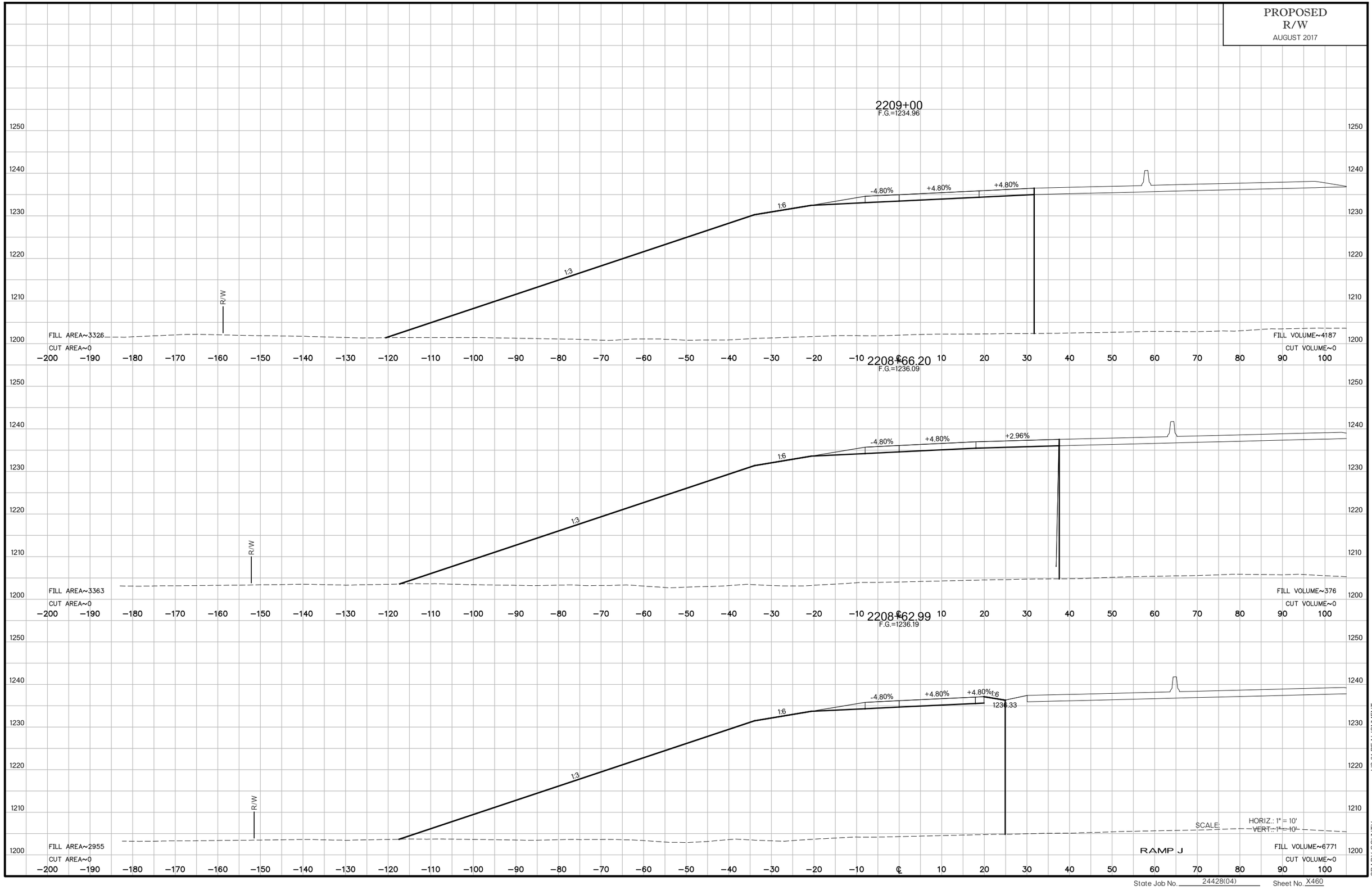
2206+00
F.G.=1240.81



US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X459

PROPOSED
R/W
AUGUST 2017

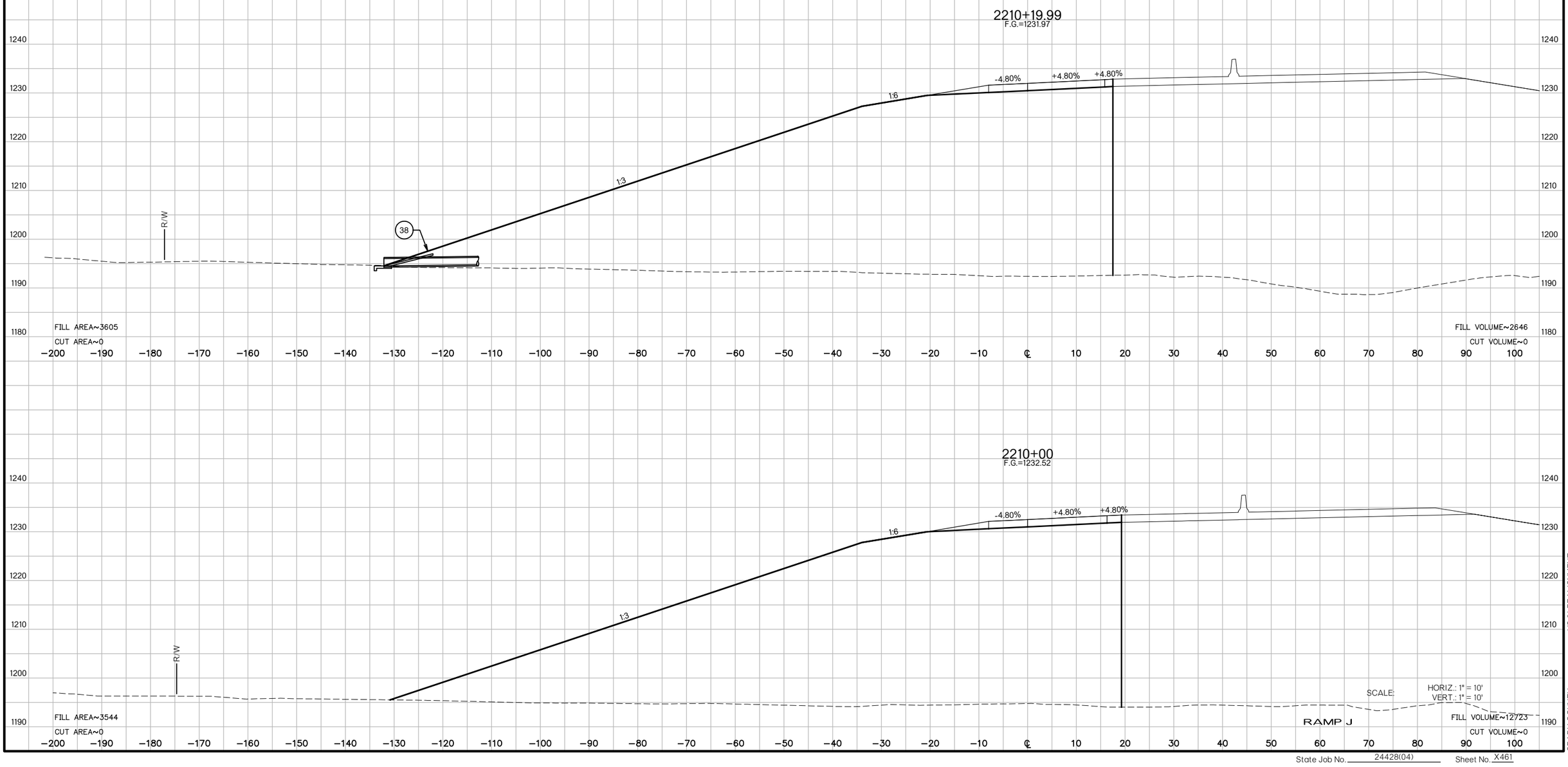


US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X460

PROPOSED
R/W
AUGUST 2017

38 STA. 213+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 174 LF 18" RCP INTO DITCH LT. W/ CET
TG=1232.47, FL=1217.47, DS FL=1194.53



US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X461

PROPOSED
R/W
AUGUST 2017

2210+34.54
F.G.=1231.58

38 STA. 213+00 ℄ SURVEY US 81, 67.08' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 174 LF 18" RCP INTO DITCH LT. W/ CET
TG=1232.47, FL=1217.47, DS FL=1194.53

-4.80% +4.80% +4.80%

1:6

1:3

38

R/W

FILL AREA~3583
CUT AREA~0

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP J

FILL VOLUME~1938
CUT VOLUME~0

1240 1230 1220 1210 1200 1190 1180

−200 −190 −180 −170 −160 −150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90 100

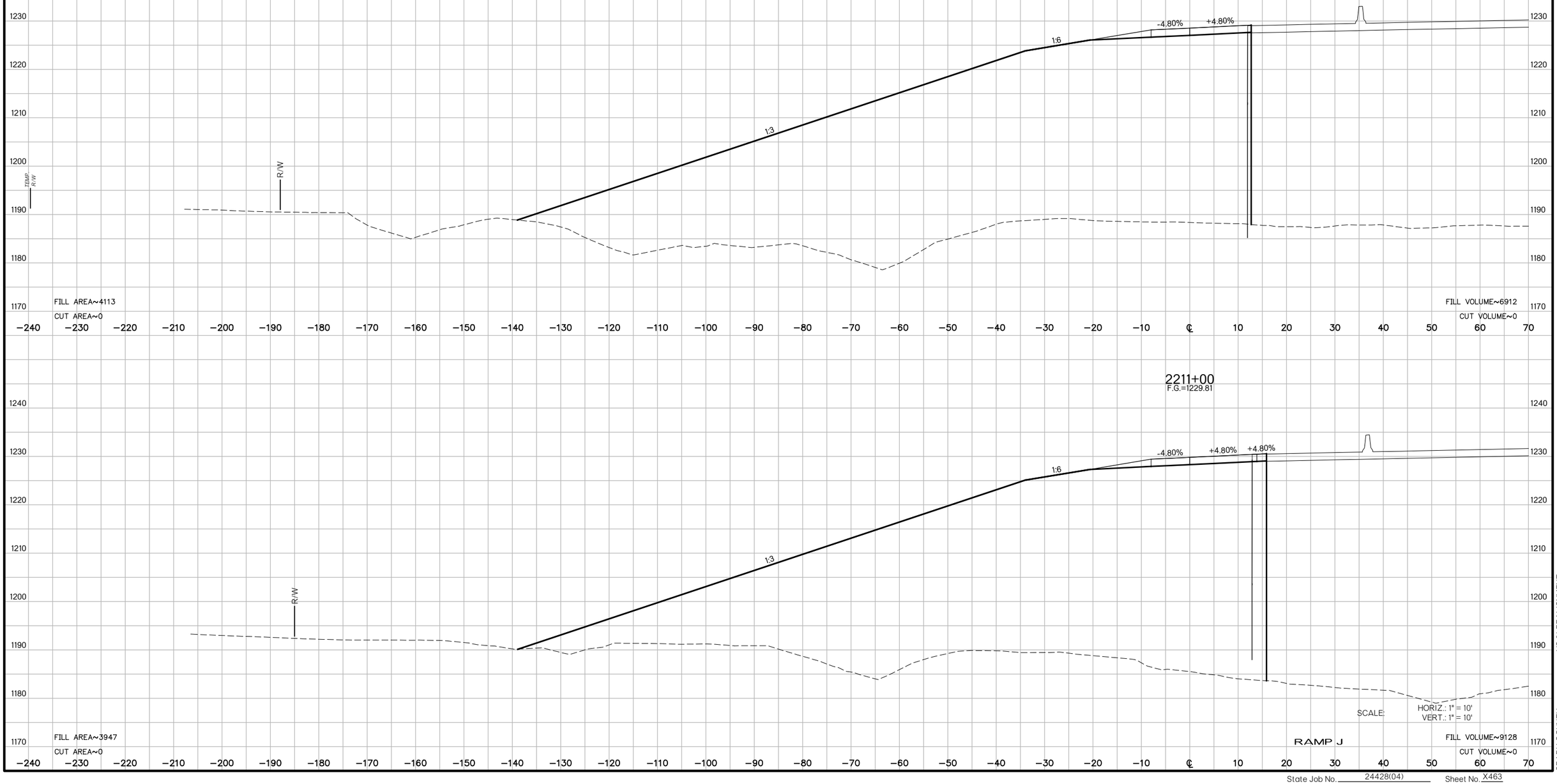
US 81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X462

PROPOSED
R/W
AUGUST 2017

END FULL SUPERELEVATION
2211+46.31
F.G.=1228.53



US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X463

PROPOSED
R/W
AUGUST 2017

2212+00
F.G.=1227.12

-2.56%
+2.56%
1:6
1:3
TEMP R/W
R/W
1:3
1182.56
FILL AREA~5481
CUT AREA~13
FILL VOLUME~4615
CUT VOLUME~6

2211+75.06
F.G.=1227.74

-3.60%
+3.60%
1:6
1:3
TEMP R/W
R/W
FILL AREA~4512
CUT AREA~0
FILL VOLUME~4593
CUT VOLUME~0

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP J

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X464

PROPOSED
R/W
AUGUST 2017

2212+27.81
F.G.=1226.35

-2.00%
+2.00%
1:6
1:3
TEMP. R/W
R/W
1:3
1173.63
FILL AREA~5437
CUT AREA~533
FILL VOLUME~2928
CUT VOLUME~168

BEGIN NORMAL CROWN
2212+13.39
F.G.=1226.78

-2.00%
+2.00%
1:6
1:3
TEMP. R/W
R/W
1:3
1178.26
FILL AREA~5528
CUT AREA~94
FILL VOLUME~2730
CUT VOLUME~27

SCALE HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP J

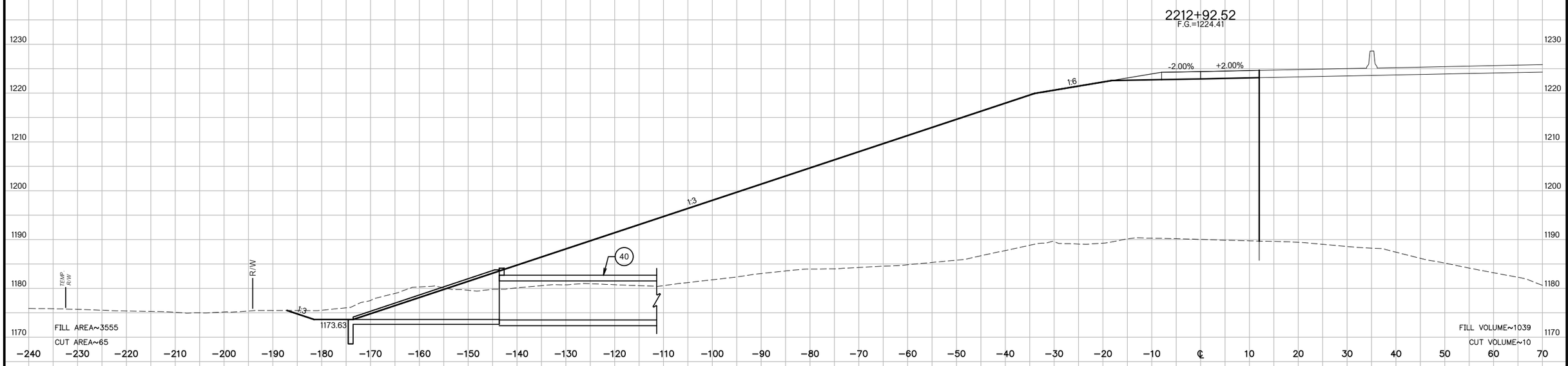
1240
1230
1220
1210
1200
1190
1180
1170
−240 −230 −220 −210 −200 −190 −180 −170 −160 −150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X465

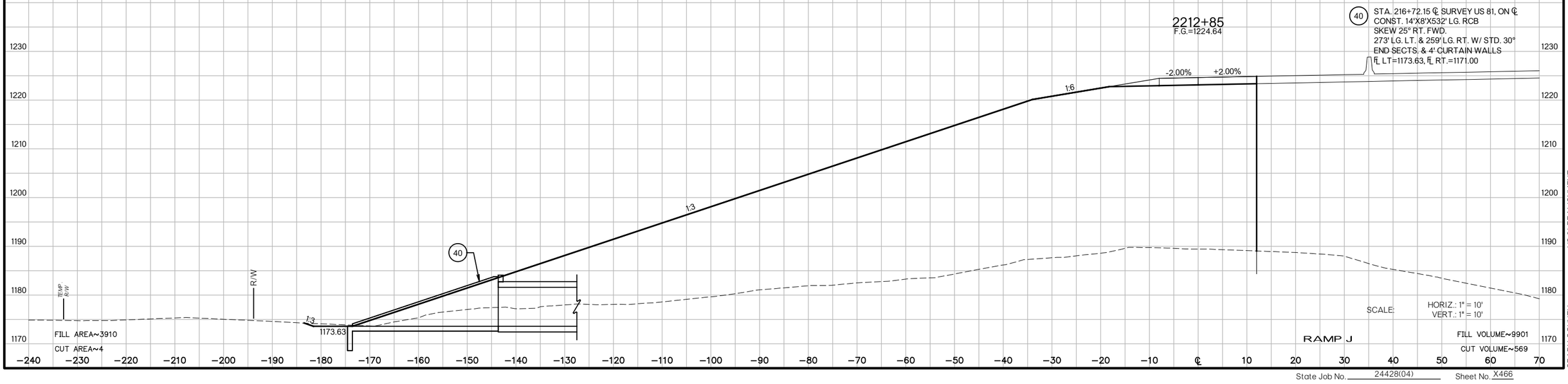
PROPOSED
R/W
AUGUST 2017

2212+92.52
F.G.=1224.41



2212+85
F.G.=1224.64

40 STA. 216+72.15 ℄ SURVEY US 81, ON ℄
CONST. 14'X8'X532' LG. RCB
SKEW 25° RT. FWD.
273' LG. LT. & 259' LG. RT. W/ STD. 30°
END SECTS. & 4' CURTAIN WALLS
℄ LT=1173.63, ℄ RT.=1171.00



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP J

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X466

PROPOSED
R/W
AUGUST 2017

2213+54.22
F.G.=1222.56

1230
1220
1210
1200
1190
1180
1170

TEMP R/W
R/W
1:3
1182.74
1:3
1:6
-2.00%
+2.00%

40

FILL AREA~2056
CUT AREA~514

FILL VOLUME~5359
CUT VOLUME~577

−240 −230 −220 −210 −200 −190 −180 −170 −160 −150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70

2213+00
F.G.=1224.19

40 STA. 216+72.15 ℄ SURVEY US 81, ON ℄
CONST. 14'X8'X532' LG. RCB
SKEW 25° RT. FWD.
273' LG. LT. & 259' LG. RT. W/ STD. 30°
END SECTS. & 4' CURTAIN WALLS
℄ LT=1173.63, ℄ RT.=1171.00

1230
1220
1210
1200
1190
1180
1170

TEMP R/W
R/W
1:3
1175.98
1:3
1:6
-2.00%
+2.00%

40

FILL AREA~3281
CUT AREA~60

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP J

FILL VOLUME~947
CUT VOLUME~17

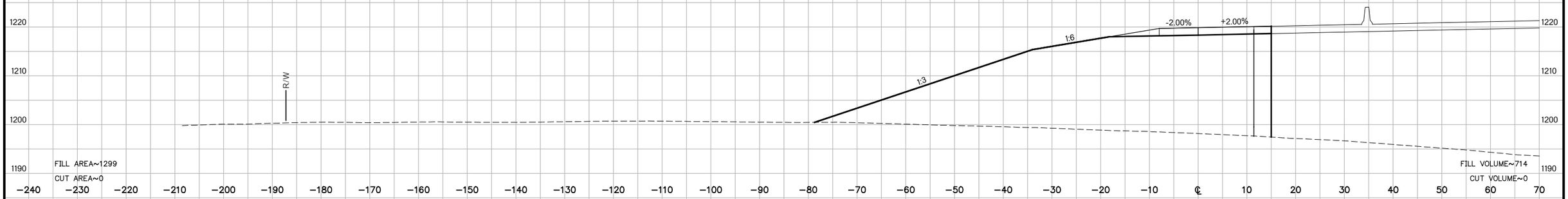
−240 −230 −220 −210 −200 −190 −180 −170 −160 −150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70

US 81 REALIGNMENT
GRADY COUNTY

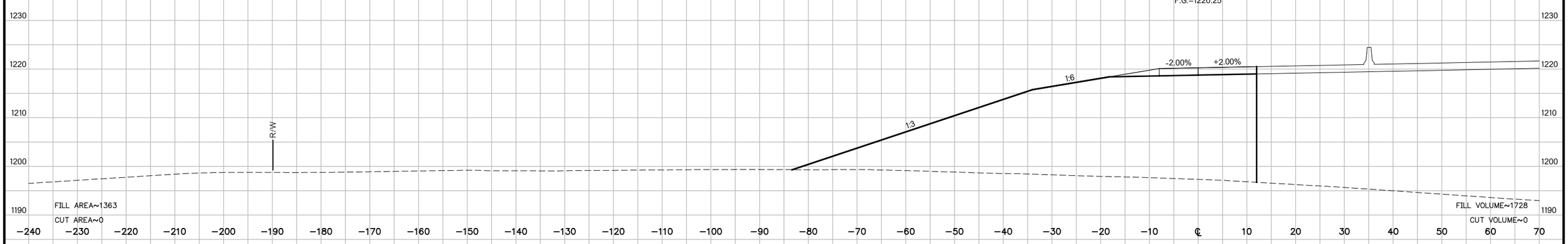
State Job No. 24428(04) Sheet No. X467

PROPOSED
R/W
AUGUST 2017

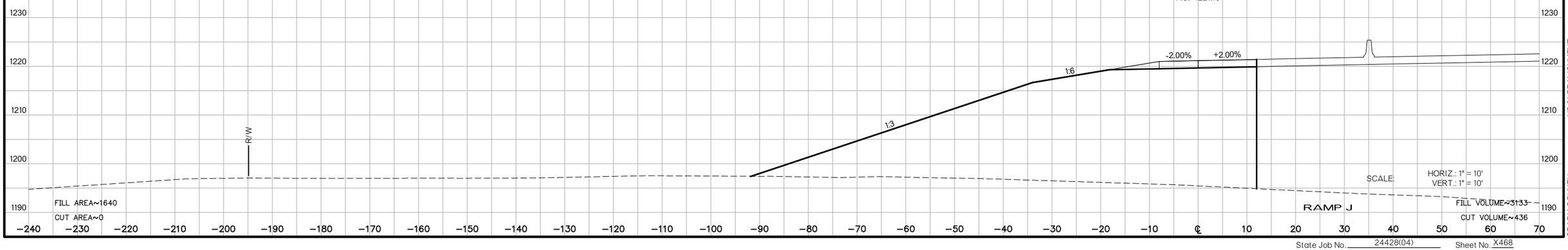
2214+45.56
F.G.=1219.84



2214+31.08
F.G.=1220.25



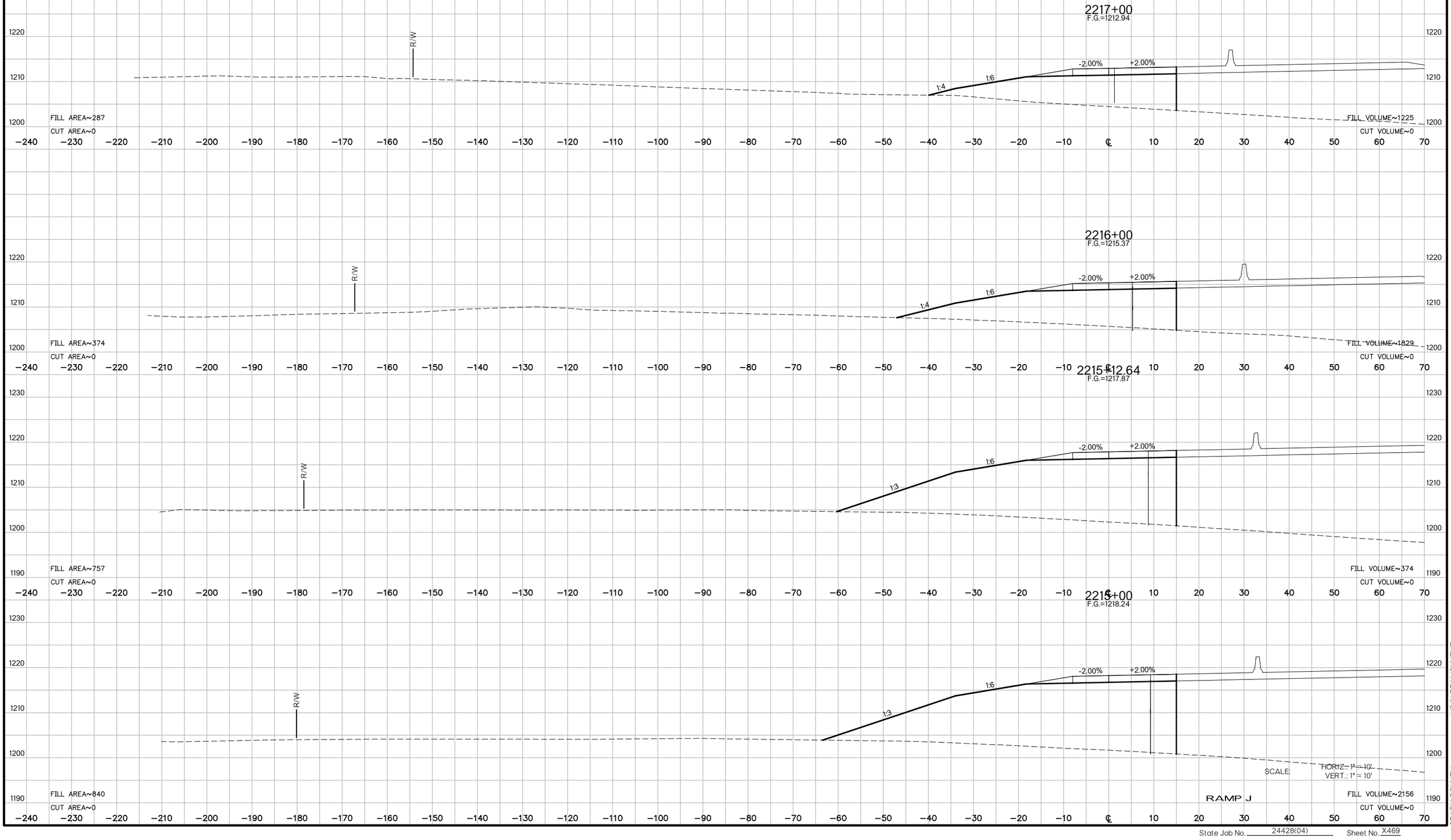
2214+00
F.G.=1221.19



US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X468

PROPOSED
R/W
AUGUST 2017

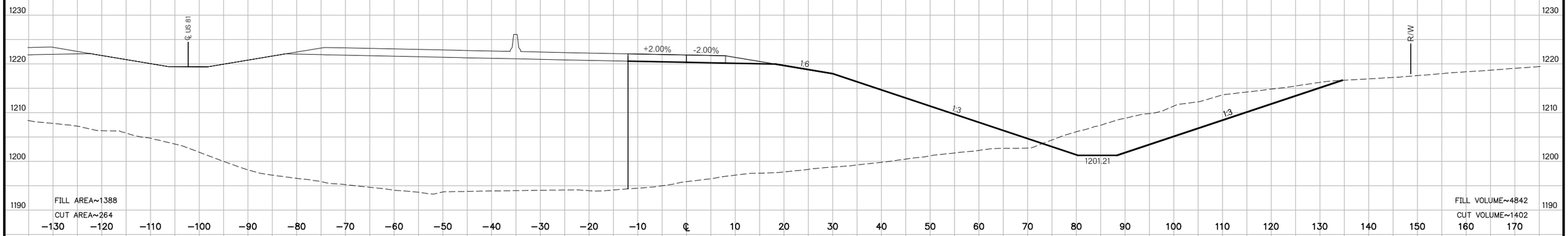


US 81 REALIGNMENT
GRADY COUNTY

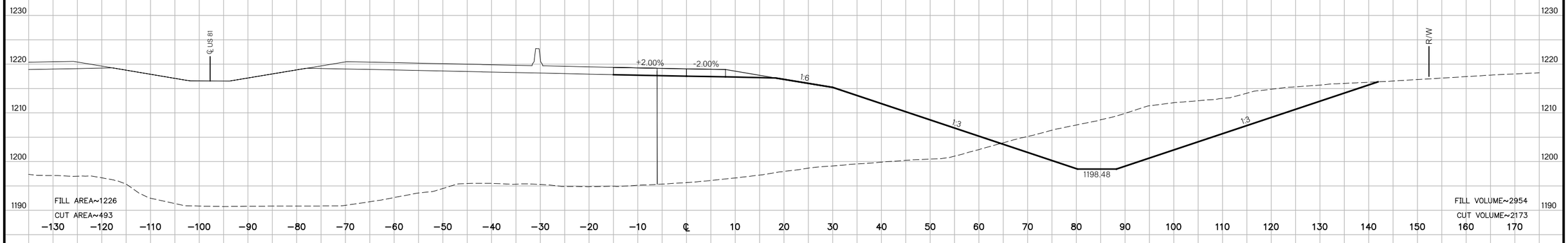
State Job No. 24428(04) Sheet No. X469

PROPOSED
R/W
AUGUST 2017

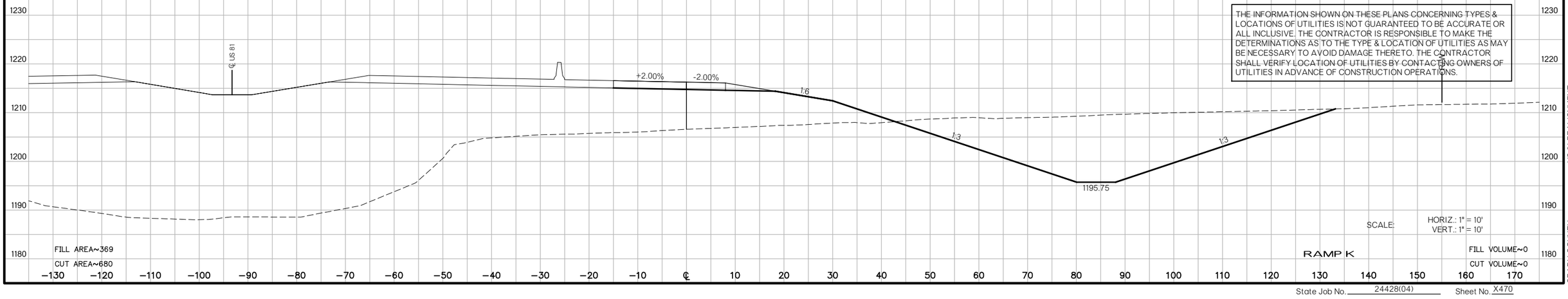
3175+00



3174+00
F.G.=1219.05



BEGIN PROJECT
3173+00
F.G.=1216.26



THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPES & LOCATIONS OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE TO MAKE THE DETERMINATIONS AS TO THE TYPE & LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING OWNERS OF UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS.

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

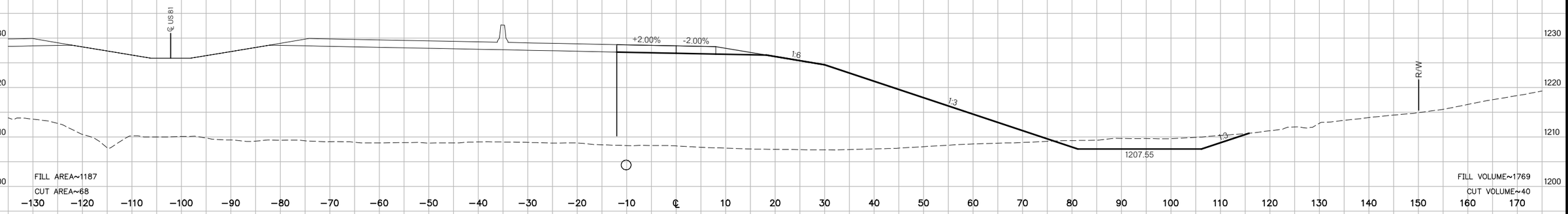
RAMP K

US 81 REALIGNMENT
GRADY COUNTY

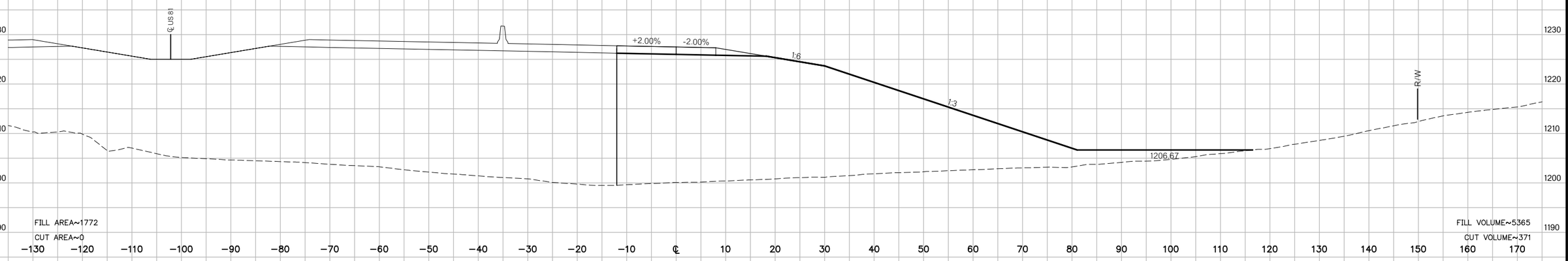
State Job No. 24428(04) Sheet No. X470

PROPOSED
R/W
AUGUST 2017

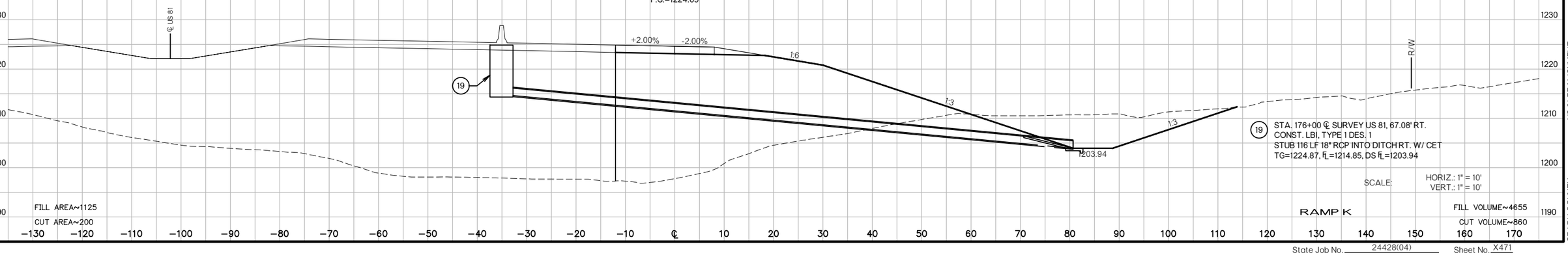
END NORMAL CROWN
3177+32.29
F.G.=1228.43



3177+00
F.G.=1227.50



3176+00
F.G.=1224.65



(19) STA. 176+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 116 LF 18" RCP INTO DITCH RT. W/ CET
TG=1224.87, FL=1214.85, DS FL=1203.94

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

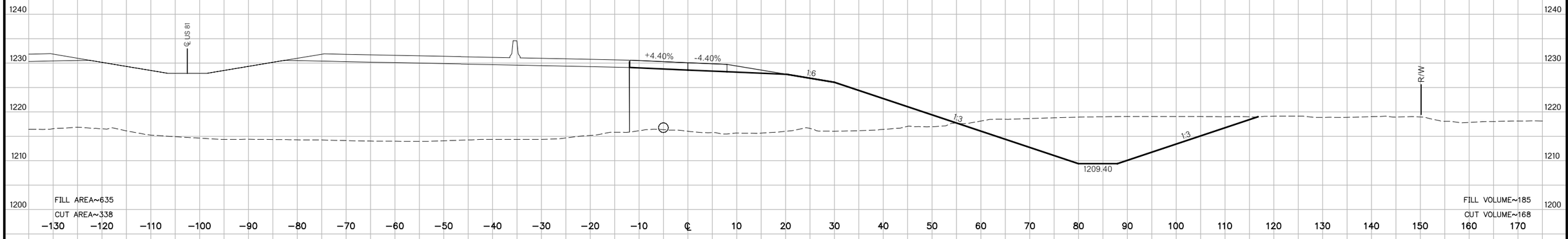
RAMP K

US 81 REALIGNMENT
GRADY COUNTY

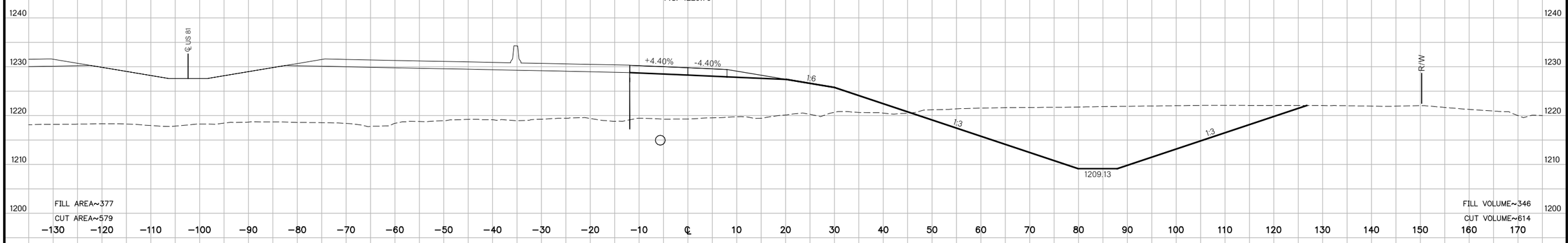
State Job No. 24428(04) Sheet No. X471

PROPOSED
R/W
AUGUST 2017

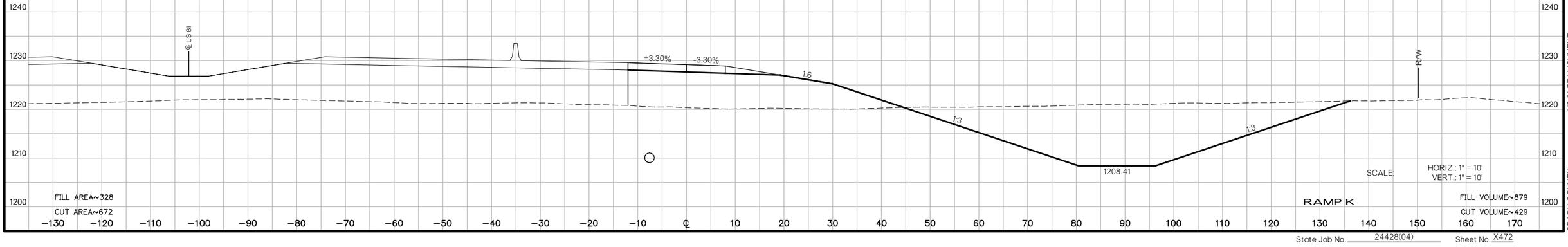
3178+00
F.G.=1230.07



BEGIN FULL SUPERELEVATION
3177+90.11
F.G.=1229.79



3177+63.61
F.G.=1229.17



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

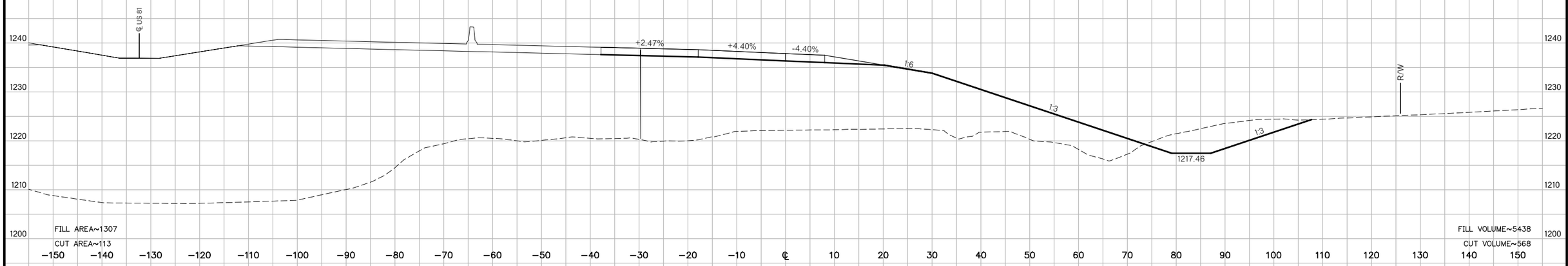
RAMP K

US 81 REALIGNMENT
GRADY COUNTY

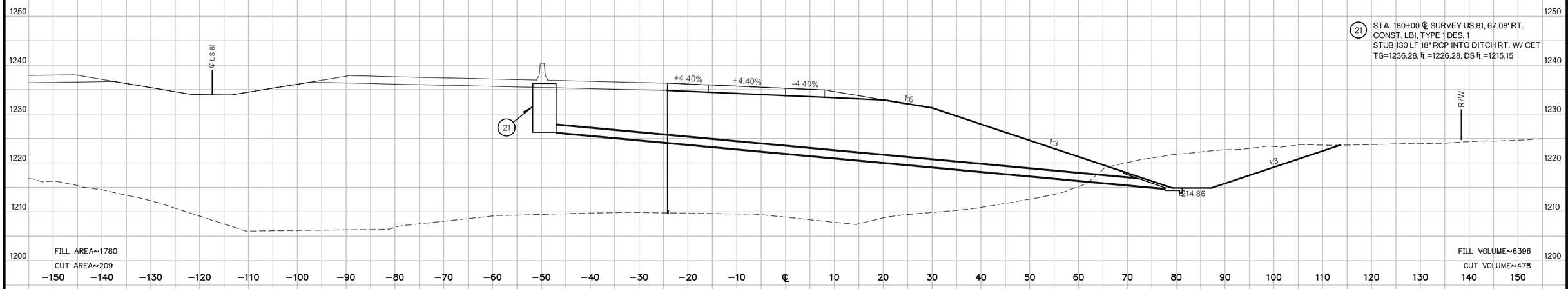
State Job No. 24428(04) Sheet No. X472

PROPOSED
R/W
AUGUST 2017

3180+95.11
F.G.=1237.83

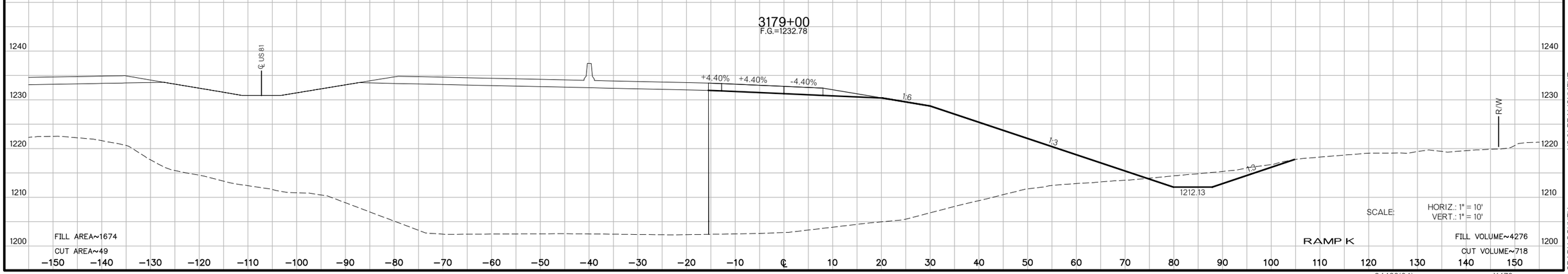


3180+00
F.G.=1235.27



(21) STA. 180+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 130 LF 18" RCP INTO DITCH RT. W/ CET
TG=1236.28, FL=1226.28, DS FL=1215.15

3179+00
F.G.=1232.78



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

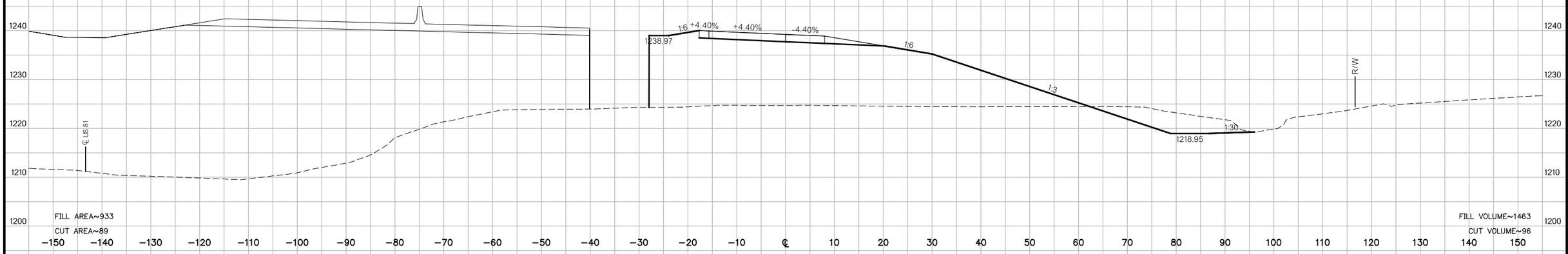
RAMP K

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X473

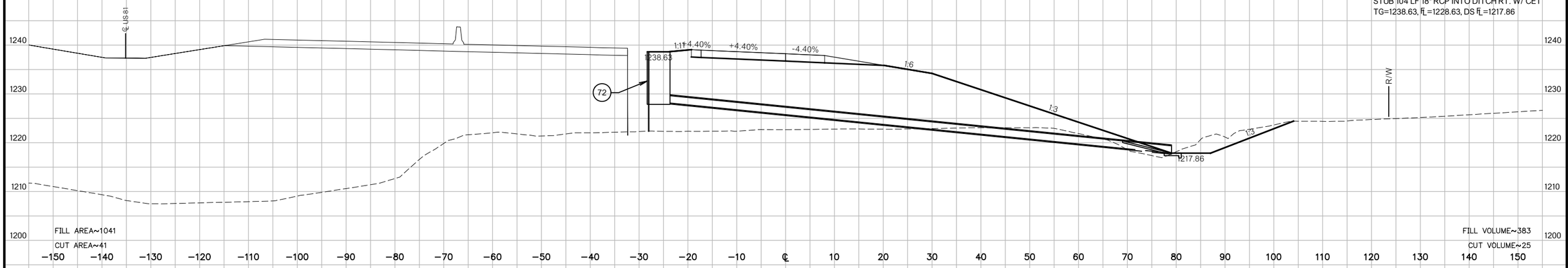
PROPOSED
R/W
AUGUST 2017

3181+50
F.G.=1239.23

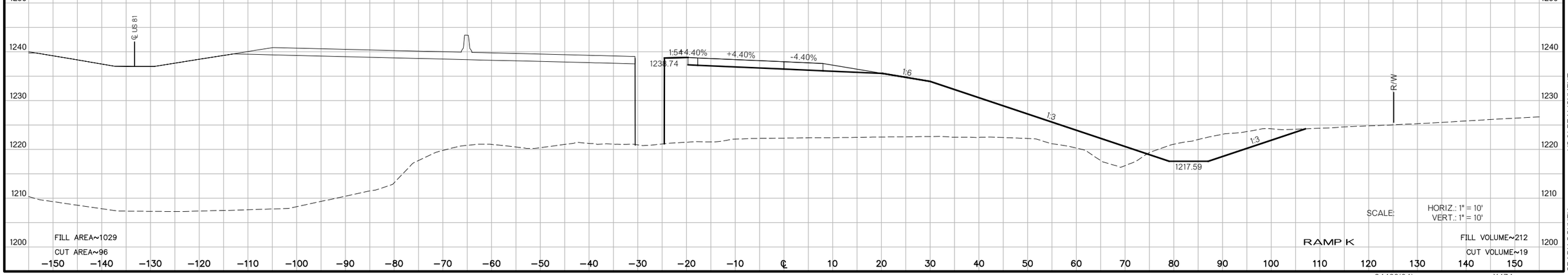


3181+10
F.G.=1238.22

72 STA. 3181+10 ℄ RAMP K, 26.00' LT.
CONST. SMD, TYPE 2
STUB 104 LF 18" RCP INTO DITCH RT. W/ CET
TG=1238.63, FL=1228.63, DS FL=1217.86



3181+00
F.G.=1237.96



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

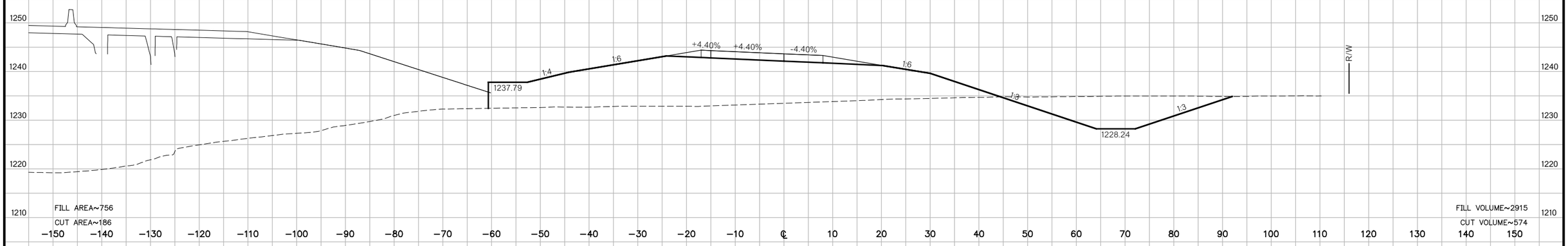
RAMP K

US 81 REALIGNMENT
GRADY COUNTY

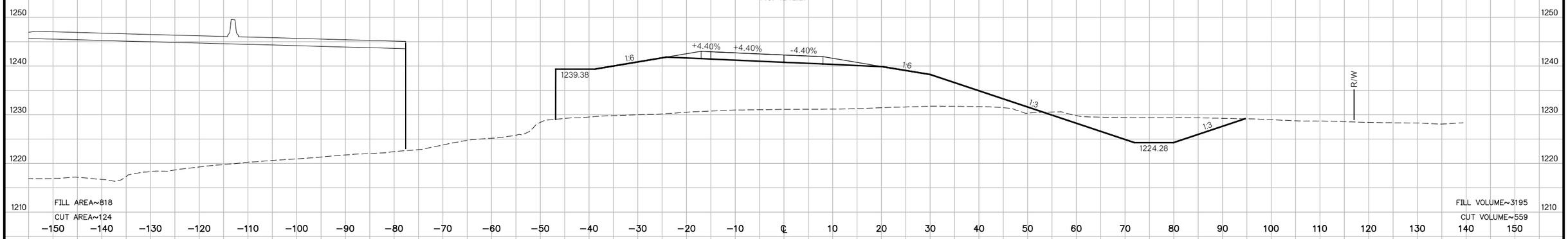
State Job No. 24428(04) Sheet No. X474

PROPOSED
R/W
AUGUST 2017

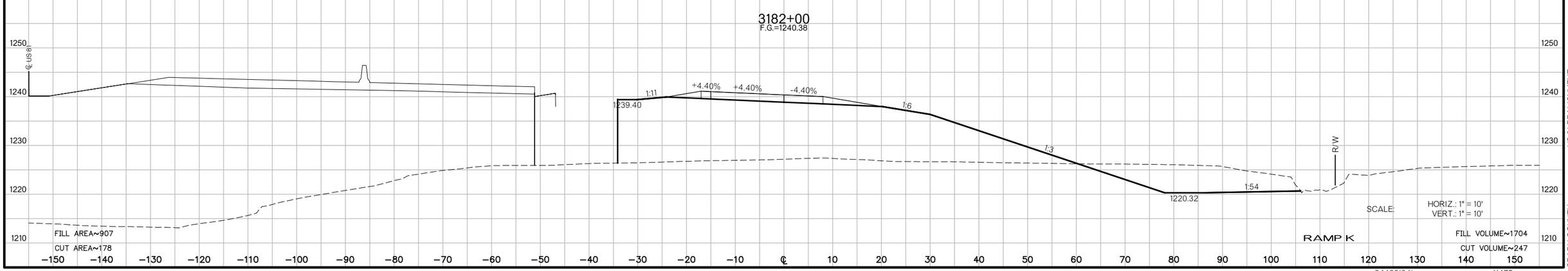
3184+00
F.G.=1243.62



3183+00
F.G.=1242.27



3182+00
F.G.=1240.38



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

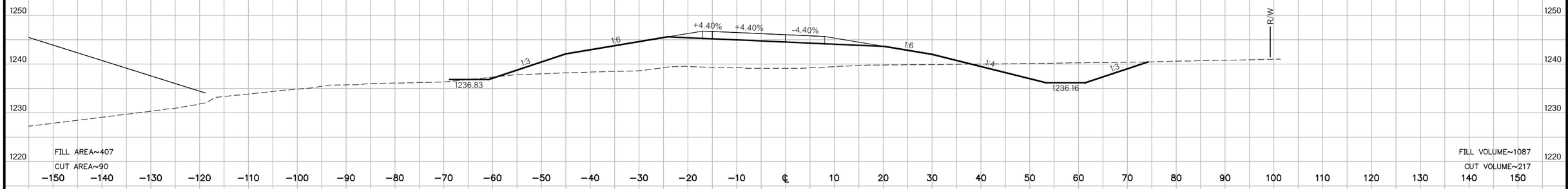
RAMP K

US 81 REALIGNMENT
GRADY COUNTY

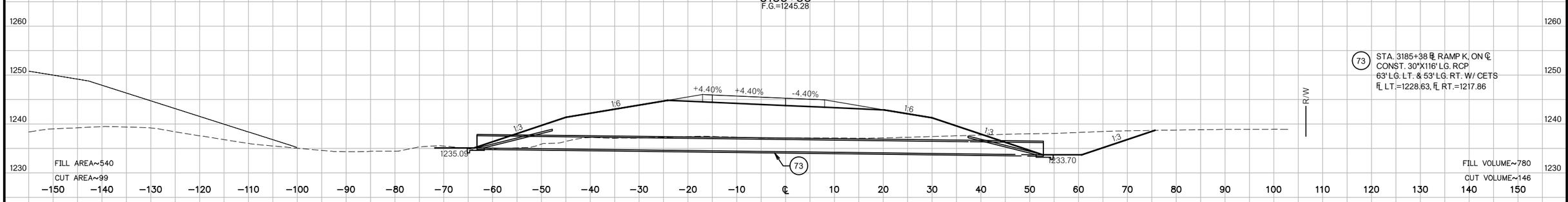
State Job No. 24428(04) Sheet No. X475

PROPOSED
R/W
AUGUST 2017

3186+00
F.G.=1246.02

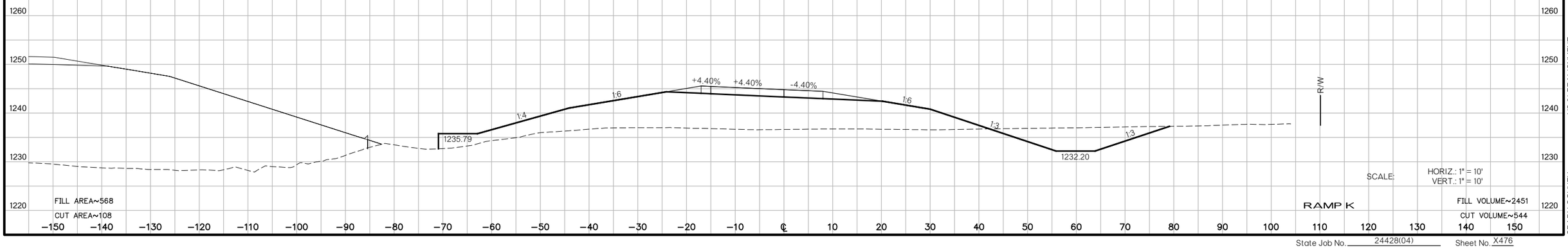


3185+38
F.G.=1245.28



(73) STA. 3185+38 ℄ RAMP K, ON ℄
CONST. 30"X116' LG. RCP
63' LG. LT. & 53' LG. RT. W/ CETS
FL LT.=1228.63, FL RT.=1217.86

3185+00
F.G.=1244.82



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

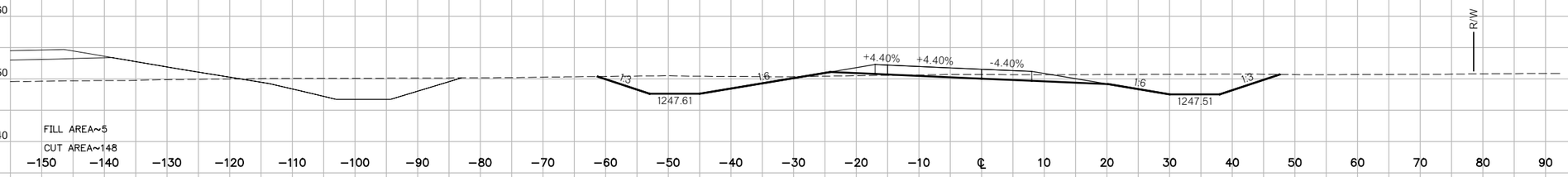
RAMP K

US 81 REALIGNMENT
GRADY COUNTY

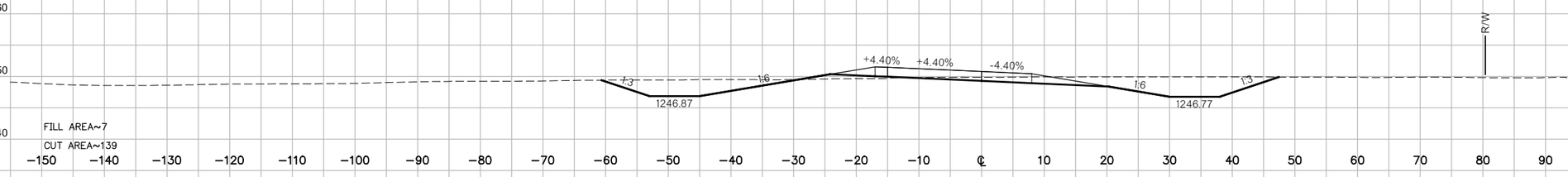
State Job No. 24428(04) Sheet No. X476

PROPOSED
R/W
AUGUST 2017

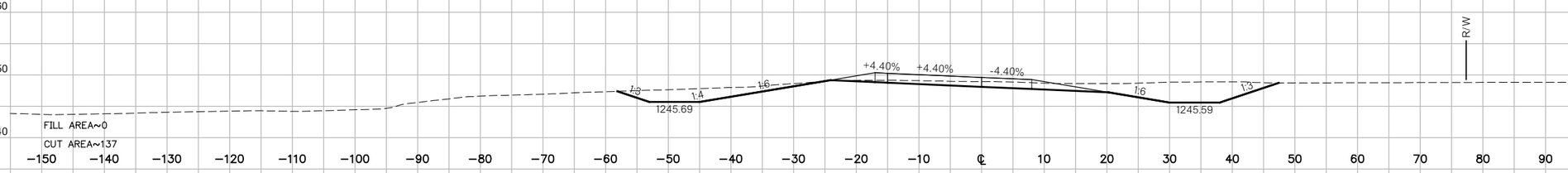
3191+00
F.G.=1251.53



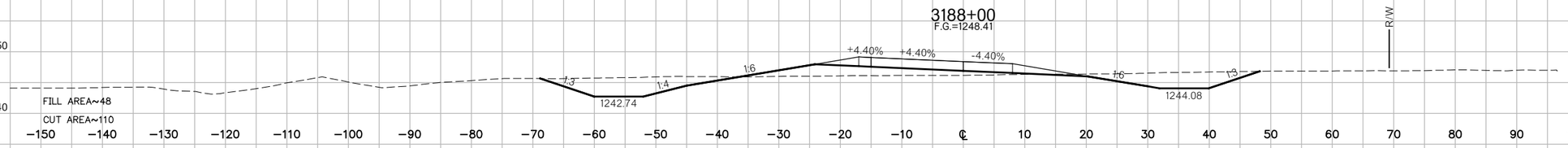
3190+00
F.G.=1250.79



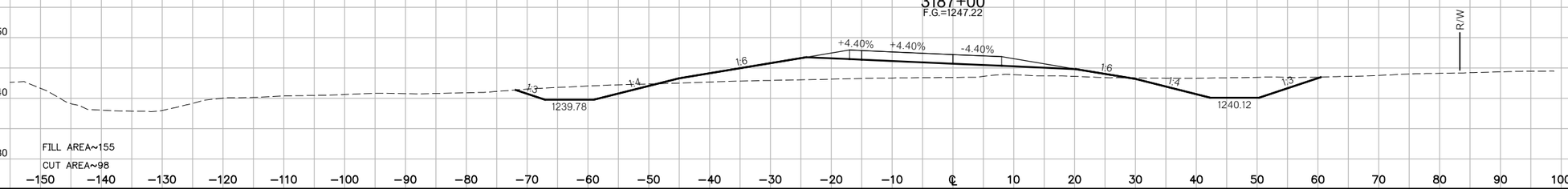
3189+00
F.G.=1249.61



3188+00
F.G.=1248.41



3187+00
F.G.=1247.22



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

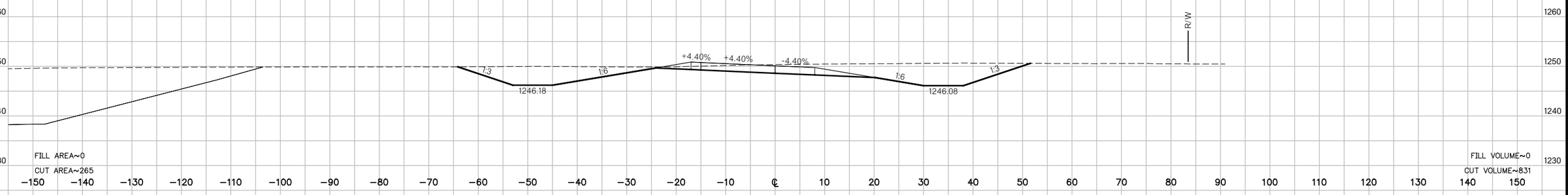
RAMP K

US 81 REALIGNMENT
GRADY COUNTY

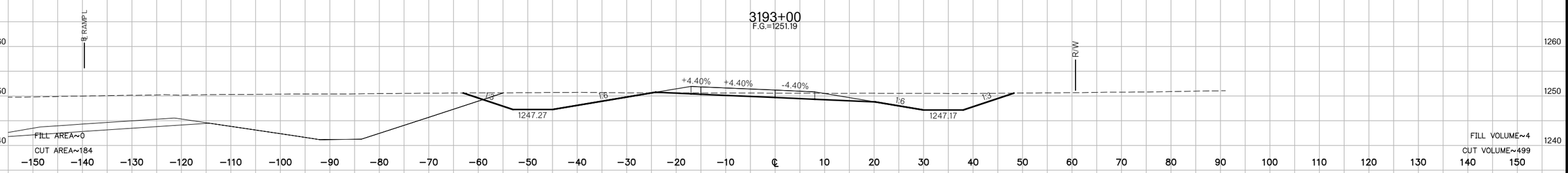
State Job No. 24428(04) Sheet No. X477

PROPOSED
R/W
AUGUST 2017

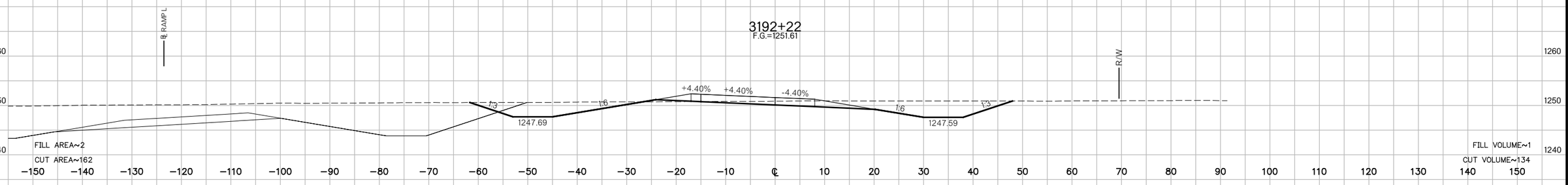
3194+00
F.G.=1250.10



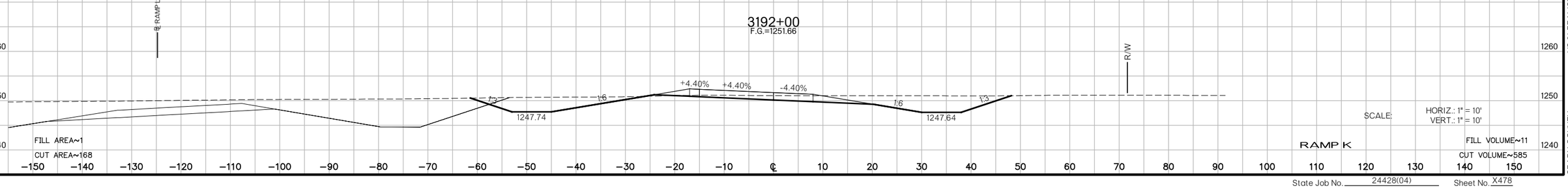
3193+00
F.G.=1251.19



3192+22
F.G.=1251.61



3192+00
F.G.=1251.66



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

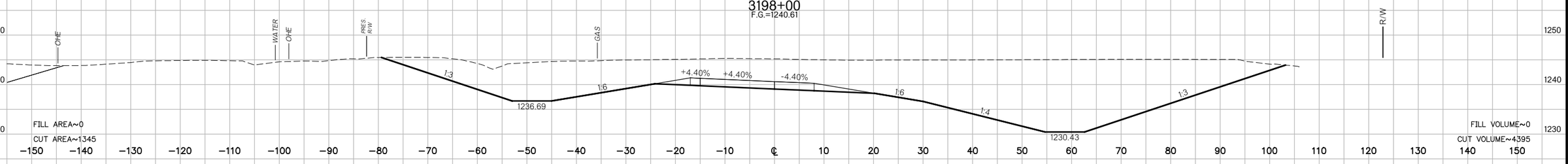
RAMP K

US 81 REALIGNMENT
GRADY COUNTY

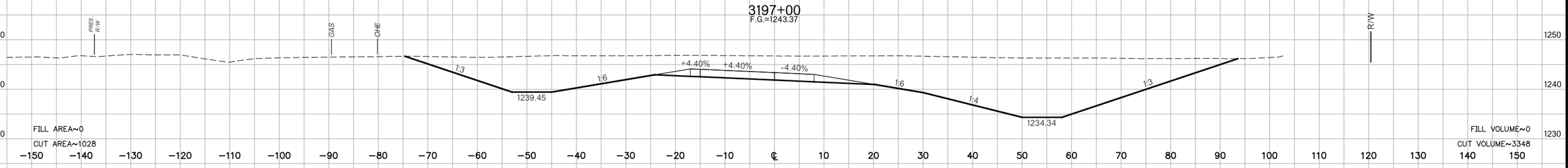
State Job No. 24428(04) Sheet No. X478

PROPOSED
R/W
AUGUST 2017

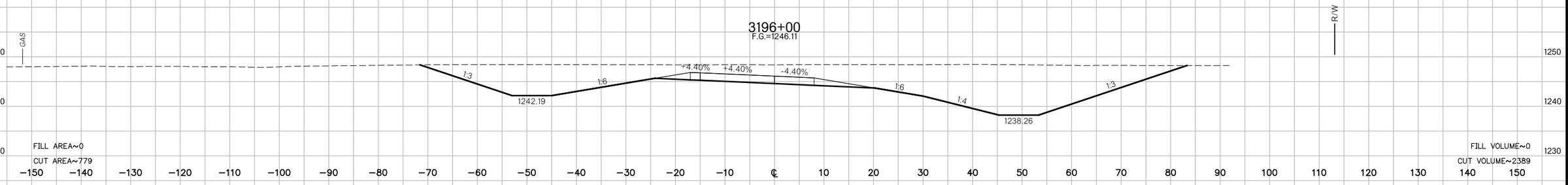
3198+00
F.G.=1240.61



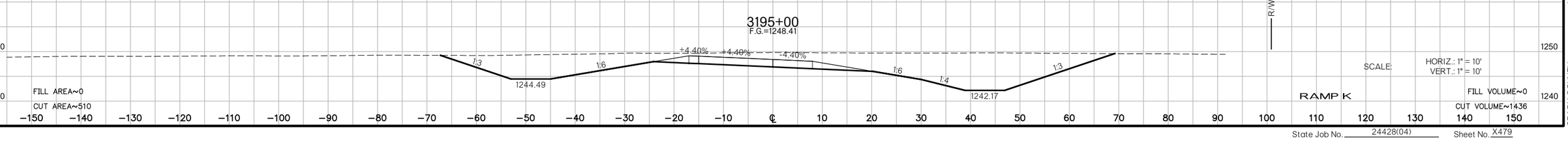
3197+00
F.G.=1243.37



3196+00
F.G.=1246.11



3195+00
F.G.=1248.41



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

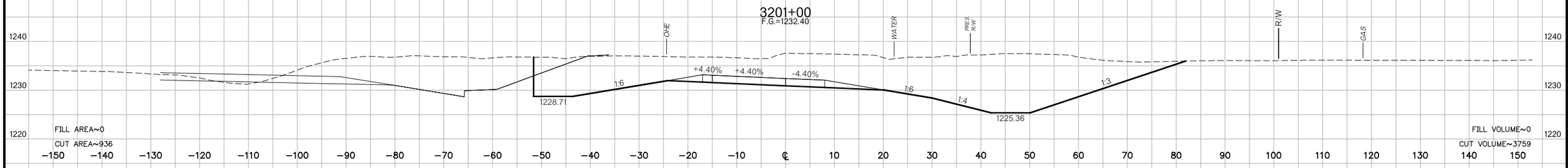
RAMP K

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X479

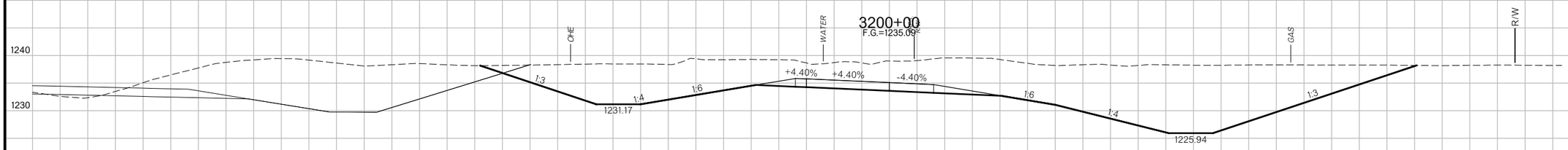
PROPOSED
R/W
AUGUST 2017

3201+00
F.G.=1232.40



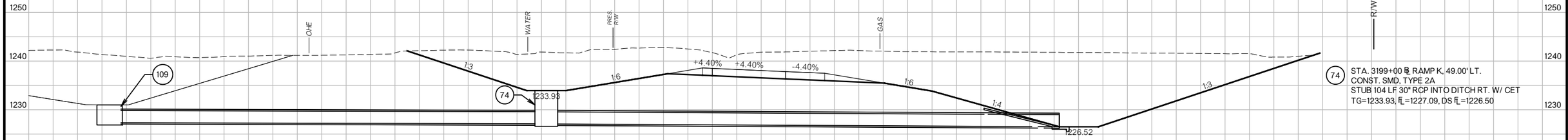
FILL AREA~0
CUT AREA~936
FILL VOLUME~0
CUT VOLUME~3759

3200+00
F.G.=1235.09



FILL AREA~0
CUT AREA~1094
FILL VOLUME~0
CUT VOLUME~4580

3199+00
F.G.=1237.85

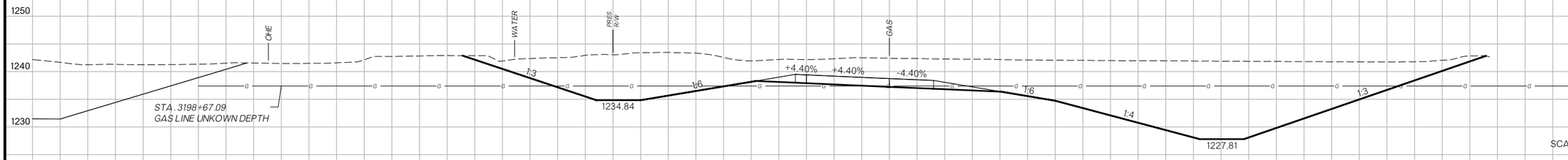


109 STA. 300+36.55 ℄ SURVEY I-44 (HE BAILEY TPK), 106' RT.
CONST. SMD, TYPE 2A
STUB 88 LF 30" RCP INTO STR. 74
TG=1231.01, FL=1227.36, DS FL=1227.09

74 STA. 3199+00 ℄ RAMP K, 49.00' LT.
CONST. SMD, TYPE 2A
STUB 104 LF 30" RCP INTO DITCH RT. W/ CET
TG=1233.93, FL=1227.09, DS FL=1226.50

FILL AREA~0
CUT AREA~1379
FILL VOLUME~0
CUT VOLUME~1605

3198+67.09
F.G.=1238.76



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

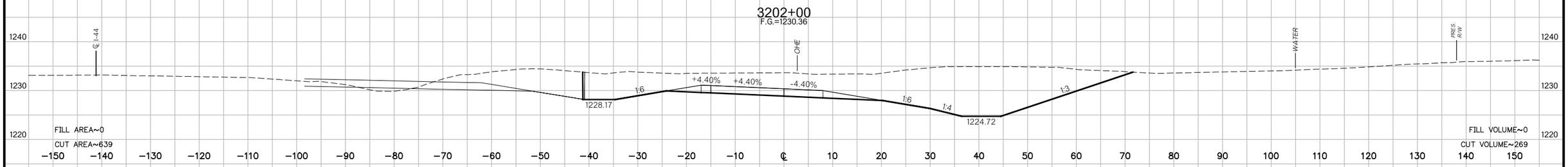
RAMP K

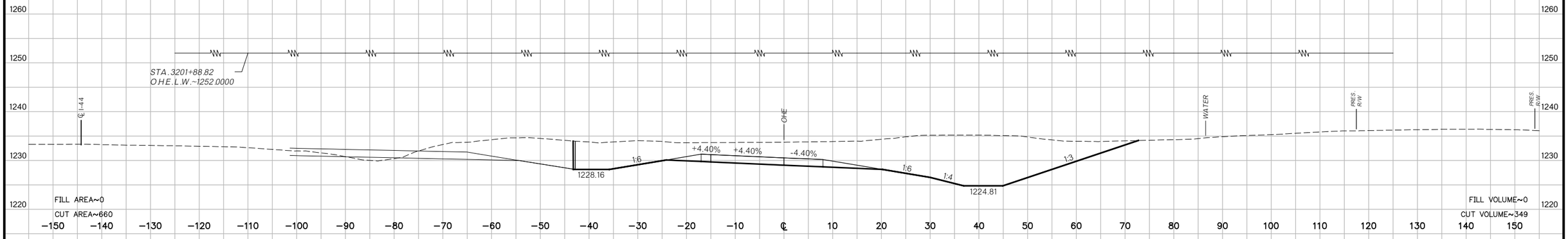
FILL AREA~0
CUT AREA~1255
FILL VOLUME~0
CUT VOLUME~3230

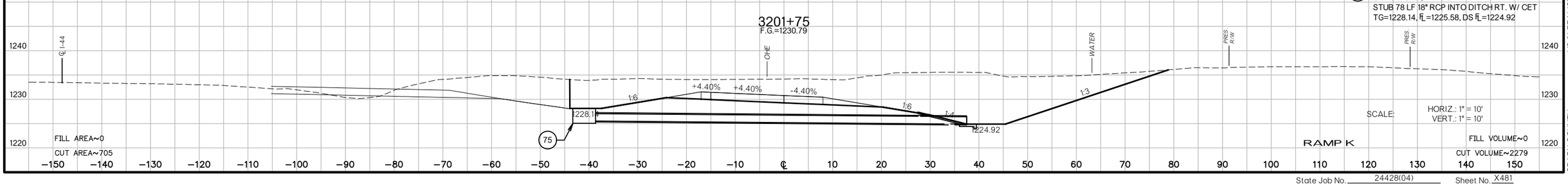
US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X480

PROPOSED
R/W
AUGUST 2017







75 STA. 3201+75 ℄ RAMP K, 41.00' LT.
CONST. SMD, TYPE 2
STUB 78 LF 18" RCP INTO DITCH RT. W/ CET
TG=1228.14, FL=1225.58, DS FL=1224.92

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP K

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GRADY COUNTY

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PROPOSED
R/W
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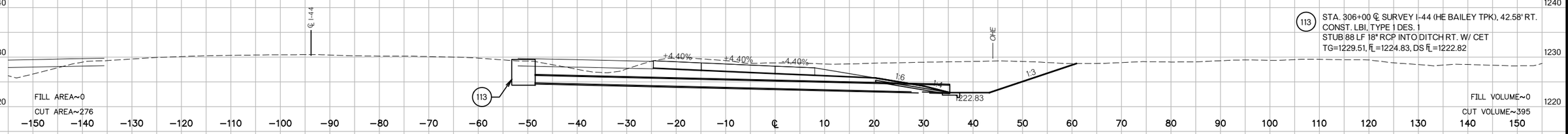
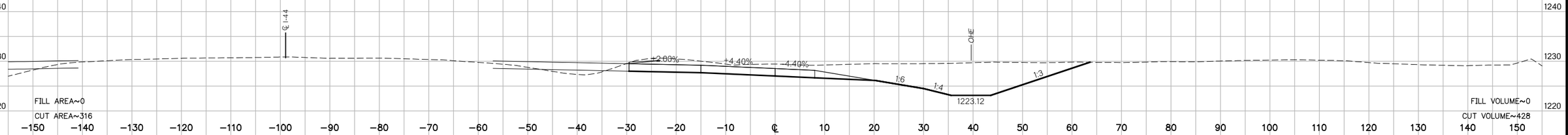
3204+36
F.G.=1228.17



113 STA. 306+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 88 LF 18" RCP INTO DITCH RT. W/ CET
TG=1229.51, FL=1224.83, DS FL=1222.82

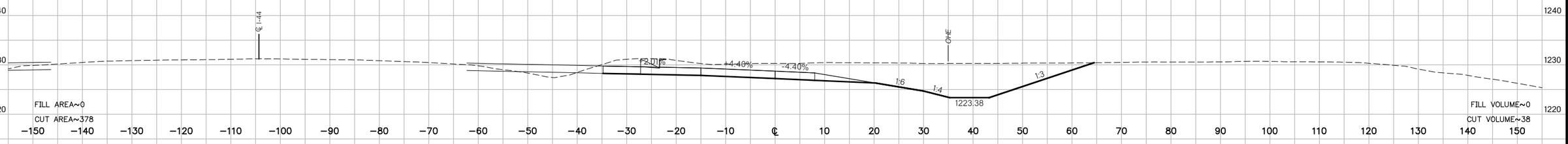
FILL AREA~0
CUT AREA~276
FILL VOLUME~0
CUT VOLUME~395

3204+00
F.G.=1228.53



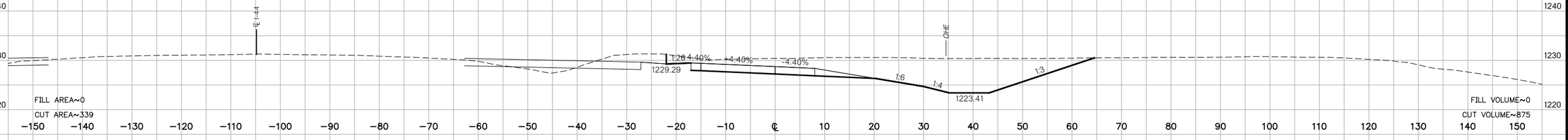
FILL AREA~0
CUT AREA~316
FILL VOLUME~0
CUT VOLUME~428

3203+66.68
F.G.=1228.72



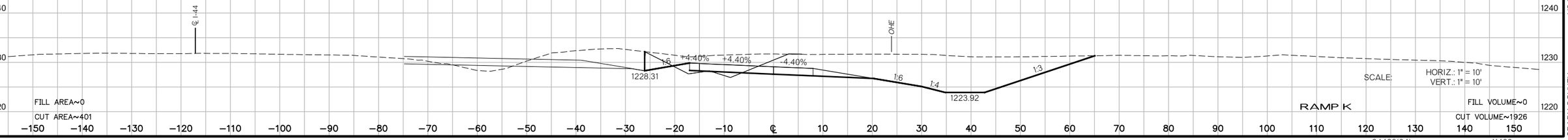
FILL AREA~0
CUT AREA~378
FILL VOLUME~0
CUT VOLUME~38

3203+63.79
F.G.=1228.73



FILL AREA~0
CUT AREA~339
FILL VOLUME~0
CUT VOLUME~875

3203+00
F.G.=1229.13



FILL AREA~0
CUT AREA~401
FILL VOLUME~0
CUT VOLUME~1926

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP K

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GRADY COUNTY

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PROPOSED
R/W
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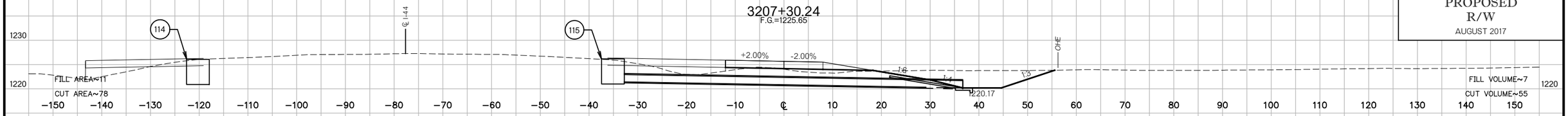
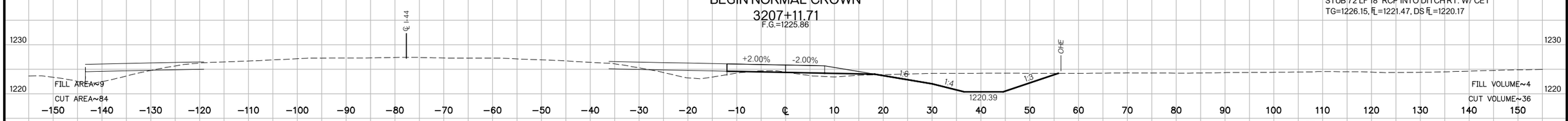
3207+30.24
F.G.=1225.65



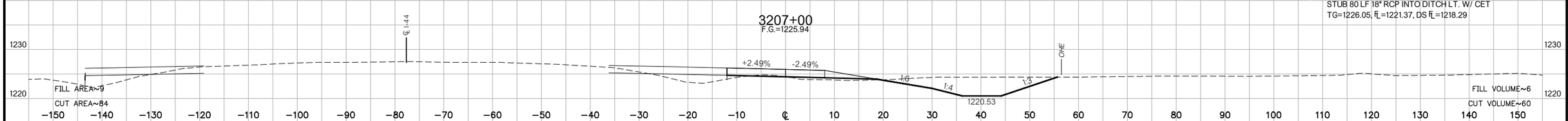
115 STA. 309+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 72 LF 18" RCP INTO DITCH RT. W/ CET
TG=1226.15, FL=1221.47, DS FL=1220.17

BEGIN NORMAL CROWN
3207+11.71
F.G.=1225.86



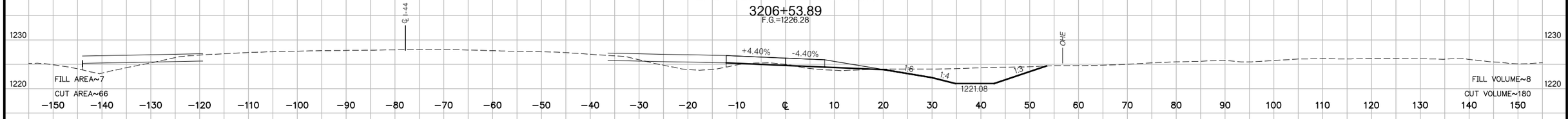
114 STA. 309+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 80 LF 18" RCP INTO DITCH LT. W/ CET
TG=1226.05, FL=1221.37, DS FL=1218.29

3207+00
F.G.=1225.94

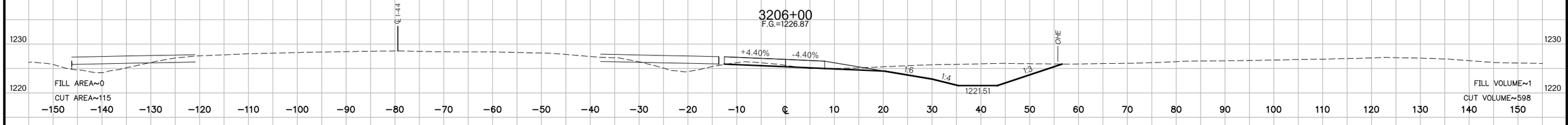


3206+80.39
F.G.=1226.09

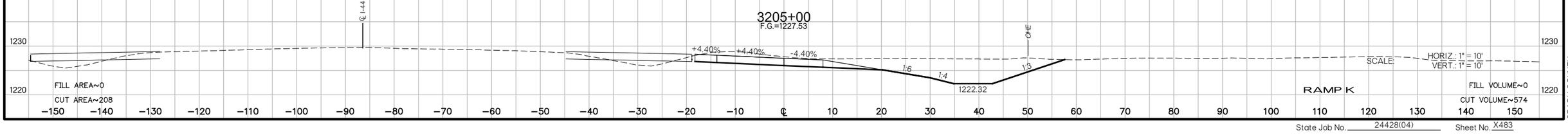
END FULL SUPERELEVATION
3206+53.89
F.G.=1226.28



3206+00
F.G.=1226.87



3205+00
F.G.=1227.53



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

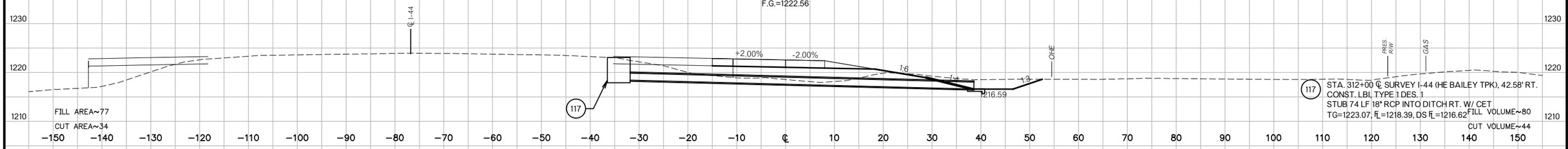
RAMP K

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X483

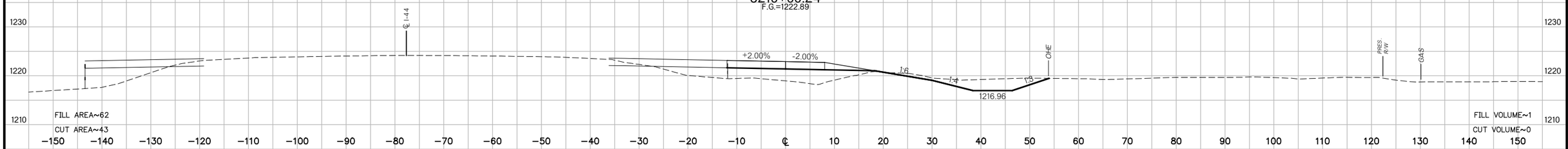
PROPOSED
R/W
AUGUST 2017

3210+31.28
F.G.=1222.56

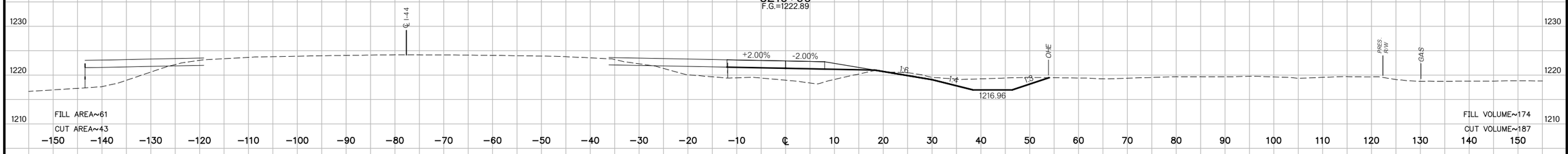


117 STA. 312+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 74 LF 18" RCP INTO DITCH RT. W/ CET
TG=1223.07, FL=1218.39, DS FL=1216.62

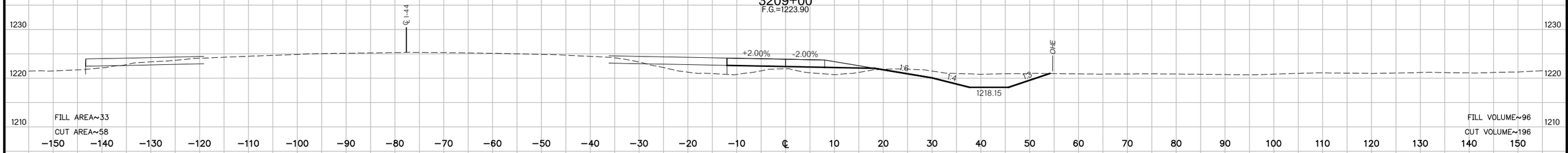
3210+00.24
F.G.=1222.89



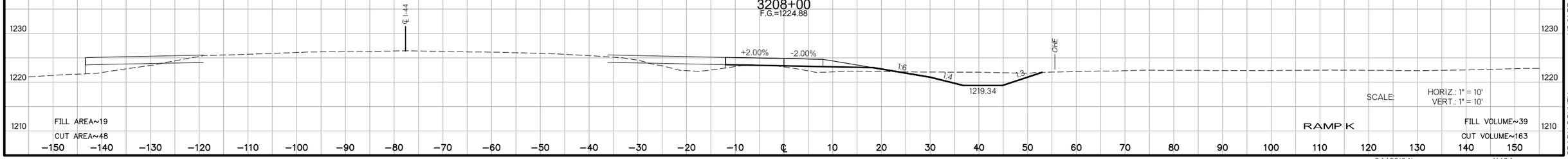
3210+00
F.G.=1222.89



3209+00
F.G.=1223.90



3208+00
F.G.=1224.88



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

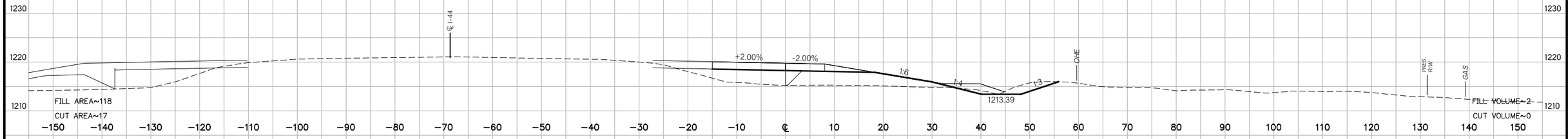
RAMP K

US 81 REALIGNMENT
GRADY COUNTY

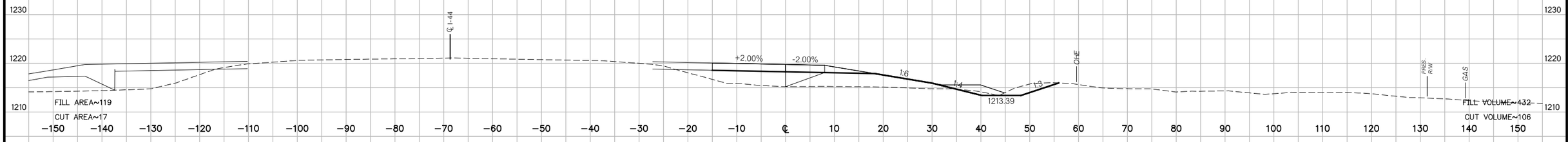
State Job No. 24428(04) Sheet No. X484

PROPOSED
R/W
AUGUST 2017

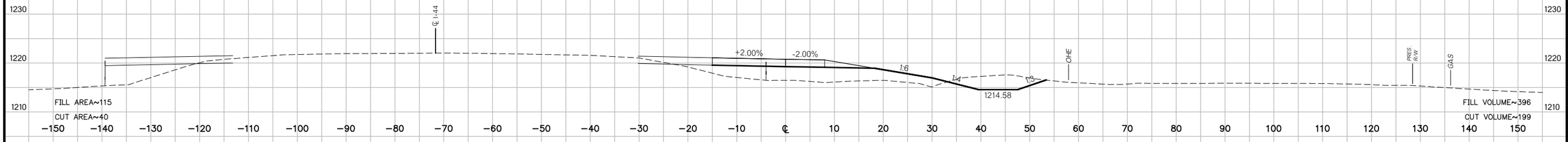
END PROJECT
3213+00.38
F.G.=1219.76



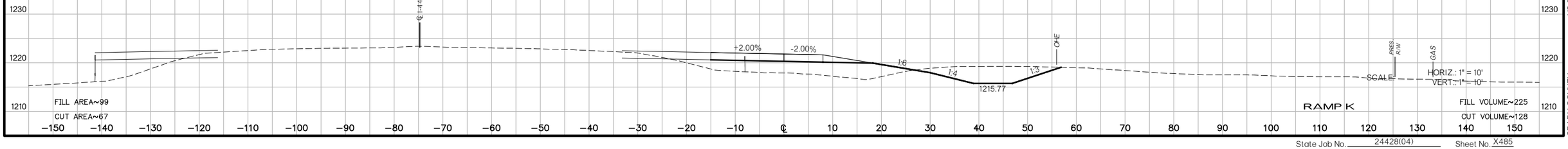
3213+00
F.G.=1219.77



3212+00
F.G.=1220.79



3211+00
F.G.=1221.82



US 81 REALIGNMENT
GRADY COUNTY

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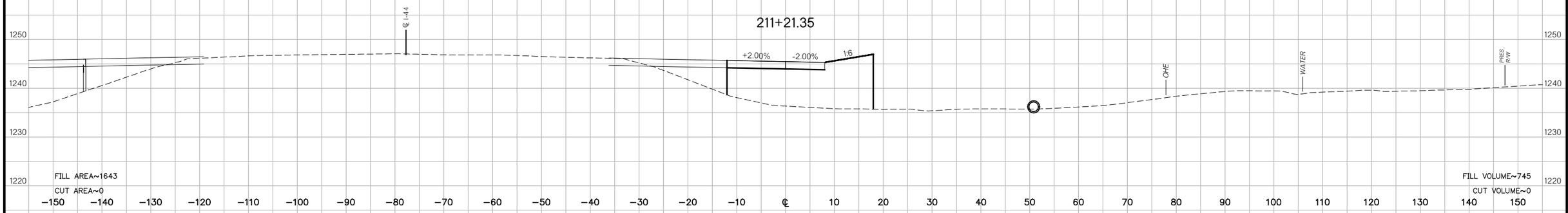
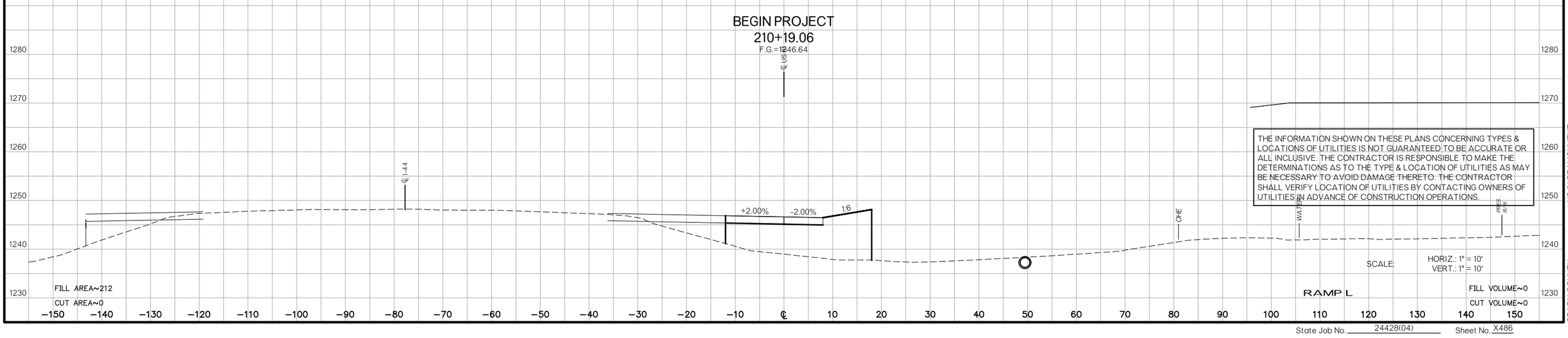
PROPOSED
R/W
AUGUST 2017





THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPES & LOCATIONS OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE TO MAKE THE DETERMINATIONS AS TO THE TYPE & LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING OWNERS OF UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS.

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP L

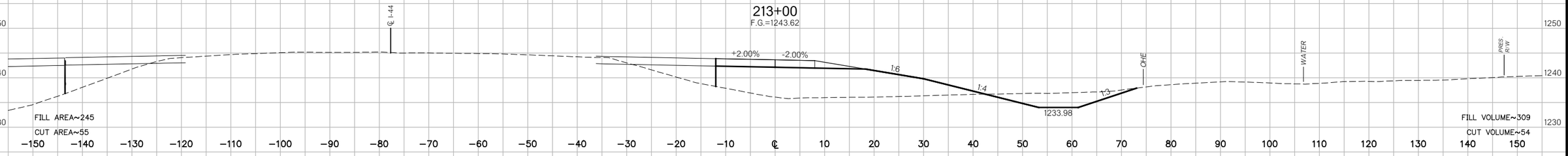
US 81 REALIGNMENT

GRADY COUNTY

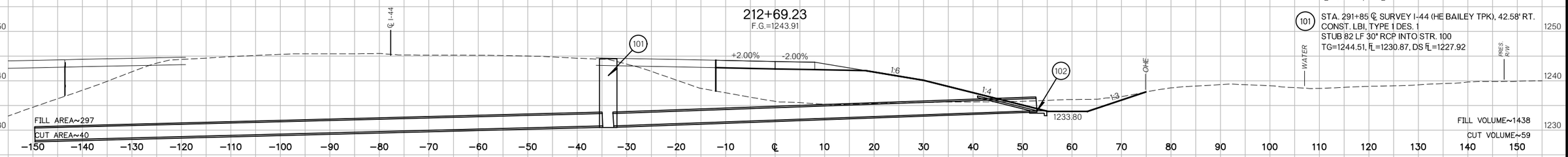
State Job No. 24428(04) Sheet No. X486

PROPOSED
R/W
AUGUST 2017

213+00
F.G.=1243.62



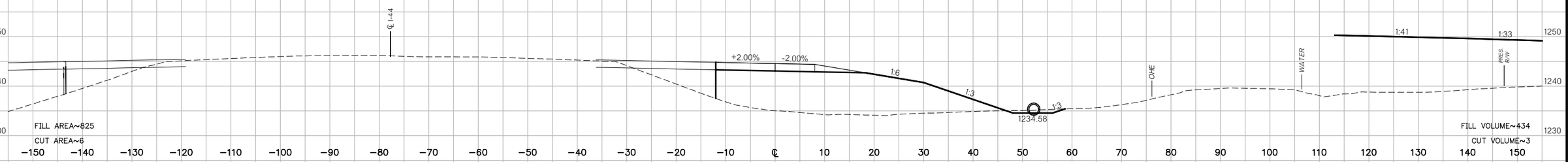
212+69.23
F.G.=1243.91



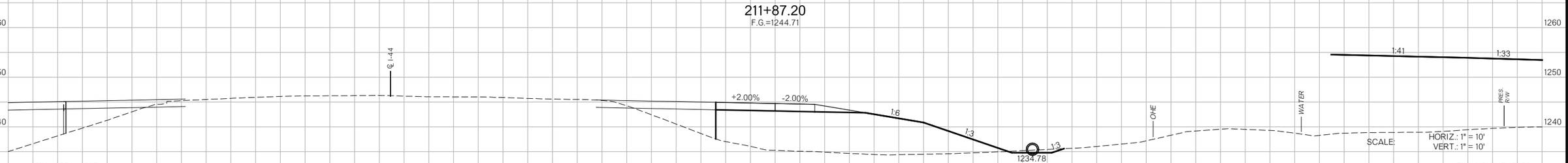
(102) STA. 291+72.84 ℄ SURVEY I-44 (HE BAILEY TPK), 127.16' RT.
CONST. C6 CET AS INLET
STUB 86 LF 30" RCP INTO STR. 101
FL=1233.94, DS FL=1230.87

(101) STA. 291+85 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 82 LF 30" RCP INTO STR. 100
TG=1244.51, FL=1230.87, DS FL=1227.92

212+00
F.G.=1244.58



211+87.20
F.G.=1244.71



US 81 REALIGNMENT
GRADY COUNTY

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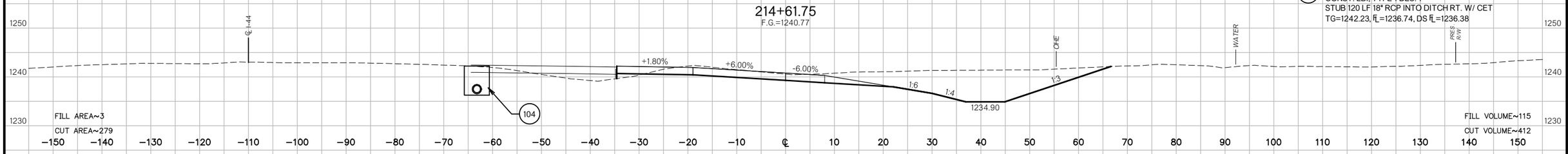
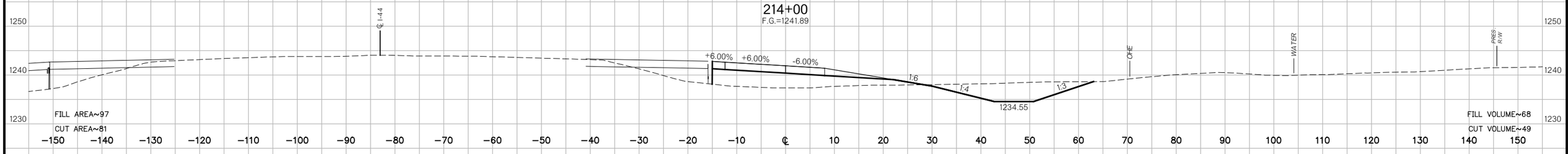
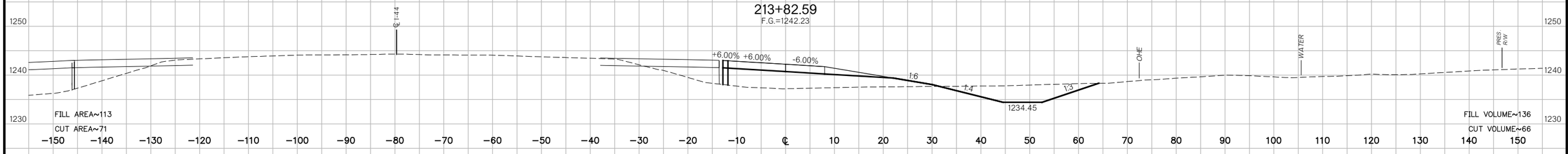
PROPOSED
R/W
AUGUST 2017

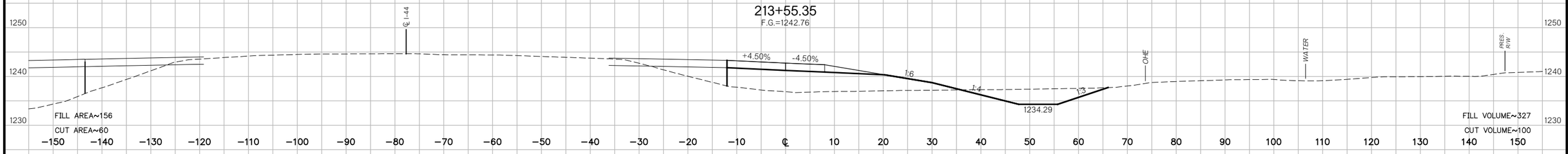
104 STA. 294+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 120 LF 18" RCP INTO DITCH RT. W/ CET
TG=1242.23, FL=1236.74, DS FL=1236.38

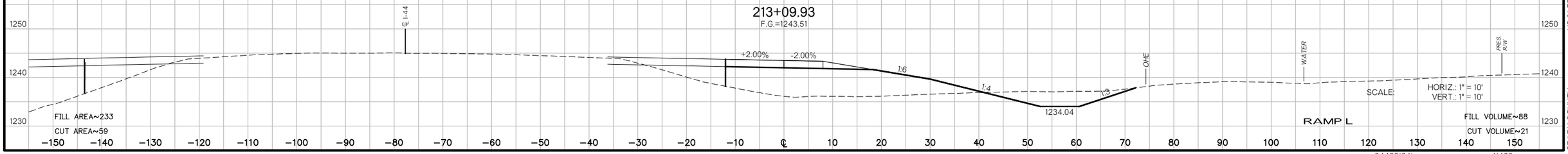




BEGIN FULL SUPERELEVATION







US 81 REALIGNMENT
GRADY COUNTY

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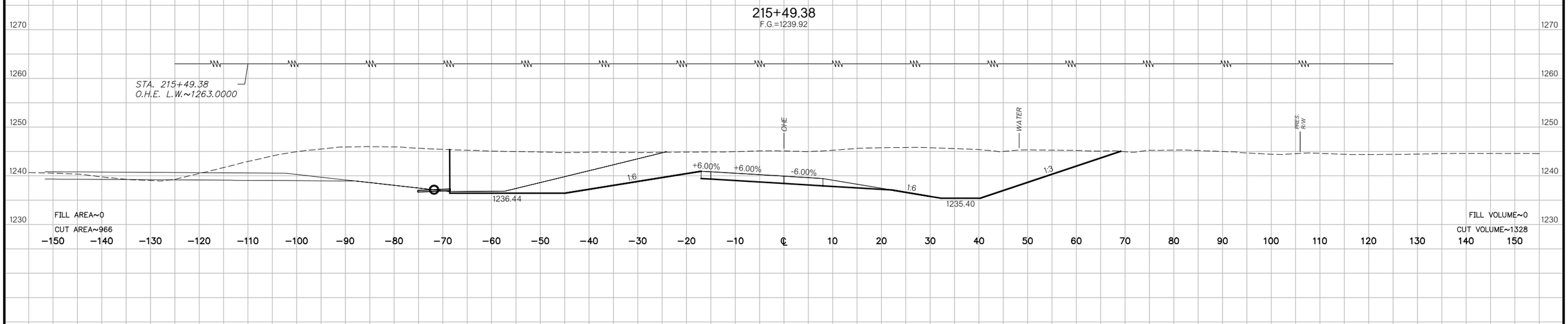
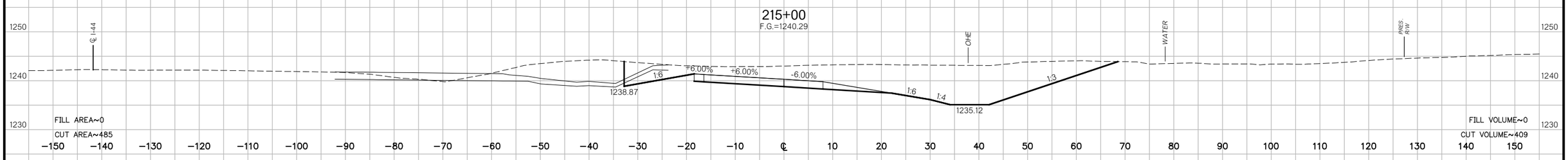
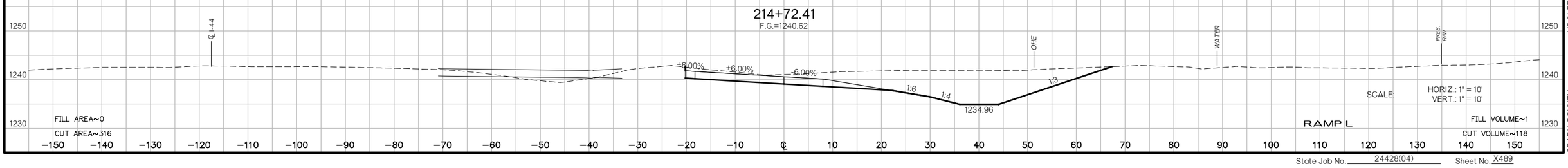
PROPOSED
R/W
AUGUST 2017







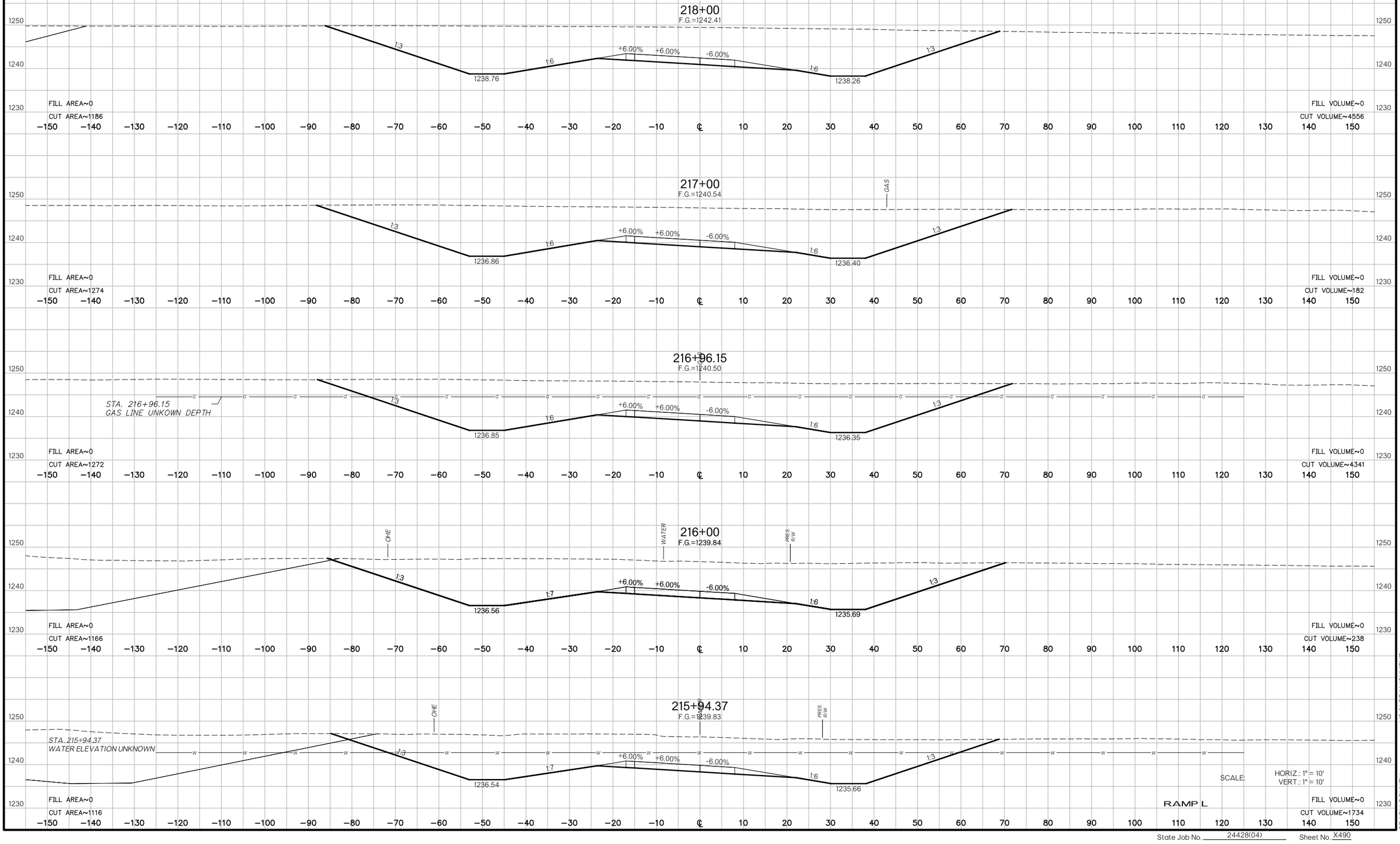
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP L

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X489

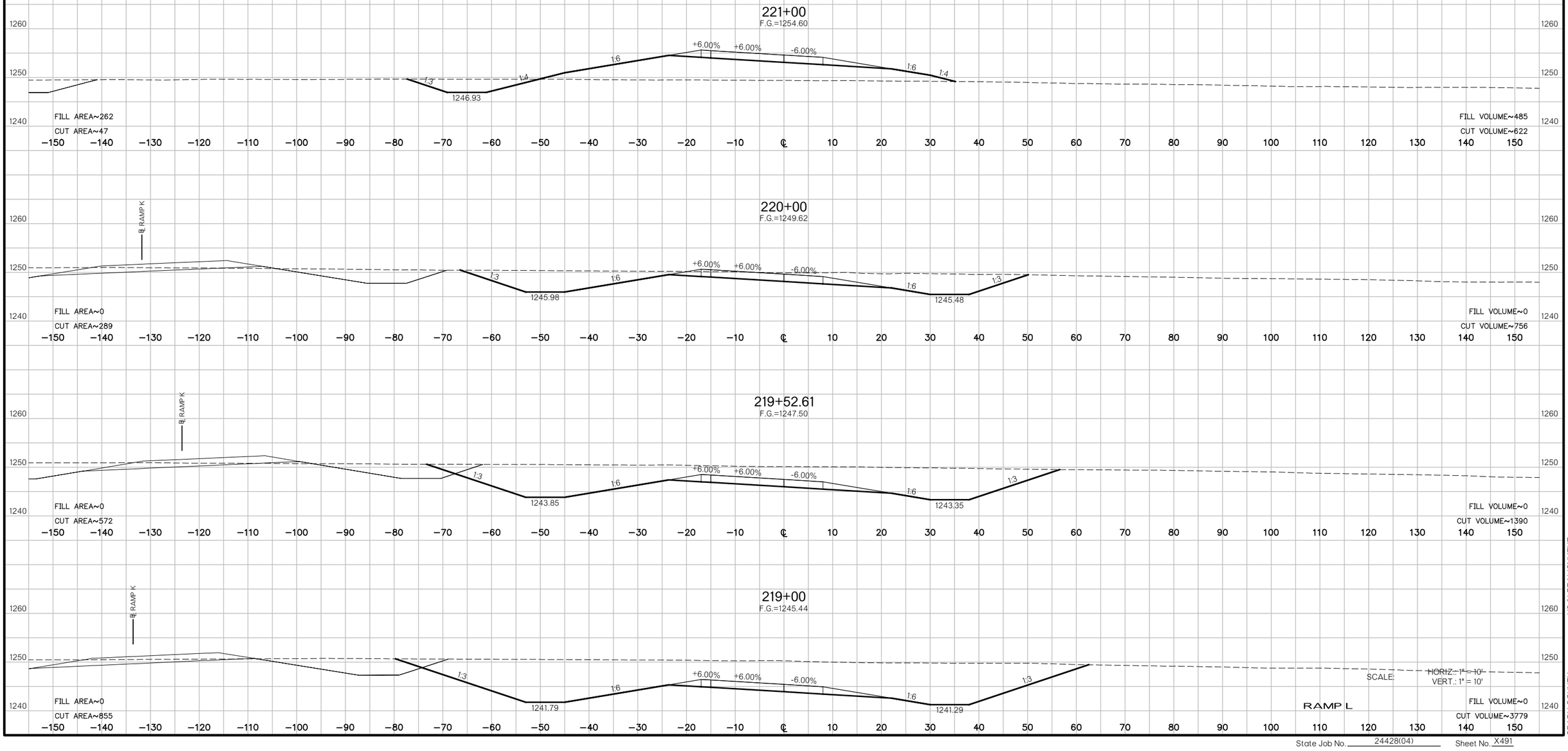
PROPOSED
R/W
AUGUST 2017



US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X490

PROPOSED
R/W
AUGUST 2017



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP L

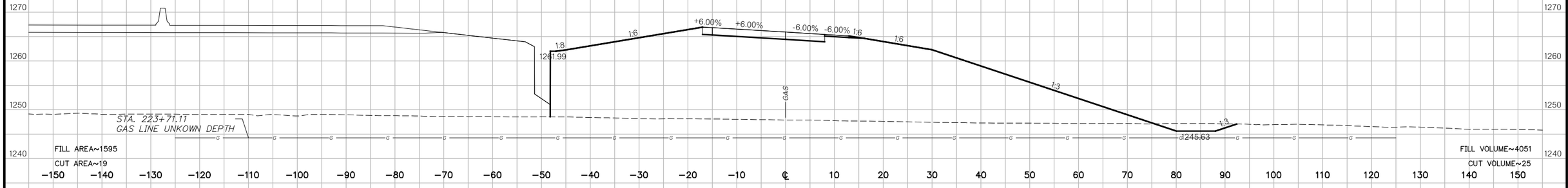
US 81 REALIGNMENT

GRADY COUNTY

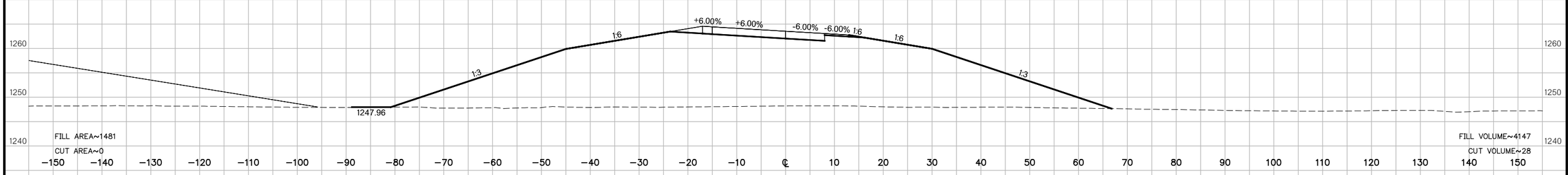
State Job No. 24428(04) Sheet No. X491

PROPOSED
R/W
AUGUST 2017

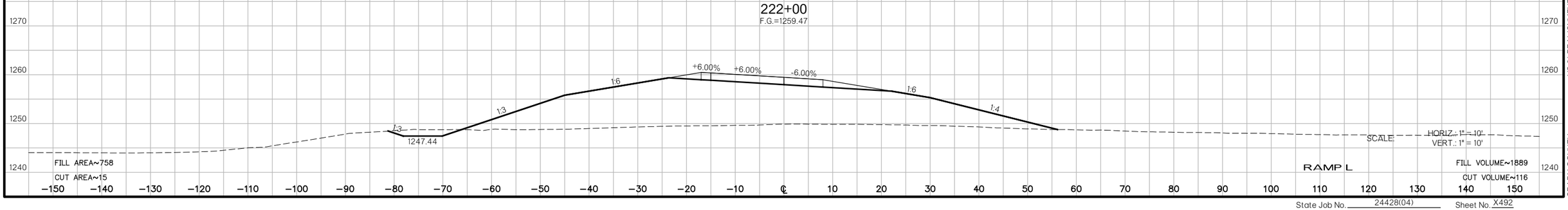
223+71.11
F.G.=1265.91



223+00
F.G.=1263.55



222+00
F.G.=1259.47

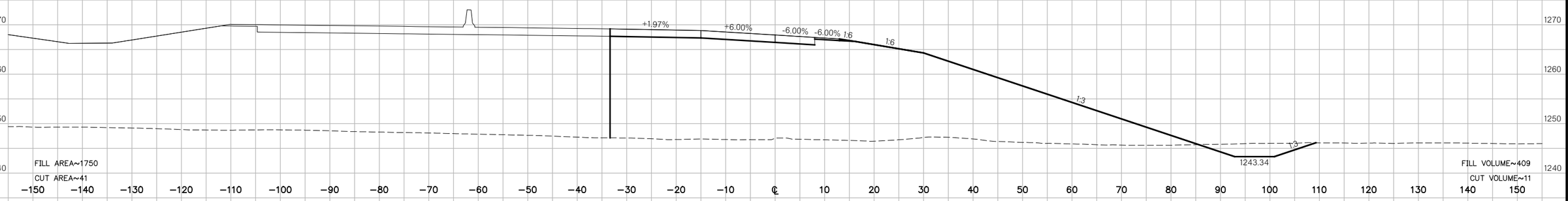


US 81 REALIGNMENT
GRADY COUNTY

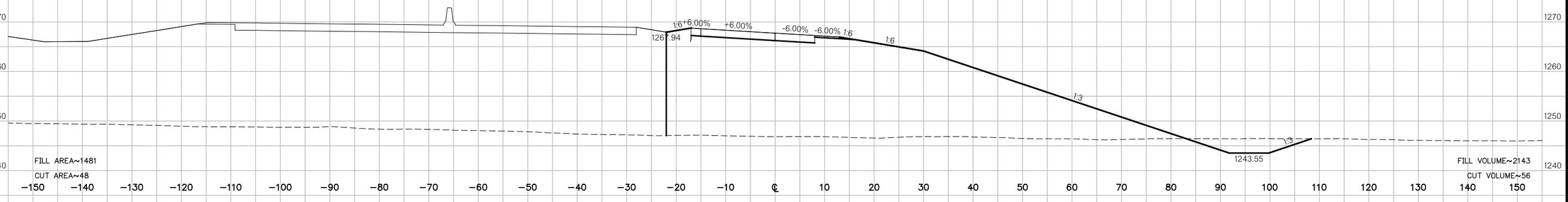
State Job No. 24428(04) Sheet No. X492

PROPOSED
R/W
AUGUST 2017

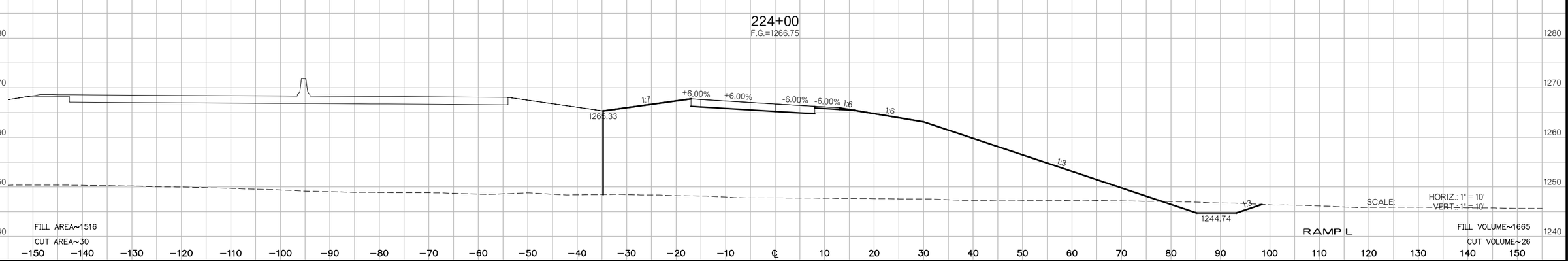
224+45.46
F.G.=1267.91



224+38.62
F.G.=1267.75



224+00
F.G.=1266.75

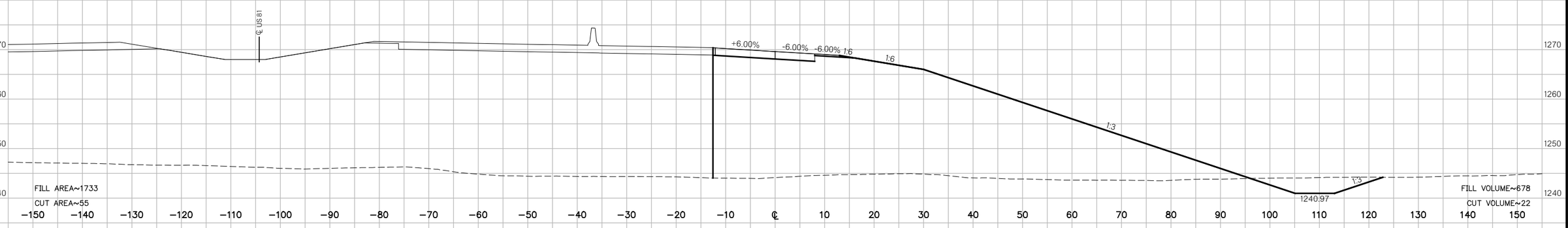


US 81 REALIGNMENT
GRADY COUNTY

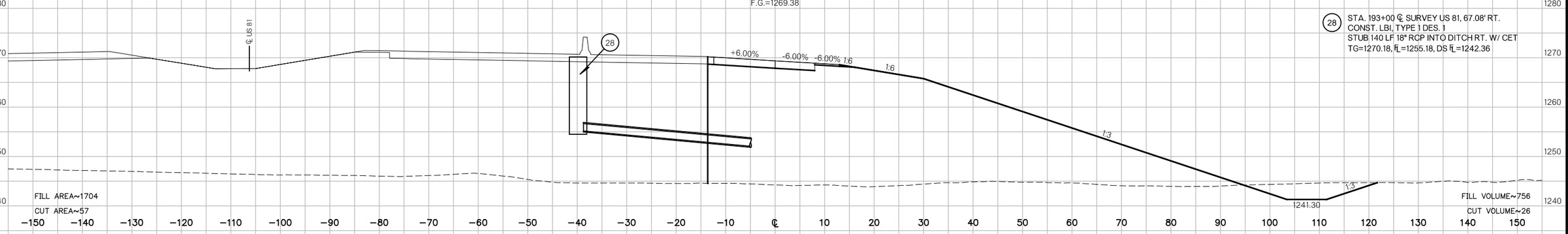
State Job No. 24428(04) Sheet No. X493

PROPOSED
R/W
AUGUST 2017

END FULL SUPERELEVATION
225+22.62
F.G.=1269.60

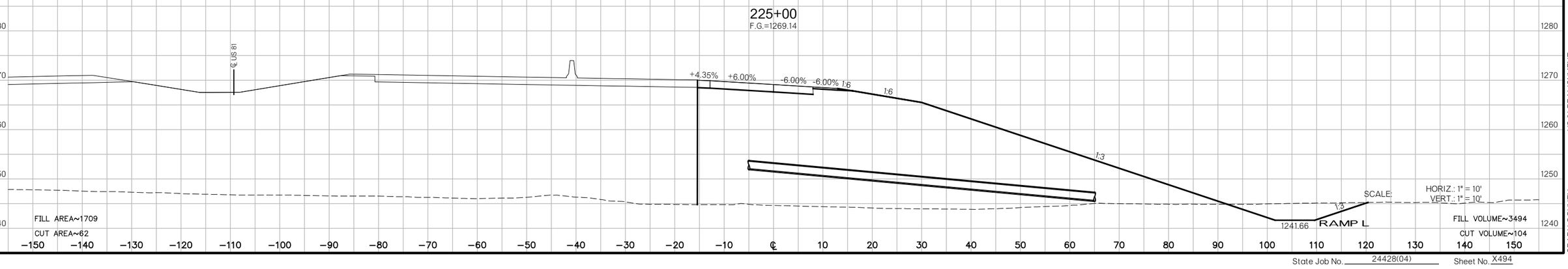


225+11.97
F.G.=1269.38



(28) STA. 193+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 140 LF 18" RCP INTO DITCH RT. W/ CET
TG=1270.18, FL=1255.18, DS FL=1242.36

225+00
F.G.=1269.14



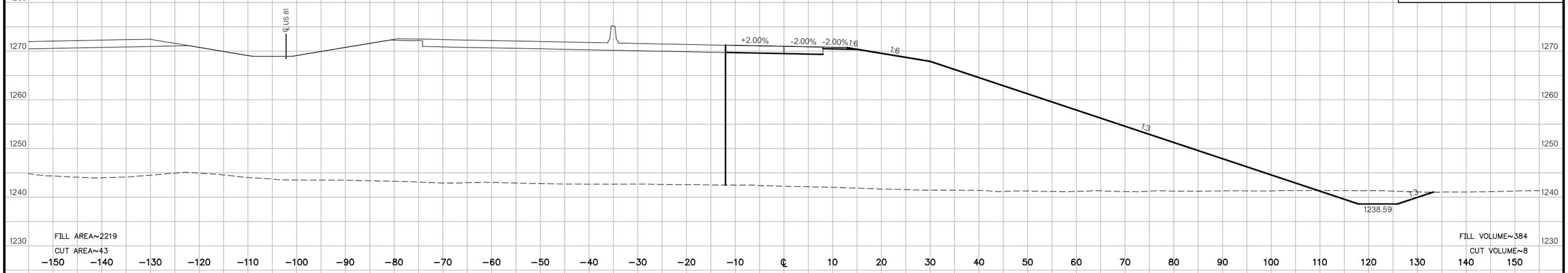
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X494

PROPOSED
R/W
AUGUST 2017

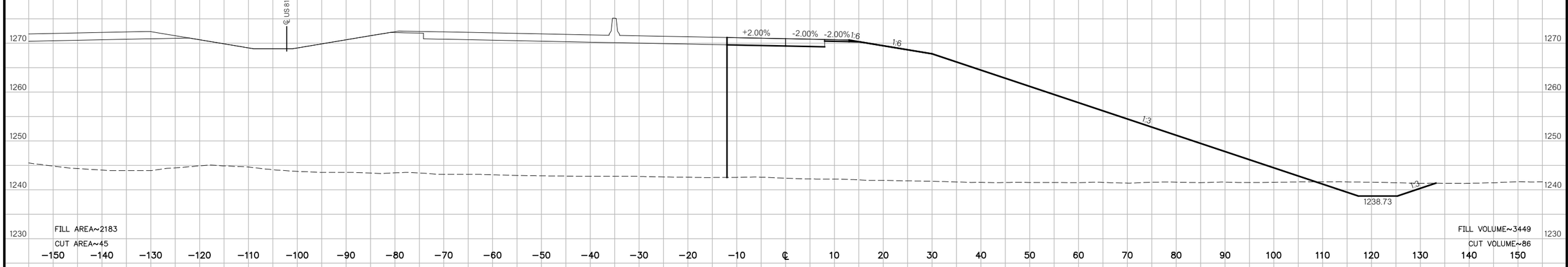
226+00
F.G.=1270.97



FILL AREA~2219
CUT AREA~43

FILL VOLUME~384
CUT VOLUME~8

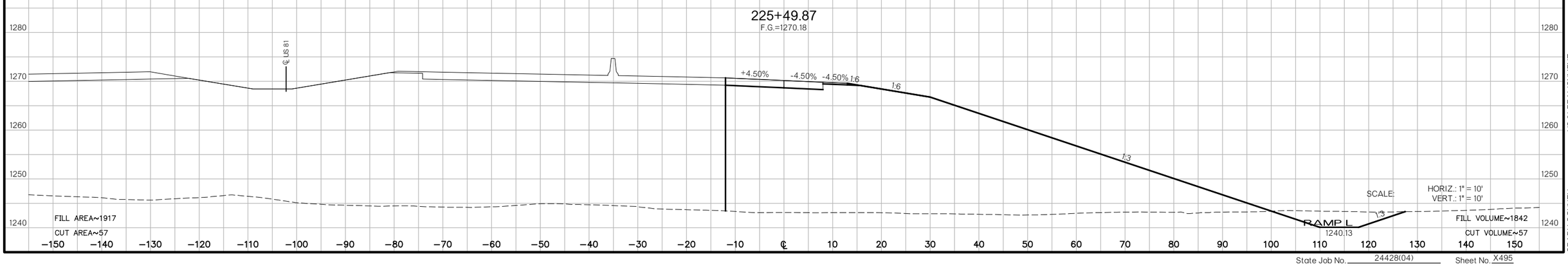
225+95.29
F.G.=1270.92



FILL AREA~2183
CUT AREA~45

FILL VOLUME~3449
CUT VOLUME~86

225+49.87
F.G.=1270.18



FILL AREA~1917
CUT AREA~57

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

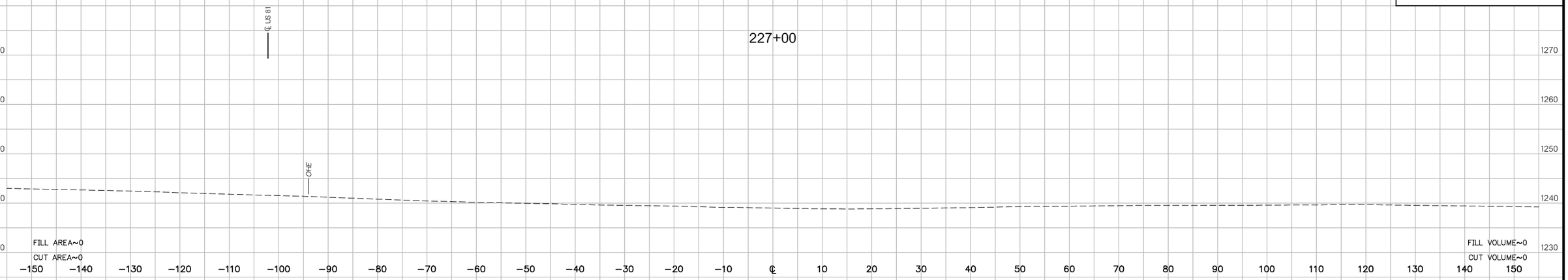
FILL VOLUME~1842
CUT VOLUME~57

US 81 REALIGNMENT
GRADY COUNTY

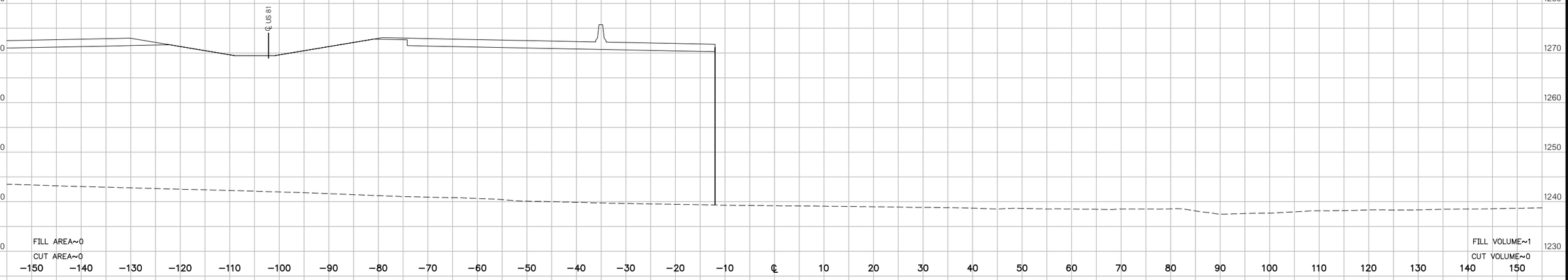
State Job No. 24428(04) Sheet No. X495

PROPOSED
R/W
AUGUST 2017

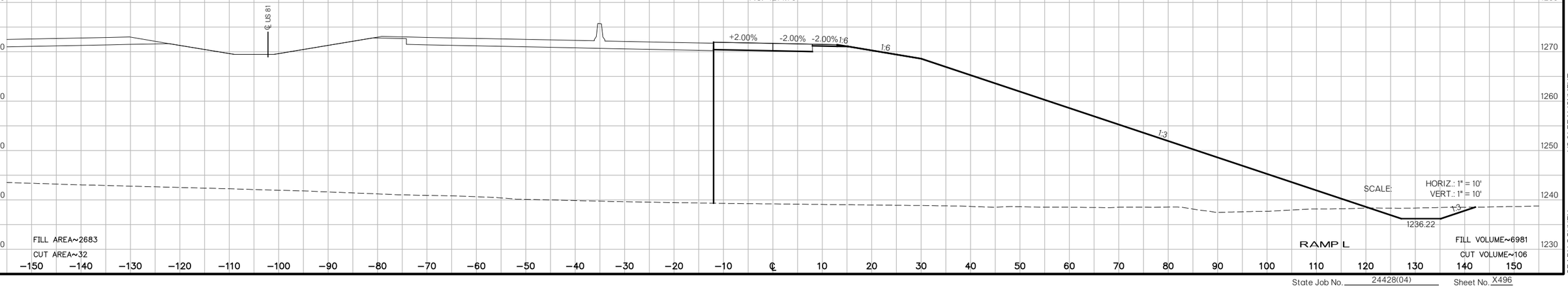
227+00



226+76.91



END PROJECT
226+76.90
F.G.=1271.70



US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X496

PROPOSED
R/W
AUGUST 2017

228+63.32

℄ US 81

℄ I-44

FILL AREA~0
CUT AREA~0

FILL VOLUME~0
CUT VOLUME~0

227+07.47

℄ US 81

STA. 227+07.47
O.H.E. L.W.~1262.0000

OHE

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP L

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X497

PROPOSED
R/W
AUGUST 2017

BEGIN PROJECT
298+40.59
F.G.=1270.77

℄ US 81

+2.00% -2.00% -2.00% 1:6 1:6 1:3

F/B

1280 1270 1260 1250 1240 1230 1220 1210

−140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

FILL AREA~5573
CUT AREA~0

FILL VOLUME~1
CUT VOLUME~0

298+40.58

℄ US 81

F/B

FILL AREA~0
CUT AREA~0

FILL VOLUME~0
CUT VOLUME~0

THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPES & LOCATIONS OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE TO MAKE THE DETERMINATIONS AS TO THE TYPE & LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING OWNERS OF UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS.

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

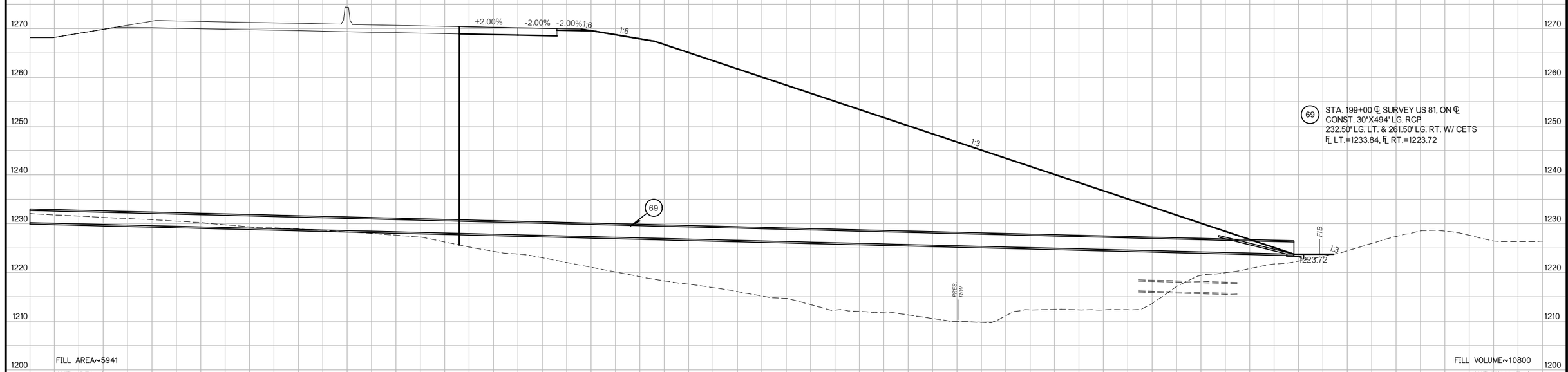
RAMP M

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X498

PROPOSED
R/W
AUGUST 2017

299+00
F.G.=1270.16



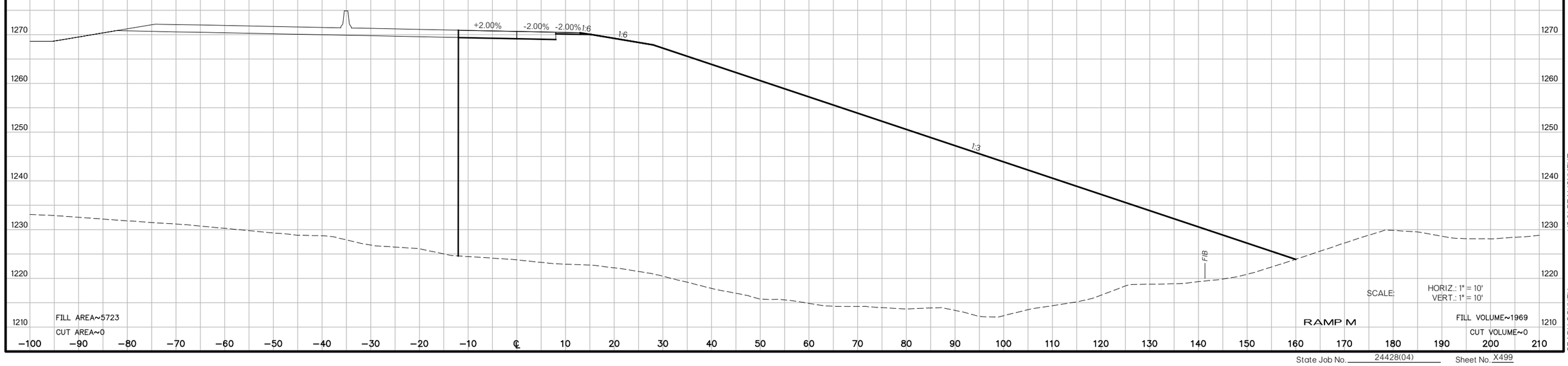
69 STA. 199+00 ℄ SURVEY US 81, ON ℄
CONST. 30"X494' LG. RCP
232.50' LG. LT. & 261.50' LG. RT. W/ CETS
℄ LT.=1233.84, ℄ RT.=1223.72

FILL AREA~5941
CUT AREA~0

FILL VOLUME~10800
CUT VOLUME~0

−100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210

298+50
F.G.=1270.67



FILL AREA~5723
CUT AREA~0

FILL VOLUME~1969
CUT VOLUME~0

−100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP M

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X499

PROPOSED
R/W
AUGUST 2017

300+00
F.G.=1268.48

31 STA. 200+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 194 LF 18" RCP INTO DITCH RT. W/ CET
TG=1268.97, FL=1253.97, DS FL=1221.89

+4.48% -4.48% -4.48% 1:6 1:6 1:3

PRES. R/W

1221.69

FILL AREA~5958
CUT AREA~0

FILL VOLUME~9850
CUT VOLUME~2

END NORMAL CROWN
299+54.93
F.G.=1269.43

+2.00% -2.00% -2.00% 1:6 1:6 1:3

PRES. R/W

FIB

1222.71

FILL AREA~5845
CUT AREA~2

FILL VOLUME~11989
CUT VOLUME~2

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP M

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X500

PROPOSED
R/W
AUGUST 2017

BEGIN FULL SUPERELEVATION
300+27.61
F.G.=1267.74

+6.00% +6.00% -6.00% -6.00% 1:6 1:6 1:3 1:3

PROP'S R/W

1221.54

FILL AREA~5874
CUT AREA~0

FILL VOLUME~5972
CUT VOLUME~0

300+00.35
F.G.=1268.47

+4.50% -4.50% -4.50% 1:6 1:6 1:3

PROP'S R/W

1221.88

FILL AREA~5958
CUT AREA~0

FILL VOLUME~78
CUT VOLUME~0

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP M

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X501

PROPOSED
R/W
AUGUST 2017

301+00
F.G.=1265.63

+2.06%
+6.00%
-6.00%
1:6
1:3
PRES. R.W.
1221.32

1280
1270
1260
1250
1240
1230
1220
1210
1200
1190

−100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210

FILL AREA~6802
CUT AREA~2

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP M

FILL VOLUME~16993
CUT VOLUME~3

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X502

PROPOSED
R/W
AUGUST 2017

301+10.66
F.G.=1265.22

+2.03%
+6.00%
-6.00%
1:6
1:3
PROP. R/W
1221.29

1280
1270
1260
1250
1240
1230
1220
1210
1200
1190

−100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210

FILL AREA~6998
CUT AREA~4

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP M

FILL VOLUME~2725
CUT VOLUME~1

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X503

PROPOSED
R/W
AUGUST 2017

301+17.77
F.G.=1265.03

1265.40

+6.00%

+6.00%

-6.00%

1:6

1:6

1:3

PRES R/W

1221.27

FILL AREA~6516
CUT AREA~4

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP M

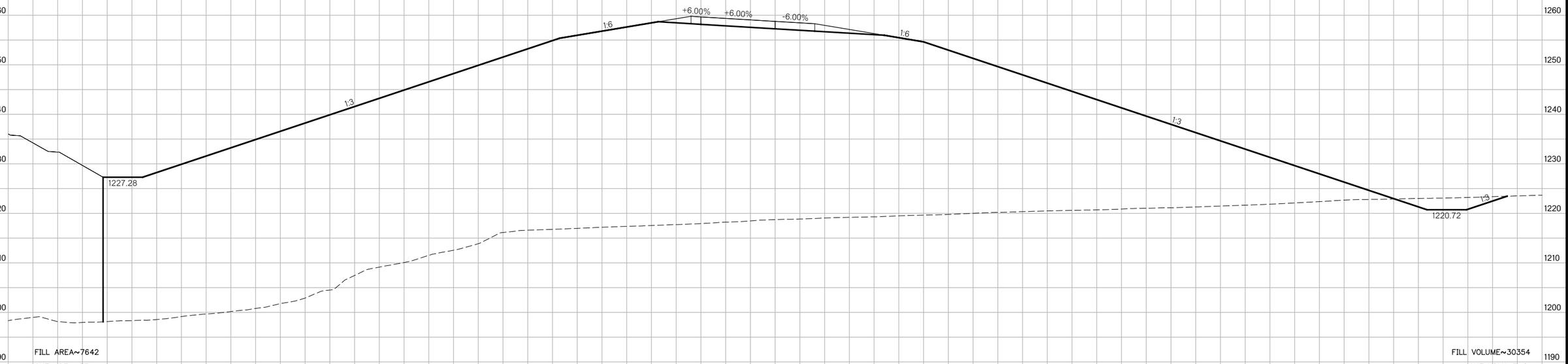
FILL VOLUME~1780
CUT VOLUME~1

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X504

PROPOSED
R/W
AUGUST 2017

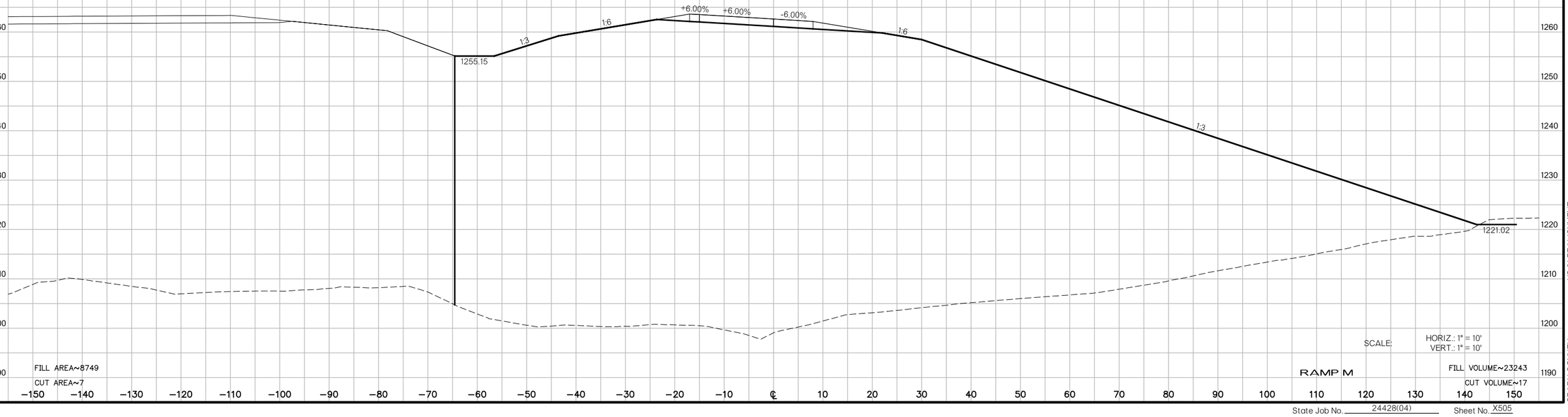
303+00
F.G.=1258.77



FILL AREA~7642
CUT AREA~37

FILL VOLUME~30354
CUT VOLUME~81

302+00
F.G.=1262.63



FILL AREA~8749
CUT AREA~7

FILL VOLUME~23243
CUT VOLUME~17

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

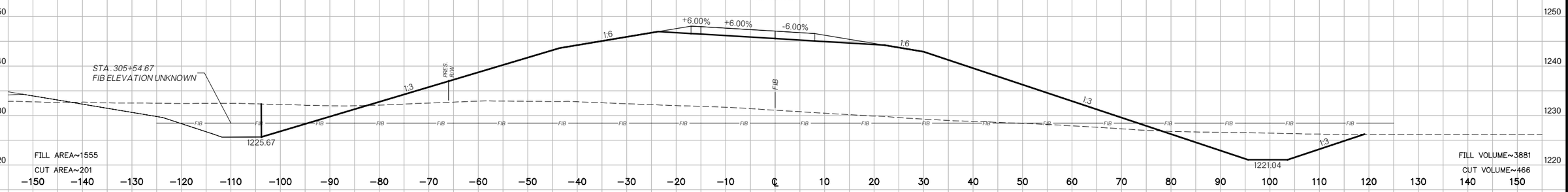
RAMP M

US 81 REALIGNMENT
GRADY COUNTY

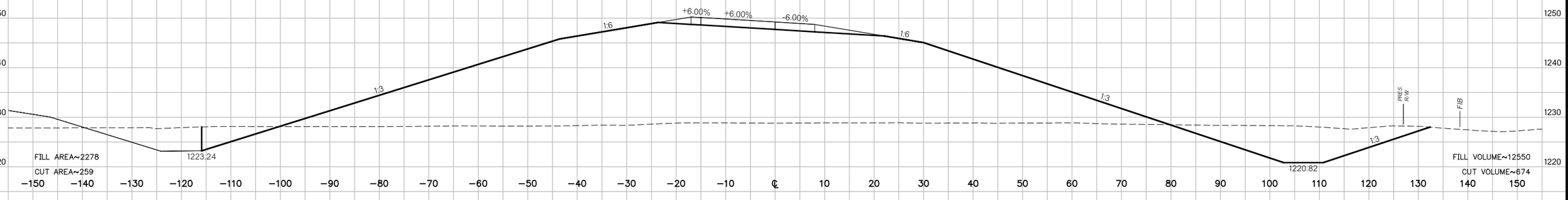
State Job No. 24428(04) Sheet No. X505

PROPOSED
R/W
AUGUST 2017

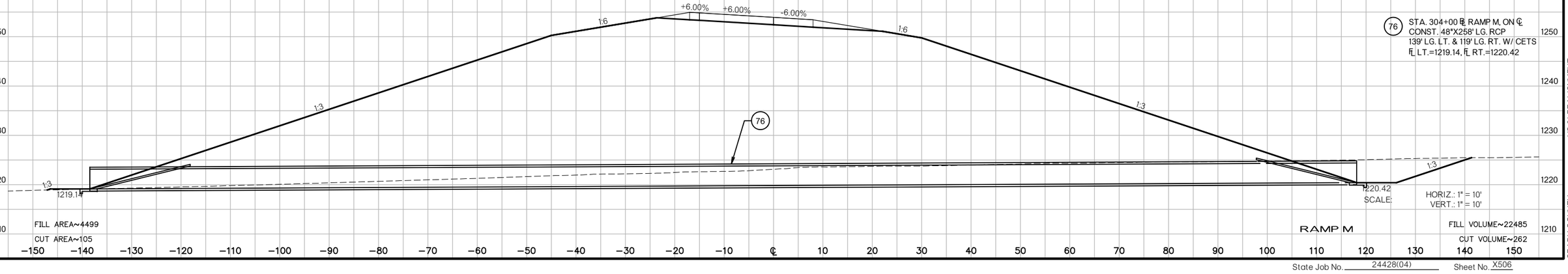
305+54.67
F.G.=1247.04



305+00
F.G.=1249.22



304+00
F.G.=1253.93

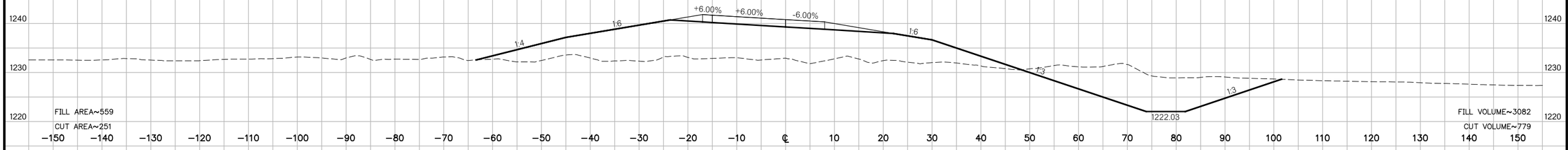


US 81 REALIGNMENT
GRADY COUNTY

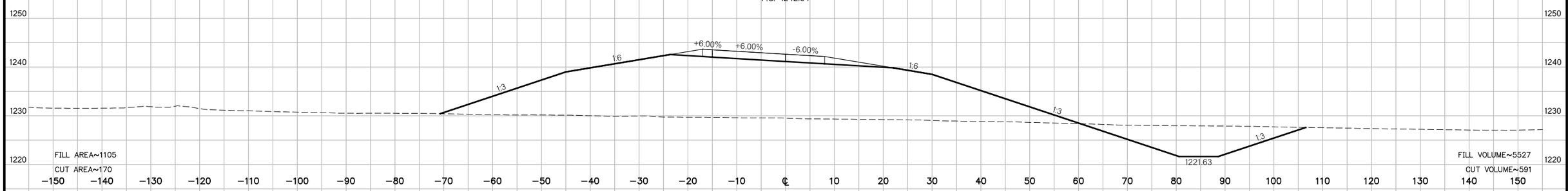
State Job No. 24428(04) Sheet No. X506

PROPOSED
R/W
AUGUST 2017

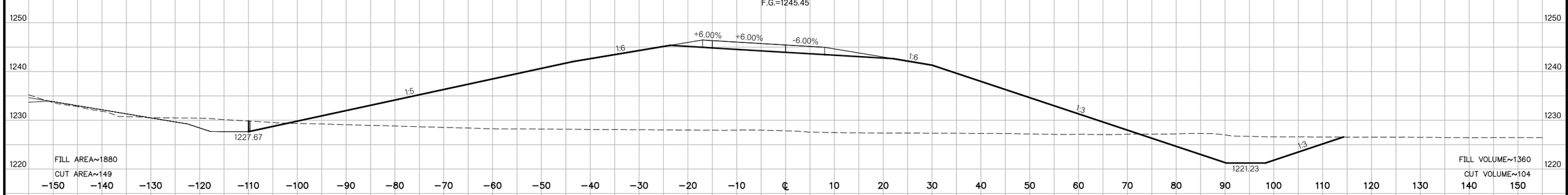
308+00
F.G.=1240.79



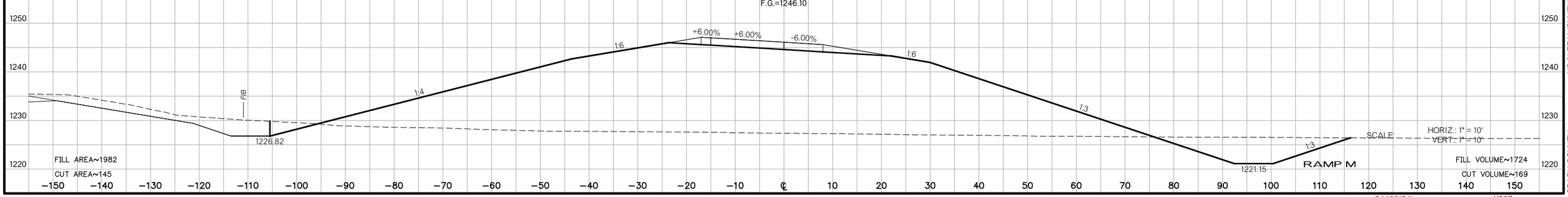
307+00
F.G.=1242.64



306+00
F.G.=1245.45



305+80.99
F.G.=1246.10

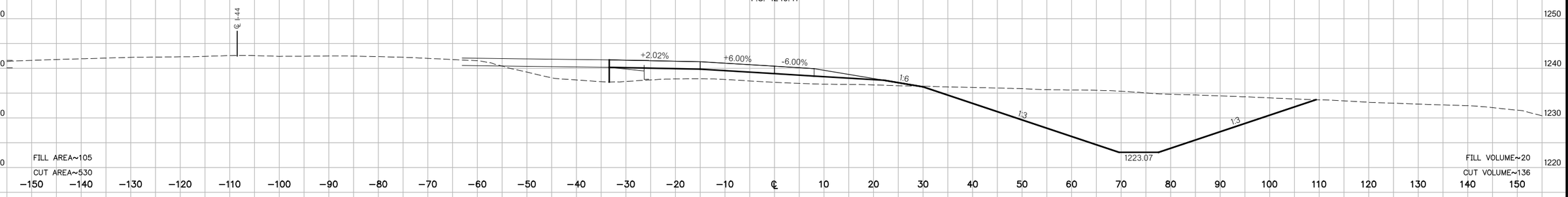


US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X507

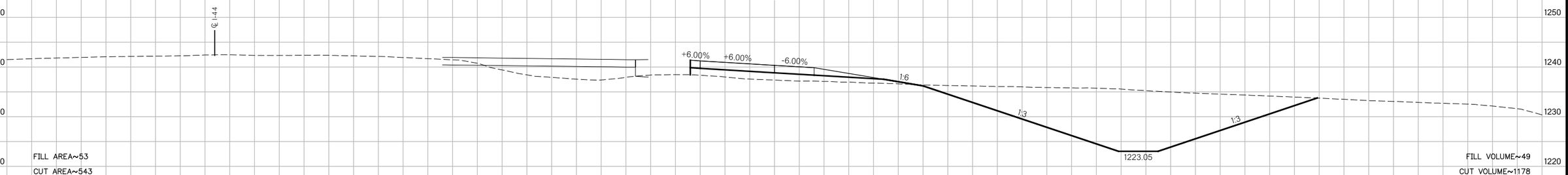
PROPOSED
R/W
AUGUST 2017

310+57.22
F.G.=1240.41



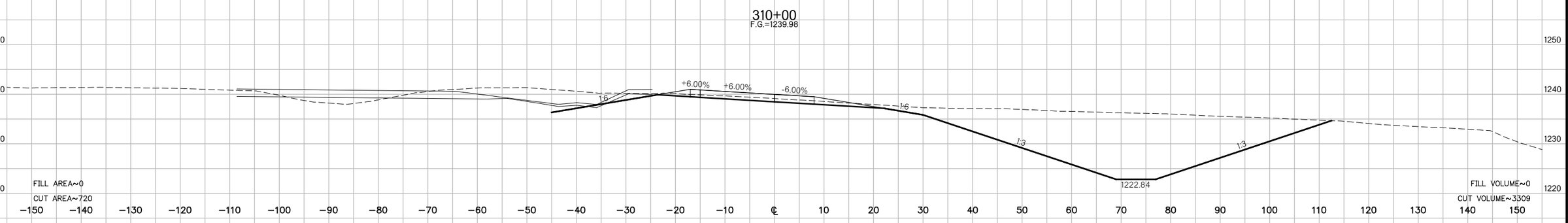
FILL AREA~105
CUT AREA~530
FILL VOLUME~20
CUT VOLUME~136

310+50.38
F.G.=1240.34



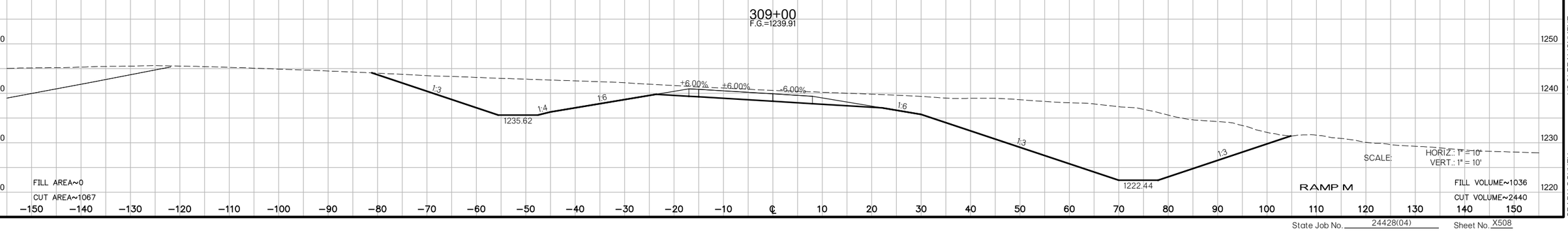
FILL AREA~53
CUT AREA~543
FILL VOLUME~49
CUT VOLUME~1178

310+00
F.G.=1239.98



FILL AREA~0
CUT AREA~720
FILL VOLUME~0
CUT VOLUME~3309

309+00
F.G.=1239.91



FILL AREA~0
CUT AREA~1067
FILL VOLUME~1036
CUT VOLUME~2440

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

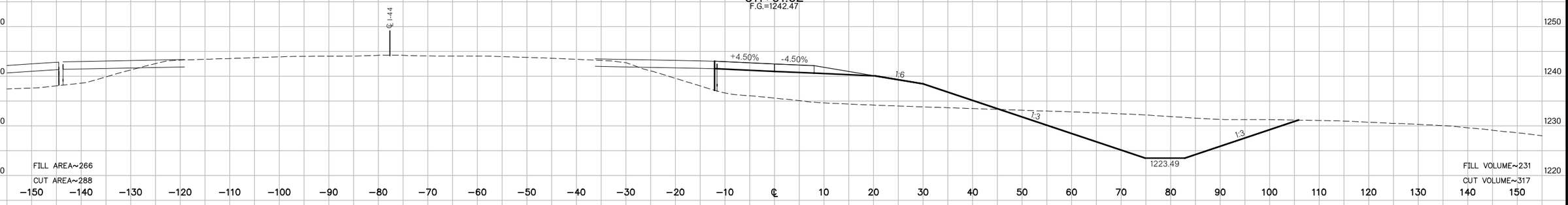
RAMP M

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X508

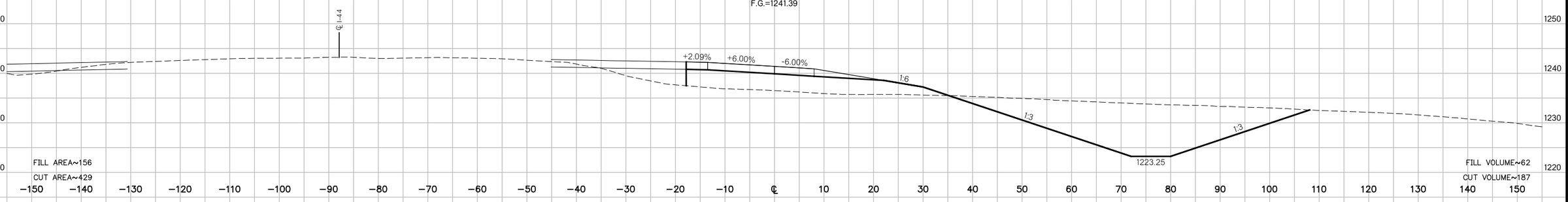
PROPOSED
R/W
AUGUST 2017

311+61.62
F.G.=1242.47

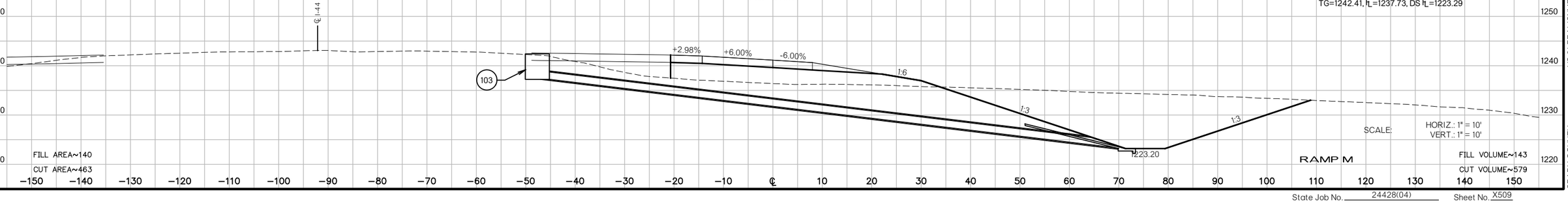


END FULL SUPERELEVATION
311+34.38
F.G.=1241.90

311+00
F.G.=1241.39



310+88.70
F.G.=1241.13



(103) STA. 294+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 120 LF 18" RCP INTO DITCH LT. W/ CET
TG=1242.41, FL=1237.73, DS FL=1223.29

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

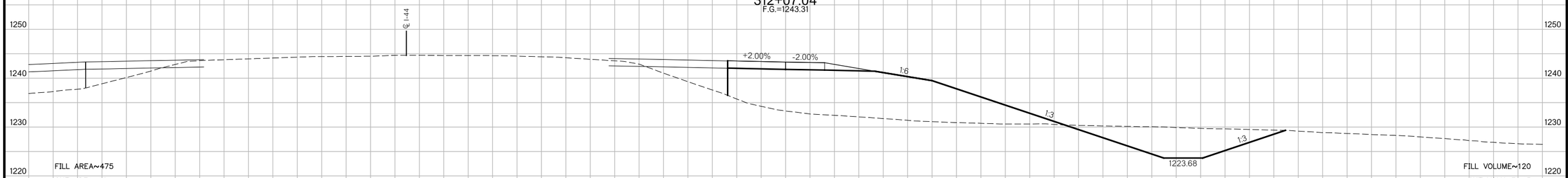
RAMP M

US 81 REALIGNMENT
GRADY COUNTY

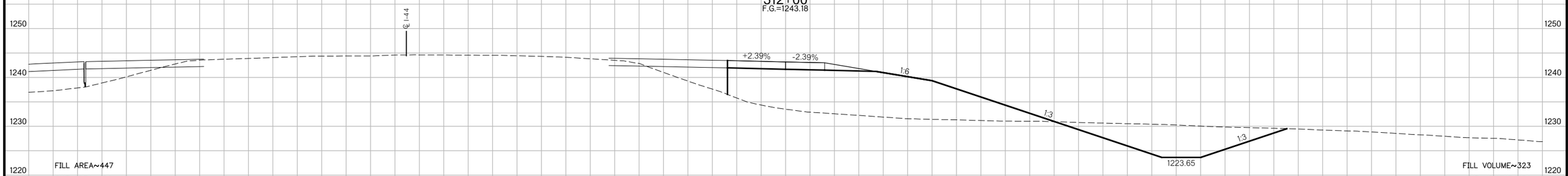
State Job No. 24428(04) Sheet No. X509

PROPOSED
R/W
AUGUST 2017

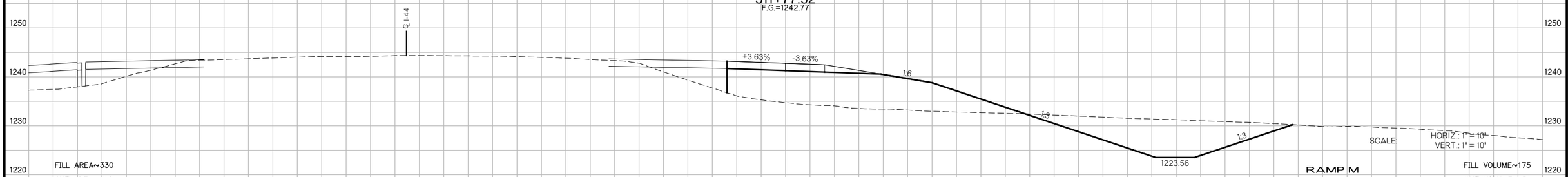
BEGIN NORMAL CROWN
312+07.04
F.G.=1243.31



312+00
F.G.=1243.18



311+77.52
F.G.=1242.77



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

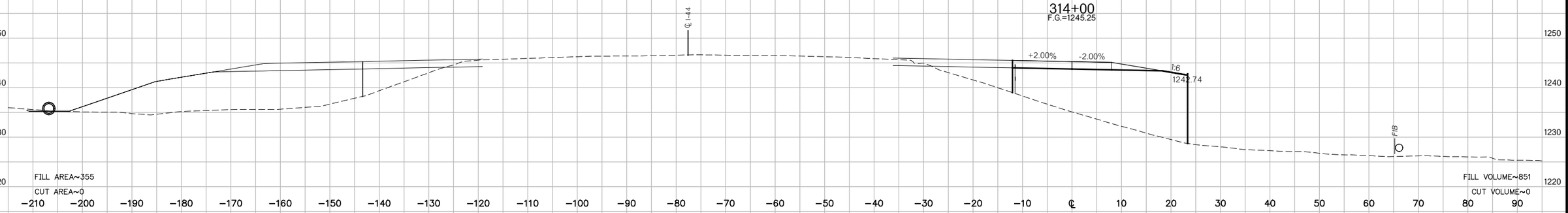
RAMP M

US 81 REALIGNMENT
GRADY COUNTY

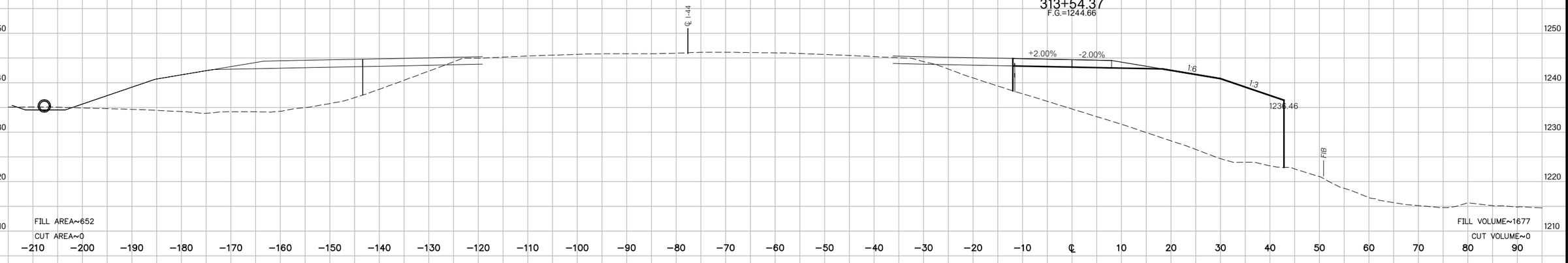
State Job No. 24428(04) Sheet No. X510

PROPOSED
R/W
AUGUST 2017

314+00
F.G.=1245.25

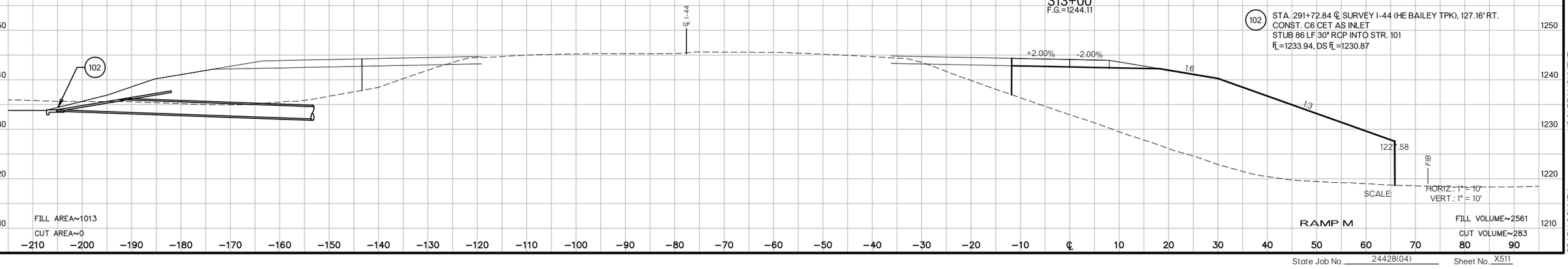


313+54.37
F.G.=1244.66



313+00
F.G.=1244.11

(102) STA. 291+72.84 ℄ SURVEY I-44 (HE BAILEY TPK), 127.16' RT.
CONST. C6 CET AS INLET
STUB 86 LF 30" RCP INTO STR. 101
FL=1233.94, DS FL=1230.87



SCALE:
HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP M

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X511

PROPOSED
R/W
AUGUST 2017

END PROJECT
315+31.22
F.G.=1246.88

℄ US 81

℄ I-44

+2.00% -2.00% 1:6

FIB

FILL AREA~269
CUT AREA~0

FILL VOLUME~323
CUT VOLUME~0

1280 1270 1260 1250 1240 1230

−210 −200 −190 −180 −170 −160 −150 −140 −130 −120 −110 −100 −90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90

315+00
F.G.=1246.52

℄ I-44

+2.00% -2.00% 1:6

FIB

FILL AREA~290
CUT AREA~0

FILL VOLUME~1193
CUT VOLUME~0

SCALE:
HORIZ.: 1" = 10'
VERT.: 1" = 10'

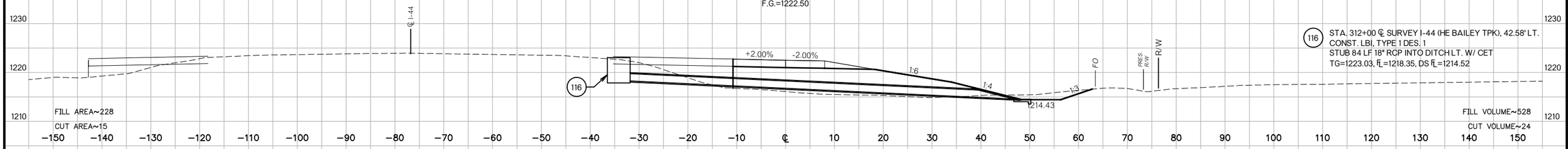
RAMP M

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X512

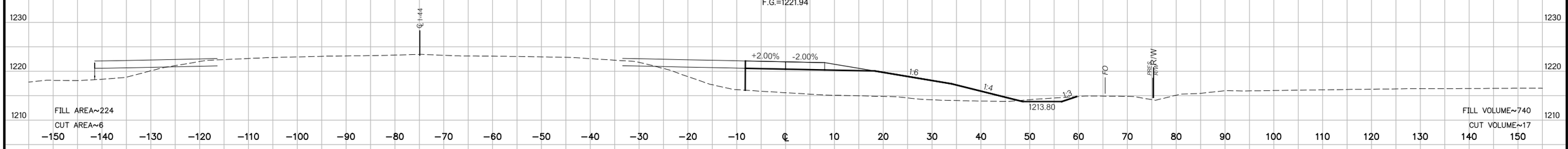
PROPOSED
R/W
AUGUST 2017

4178+63.13
F.G.=1222.50

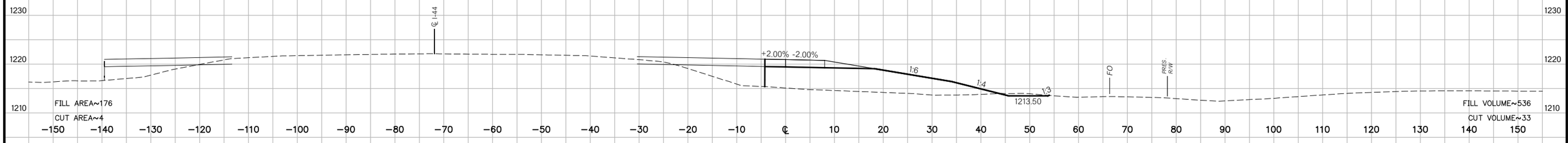


(116) STA. 312+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 84 LF 18" RCP INTO DITCH LT. W/ CET
TG=1223.03, FL=1218.35, DS FL=1214.52

4178+00
F.G.=1221.94



4177+00
F.G.=1220.92



BEGIN PROJECT
4176+00
F.G.=1219.89

THE INFORMATION SHOWN ON THESE PLANS CONCERNING TYPES & LOCATIONS OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE TO MAKE THE DETERMINATIONS AS TO THE TYPE & LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES BY CONTACTING OWNERS OF UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS.

4175+94.04

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

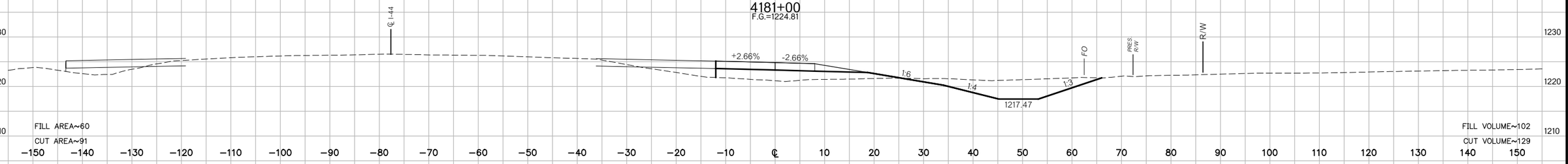
RAMP N

US 81 REALIGNMENT
GRADY COUNTY

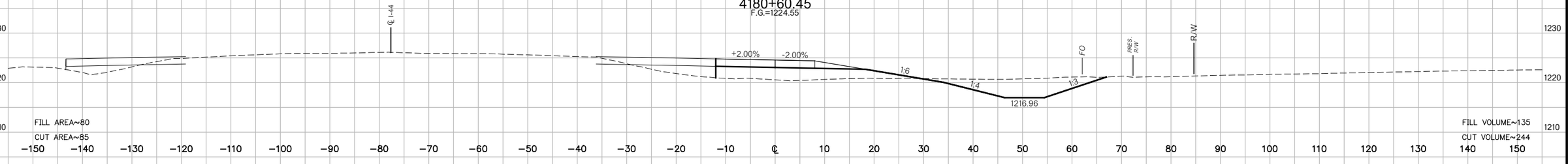
State Job No. 24428(04) Sheet No. X513

PROPOSED
R/W
AUGUST 2017

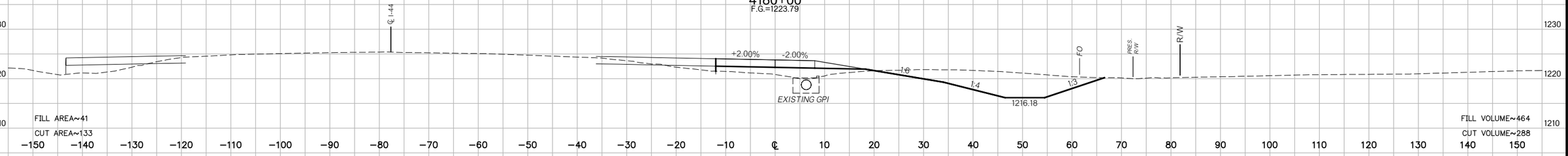
4181+00
F.G.=1224.81



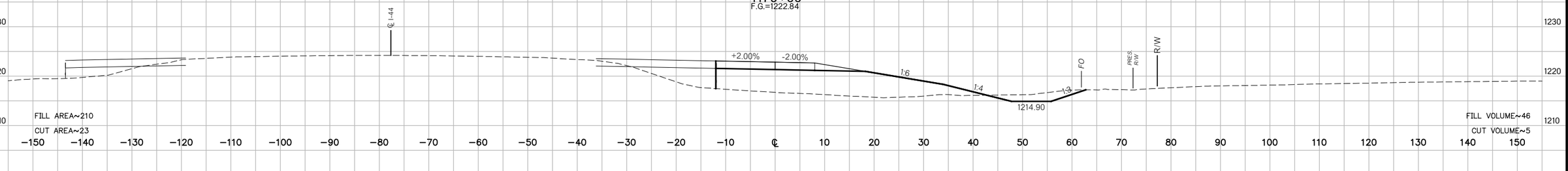
4180+60.45
F.G.=1224.55



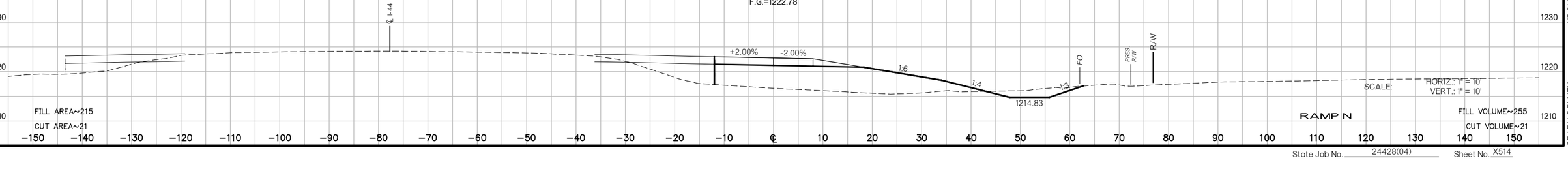
4180+00
F.G.=1223.79



4179+00
F.G.=1222.84



4178+94.17
F.G.=1222.78



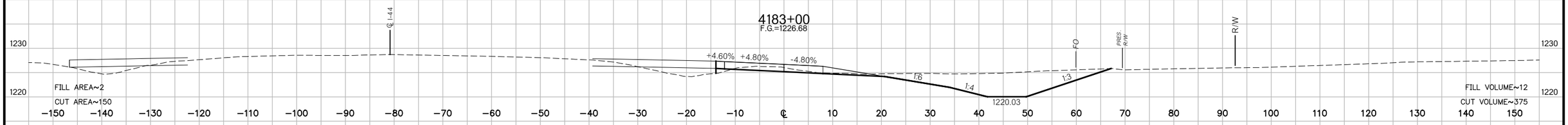
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

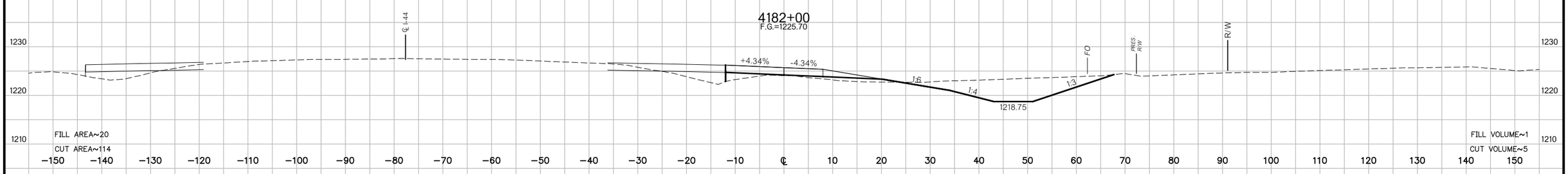
RAMP N

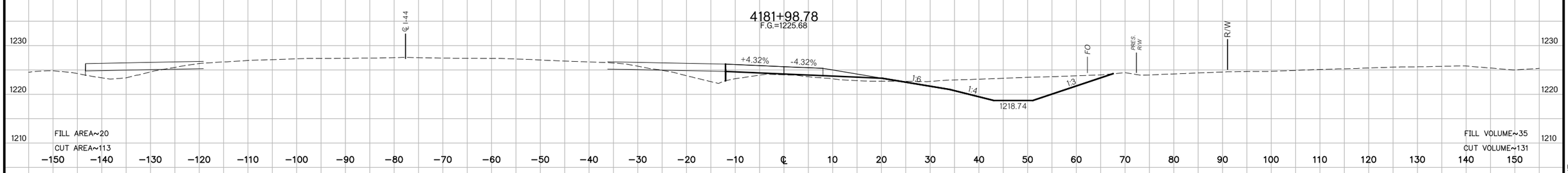
US 81 REALIGNMENT
GRADY COUNTY

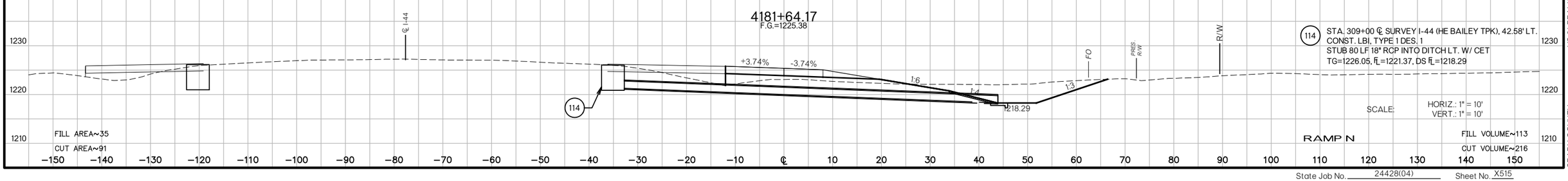
State Job No. 24428(04) Sheet No. X514

PROPOSED
R/W
AUGUST 2017









(114) STA. 309+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 80 LF 18" RCP INTO DITCH LT. W/ CET
TG=1226.05, FL=1221.37, DS FL=1218.29

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

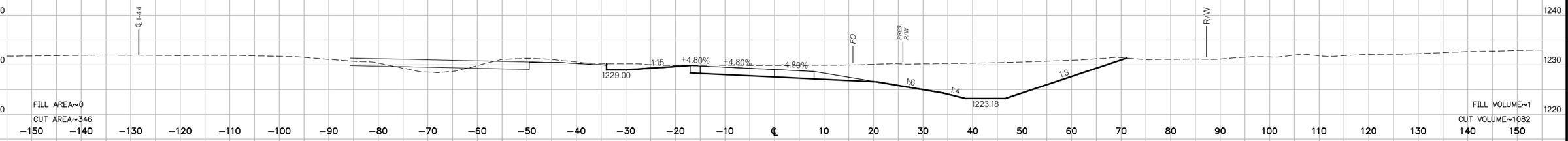
RAMP N

US 81 REALIGNMENT
GRADY COUNTY

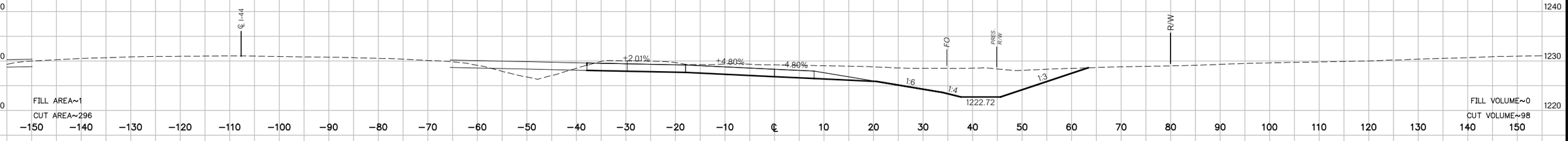
State Job No. 24428(04) Sheet No. X515

PROPOSED
R/W
AUGUST 2017

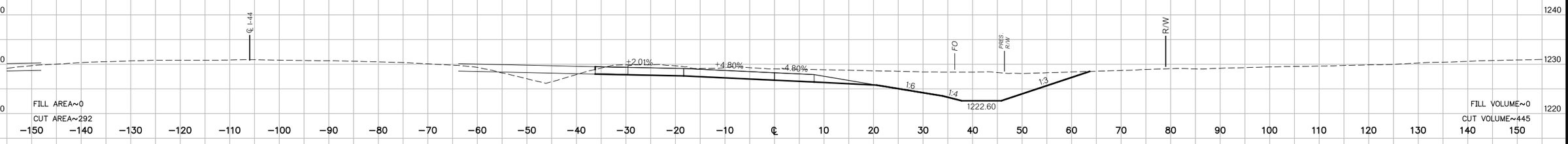
4186+00
F.G.=1229.05



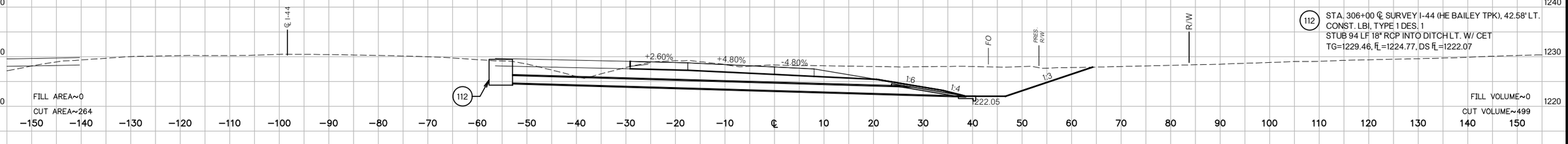
4185+09.01
F.G.=1228.34



4185+00
F.G.=1228.27

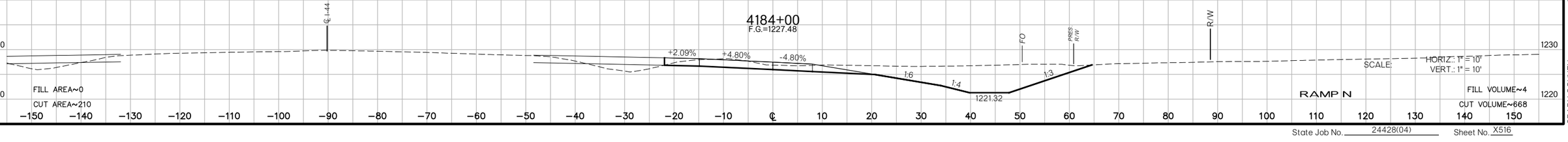


4184+56.80
F.G.=1227.93



(112) STA. 306+00 ℄ SURVEY I-44 (HE BAILEY TPK), 42.58' LT.
CONST. LBI, TYPE 1 DES. 1
STUB 94 LF 18" RCP INTO DITCH LT. W/ CET
TG=1229.46, FL=1224.77, DS FL=1222.07

4184+00
F.G.=1227.48



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

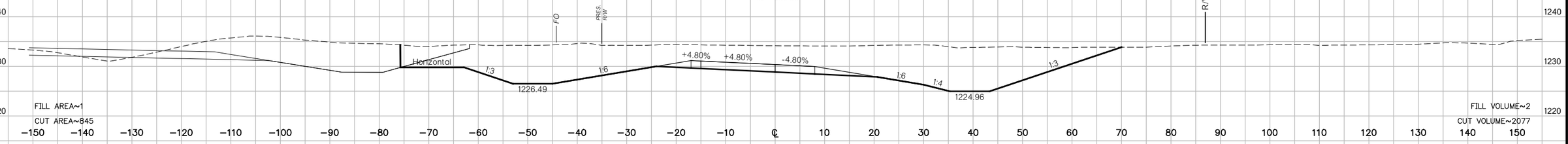
RAMP N

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X516

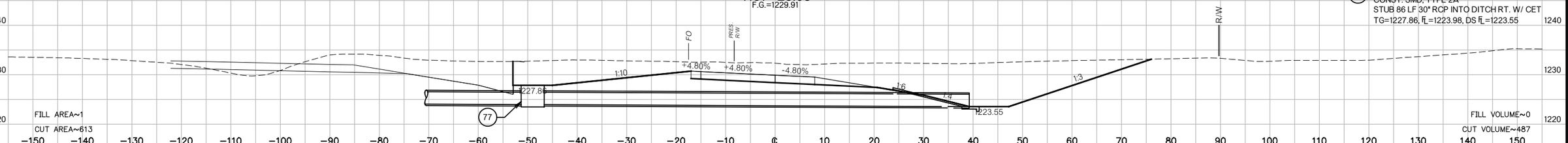
PROPOSED
R/W
AUGUST 2017

4188+00
F.G.=1230.35

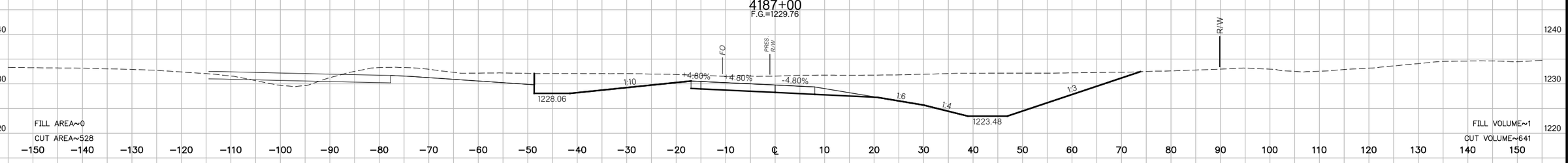


4187+23.03
F.G.=1229.91

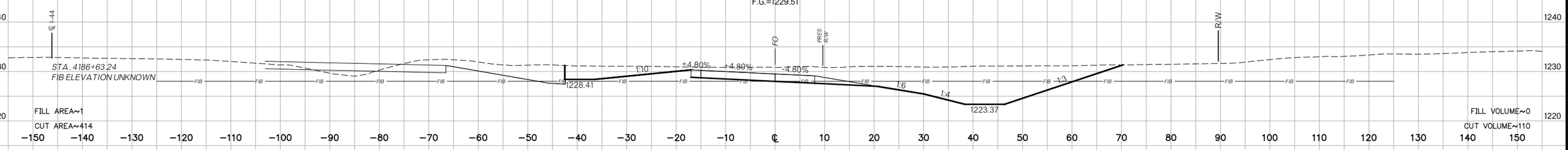
77 STA. 4187+23 ℄ RAMP N, 49.00' LT.
CONST. SMD, TYPE 2A
STUB 86 LF 30" RCP INTO DITCH RT. W/ CET
TG=1227.86, ℄L=1223.98, DS ℄L=1223.55



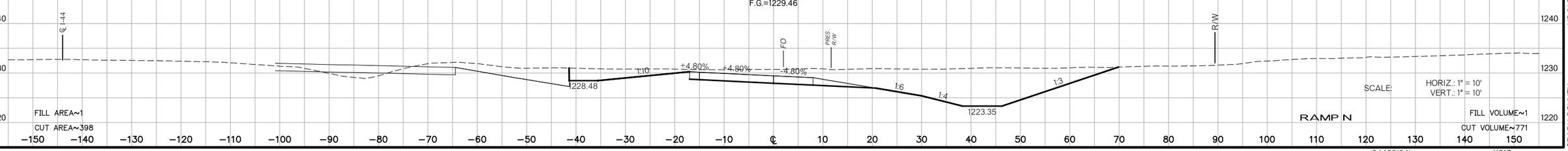
4187+00
F.G.=1229.76



4186+63.24
F.G.=1229.51



4186+55.95
F.G.=1229.46



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

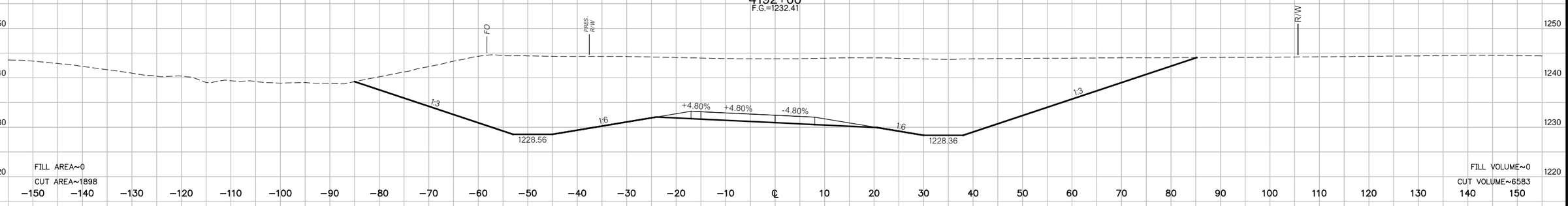
RAMP N

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X517

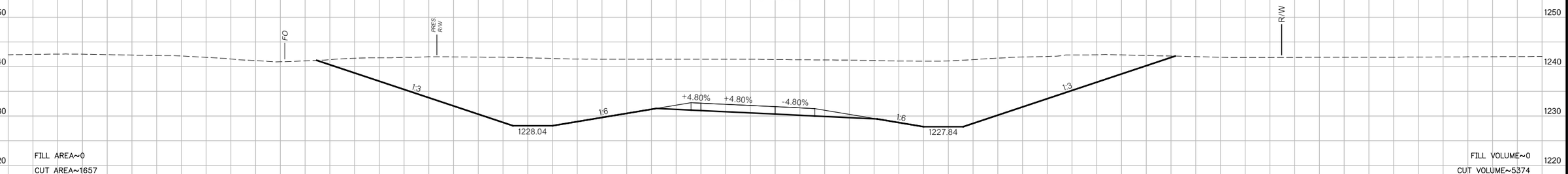
PROPOSED
R/W
AUGUST 2017

4192+00
F.G.=1232.41



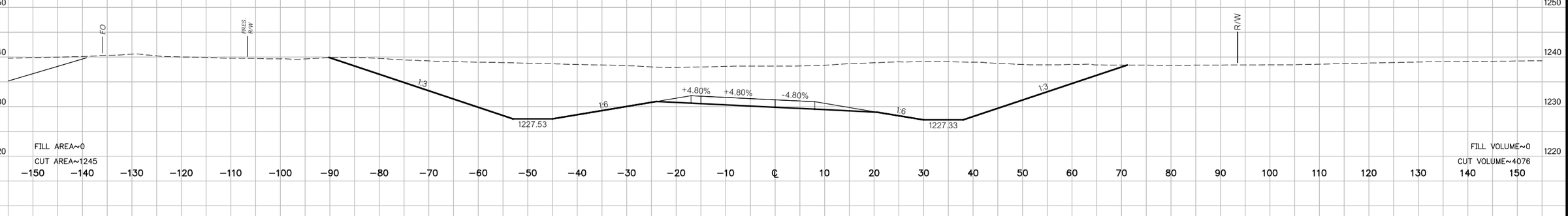
FILL AREA~0
CUT AREA~1898
FILL VOLUME~0
CUT VOLUME~6583

4191+00
F.G.=1231.89



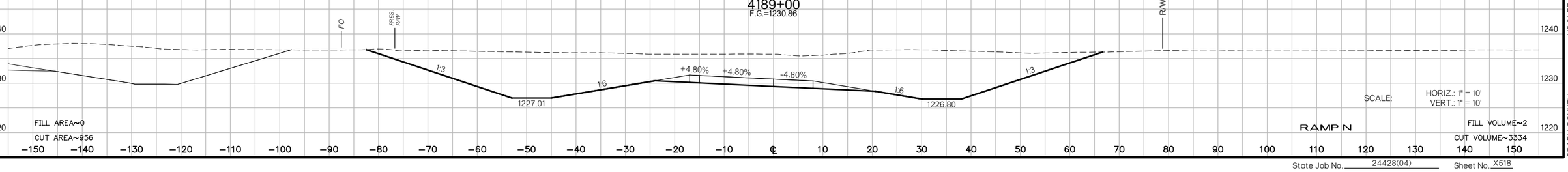
FILL AREA~0
CUT AREA~1657
FILL VOLUME~0
CUT VOLUME~5374

4190+00
F.G.=1231.38



FILL AREA~0
CUT AREA~1245
FILL VOLUME~0
CUT VOLUME~4076

4189+00
F.G.=1230.86



FILL AREA~0
CUT AREA~956
FILL VOLUME~2
CUT VOLUME~3334

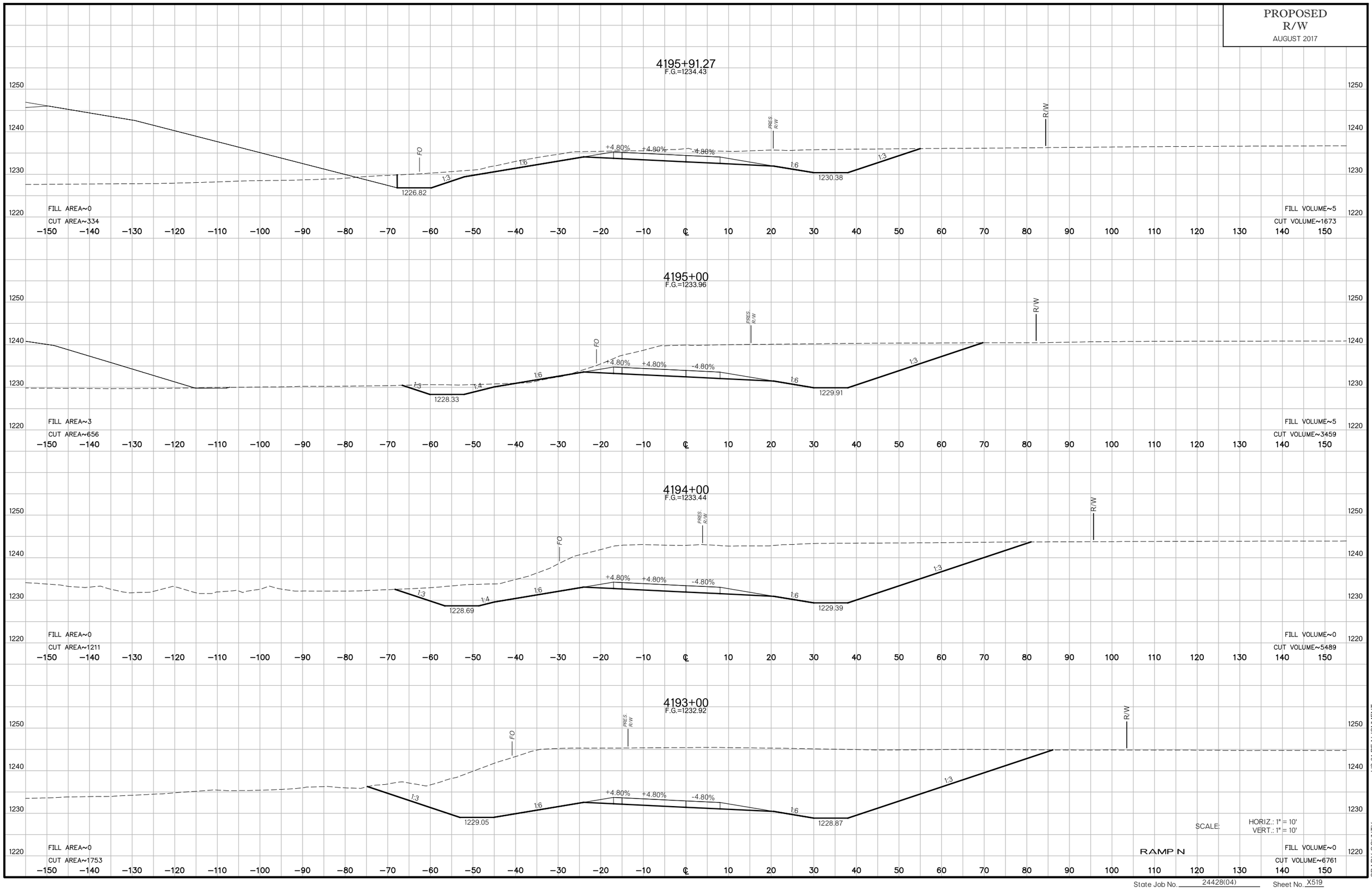
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP N

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X518

PROPOSED
R/W
AUGUST 2017



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP N

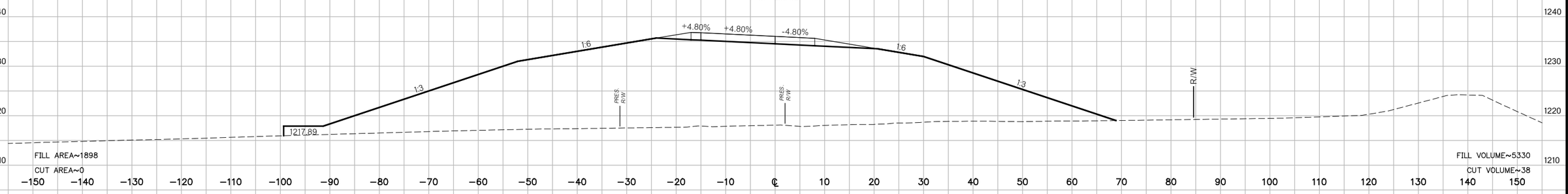
US 81 REALIGNMENT

GRADY COUNTY

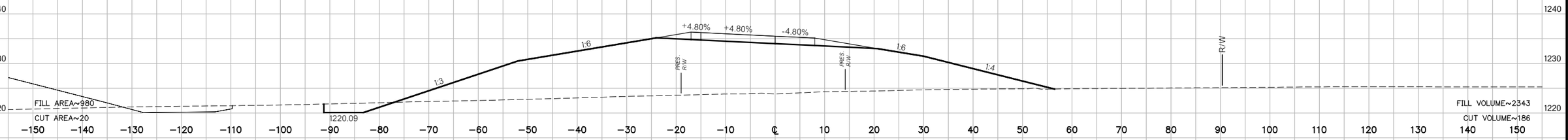
State Job No. 24428(04) Sheet No. X519

PROPOSED
R/W
AUGUST 2017

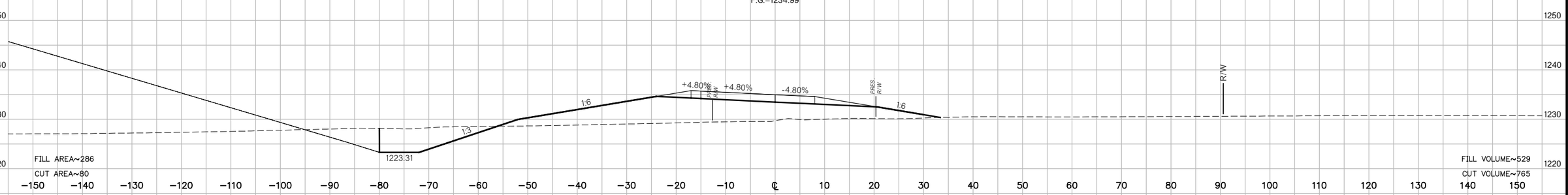
4199+00
F.G.=1236.02



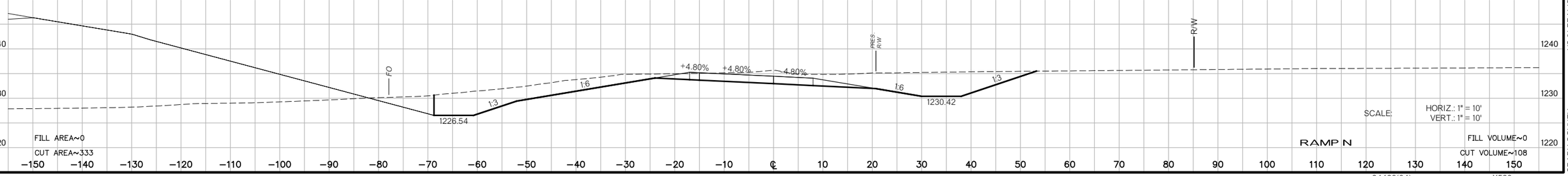
4198+00
F.G.=1235.50



4197+00
F.G.=1234.99



4196+00
F.G.=1234.47



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

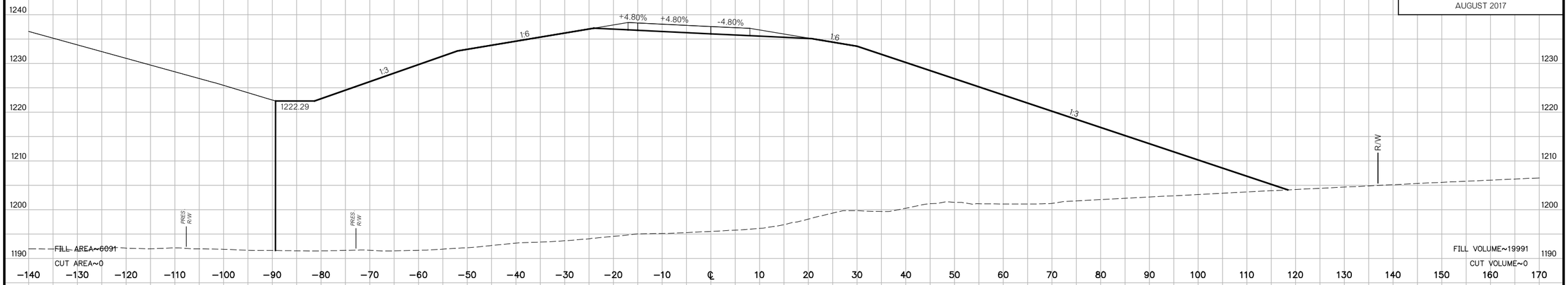
RAMP N

US 81 REALIGNMENT
GRADY COUNTY

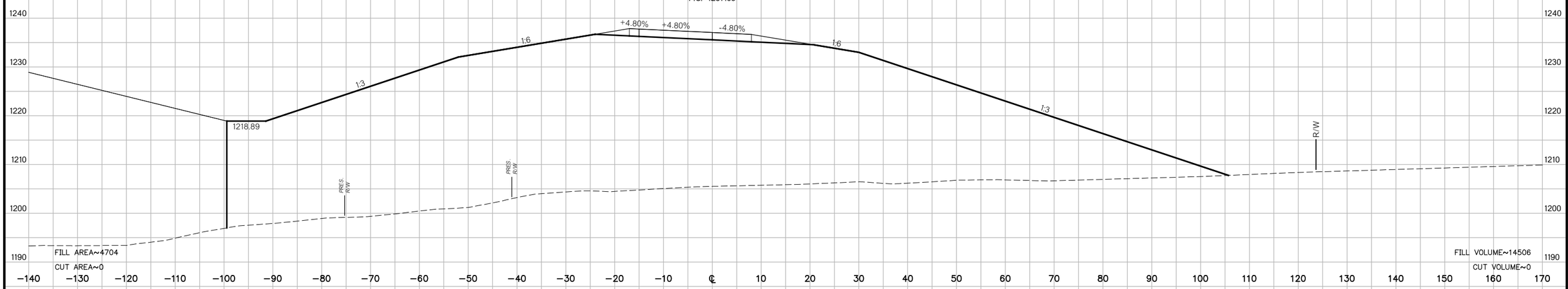
State Job No. 24428(04) Sheet No. X520

PROPOSED
R/W
AUGUST 2017

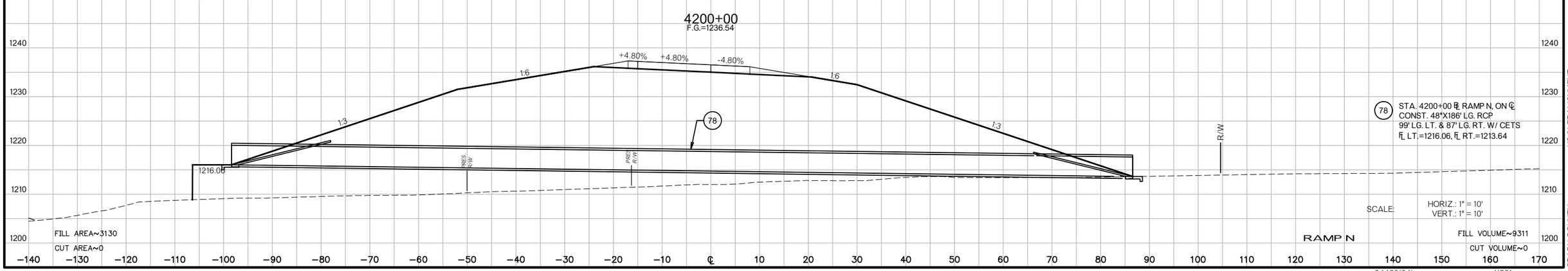
4202+00
F.G.=1237.57



4201+00
F.G.=1237.05



4200+00
F.G.=1236.54



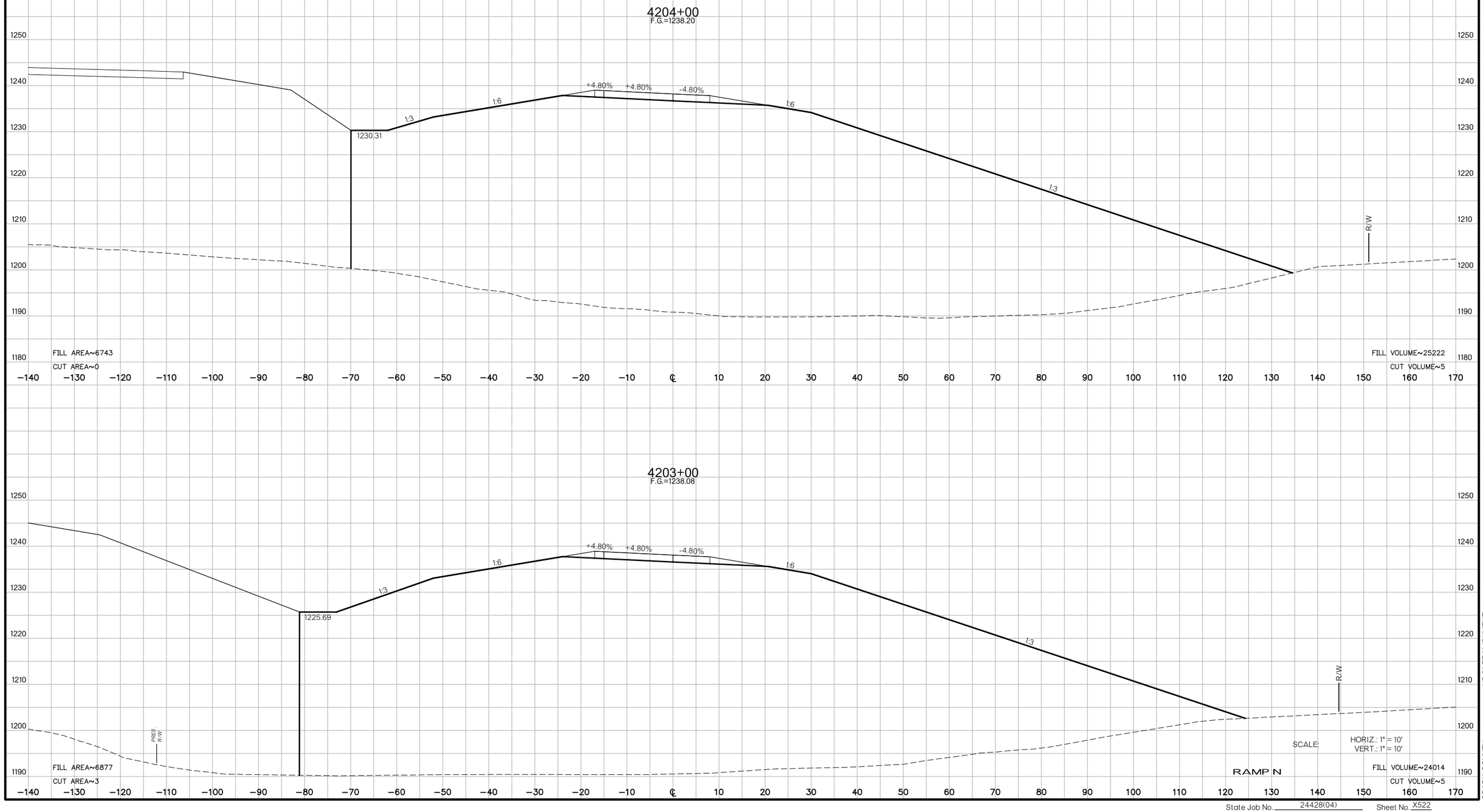
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP N

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X521

PROPOSED
R/W
AUGUST 2017



US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X522

PROPOSED
R/W
AUGUST 2017

4206+00
F.G.=1235.19

1234.23

1:6 +4.80% +4.80% -4.80% 1:6 1:3

R/W

FILL AREA~5102
CUT AREA~0

FILL VOLUME~20317
CUT VOLUME~0

4205+00
F.G.=1237.24

1234.92

1:6 +4.80% +4.80% -4.80% 1:6 1:3

R/W

FILL AREA~5869
CUT AREA~0

FILL VOLUME~23356
CUT VOLUME~0

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP N

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X523

PROPOSED
R/W
AUGUST 2017

4206+35.22
F.G.=1234.23

1233.99

+4.80%
+4.80%
-4.80%
1:7
1:6
1:3

79 STA. 4206+35.22 ℄ RAMP N, 26.92' LT.
CONST. SMD, TYPE 2
STUB 168 LF 18" RCP INTO DITCH RT. W/ CET
TG=1233.99, FL=1223.99, DS FL=1193.27

R/W

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

FILL AREA~5125
CUT AREA~0

FILL VOLUME~6670
CUT VOLUME~0

RAMP N

1240 1230 1220 1210 1200 1190 1180

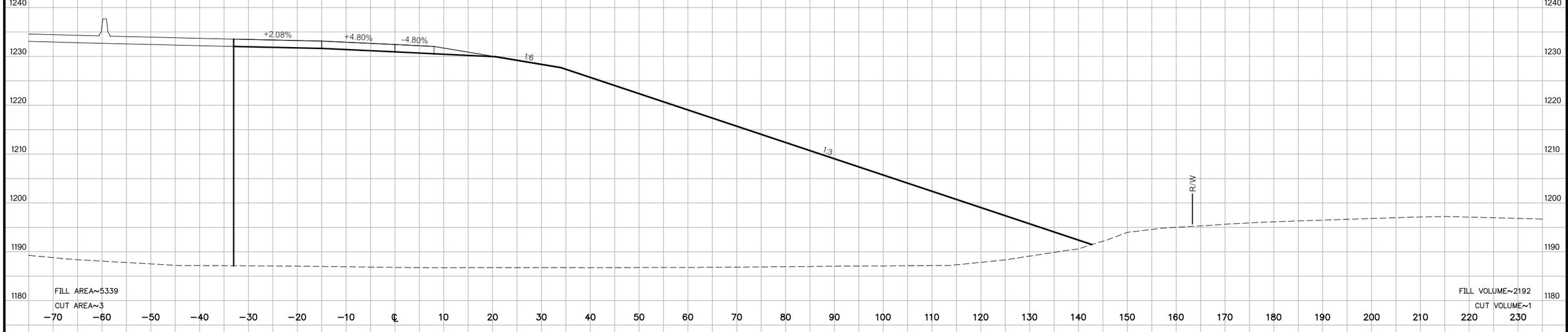
−90 −80 −70 −60 −50 −40 −30 −20 −10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210

US 81 REALIGNMENT
GRADY COUNTY

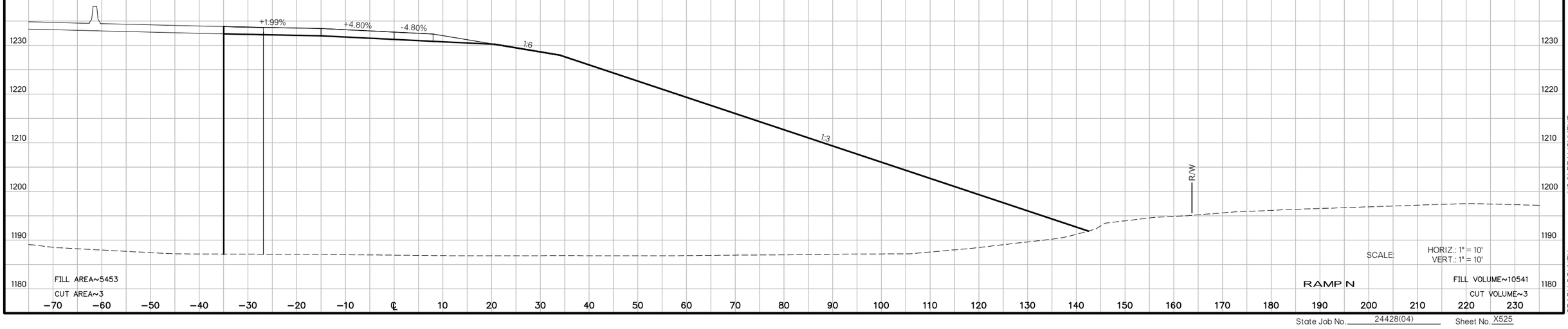
State Job No. 24428(04) Sheet No. X524

PROPOSED
R/W
AUGUST 2017

4207+00
F.G.=1232.42



4206+89.03
F.G.=1232.74



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP N

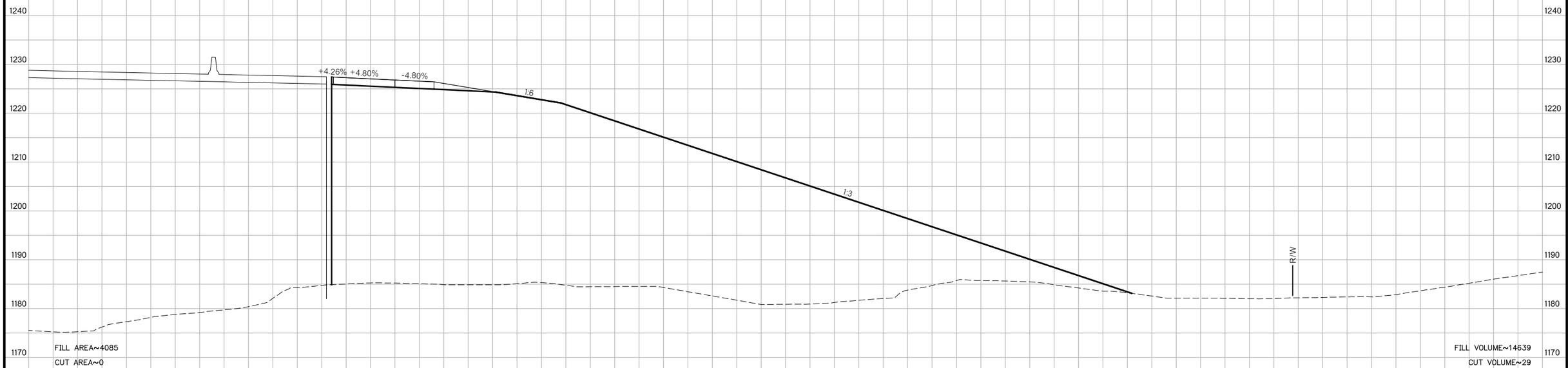
US 81 REALIGNMENT

GRADY COUNTY

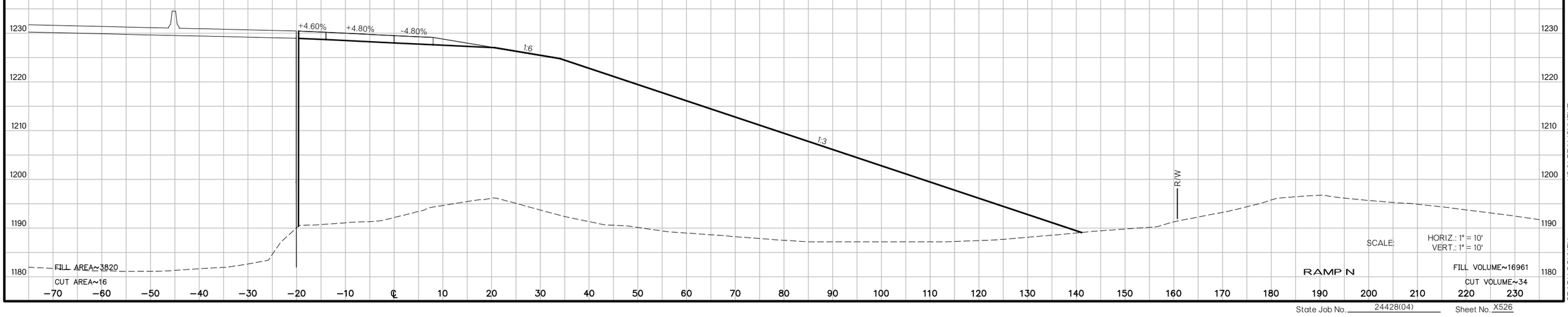
State Job No. 24428(04) Sheet No. X525

PROPOSED
R/W
AUGUST 2017

4209+00
F.G.=1226.80



4208+00
F.G.=1229.52



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

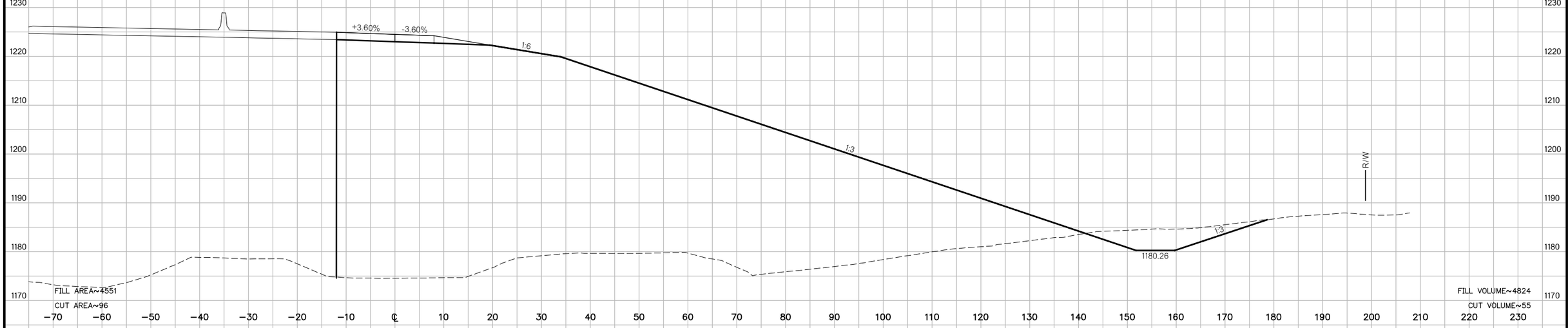
RAMP N

US 81 REALIGNMENT
GRADY COUNTY

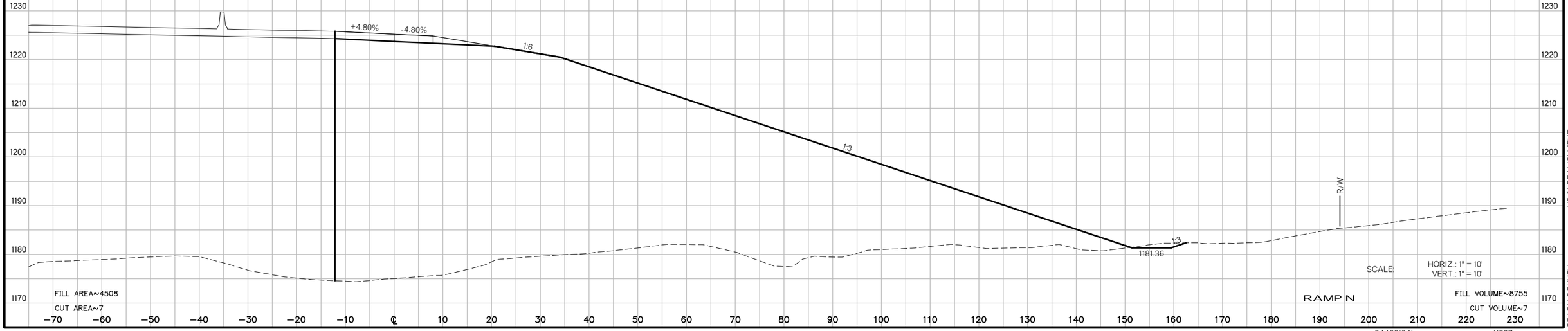
State Job No. 24428(04) Sheet No. X526

PROPOSED
R/W
AUGUST 2017

4209+83.76
F.G.=1224.51



END FULL SUPER
4209+55.01
F.G.=1225.22



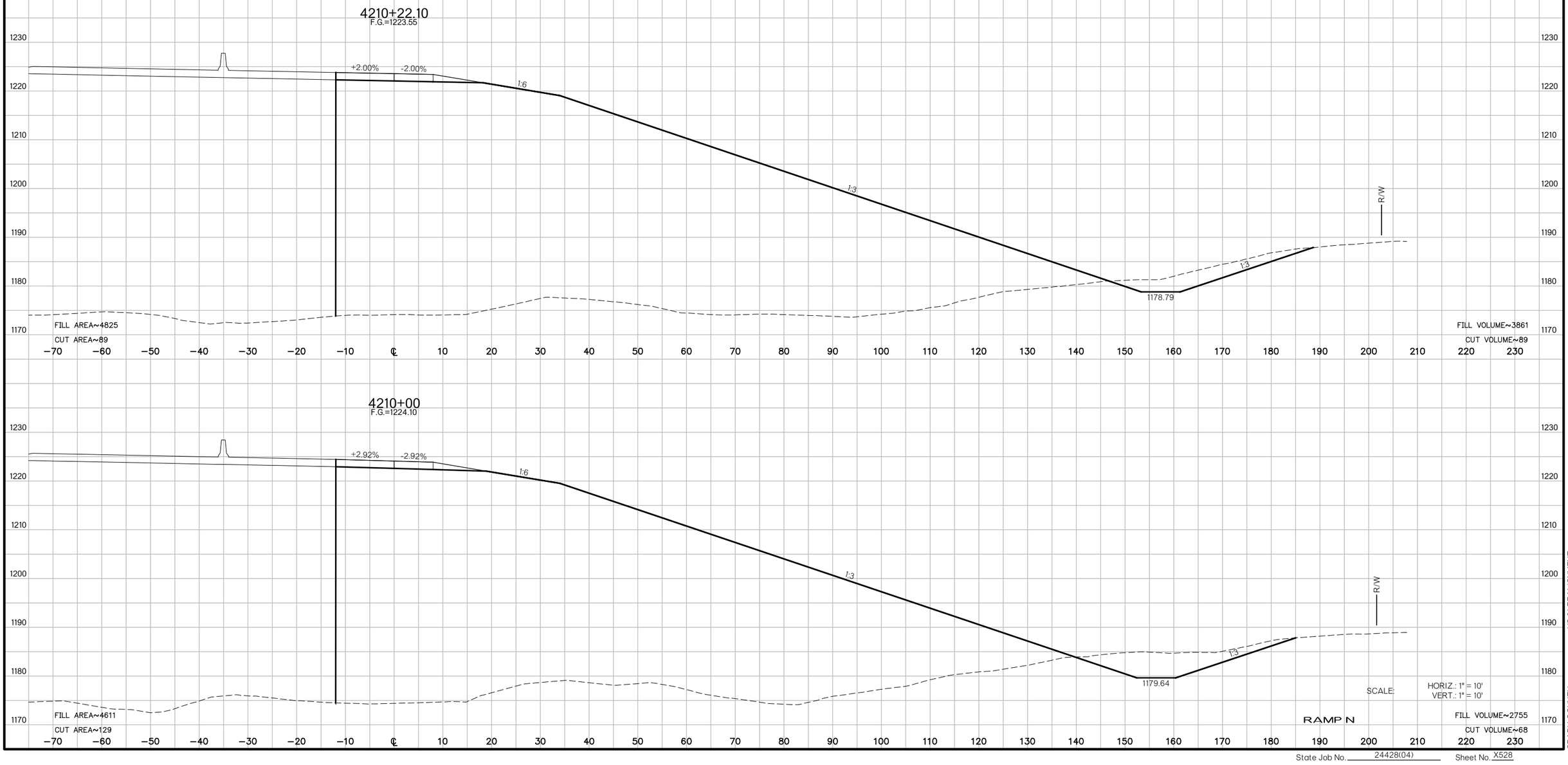
SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

RAMP N

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X527

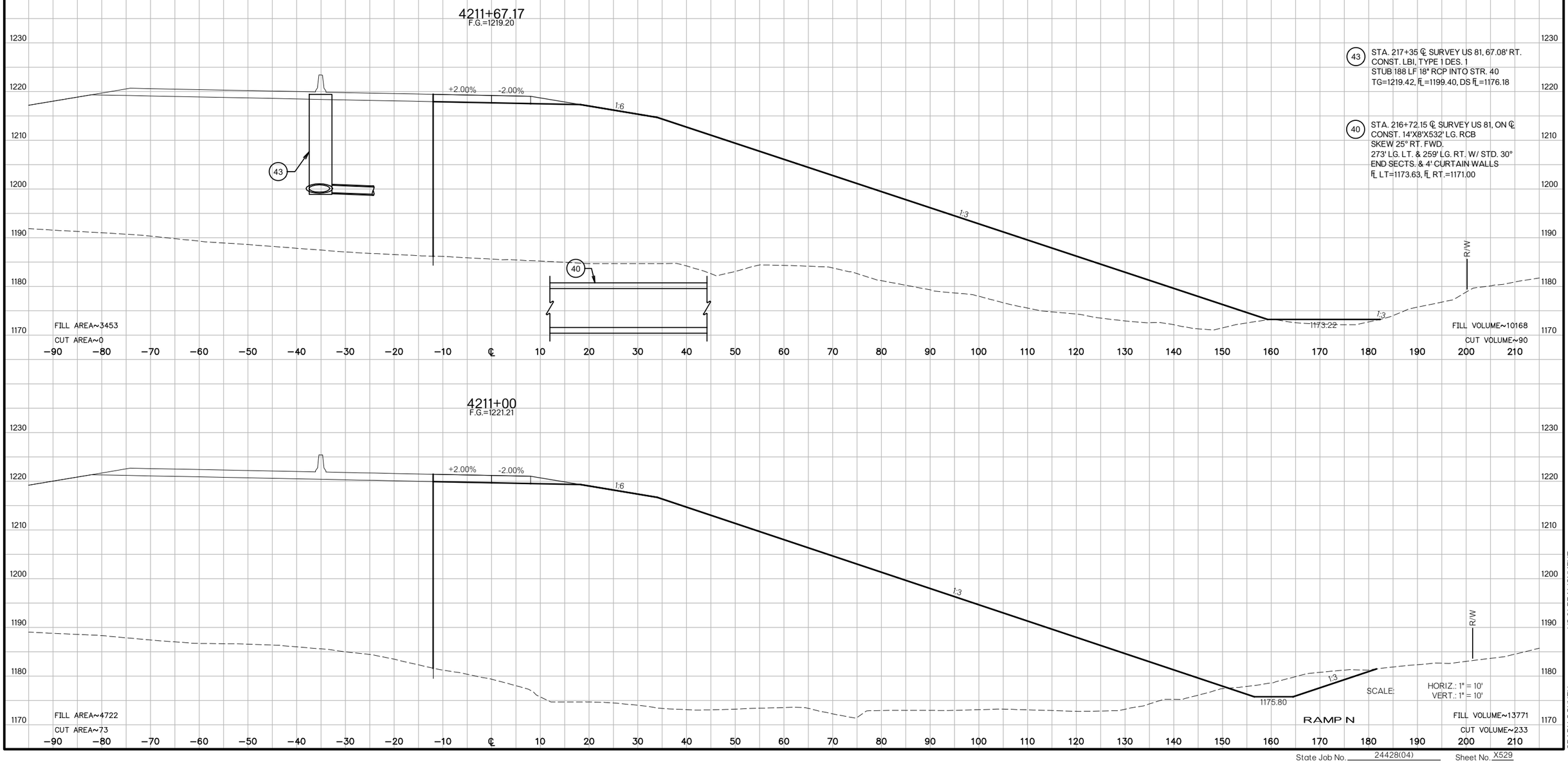
PROPOSED
R/W
AUGUST 2017



US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X528

PROPOSED
R/W
AUGUST 2017



43 STA. 217+35 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 188 LF 18" RCP INTO STR. 40
TG=1219.42, FL=1199.40, DS FL=1176.18

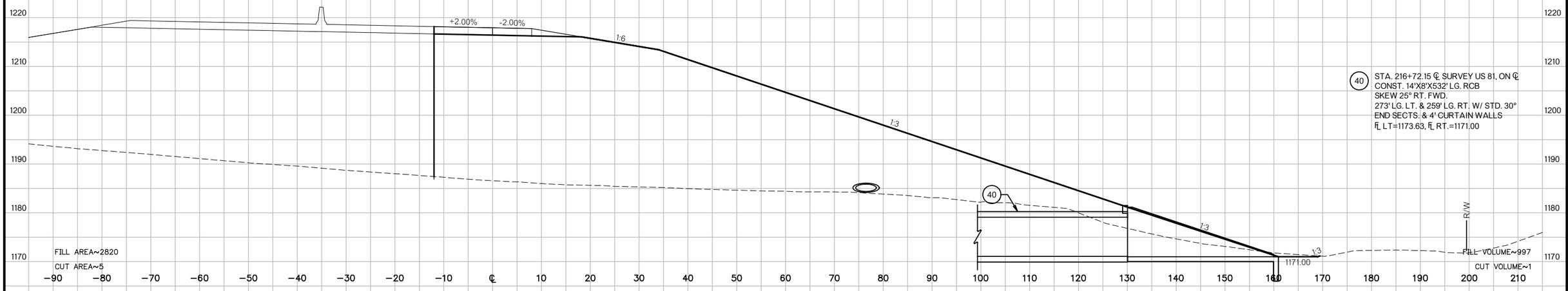
40 STA. 216+72.15 ℄ SURVEY US 81, ON ℄
CONST. 14'X8'X532' LG. RCB
SKEW 25° RT. FWD.
273' LG. LT. & 259' LG. RT. W/ STD. 30°
END SECTS. & 4' CURTAIN WALLS
FL LT=1173.63, FL RT.=1171.00

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X529

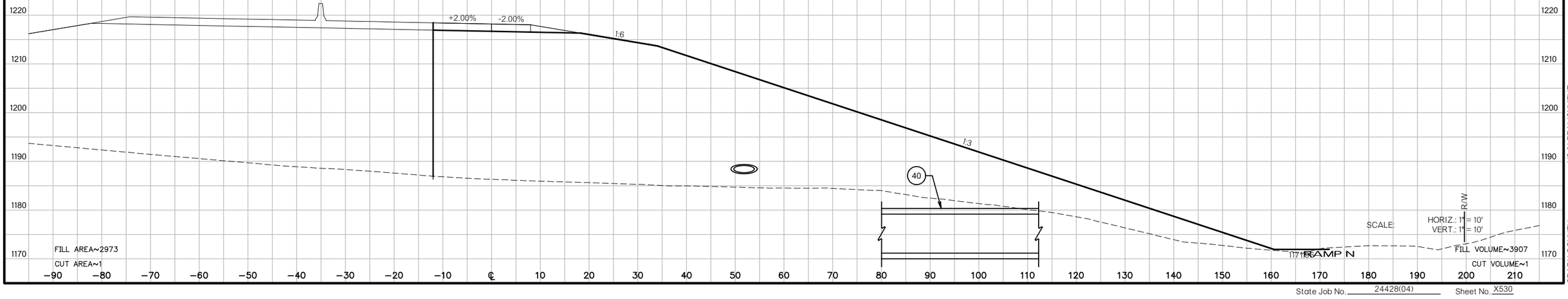
PROPOSED
R/W
AUGUST 2017

4212+09.30
F.G.=1217.93



40 STA. 216+72.15 ℄ SURVEY US 81, ON ℄
CONST. 14'X8'X532' LG. RCB
SKEW 25° RT. FWD.
273' LG. LT. & 259' LG. RT. W/ STD. 30°
END SECTS. & 4' CURTAIN WALLS
fl LT=1173.63, fl RT.=1171.00

4212+00
F.G.=1218.21



SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

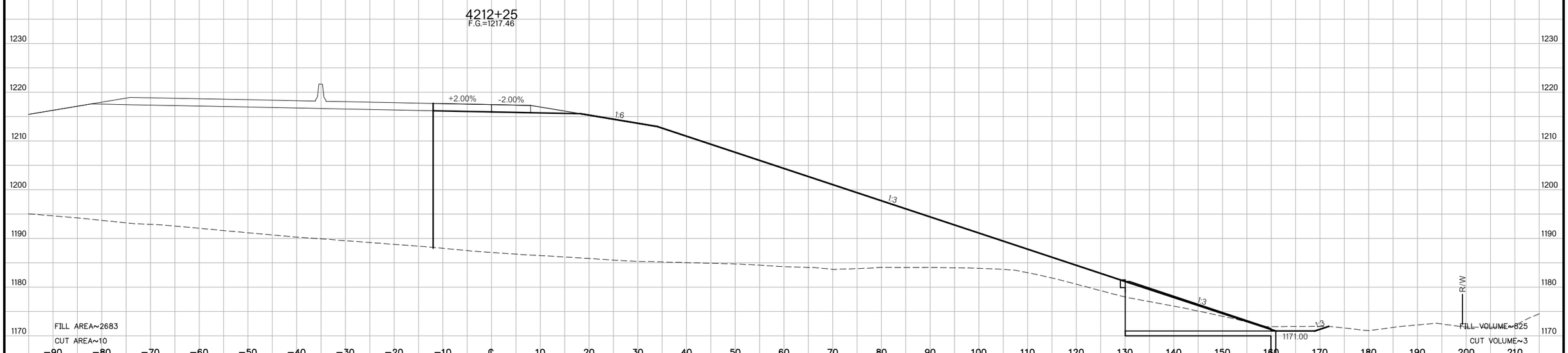
RAMP N

US 81 REALIGNMENT
GRADY COUNTY

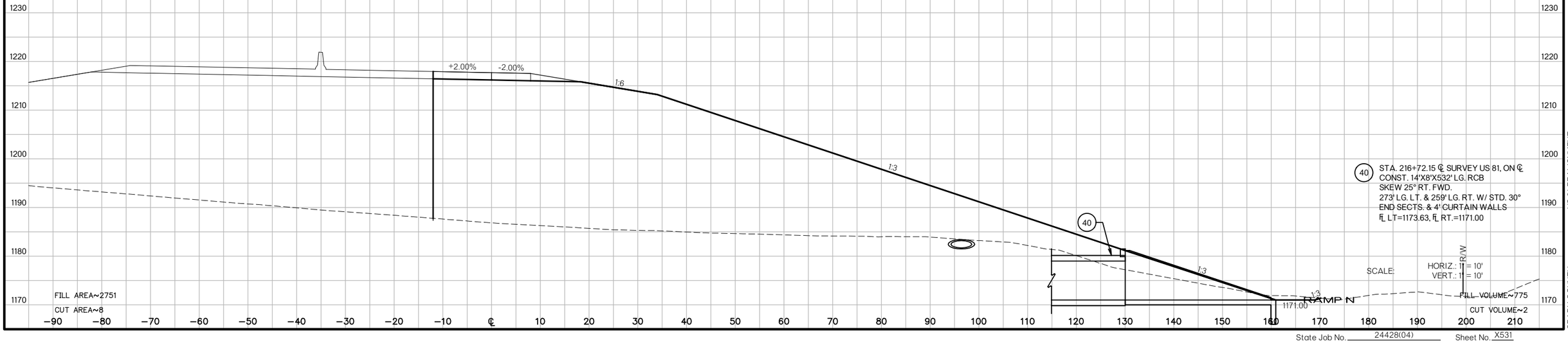
State Job No. 24428(04) Sheet No. X530

PROPOSED
R/W
AUGUST 2017

4212+25
F.G.=1217.46



4212+16.81
F.G.=1217.71



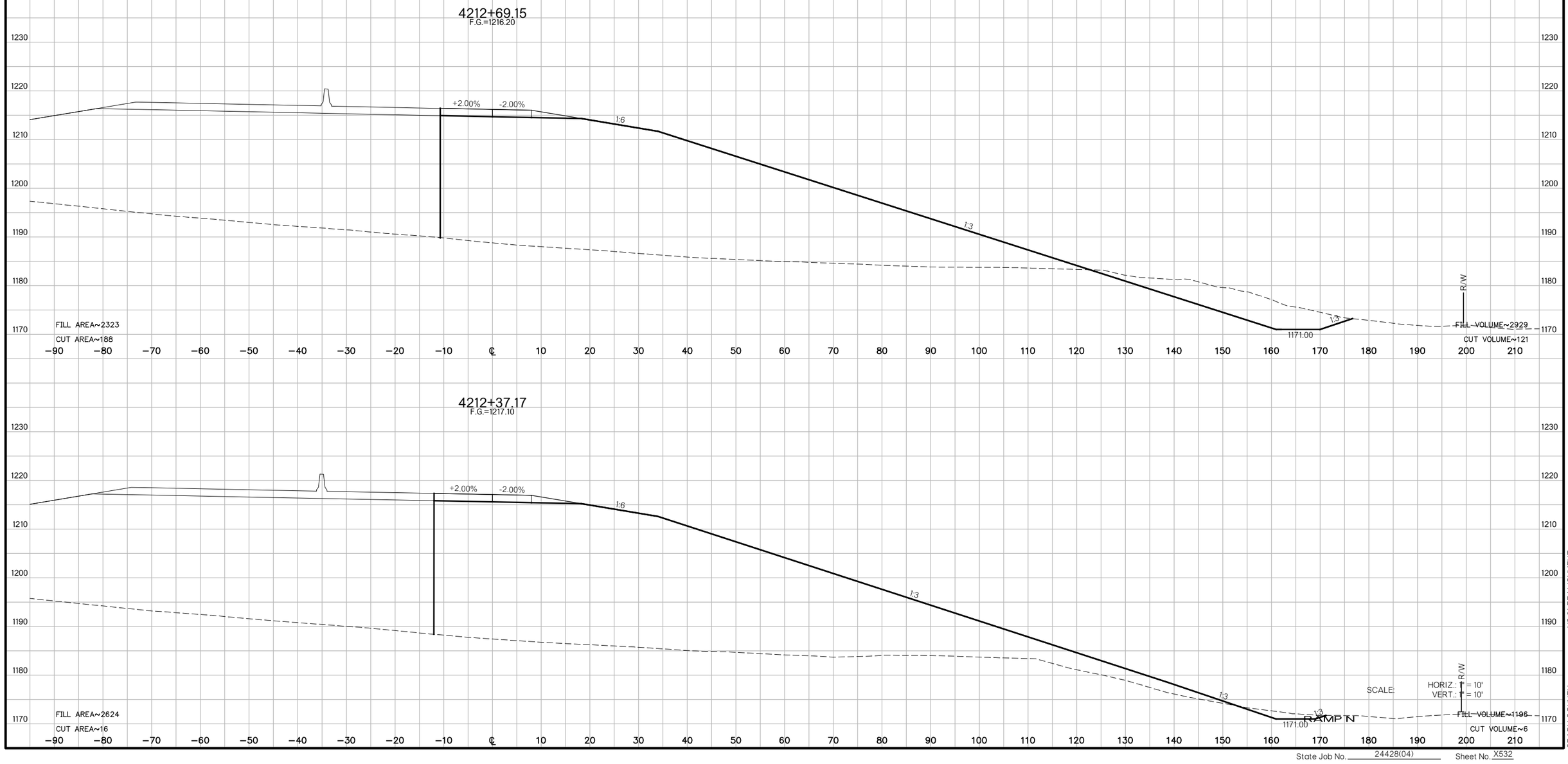
(40) STA. 216+72.15 ℄ SURVEY US 81, ON ℄
CONST. 14'X8'X532' LG. RCB
SKEW 25° RT. FWD.
273' LG. LT. & 259' LG. RT. W/ STD. 30°
END SECTS. & 4' CURTAIN WALLS
FL LT=1173.63, FL RT.=1171.00

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X531

PROPOSED
R/W
AUGUST 2017

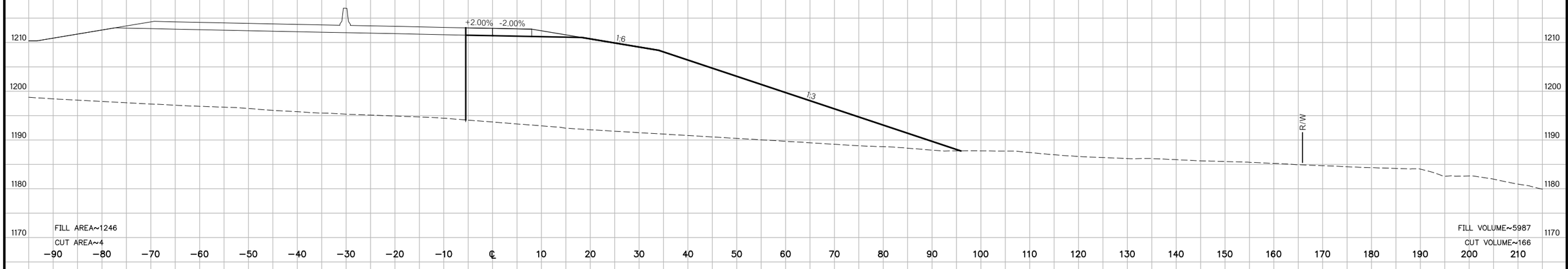


US 81 REALIGNMENT
GRADY COUNTY

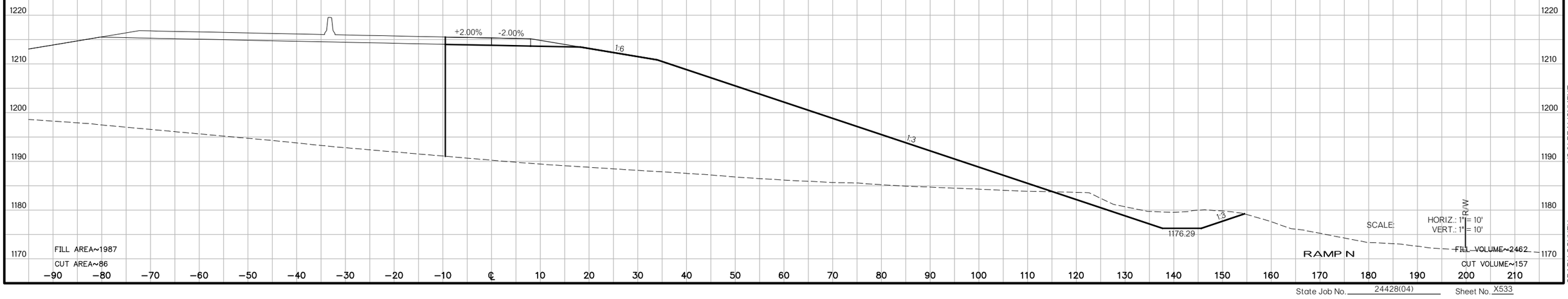
State Job No. 24428(04) Sheet No. X532

PROPOSED
R/W
AUGUST 2017

4214+00
F.G.=1212.89



4213+00
F.G.=1215.33

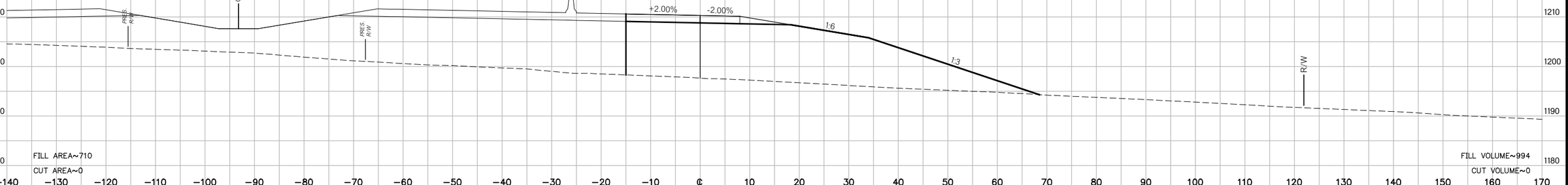


US 81 REALIGNMENT
GRADY COUNTY

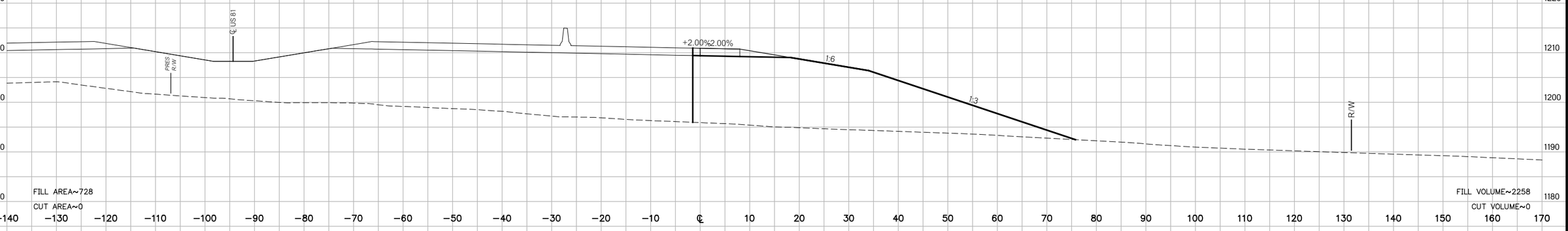
State Job No. 24428(04) Sheet No. X533

PROPOSED
R/W
AUGUST 2017

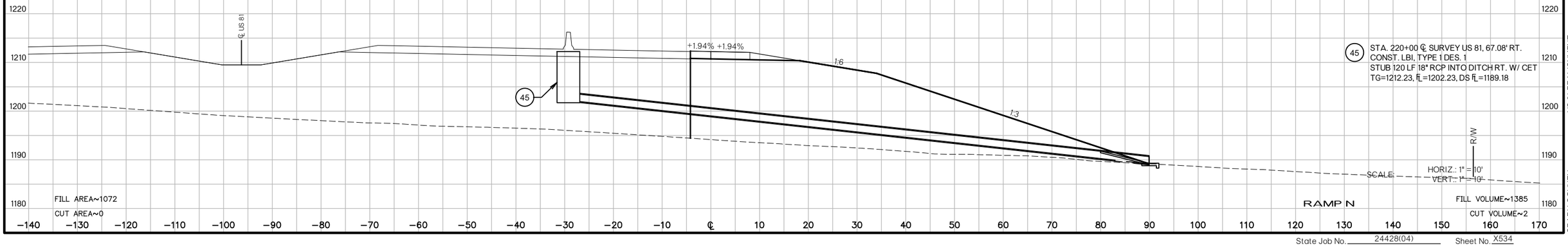
END PROJECT
4215+37.31
F.G.=1210.29



4215+00
F.G.=1210.89



4214+32.26



45 STA. 220+00 ℄ SURVEY US 81, 67.08' RT.
CONST. LBI, TYPE 1 DES. 1
STUB 120 LF 18" RCP INTO DITCH RT. W/ CET
TG=1212.23, FL=1202.23, DS FL=1189.18

SCALE: HORIZ.: 1" = 10'
VERT.: 1" = 10'

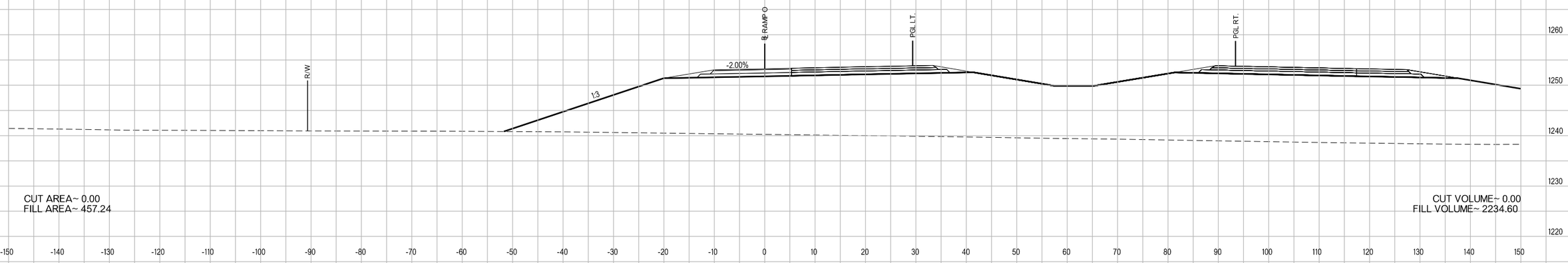
RAMP N

US 81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X534

PROPOSED
R/W
AUGUST 2017

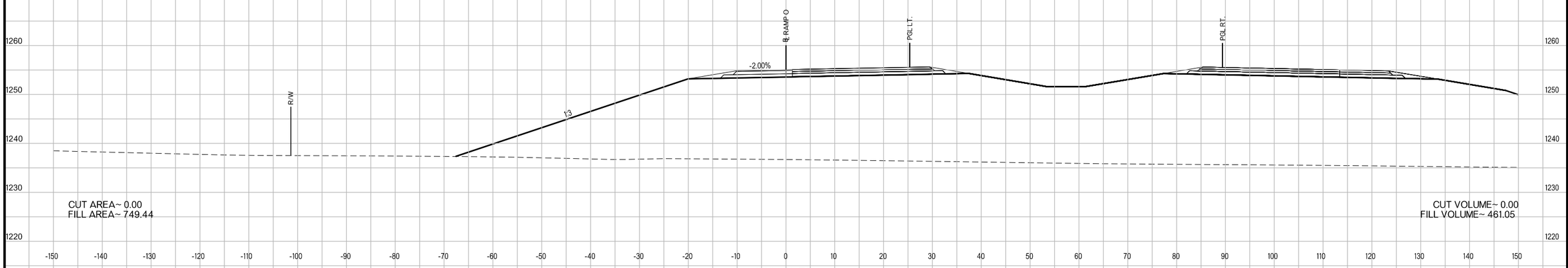
1000+00.00
FG=1253.25



CUT AREA~ 0.00
FILL AREA~ 457.24

CUT VOLUME~ 0.00
FILL VOLUME~ 2234.60

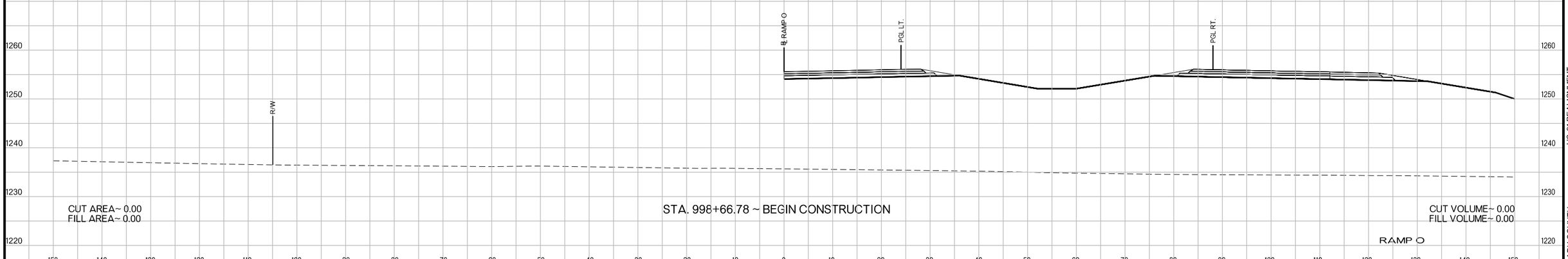
999+00.00
FG=1255.09



CUT AREA~ 0.00
FILL AREA~ 749.44

CUT VOLUME~ 0.00
FILL VOLUME~ 461.05

998+66.78
FG=1255.57



CUT AREA~ 0.00
FILL AREA~ 0.00

STA. 998+66.78 ~ BEGIN CONSTRUCTION

CUT VOLUME~ 0.00
FILL VOLUME~ 0.00

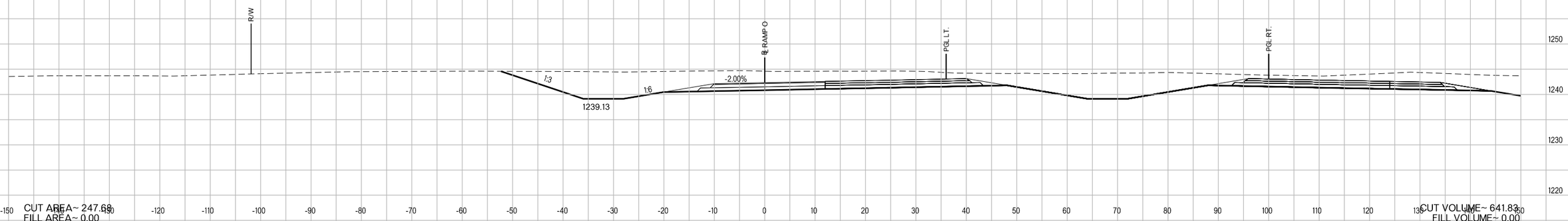
RAMP O

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X535

PROPOSED
R/W
AUGUST 2017

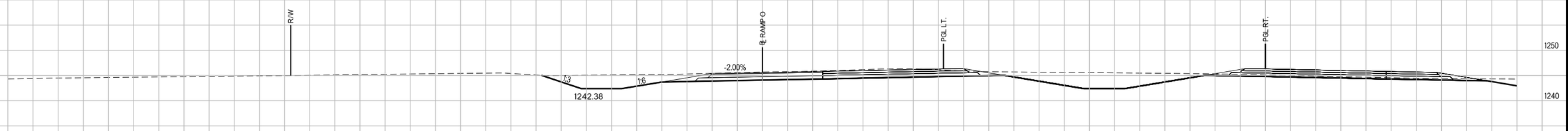
1004+00.00
FG=1242.16



CUT AREA~ 247.68
FILL AREA~ 0.00

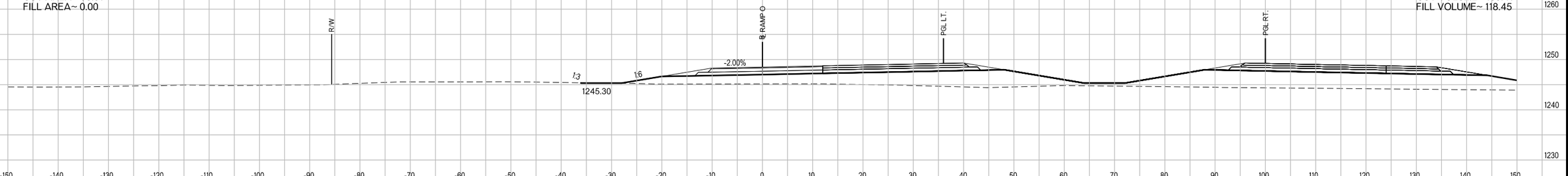
CUT VOLUME~ 641.83
FILL VOLUME~ 0.00

1003+00.00
FG=1245.41



1002+00.00
FG=1248.33

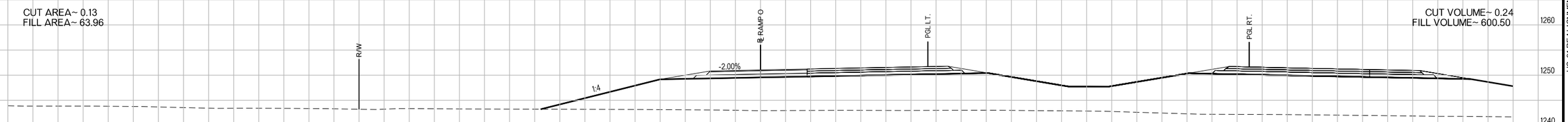
CUT AREA~ 98.91
FILL AREA~ 0.00



CUT VOLUME~ 183.41
FILL VOLUME~ 118.45

1001+00.00
FG=1251.24

CUT AREA~ 0.13
FILL AREA~ 63.96



CUT VOLUME~ 0.24
FILL VOLUME~ 600.50

CUT VOLUME~ 0.00
FILL VOLUME~ 1328.79

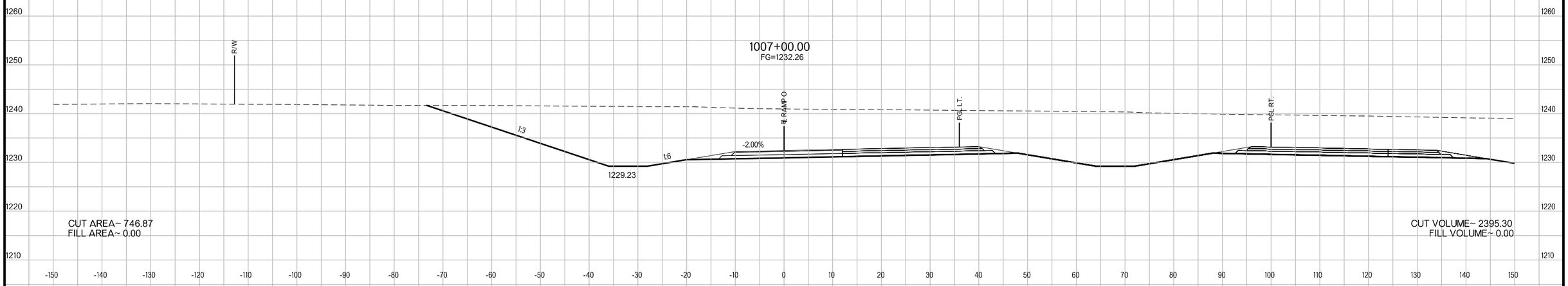
CUT AREA~ 0.00
FILL AREA~ 260.31

RAMP O

US-81 REALIGNMENT
GRADY COUNTY

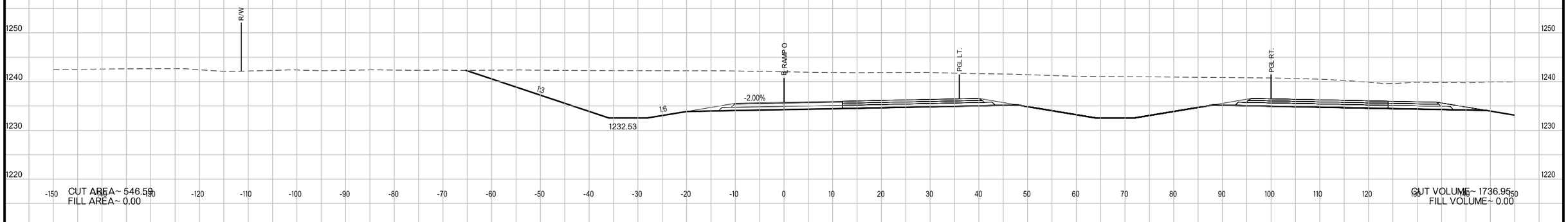
State Job No. 24428(04) Sheet No. X536

PROPOSED
R/W
AUGUST 2017



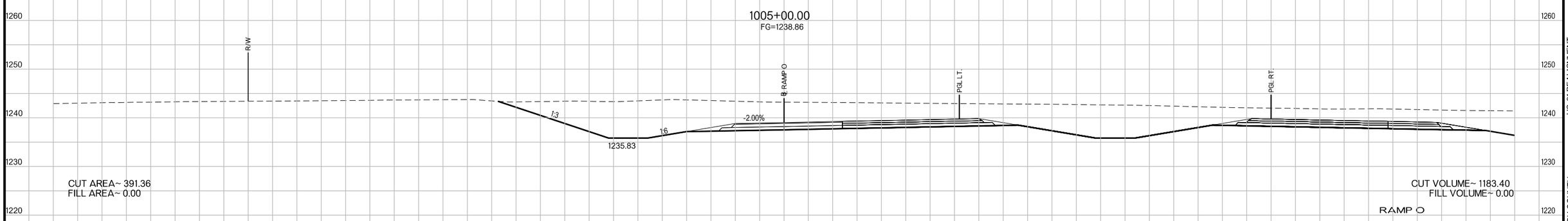
CUT AREA~ 746.87
FILL AREA~ 0.00

CUT VOLUME~ 2395.30
FILL VOLUME~ 0.00



CUT AREA~ 546.59
FILL AREA~ 0.00

CUT VOLUME~ 1736.95
FILL VOLUME~ 0.00



CUT AREA~ 391.36
FILL AREA~ 0.00

CUT VOLUME~ 1183.40
FILL VOLUME~ 0.00

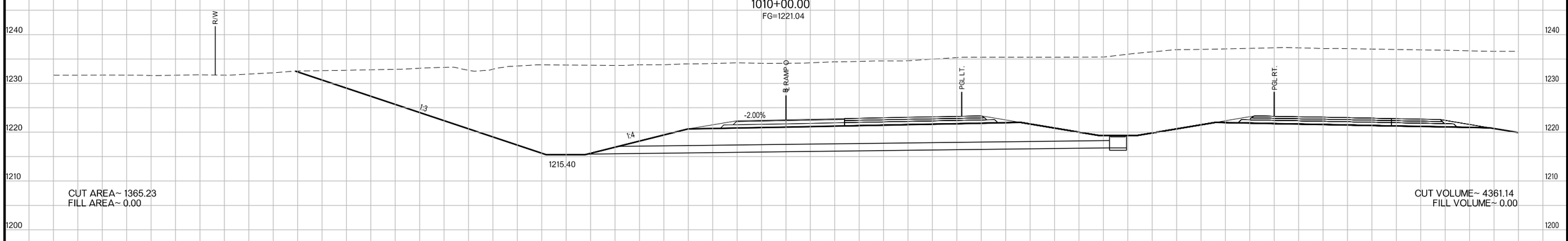
RAMP O

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X537

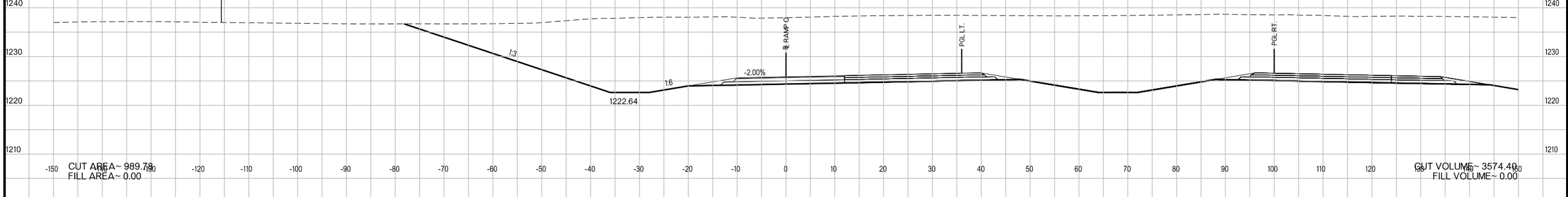
PROPOSED
R/W
AUGUST 2017

(126) STA. 265+00.00 ℄ SURVEY US 81, ON ℄
CONST. SMD-TYPE 2
STUB 119 LF 18" RCP INTO DITCH LT. W/ CET
TG=1219.40, FL=1216.58, DS FL=1215.40



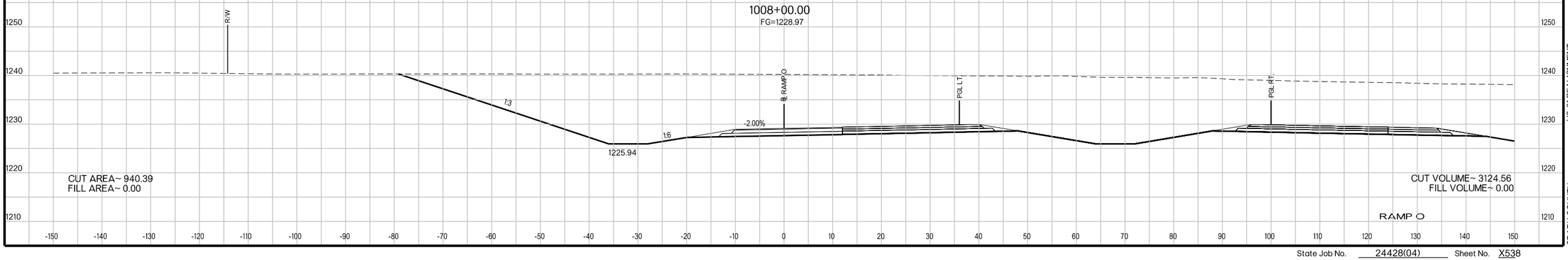
CUT AREA~ 1365.23
FILL AREA~ 0.00

CUT VOLUME~ 4361.14
FILL VOLUME~ 0.00



CUT AREA~ 989.78
FILL AREA~ 0.00

CUT VOLUME~ 3574.40
FILL VOLUME~ 0.00



CUT AREA~ 940.39
FILL AREA~ 0.00

CUT VOLUME~ 3124.56
FILL VOLUME~ 0.00

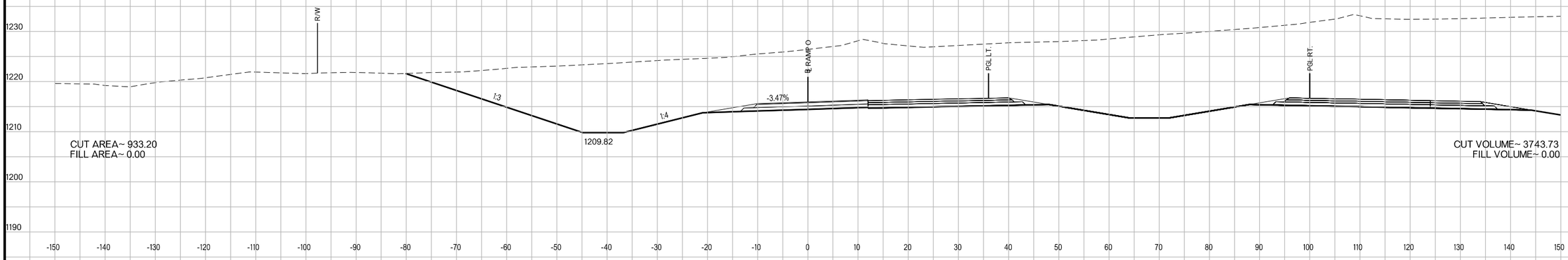
RAMP O

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X538

PROPOSED
R/W
AUGUST 2017

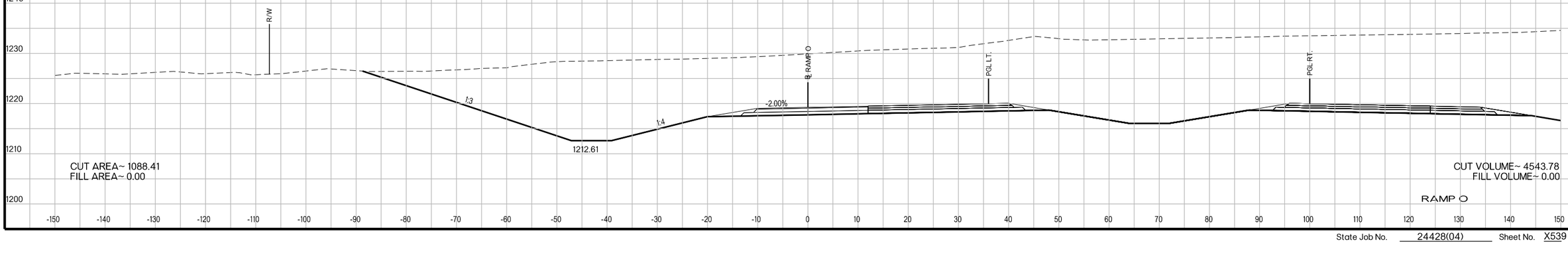
1012+00.00
FG=1214.45



CUT AREA~ 933.20
FILL AREA~ 0.00

CUT VOLUME~ 3743.73
FILL VOLUME~ 0.00

1011+00.00
FG=1217.75



CUT AREA~ 1088.41
FILL AREA~ 0.00

CUT VOLUME~ 4543.78
FILL VOLUME~ 0.00

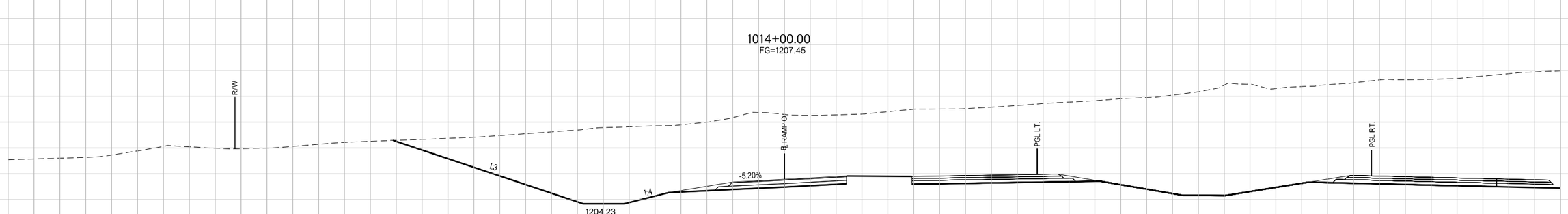
RAMP O

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X539

PROPOSED
R/W
AUGUST 2017

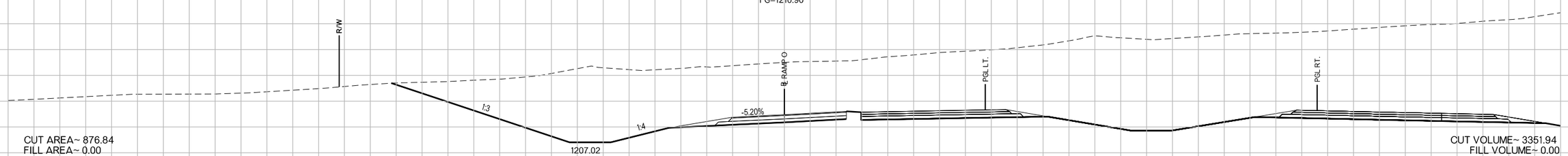
1014+00.00
FG=1207.45



CUT AREA~ 963.80
FILL AREA~ 0.00

CUT VOLUME~ 3408.60
FILL VOLUME~ 0.00

1013+00.00
FG=1210.90



CUT AREA~ 876.84
FILL AREA~ 0.00

CUT VOLUME~ 3351.94
FILL VOLUME~ 0.00

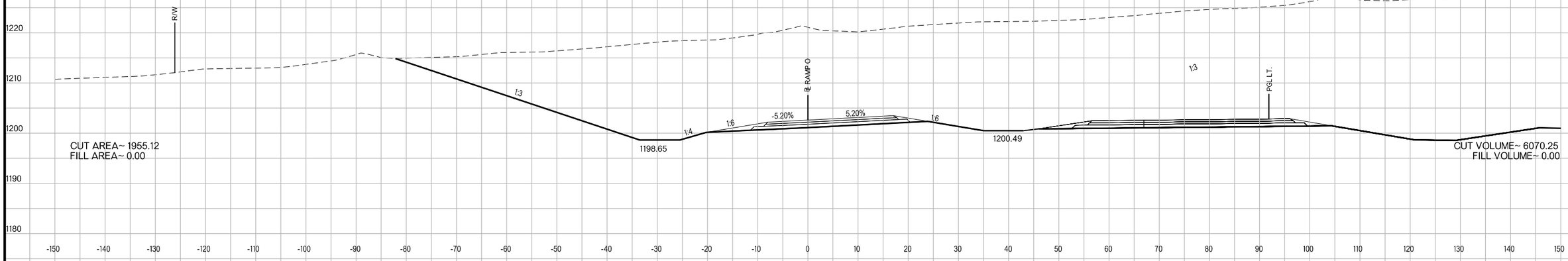
RAMP O

US-81 REALIGNMENT
GRADY COUNTY

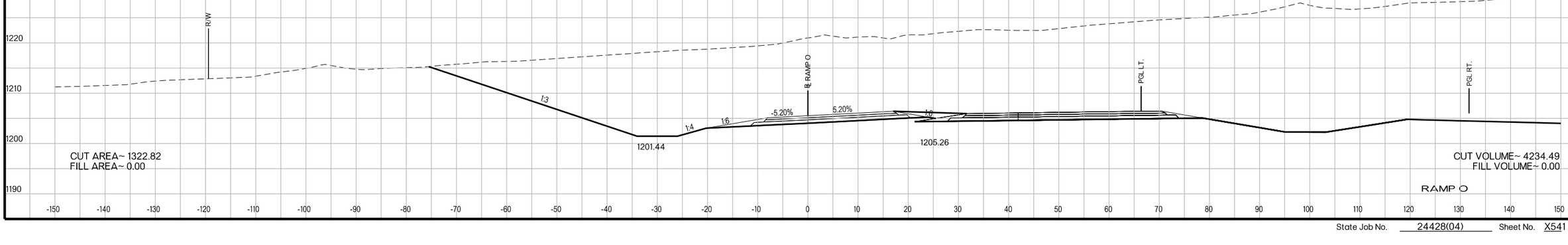
State Job No. 24428(04) Sheet No. X540

PROPOSED
R/W
AUGUST 2017

1016+00.00
FG=1202.61



1015+00.00
FG=1205.52

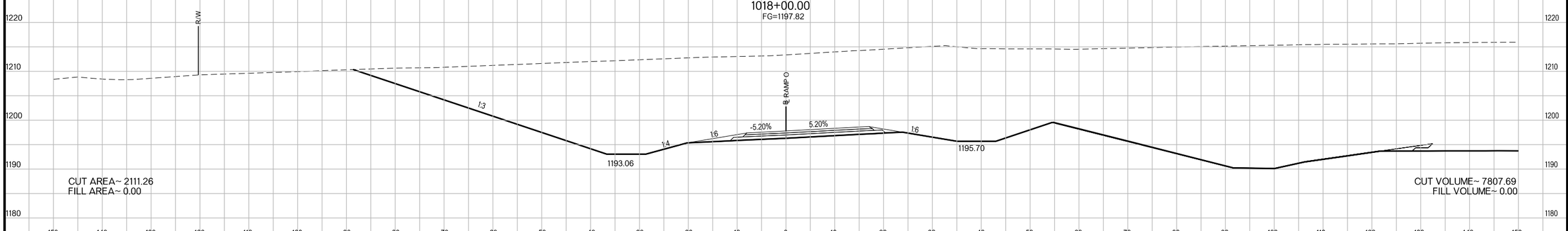


US-81 REALIGNMENT
GRADY COUNTY

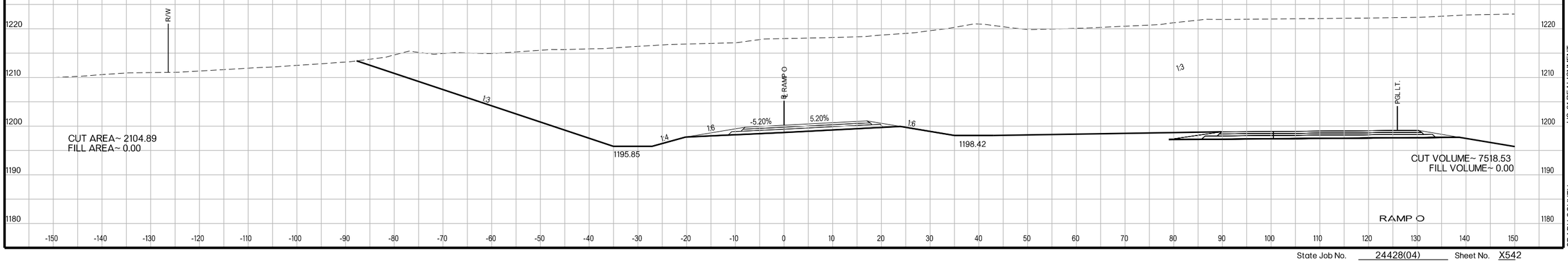
State Job No. 24428(04) Sheet No. X541

PROPOSED
R/W
AUGUST 2017

1018+00.00
FG=1197.82



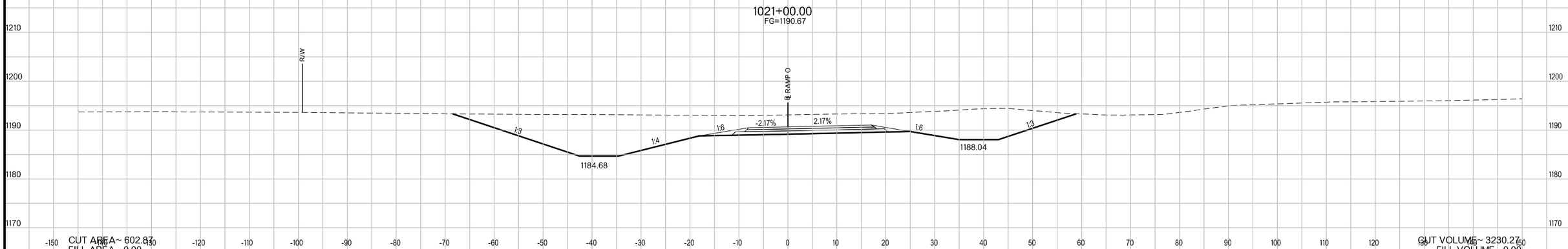
1017+00.00
FG=1200.20



US-81 REALIGNMENT
GRADY COUNTY

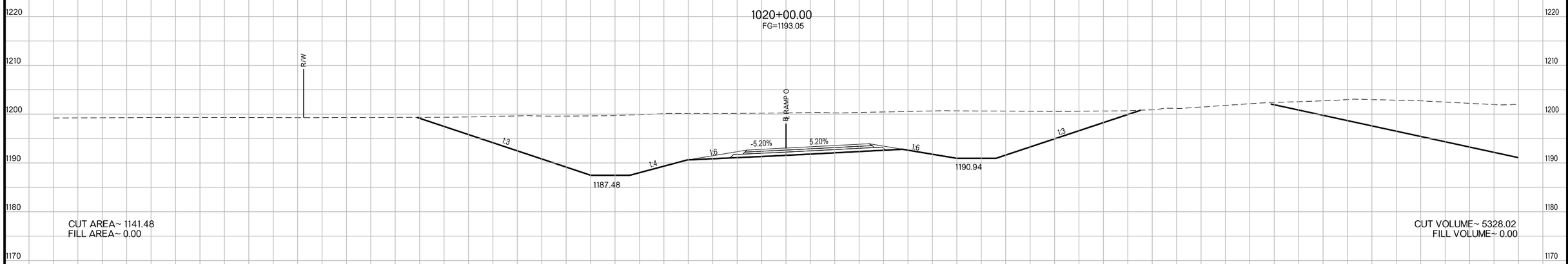
State Job No. 24428(04) Sheet No. X542

PROPOSED
R/W
AUGUST 2017



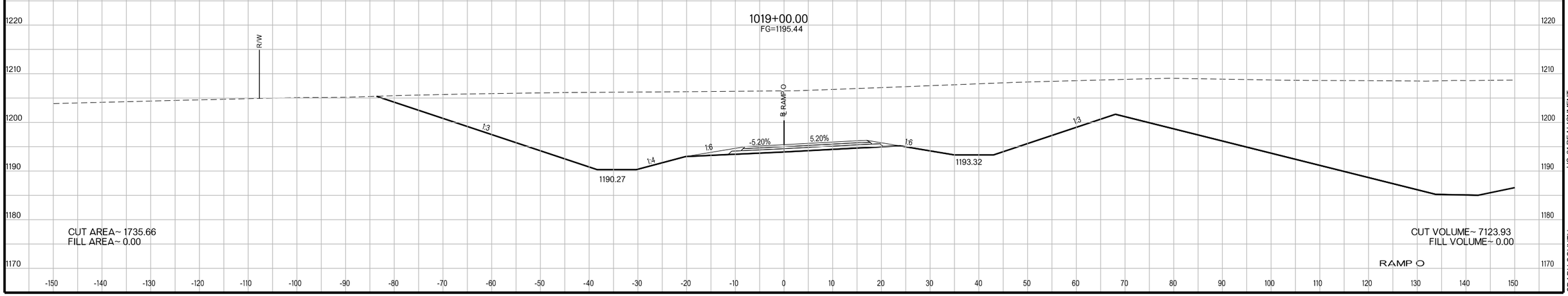
CUT AREA~ 602.87
FILL AREA~ 0.00

CUT VOLUME~ 3230.27
FILL VOLUME~ 0.00



CUT AREA~ 1141.48
FILL AREA~ 0.00

CUT VOLUME~ 5328.02
FILL VOLUME~ 0.00



CUT AREA~ 1735.66
FILL AREA~ 0.00

CUT VOLUME~ 7123.93
FILL VOLUME~ 0.00

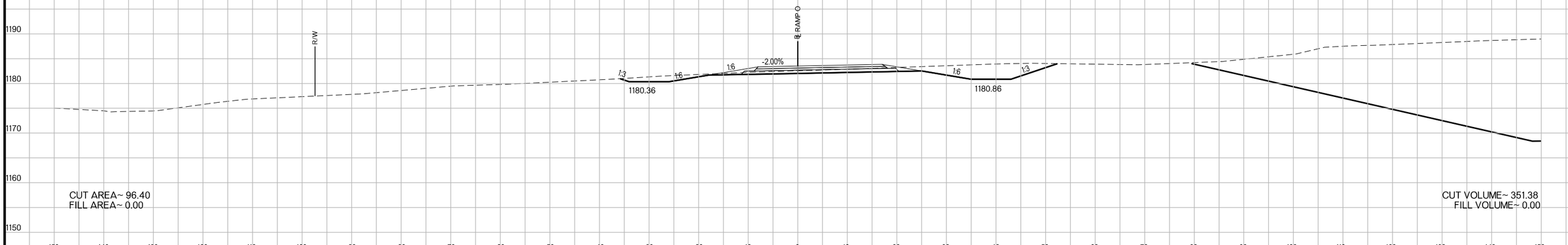
RAMP O

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X543

PROPOSED
R/W
AUGUST 2017

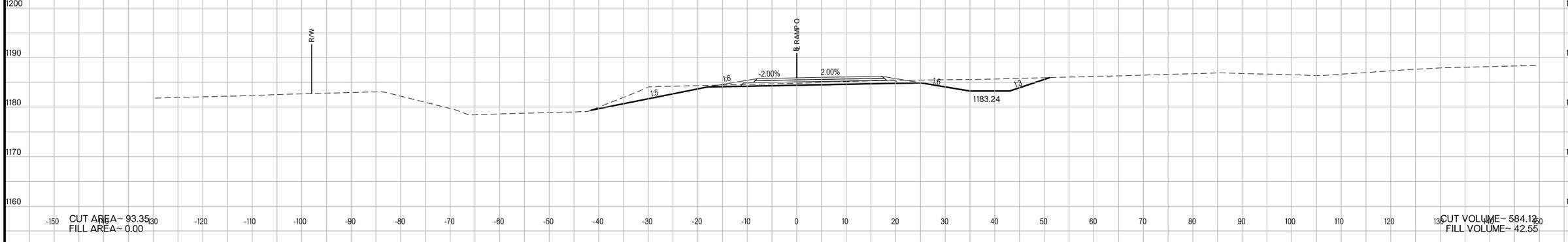
1024+00.00
FG=1183.52



CUT AREA~ 96.40
FILL AREA~ 0.00

CUT VOLUME~ 351.38
FILL VOLUME~ 0.00

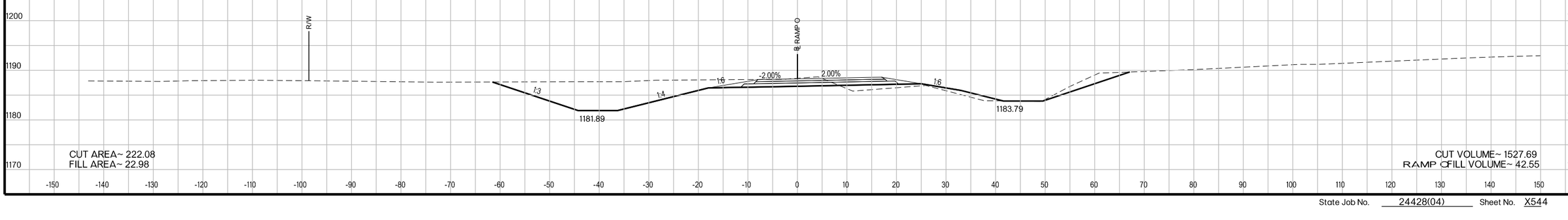
1023+00.00
FG=1184.40



CUT AREA~ 93.35
FILL AREA~ 0.00

CUT VOLUME~ 584.12
FILL VOLUME~ 42.55

1022+00.00
FG=1187.45



CUT AREA~ 222.08
FILL AREA~ 22.98

CUT VOLUME~ 1527.69
RAMP O FILL VOLUME~ 42.55

US-81 REALIGNMENT
GRADY COUNTY

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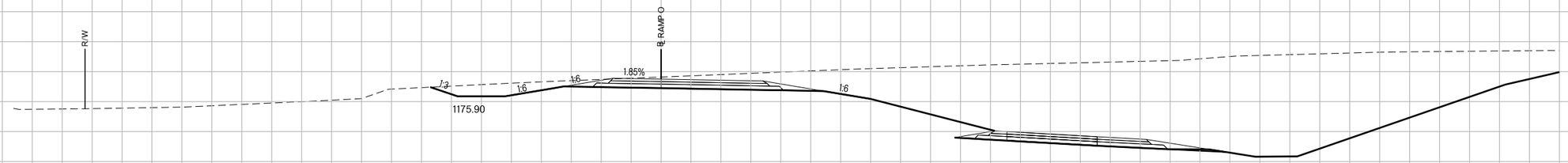
PROPOSED
R/W
AUGUST 2017

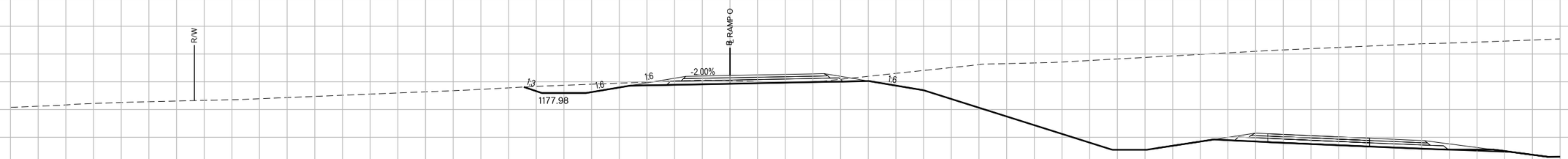
1026+00.00
FG=1178.76



CUT AREA~ 162.21
FILL AREA~ 0.00

CUT VOLUME~ 417.05
FILL VOLUME~ 0.00

1025+00.00
FG=1181.14



CUT AREA~ 63.00
FILL AREA~ 0.00

CUT VOLUME~ 295.19
FILL VOLUME~ 0.00

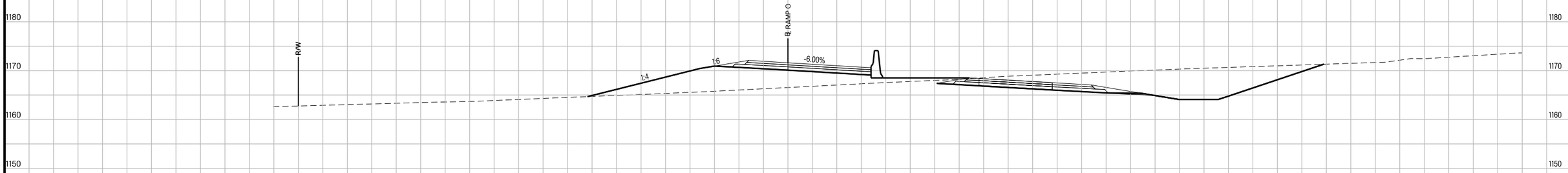
RAMP O

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X545

PROPOSED
R/W
AUGUST 2017

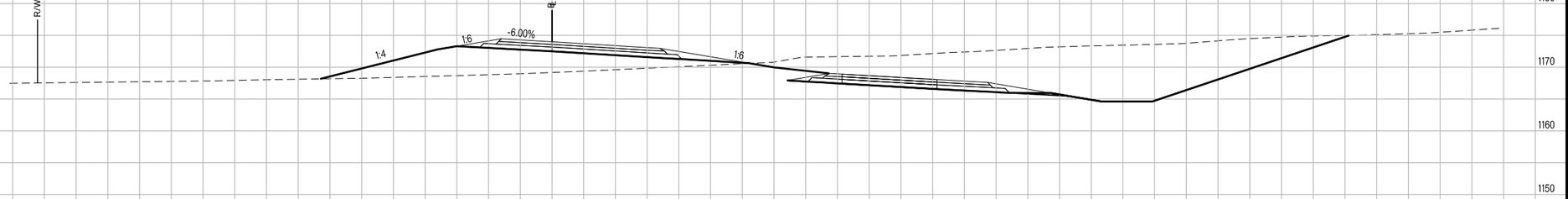
1029+00.00
FG=1170.77



CUT AREA~ 0.00
FILL AREA~ 204.99

CUT VOLUME~ 2.87
FILL VOLUME~ 685.22

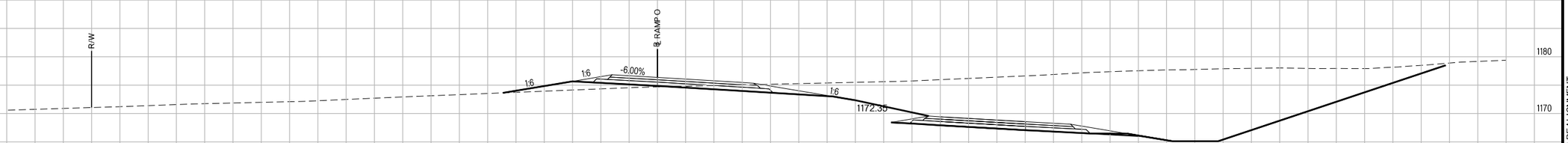
1028+00.00
FG=1173.16



CUT AREA~ 1.55
FILL AREA~ 165.03

CUT VOLUME~ 87.91
FILL VOLUME~ 346.82

1027+00.00
FG=1174.87



CUT AREA~ 45.92
FILL AREA~ 22.25

CUT VOLUME~ 385.42
FILL VOLUME~ 41.21

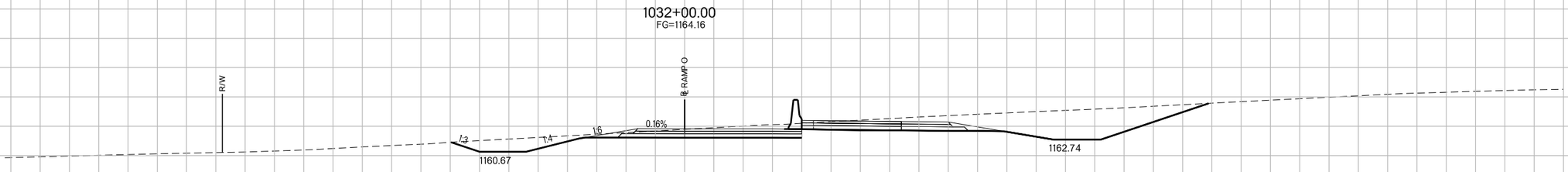
RAMP O

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X546

PROPOSED
R/W
AUGUST 2017

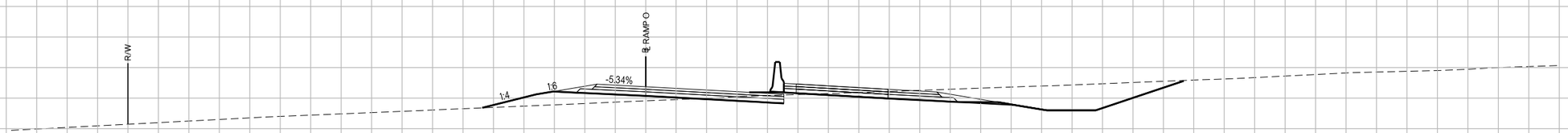
1032+00.00
FG=1164.16



CUT AREA~ 89.29
FILL AREA~ 0.00

CUT VOLUME~ 184.11
FILL VOLUME~ 73.51

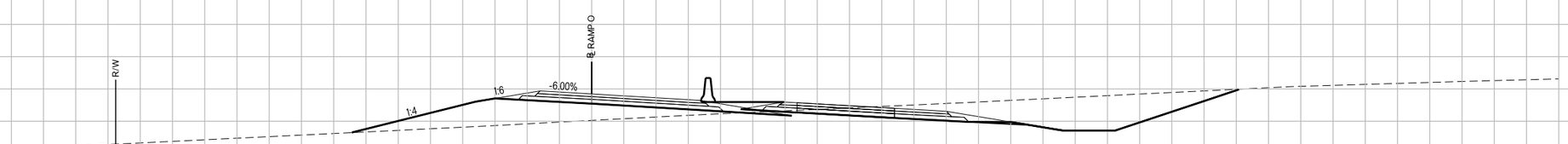
1031+00.00
FG=1165.34



CUT AREA~ 10.13
FILL AREA~ 39.70

CUT VOLUME~ 24.32
FILL VOLUME~ 315.03

1030+00.00
FG=1168.39



CUT AREA~ 3.00
FILL AREA~ 130.42

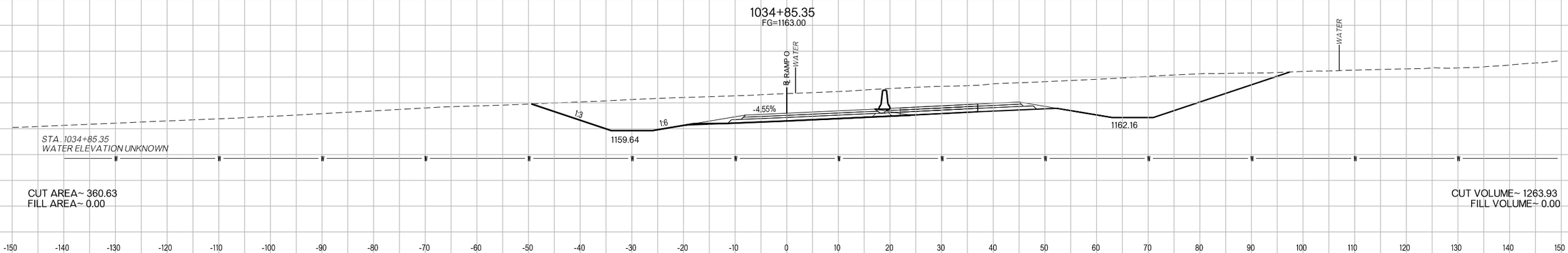
CUT VOLUME~ 5.56
FILL VOLUME~ 621.13

RAMP O

US-81 REALIGNMENT
GRADY COUNTY

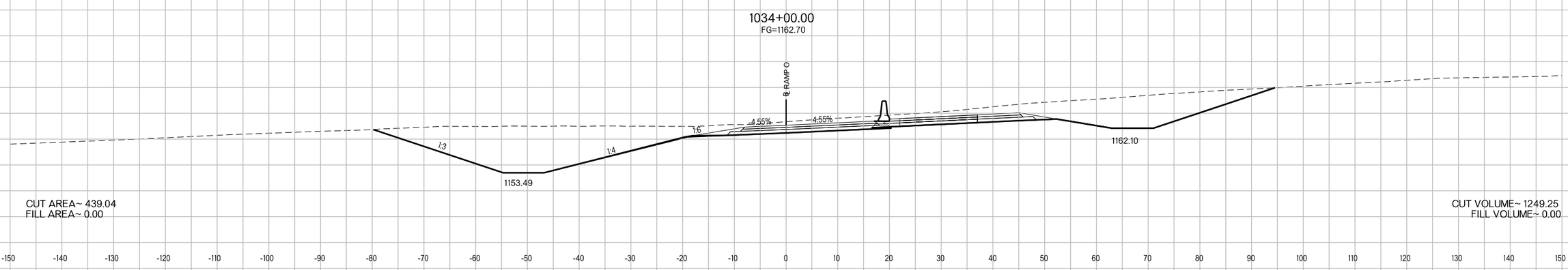
State Job No. 24428(04) Sheet No. X547

PROPOSED
R/W
AUGUST 2017



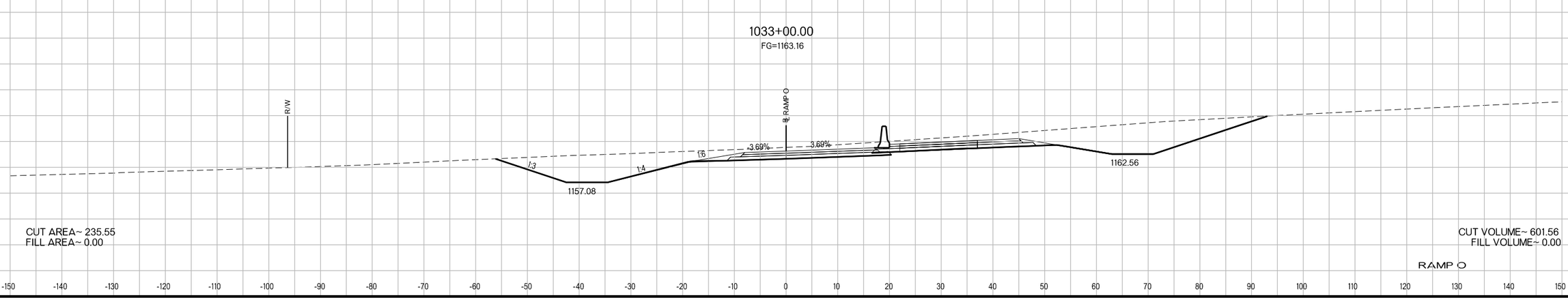
CUT AREA~ 360.63
FILL AREA~ 0.00

CUT VOLUME~ 1263.93
FILL VOLUME~ 0.00



CUT AREA~ 439.04
FILL AREA~ 0.00

CUT VOLUME~ 1249.25
FILL VOLUME~ 0.00



CUT AREA~ 235.55
FILL AREA~ 0.00

CUT VOLUME~ 601.56
FILL VOLUME~ 0.00

RAMP O

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X548

PROPOSED
R/W
AUGUST 2017

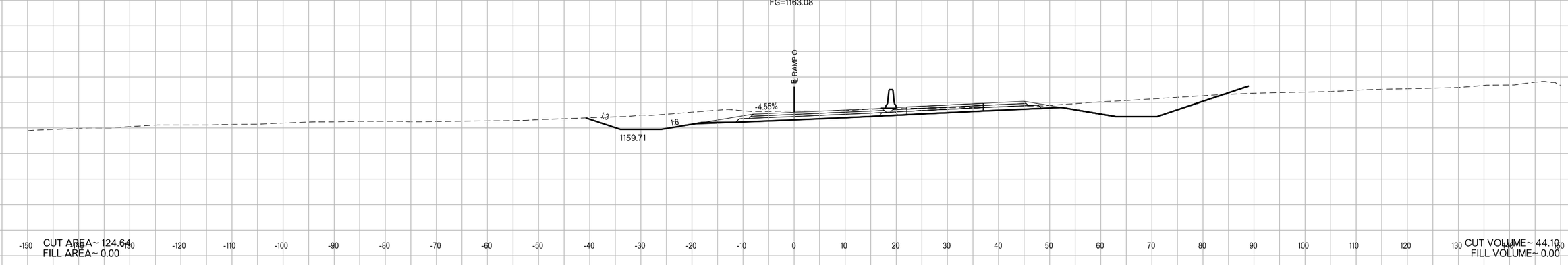
1035+21.04

STA. 1035+20.98 ~ END CONSTRUCTION

CUT AREA~ 0.00
FILL AREA~ 0.00

CUT VOLUME~ 48.57
FILL VOLUME~ 0.00

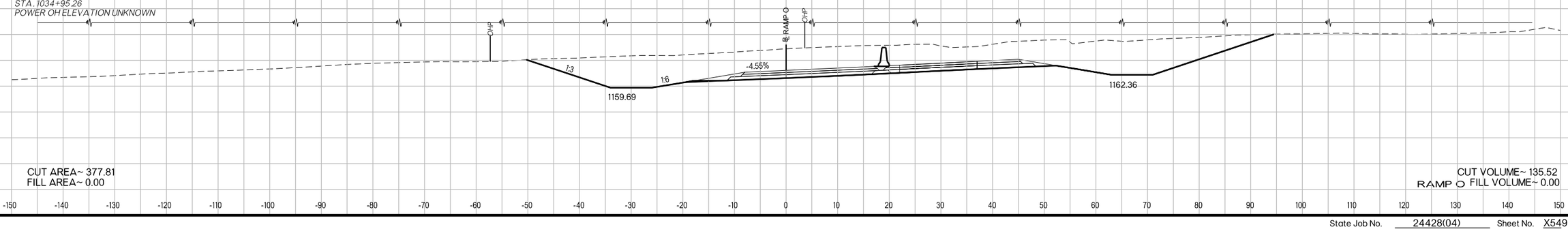
1035+00.00
FG=1163.08



CUT AREA~ 124.64
FILL AREA~ 0.00

CUT VOLUME~ 44.10
FILL VOLUME~ 0.00

1034+95.26
FG=1163.05



CUT AREA~ 377.81
FILL AREA~ 0.00

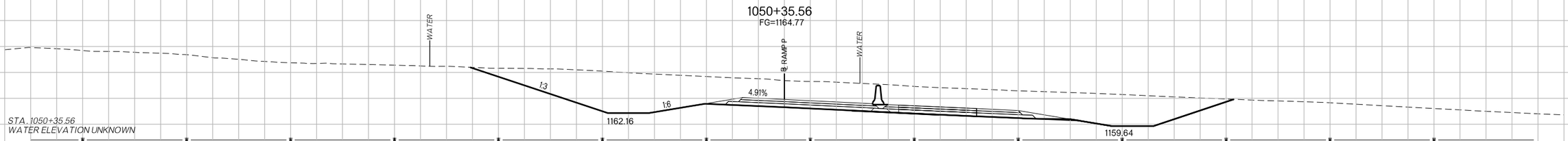
CUT VOLUME~ 135.52
RAMP O FILL VOLUME~ 0.00

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X549

PROPOSED
R/W
AUGUST 2017

1050+35.56
FG=1164.77

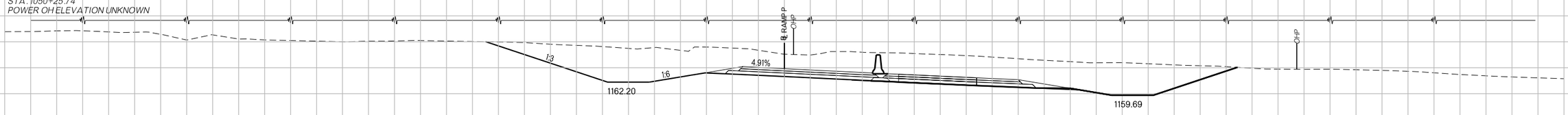


STA. 1050+35.56
WATER ELEVATION UNKNOWN

CUT AREA~ 476.02
FILL AREA~ 0.00

CUT VOLUME~ 86.57
FILL VOLUME~ 0.00

1050+25.74
FG=1164.81



STA. 1050+25.74
POWER OH ELEVATION UNKNOWN

CUT AREA~ 0.00
FILL AREA~ 0.00

CUT VOLUME~ 0.00
FILL VOLUME~ 0.00

STA. 1050+12.00 ~ BEGIN CONSTRUCTION

1050+00.00

CUT AREA~ 0.00
FILL AREA~ 0.00

RAMP P

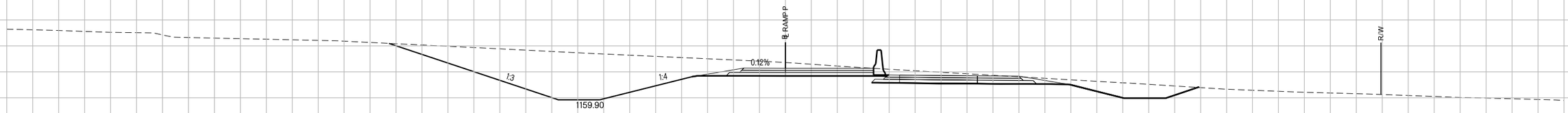
CUT VOLUME~ 0.00
FILL VOLUME~ 0.00

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X550

PROPOSED
R/W
AUGUST 2017

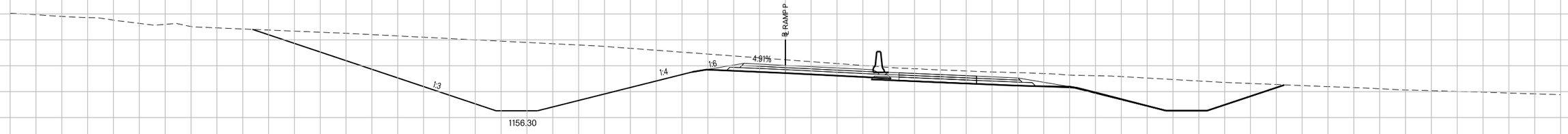
1053+00.00
FG=1165.70



CUT AREA~ 228.50
FILL AREA~ 0.00

CUT VOLUME~ 891.95
FILL VOLUME~ 0.00

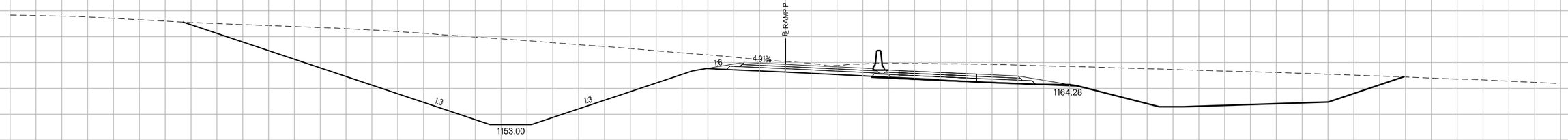
1052+00.00
FG=1165.07



CUT AREA~ 253.15
FILL AREA~ 0.00

CUT VOLUME~ 468.80
FILL VOLUME~ 0.00

1051+00.00
FG=1164.65



CUT AREA~ 0.00
FILL AREA~ 0.00

CUT VOLUME~ 568.05
FILL VOLUME~ 0.00

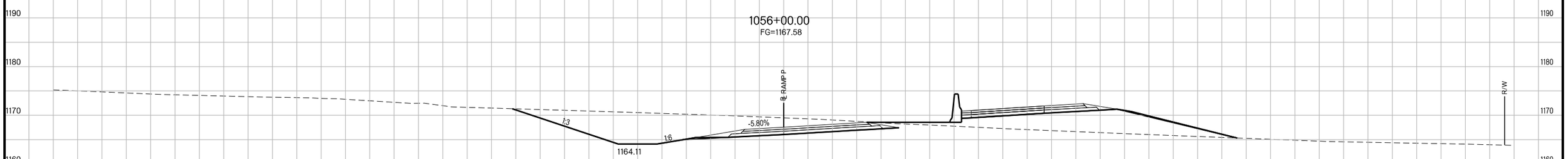
RAMP P

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X551

PROPOSED
R/W
AUGUST 2017

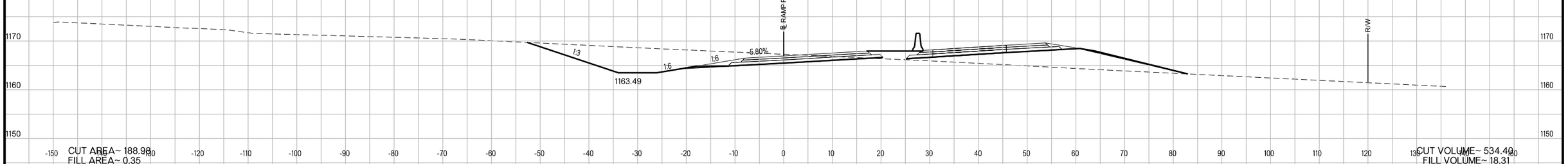
1056+00.00
FG=1167.58



CUT AREA~ 294.67
FILL AREA~ 0.00

CUT VOLUME~ 895.63
FILL VOLUME~ 0.65

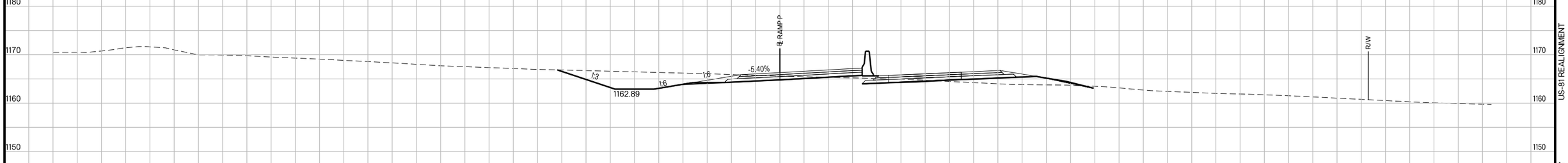
1055+00.00
FG=1166.95



CUT AREA~ 188.98
FILL AREA~ 0.35

CUT VOLUME~ 534.40
FILL VOLUME~ 18.31

1054+00.00
FG=1165.49



CUT AREA~ 99.60
FILL AREA~ 9.53

RAMP P

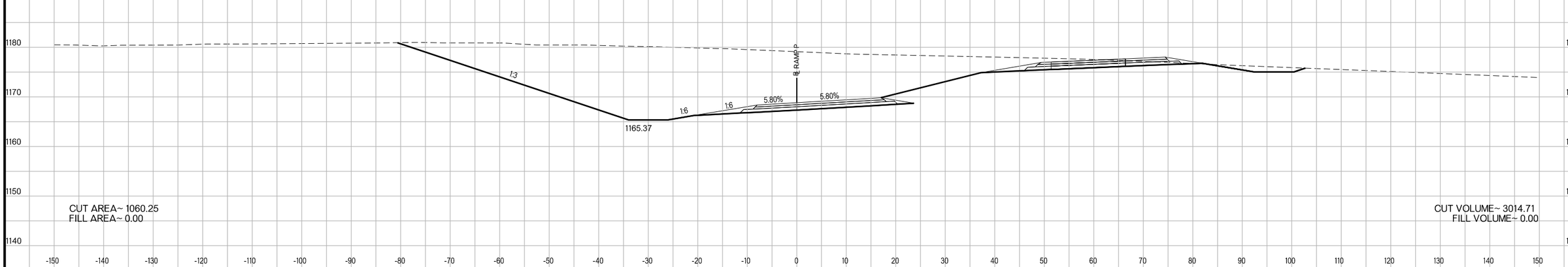
CUT VOLUME~ 607.60
FILL VOLUME~ 17.65

US-81 REALIGNMENT
GRADY COUNTY

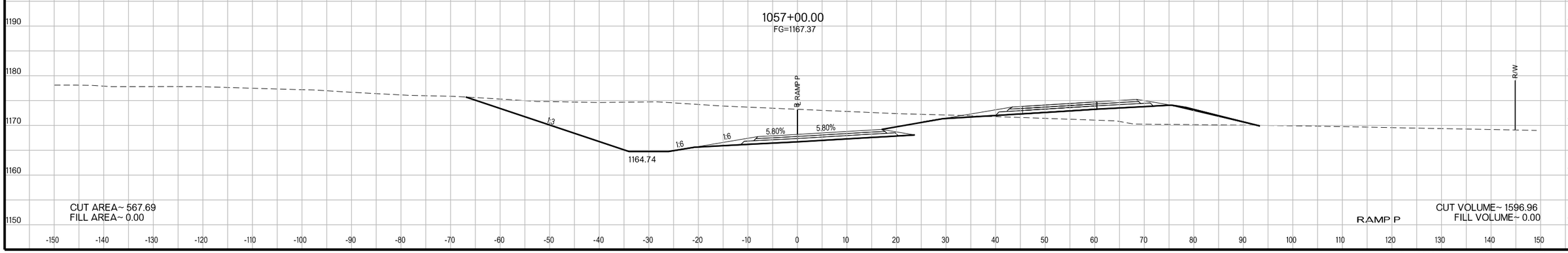
State Job No. 24428(04) Sheet No. X552

PROPOSED
R/W
AUGUST 2017

1058+00.00
FG=1168.00



1057+00.00
FG=1167.37



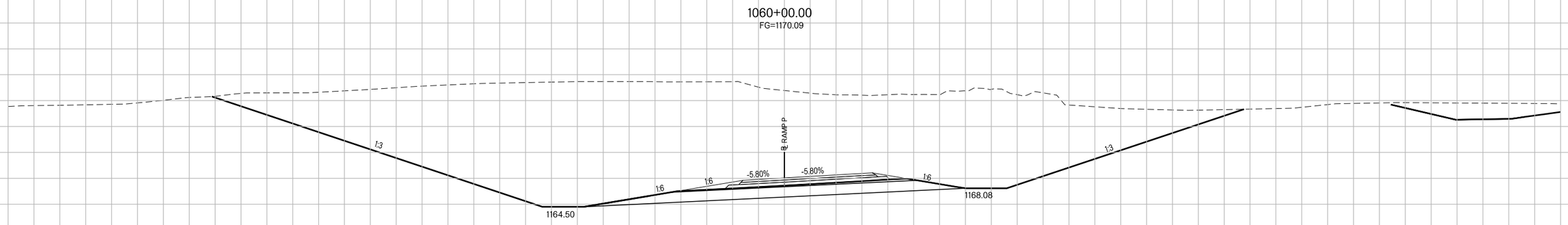
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X553

PROPOSED
R/W
AUGUST 2017

(128) STA. 1060+00.00 R RAMP P
CONST. 24" X 74' LG. RDY RCP
39' LT & 35' RT W/ CETS
FL LT. =1164.50, FL RT. = 1168.08

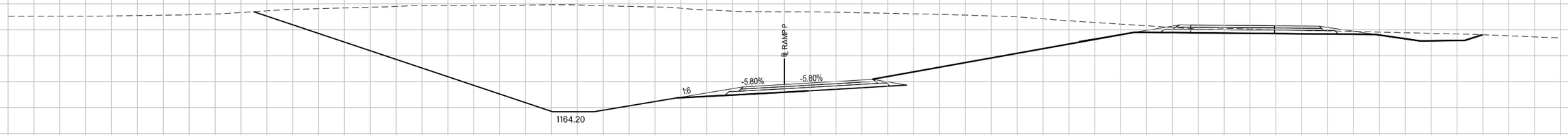
1060+00.00
FG=1170.09



CUT AREA~ 2934.31
FILL AREA~ 0.00

CUT VOLUME~ 7890.76
FILL VOLUME~ 0.00

1059+00.00
FG=1168.63



CUT AREA~ 1326.70
FILL AREA~ 0.00

CUT VOLUME~ 4420.27
FILL VOLUME~ 0.00

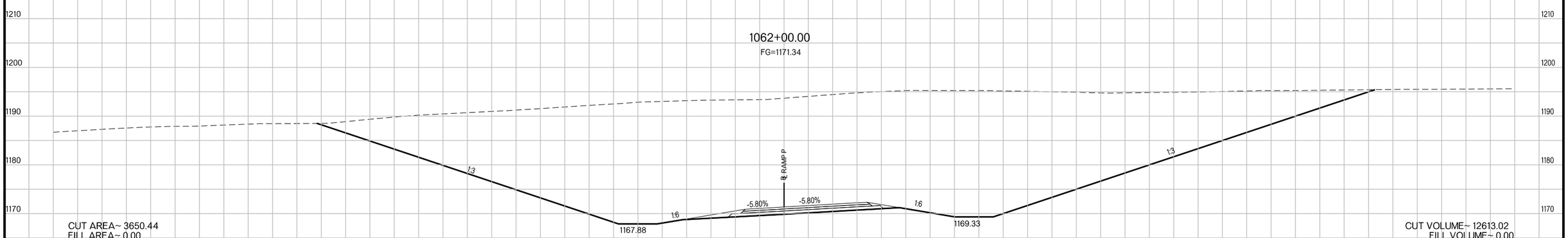
RAMP P

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X554

PROPOSED
R/W
AUGUST 2017

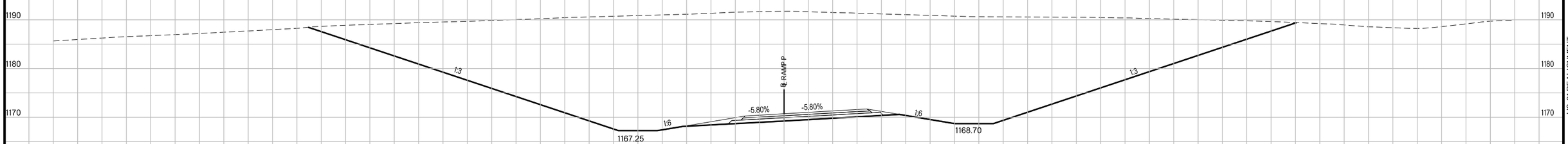
1062+00.00
FG=1171.34



CUT AREA~ 3650.44
FILL AREA~ 0.00

CUT VOLUME~ 12613.02
FILL VOLUME~ 0.00

1061+00.00
FG=1170.72



CUT AREA~ 3160.59
FILL AREA~ 0.00

CUT VOLUME~ 11286.85
FILL VOLUME~ 0.00

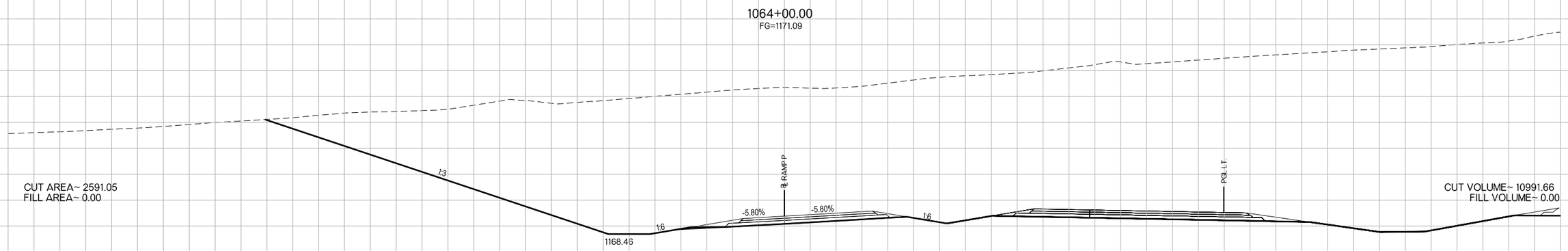
RAMP P

US-81 REALIGNMENT
GRADY COUNTY

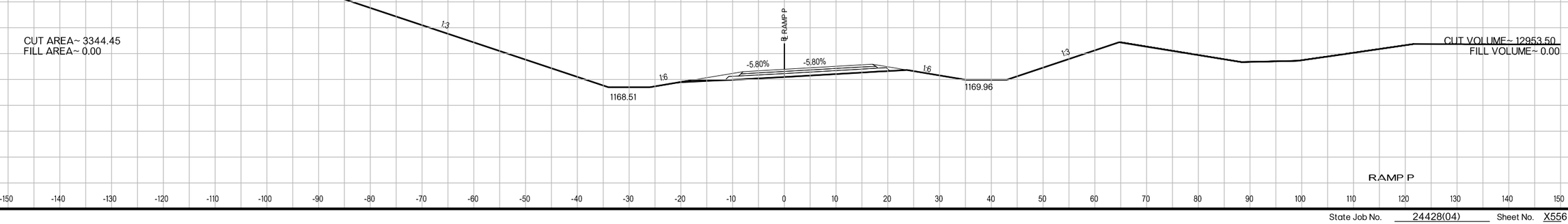
State Job No. 24428(04) Sheet No. X555

PROPOSED
R/W
AUGUST 2017

1064+00.00
FG=1171.09



1063+00.00
FG=1171.97



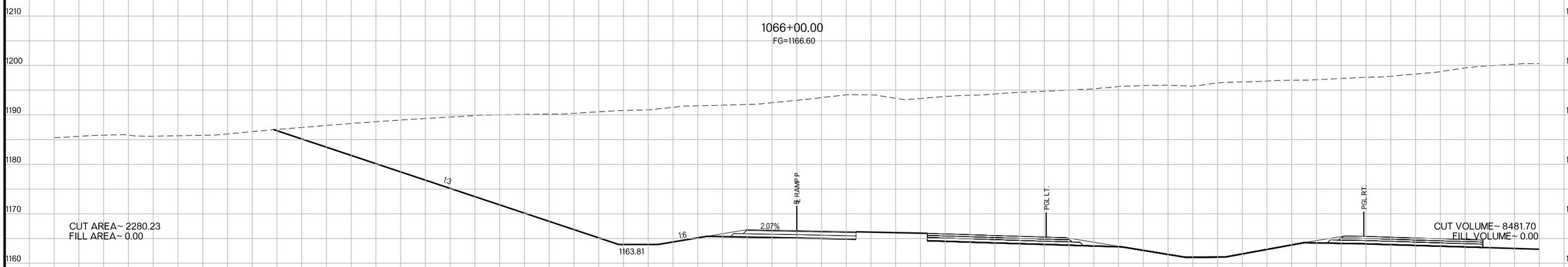
RAMP P

US-81 REALIGNMENT
GRADY COUNTY

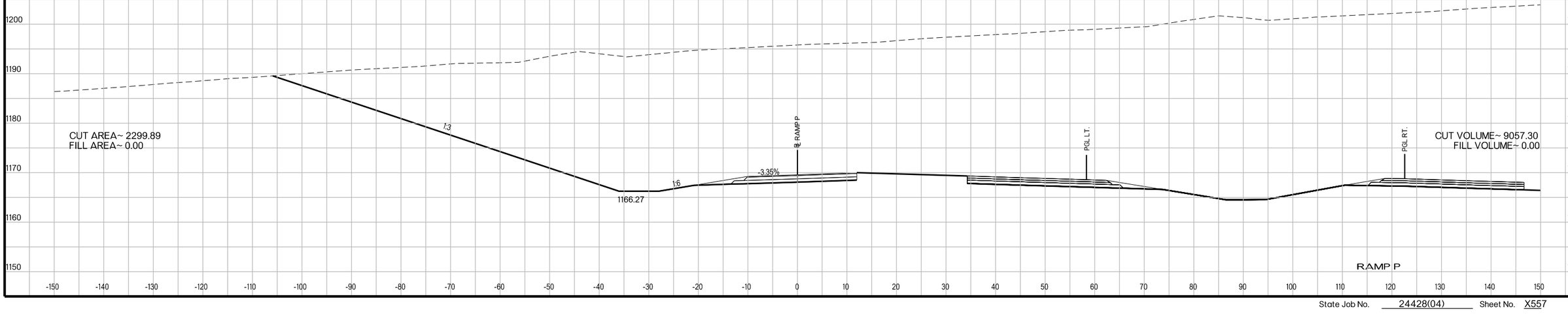
State Job No. 24428(04) Sheet No. X556

PROPOSED
R/W
AUGUST 2017

1066+00.00
FG=1166.60



1065+00.00
FG=1169.60

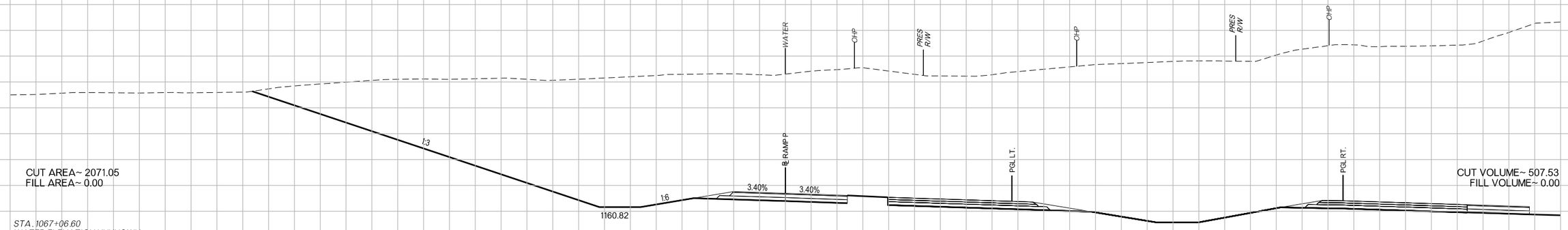


US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X557

PROPOSED
R/W
AUGUST 2017

1067+06.60
FG=1163.48

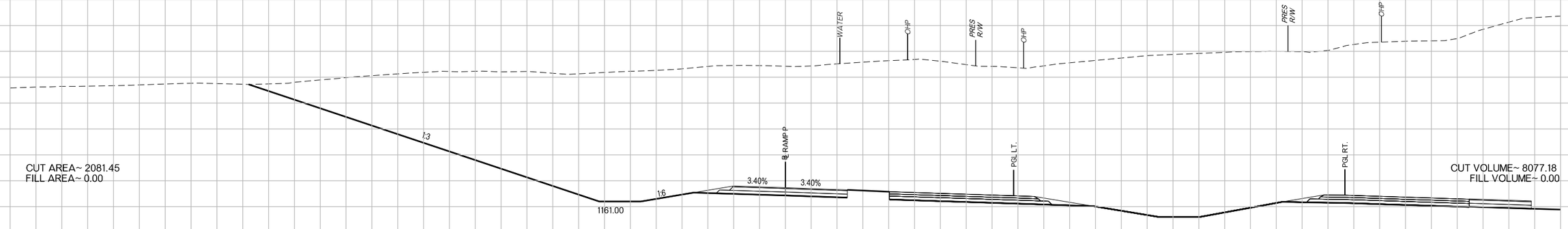


CUT AREA~ 2071.05
FILL AREA~ 0.00

CUT VOLUME~ 507.53
FILL VOLUME~ 0.00

STA. 1067+06.60
WATER ELEVATION UNKNOWN

1067+00.00
FG=1163.66



CUT AREA~ 2081.45
FILL AREA~ 0.00

CUT VOLUME~ 8077.18
FILL VOLUME~ 0.00

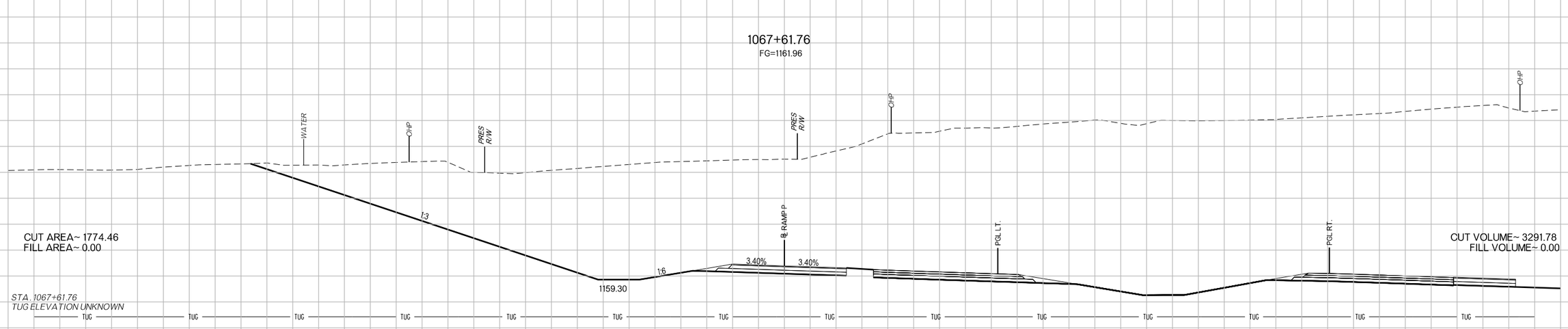
RAMP P

US-81 REALIGNMENT
GRADY COUNTY

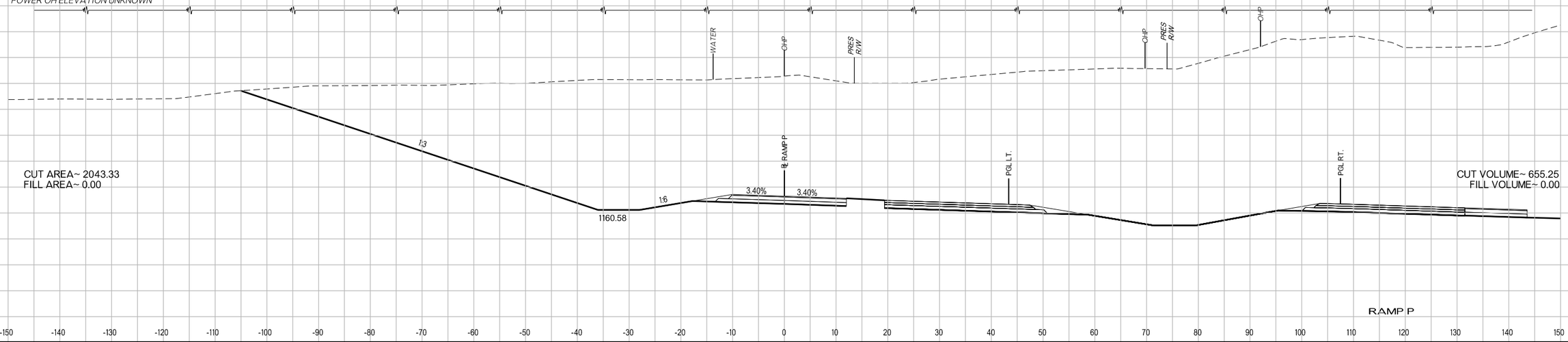
State Job No. 24428(04) Sheet No. X558

PROPOSED
R/W
AUGUST 2017

1067+61.76
FG=1161.96



1067+15.20
FG=1163.24

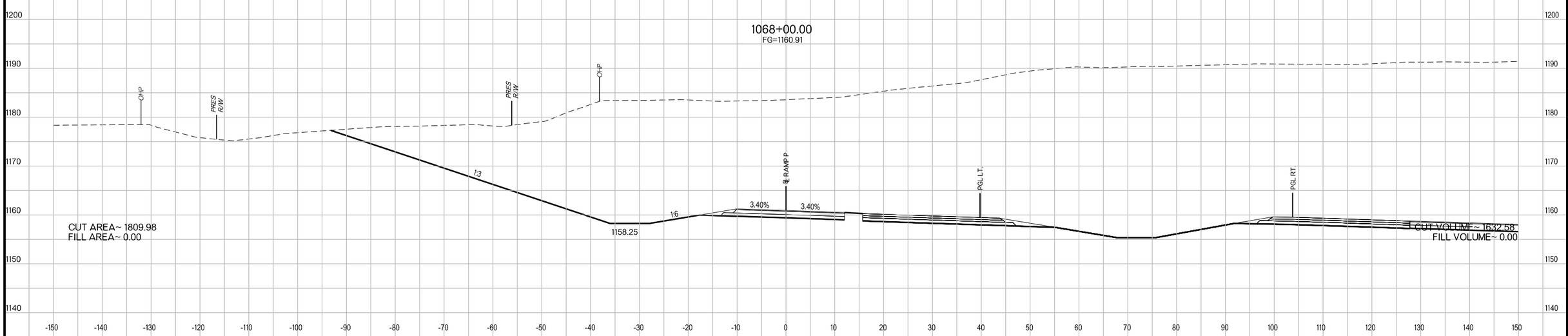


US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X559

PROPOSED
R/W
AUGUST 2017

1068+00.00
FG=1160.91

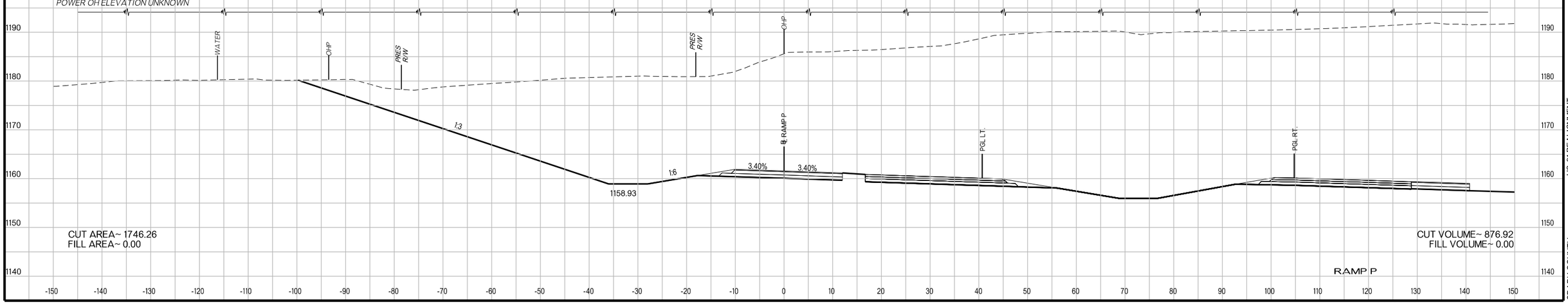


CUT AREA~ 1809.98
FILL AREA~ 0.00

CUT VOLUME~ 1632.58
FILL VOLUME~ 0.00

1067+75.21
FG=1161.59

STA. 1067+75.21
POWER OH ELEVATION UNKNOWN



CUT AREA~ 1746.26
FILL AREA~ 0.00

CUT VOLUME~ 876.92
FILL VOLUME~ 0.00

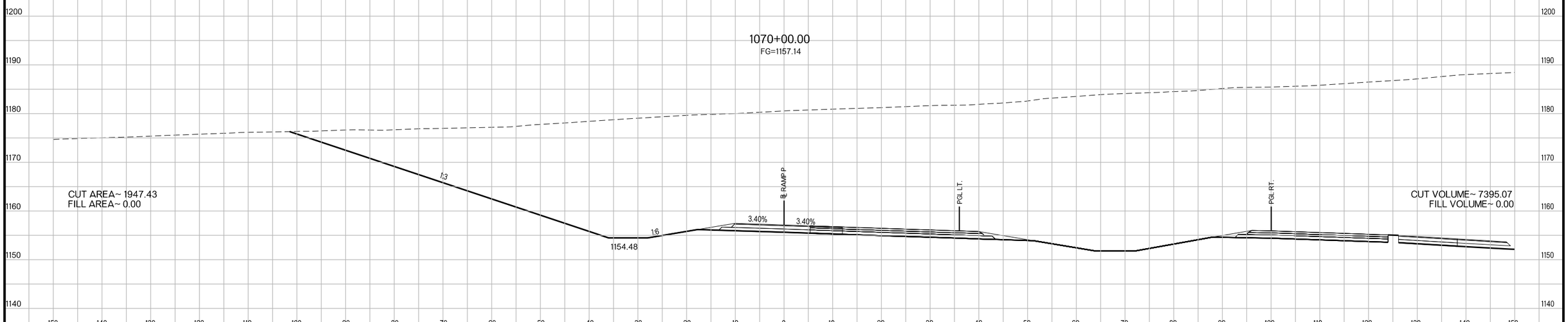
RAMP P

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X560

PROPOSED
R/W
AUGUST 2017

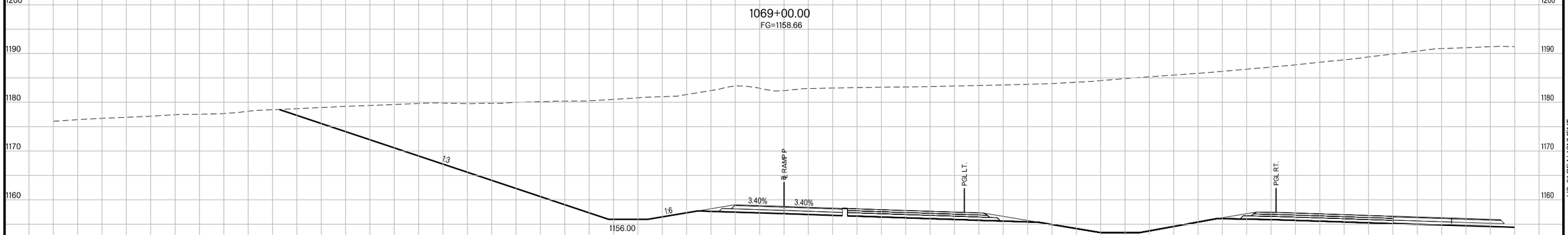
1070+00.00
FG=1157.14



CUT AREA~ 1947.43
FILL AREA~ 0.00

CUT VOLUME~ 7395.07
FILL VOLUME~ 0.00

1069+00.00
FG=1158.66



CUT AREA~ 2045.91
FILL AREA~ 0.00

CUT VOLUME~ 7140.55
FILL VOLUME~ 0.00

RAMP P

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X561

PROPOSED
R/W
AUGUST 2017

STA. 1070+06.58 ~ END CONSTRUCTION

1070+06.58

PGL LT.

PGL RT.

CUT AREA~ 0.00
FILL AREA~ 0.00

CUT VOLUME~ 237.44
FILL VOLUME~ 0.00

RAMP P

1200
1190
1180
1170
1160
1150
1140

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X562

PROPOSED
R/W
AUGUST 2017

1091+00.00
FG=1197.62

CUT AREA~ 2873.76
FILL AREA~ 0.00

PGL LT.

PGL RT.

℄ RAMP Q

-2.00%

1:6

1194.38

CUT VOLUME~ 3025.46
FILL VOLUME~ 0.00

1090+52.93
FG=1199.17

CUT AREA~ 597.14
FILL AREA~ 0.00

PGL LT.

PGL RT.

℄ RAMP Q

-2.00%

CUT VOLUME~ 0.00
FILL VOLUME~ 0.00

STA. 1090+52.93 ~ BEGIN CONSTRUCTION

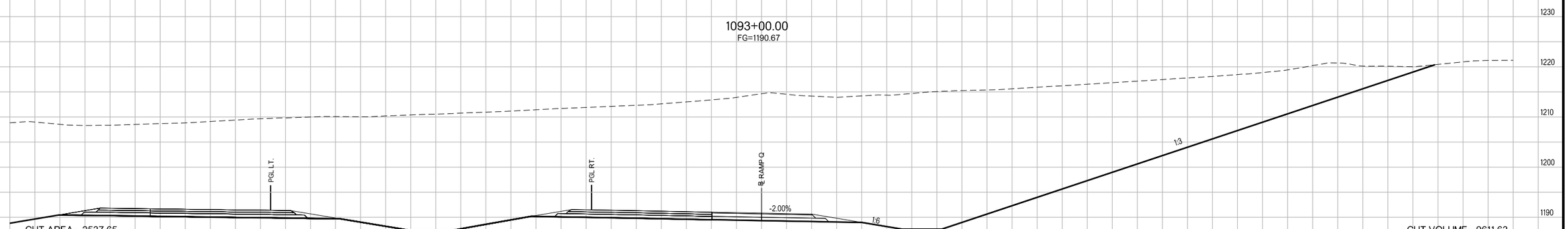
RAMP Q

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X563

PROPOSED
R/W
AUGUST 2017

1093+00.00
FG=1190.67

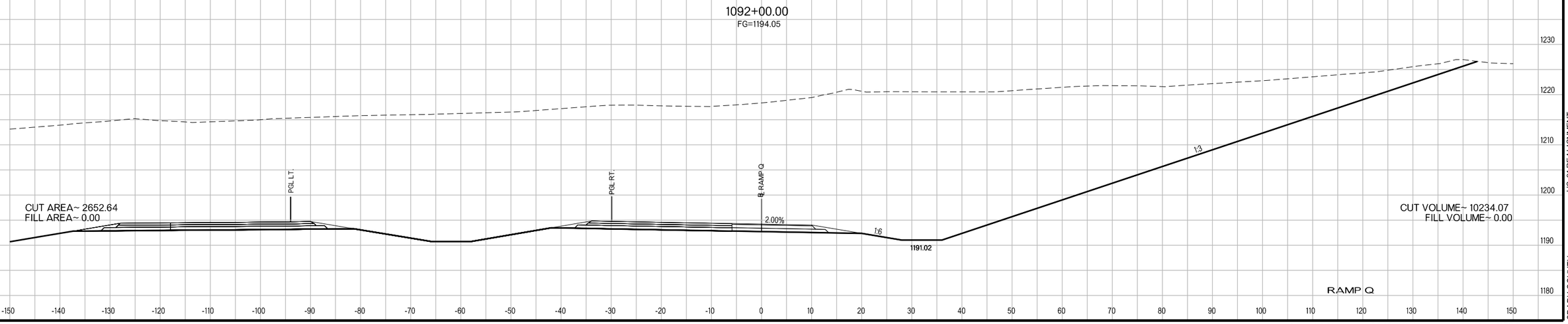


CUT AREA~ 2537.65
FILL AREA~ 0.00

CUT VOLUME~ 9611.63
FILL VOLUME~ 0.00

FG=1220.44

1092+00.00
FG=1194.05



CUT AREA~ 2652.64
FILL AREA~ 0.00

CUT VOLUME~ 10234.07
FILL VOLUME~ 0.00

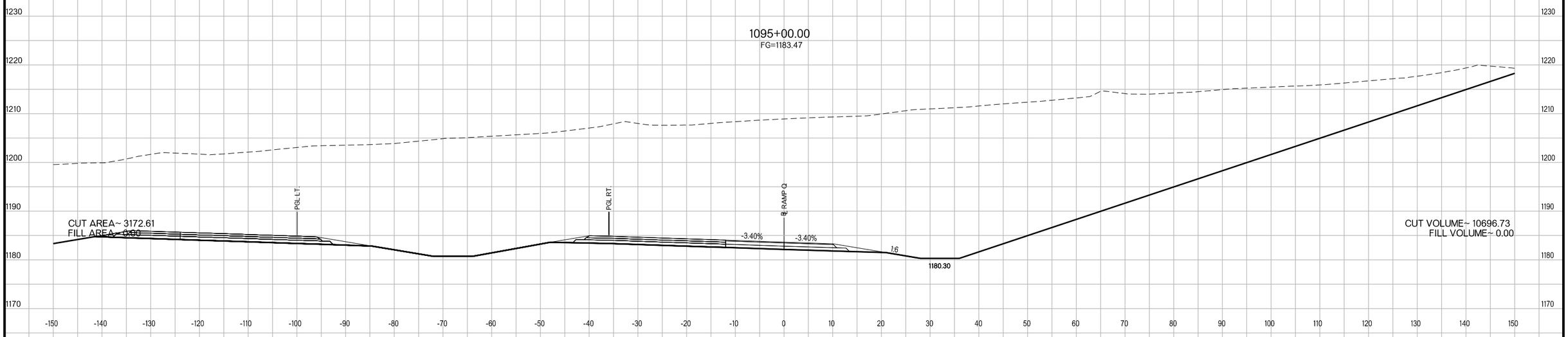
RAMP Q

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X564
FG=1226.64

PROPOSED
R/W
AUGUST 2017

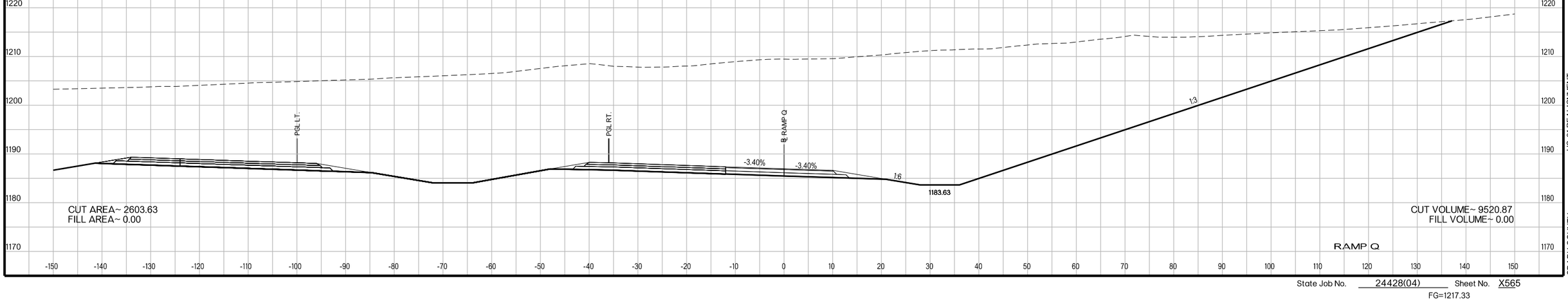
1095+00.00
FG=1183.47



CUT AREA~ 3172.61
FILL AREA~ 0.00

CUT VOLUME~ 10696.73
FILL VOLUME~ 0.00

1094+00.00
FG=1186.80



CUT AREA~ 2603.63
FILL AREA~ 0.00

CUT VOLUME~ 9520.87
FILL VOLUME~ 0.00

RAMP Q

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X565

FG=1217.33

PROPOSED
R/W
AUGUST 2017

1097+00.00
FG=1176.79

CUT AREA~ 4652.94
FILL AREA~ 0.00

CUT VOLUME~ 16081.29
FILL VOLUME~ 0.00

PGL LT.

PGL RT.

℄ RAMP Q

-3.40%

-3.40%

1:6

1173.62

1096+00.00
FG=1180.13

CUT AREA~ 4030.95
FILL AREA~ 0.00

CUT VOLUME~ 13339.93
FILL VOLUME~ 0.00

1176.96

RAMP Q

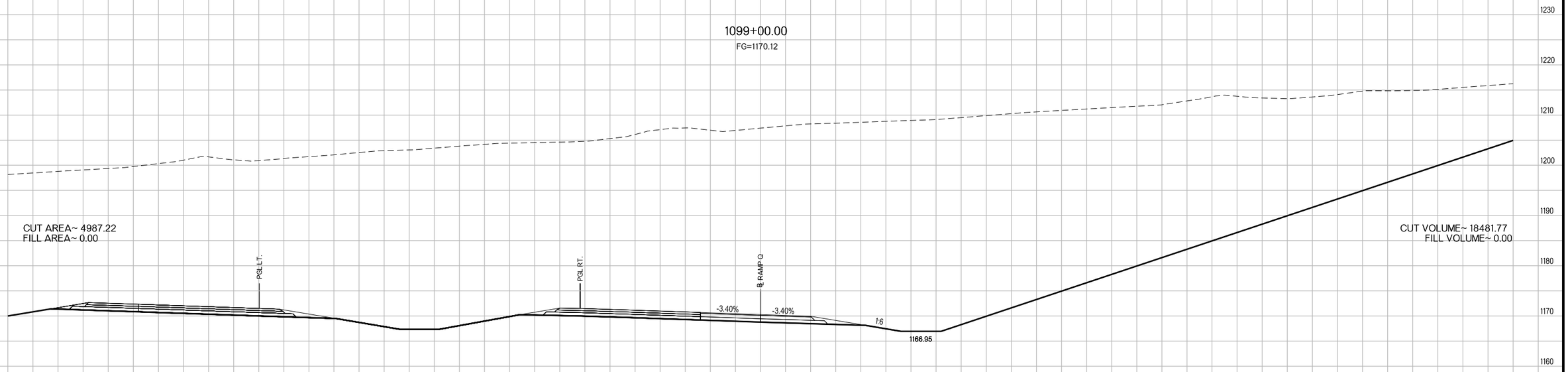
US-81 REALIGNMENT

GRADY COUNTY

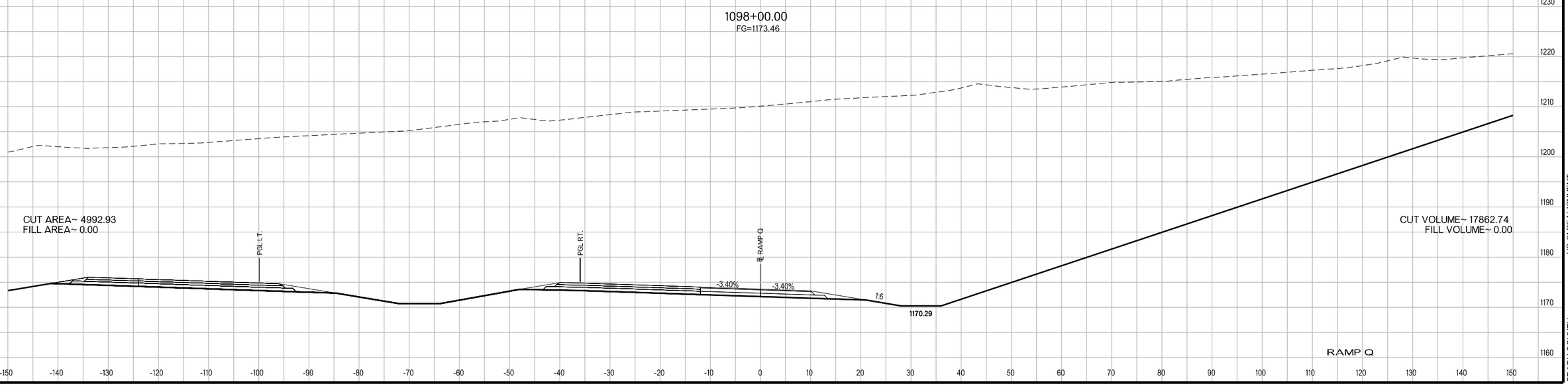
State Job No. 24428(04) Sheet No. X566

PROPOSED
R/W
AUGUST 2017

1099+00.00
FG=1170.12



1098+00.00
FG=1173.46



US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X567

PROPOSED
R/W
AUGUST 2017

1100+92.34
FG=1163.71

WATER
PRES R/W
PRES R/W
OHP

CUT AREA~ 4458.89
FILL AREA~ 0.00

CUT VOLUME~ 15826.99
FILL VOLUME~ 0.00

PGL LT.
PGL RT.
℄ RAMP Q
-3.40%
-3.40%
1:6
1160.54

STA. 1100+92.34
WATER ELEVATION UNKNOWN

1100+00.00
FG=1166.78

WATER
PRES R/W

CUT AREA~ 4796.66
FILL AREA~ 0.00

CUT VOLUME~ 18118.31
FILL VOLUME~ 0.00

PGL LT.
PGL RT.
℄ RAMP Q
-3.40%
-3.40%
1:6
1163.61

RAMP Q

1220 1210 1200 1190 1180 1170 1160 1150

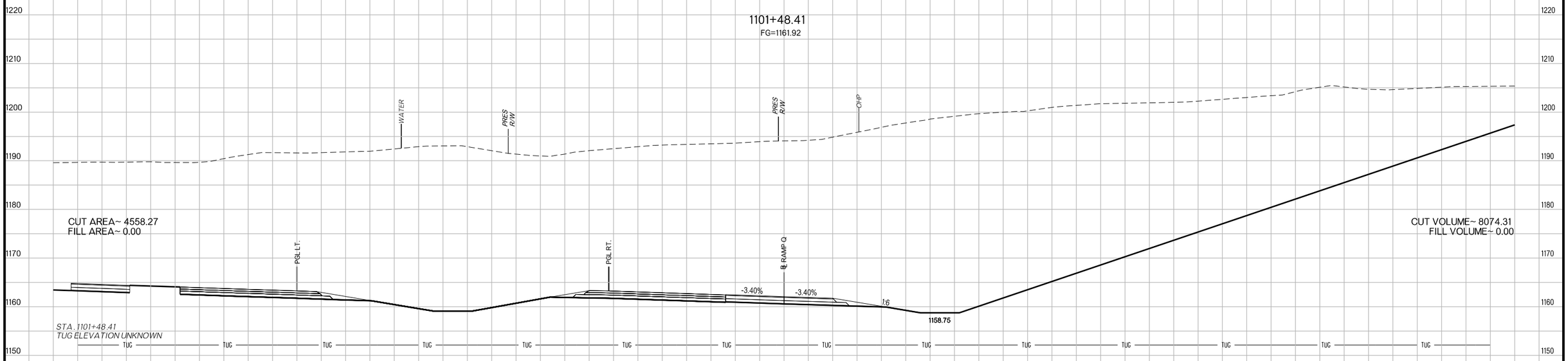
-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X568

PROPOSED
R/W
AUGUST 2017

1101+48.41
FG=1161.92



CUT AREA~ 4558.27
FILL AREA~ 0.00

CUT VOLUME~ 8074.31
FILL VOLUME~ 0.00

1101+00.00
FG=1163.45

CUT AREA~ 4448.40
FILL AREA~ 0.00

CUT VOLUME~ 1263.51
FILL VOLUME~ 0.00

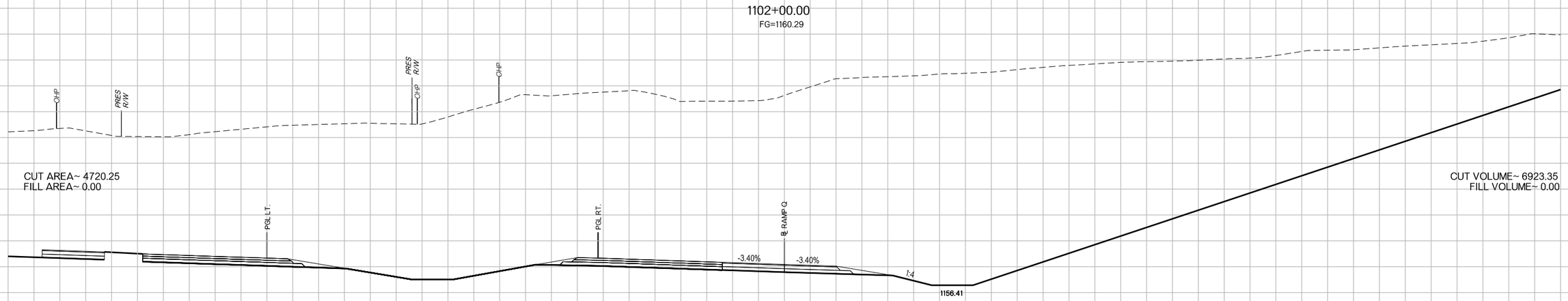
RAMP Q

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X569

PROPOSED
R/W
AUGUST 2017

1102+00.00
FG=1160.29

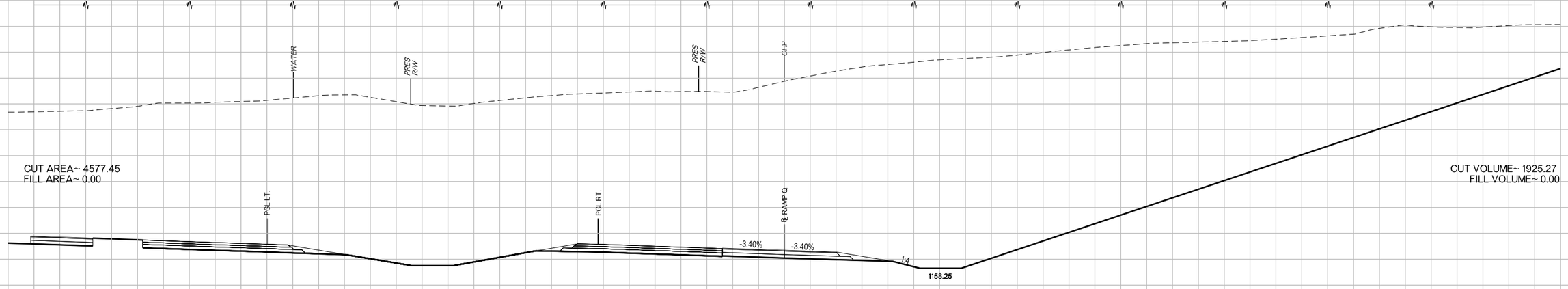


CUT AREA~ 4720.25
FILL AREA~ 0.00

CUT VOLUME~ 6923.35
FILL VOLUME~ 0.00

1101+59.79
FG=1161.56

STA. 1101+59.79
POWER OH ELEVATION UNKNOWN



CUT AREA~ 4577.45
FILL AREA~ 0.00

CUT VOLUME~ 1925.27
FILL VOLUME~ 0.00

RAMP Q

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X570

PROPOSED
R/W
AUGUST 2017

1103+00.00
FG=1157.69

CUT AREA~ 4992.89
FILL AREA~ 0.00

CUT VOLUME~ 10759.61
FILL VOLUME~ 0.00

PGL LT.

PGL RT.

℄ RAMP Q

-3.40%

-3.40%

1:4

1151.84

1102+40.74
FG=1159.23

STA. 1102+40.74
POWER OH ELEVATION UNKNOWN

PRES RW

OHP

OHP

CUT AREA~ 4811.68
FILL AREA~ 0.00

CUT VOLUME~ 7191.31
FILL VOLUME~ 0.00

PGL LT.

PGL RT.

℄ RAMP Q

-3.40%

-3.40%

1:4

1154.55

RAMP Q

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X571

PROPOSED
R/W
AUGUST 2017

1104+00.00
FG=1155.70

CUT AREA~ 4916.43
FILL AREA~ 0.00

CUT VOLUME~ 13916.94
FILL VOLUME~ 0.00

PGL LT.

PGL RT.

℄ RAMP Q

-3.40%

-3.40%

1:4

1150.22

1103+25.51
FG=1157.19

STR. NO. 132
STA. 285+00.00
CONST. INLET SMD-TYPE 2
W/ 18" X 105' RCP
GRATE ELEV = 1154.41
INVERT ELEV = 1151.85
FL OUT = 1150.76

CUT AREA~ 5172.37
FILL AREA~ 0.00

CUT VOLUME~ 4802.15
FILL VOLUME~ 0.00

PGL LT.

PGL RT.

℄ RAMP Q

-3.40%

-3.40%

1:4

1150.67

RAMP Q

1210 1200 1190 1180 1170 1160 1150 1140

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

US-81 REALIGNMENT

GRADY COUNTY

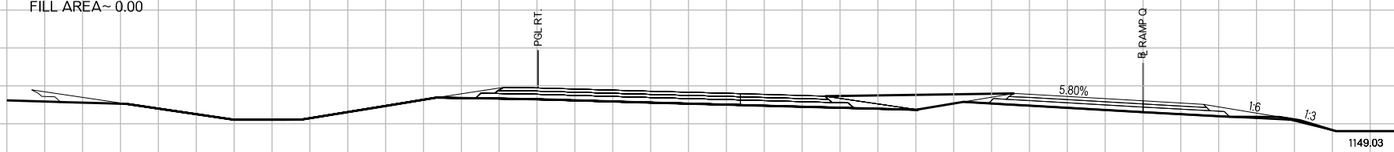
State Job No. 24428(04) Sheet No. X572

PROPOSED
R/W
AUGUST 2017

1106+00.00
FG=1152.19

CUT AREA~ 4463.00
FILL AREA~ 0.00

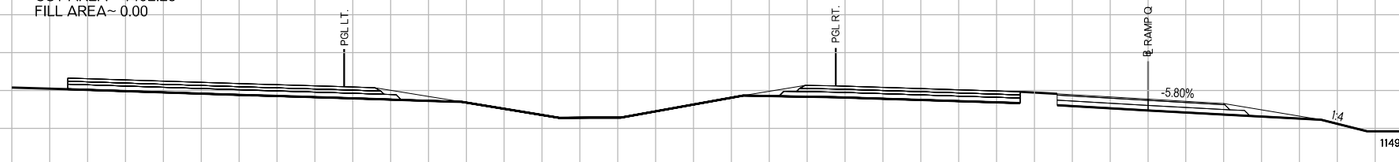
CUT VOLUME~ 16583.86
FILL VOLUME~ 0.00



1105+00.00
FG=1153.70

CUT AREA~ 4492.28
FILL AREA~ 0.00

CUT VOLUME~ 17423.54
FILL VOLUME~ 0.00



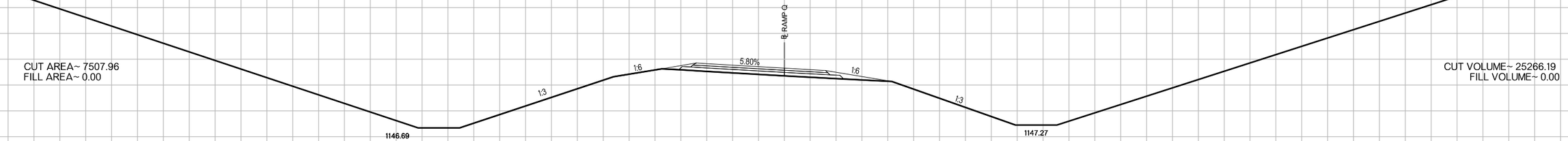
RAMP Q

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X573

PROPOSED
R/W
AUGUST 2017

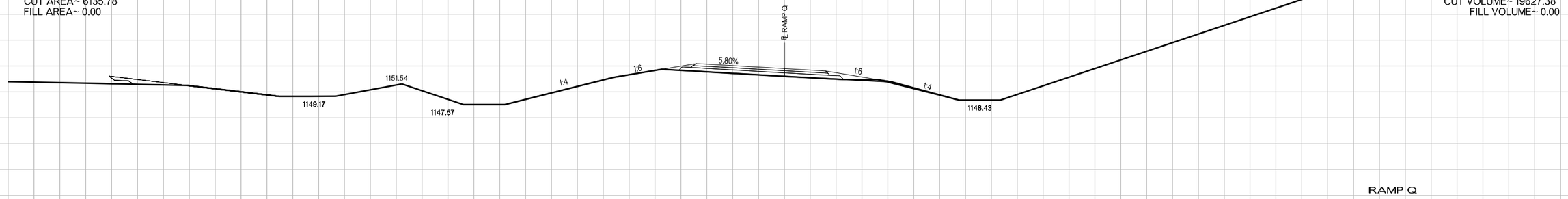
1108+00.00
FG=1157.45



CUT AREA~ 7507.96
FILL AREA~ 0.00

CUT VOLUME~ 25266.19
FILL VOLUME~ 0.00

1107+00.00
FG=1153.67



CUT AREA~ 6135.78
FILL AREA~ 0.00

CUT VOLUME~ 19627.38
FILL VOLUME~ 0.00

RAMP Q

FG=1175.69

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X574

PROPOSED
R/W
AUGUST 2017

1109+00.00
FG=1162.40

(133) STA. 1009+00.00 Ø RAMP Q
CONST. 48"x144' LG RCP
81' LG. LT. & 63' LG. RT.
FL LT.=1145.80, FL RT.=1146.10

OHP

Ø RAMP Q

5.80%

1:6

1:6

1:3

1:3

CUT AREA~ 9146.07
FILL AREA~ 0.00

CUT VOLUME~ 199.77
FILL VOLUME~ 0.00

1145.80

1146.10

1210 1200 1190 1180 1170 1160 1150 1140 1130

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

1108+99.41
FG=1162.37

STA. 1108+99.41
POWER OH ELEVATION UNKNOWN

OHP

Ø RAMP Q

5.80%

1:6

1:6

1:3

1:3

CUT AREA~ 9138.14
FILL AREA~ 0.00

CUT VOLUME~ 30644.23
FILL VOLUME~ 0.00

1145.81

1146.11

RAMP Q

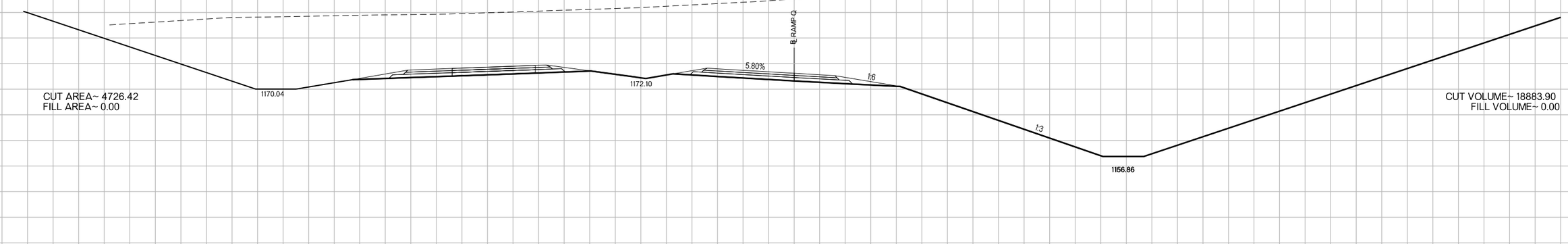
US-81 REALIGNMENT

GRADY COUNTY

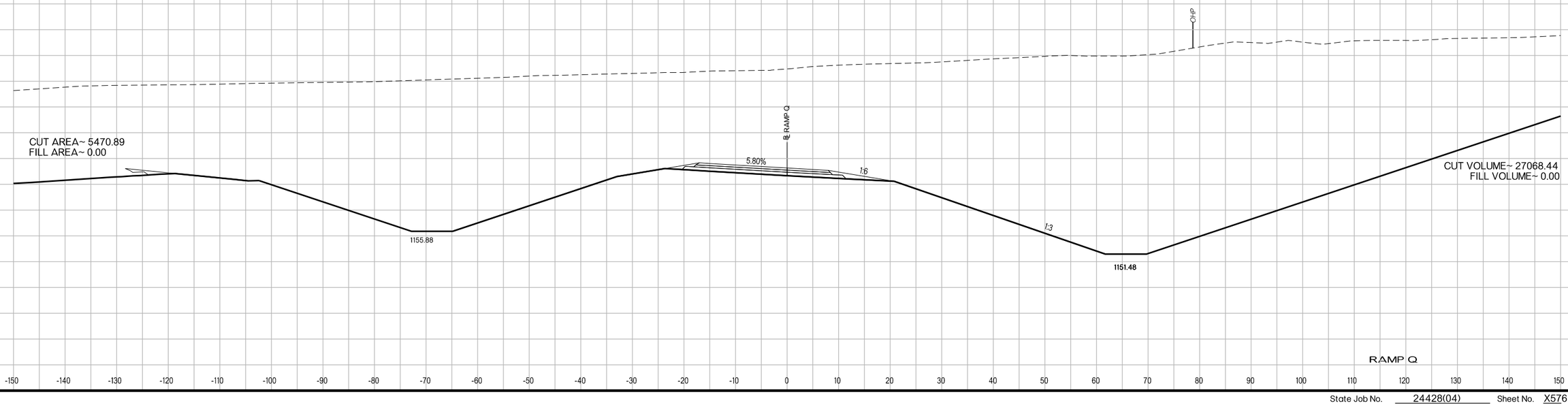
State Job No. 24428(04) Sheet No. X575

PROPOSED
R/W
AUGUST 2017

1111+00.00
FG=1172.29



1110+00.00
FG=1167.35

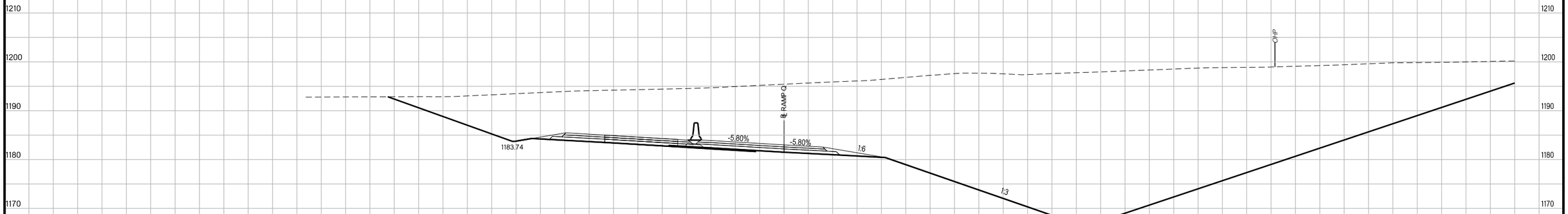


US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X576

PROPOSED
R/W
AUGUST 2017

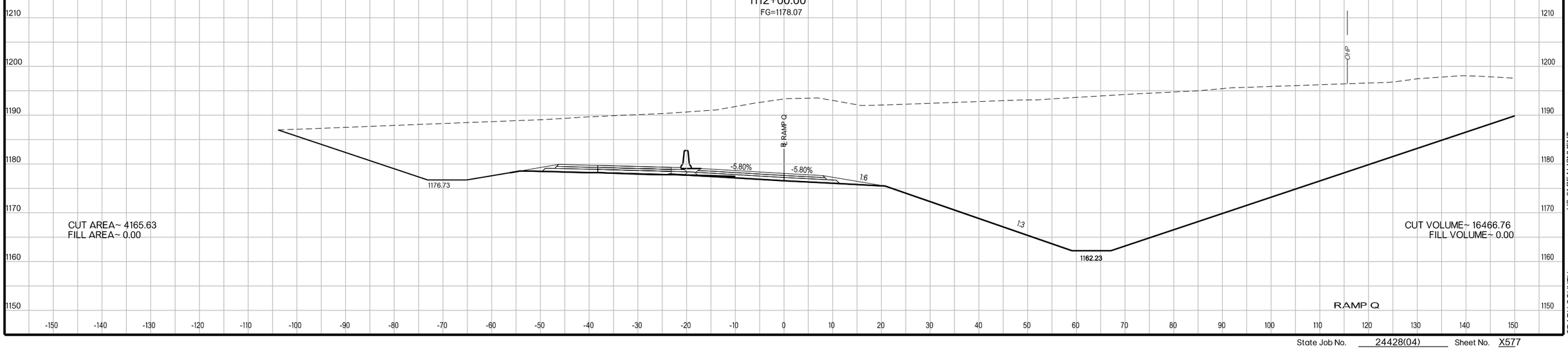
1113+00.00
FG=1183.02



CUT AREA~ 3778.27
FILL AREA~ 0.00

CUT VOLUME~ 14710.93
FILL VOLUME~ 0.00

1112+00.00
FG=1178.07



CUT AREA~ 4165.63
FILL AREA~ 0.00

CUT VOLUME~ 16466.76
FILL VOLUME~ 0.00

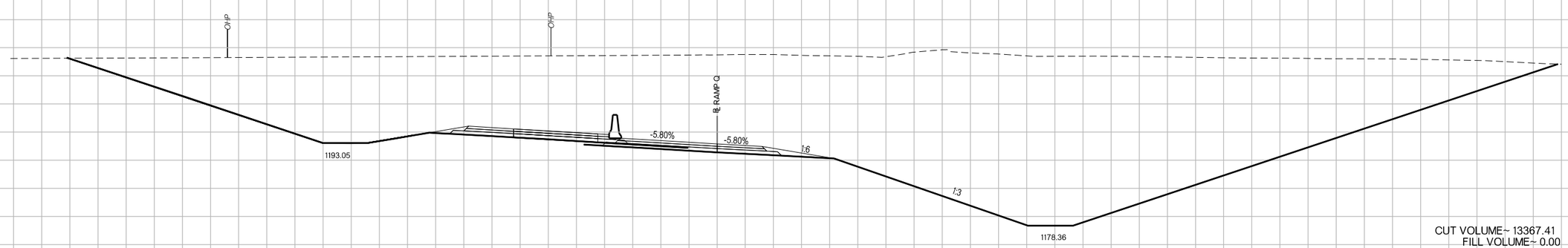
RAMP Q

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X577

PROPOSED
R/W
AUGUST 2017

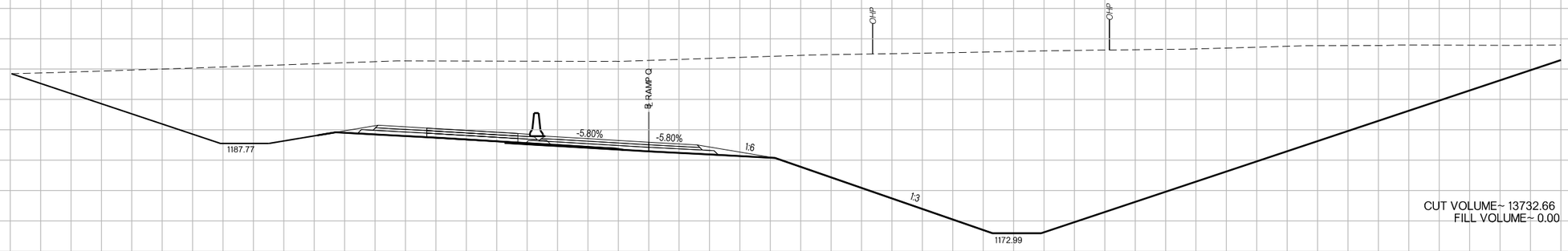
1115+00.00
FG=1192.91



CUT AREA~ 3581.04
FILL AREA~ 0.00

CUT VOLUME~ 13367.41
FILL VOLUME~ 0.00

1114+00.00
FG=1187.96



CUT AREA~ 3637.36
FILL AREA~ 0.00

CUT VOLUME~ 13732.66
FILL VOLUME~ 0.00

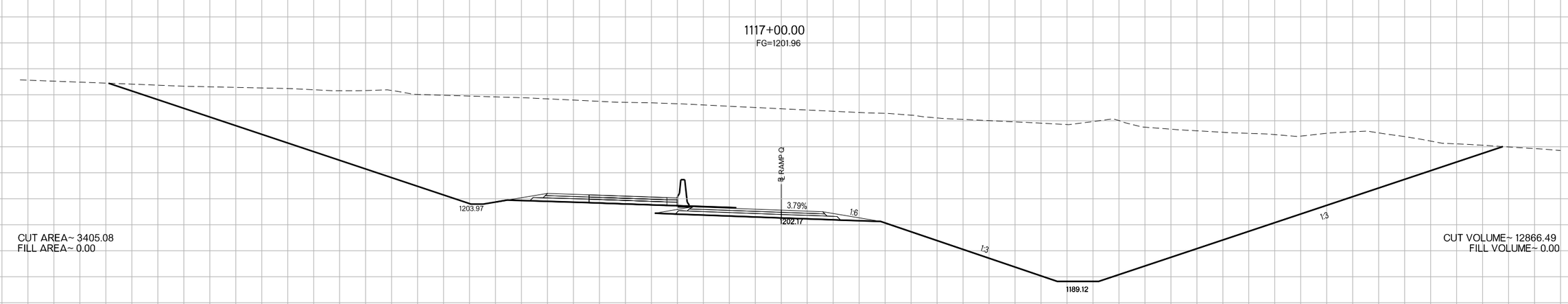
RAMP Q

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X578

PROPOSED
R/W
AUGUST 2017

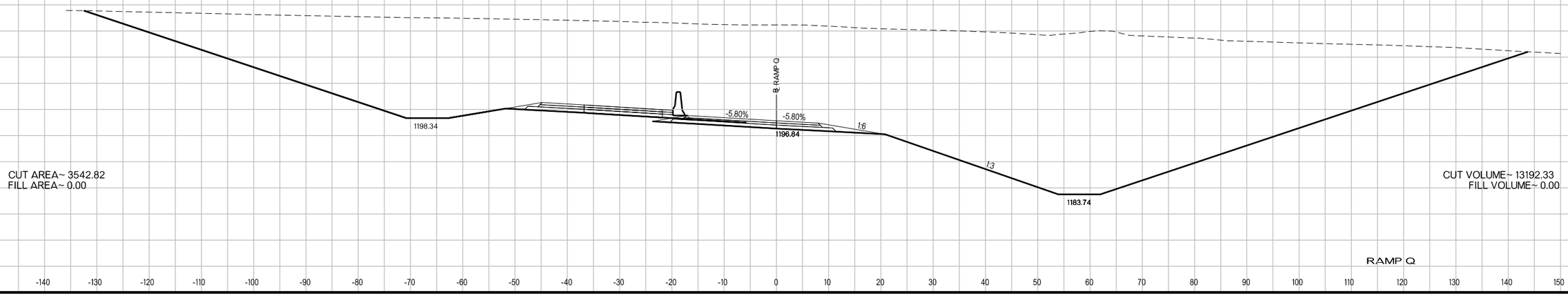
1117+00.00
FG=1201.96



CUT AREA~ 3405.08
FILL AREA~ 0.00

CUT VOLUME~ 12866.49
FILL VOLUME~ 0.00

1116+00.00
FG=1197.85



CUT AREA~ 3542.82
FILL AREA~ 0.00

CUT VOLUME~ 13192.33
FILL VOLUME~ 0.00

RAMP Q

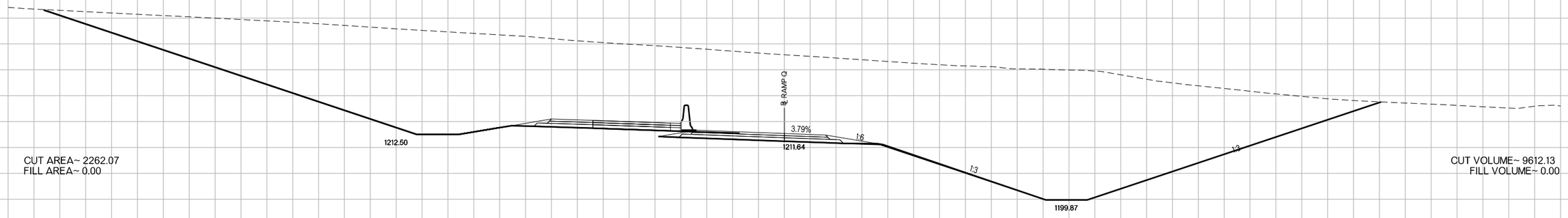
US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X579

PROPOSED
R/W
AUGUST 2017

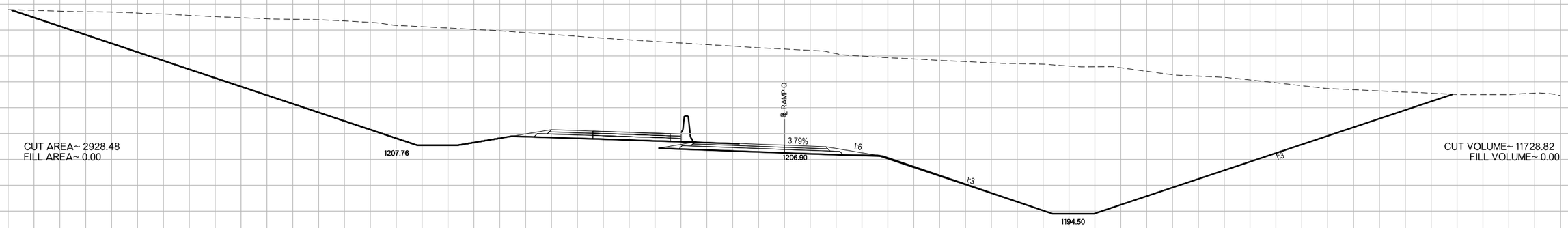
1119+00.00
FG=1211.85



CUT AREA~ 2262.07
FILL AREA~ 0.00

CUT VOLUME~ 9612.13
FILL VOLUME~ 0.00

1118+00.00
FG=1206.91



CUT AREA~ 2928.48
FILL AREA~ 0.00

CUT VOLUME~ 11728.82
FILL VOLUME~ 0.00

RAMP Q

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X580

PROPOSED
R/W
AUGUST 2017

1120+37.67
FG=1216.86

STA. 1120+37.67
POWER OH ELEVATION UNKNOWN

℄ RAMP Q

OHP

3.79%

1:6

1:3

1217.02

1215.06

CUT AREA~ 759.55
FILL AREA~ 0.00

CUT VOLUME~ 1581.95
FILL VOLUME~ 0.00

1120+00.00
FG=1216.43

℄ RAMP Q

3.79%

1:6

1:3

1:3

1216.17

1205.25

CUT AREA~ 1508.18
FILL AREA~ 0.00

CUT VOLUME~ 6981.95
FILL VOLUME~ 0.00

RAMP Q

US-81 REALIGNMENT

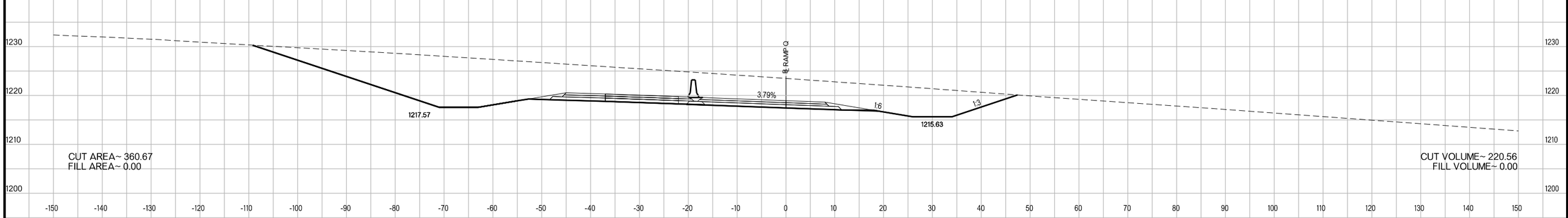
GRADY COUNTY

State Job No. 24428(04) Sheet No. X581

PROPOSED
R/W
AUGUST 2017

STA. 1120+64.80 ~ END CONSTRUCTION

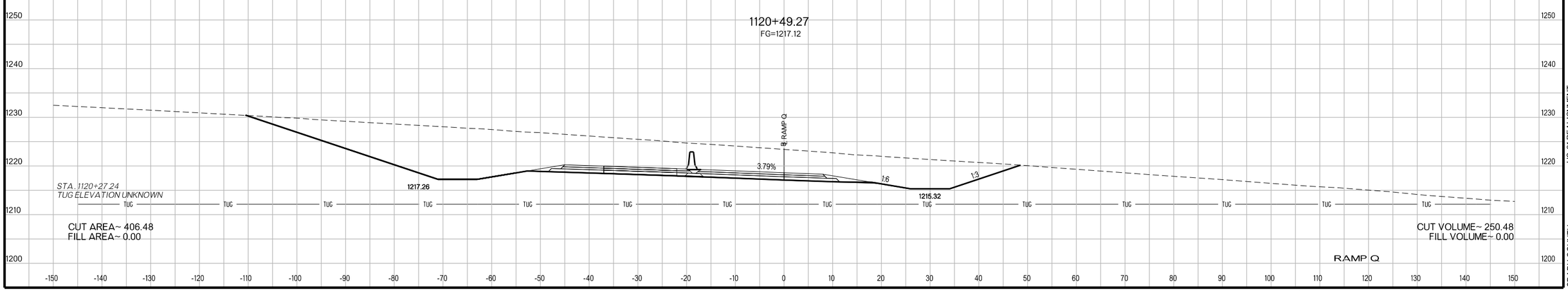
1120+64.80
FG=1217.43



CUT AREA~ 360.67
FILL AREA~ 0.00

CUT VOLUME~ 220.56
FILL VOLUME~ 0.00

1120+49.27
FG=1217.12



CUT AREA~ 406.48
FILL AREA~ 0.00

CUT VOLUME~ 250.48
FILL VOLUME~ 0.00

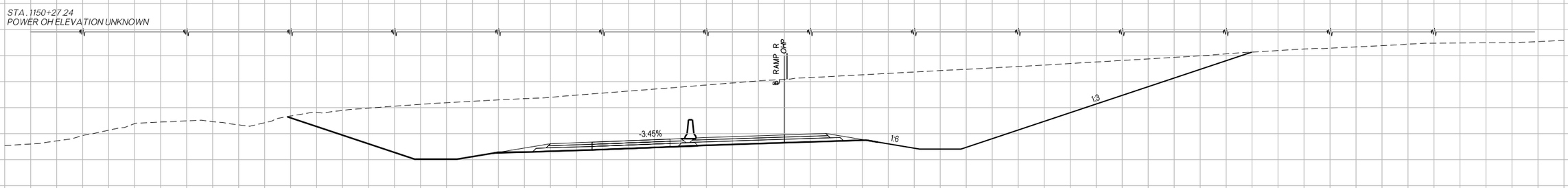
RAMP Q

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X582

PROPOSED
R/W
AUGUST 2017

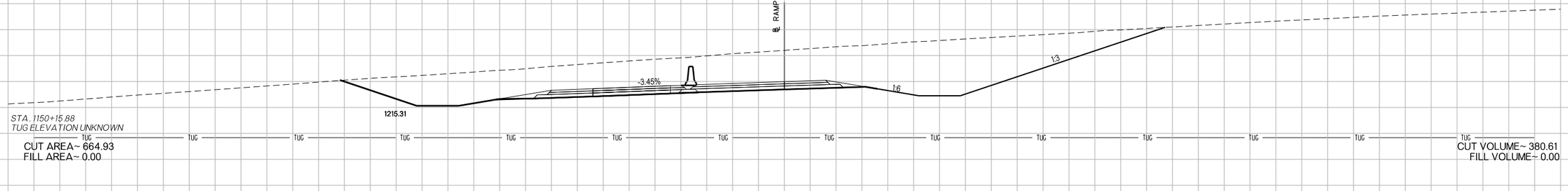
1150+27.24
FG=1219.75



CUT AREA~ 1122.34
FILL AREA~ 0.00

CUT VOLUME~ 375.99
FILL VOLUME~ 0.00

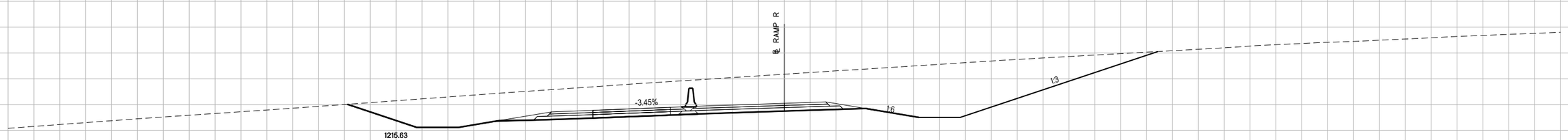
1150+15.88
FG=1219.97



CUT AREA~ 664.93
FILL AREA~ 0.00

CUT VOLUME~ 380.61
FILL VOLUME~ 0.00

1150+00.00
FG=1220.29



CUT AREA~ 629.35
FILL AREA~ 0.00

STA. 1150+00.00 ~ BEGIN CONSTRUCTION

CUT VOLUME~ 0.00
FILL VOLUME~ 0.00

RAMP R

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X583

PROPOSED
R/W
AUGUST 2017

1152+00.00
FG=1213.56

℄ RAMP R

-3.45%

1:6

1:3

CUT AREA~ 1841.02
FILL AREA~ 0.00

1197.98

CUT VOLUME~ 3409.30
FILL VOLUME~ 0.00

1151+00.00
FG=1217.95

℄ RAMP R

-3.45%

1:6

1:3

CUT AREA~ 0.00
FILL AREA~ 0.00

1203.36

CUT VOLUME~ 1512.25
FILL VOLUME~ 0.00

RAMP R

1250 1240 1230 1220 1210 1200 1190 1180

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X584

PROPOSED
R/W
AUGUST 2017

1154+00.00
FG=1204.09

℄ RAMP R

-3.45%

1:6

1:3

CUT AREA~ 1765.65
FILL AREA~ 0.00

1187.23

CUT VOLUME~ 6877.67
FILL VOLUME~ 0.00

1153+00.00
FG=1208.82

R/W

℄ RAMP R

-3.45%

1:6

1:3

CUT AREA~ 1948.29
FILL AREA~ 0.00

1192.60

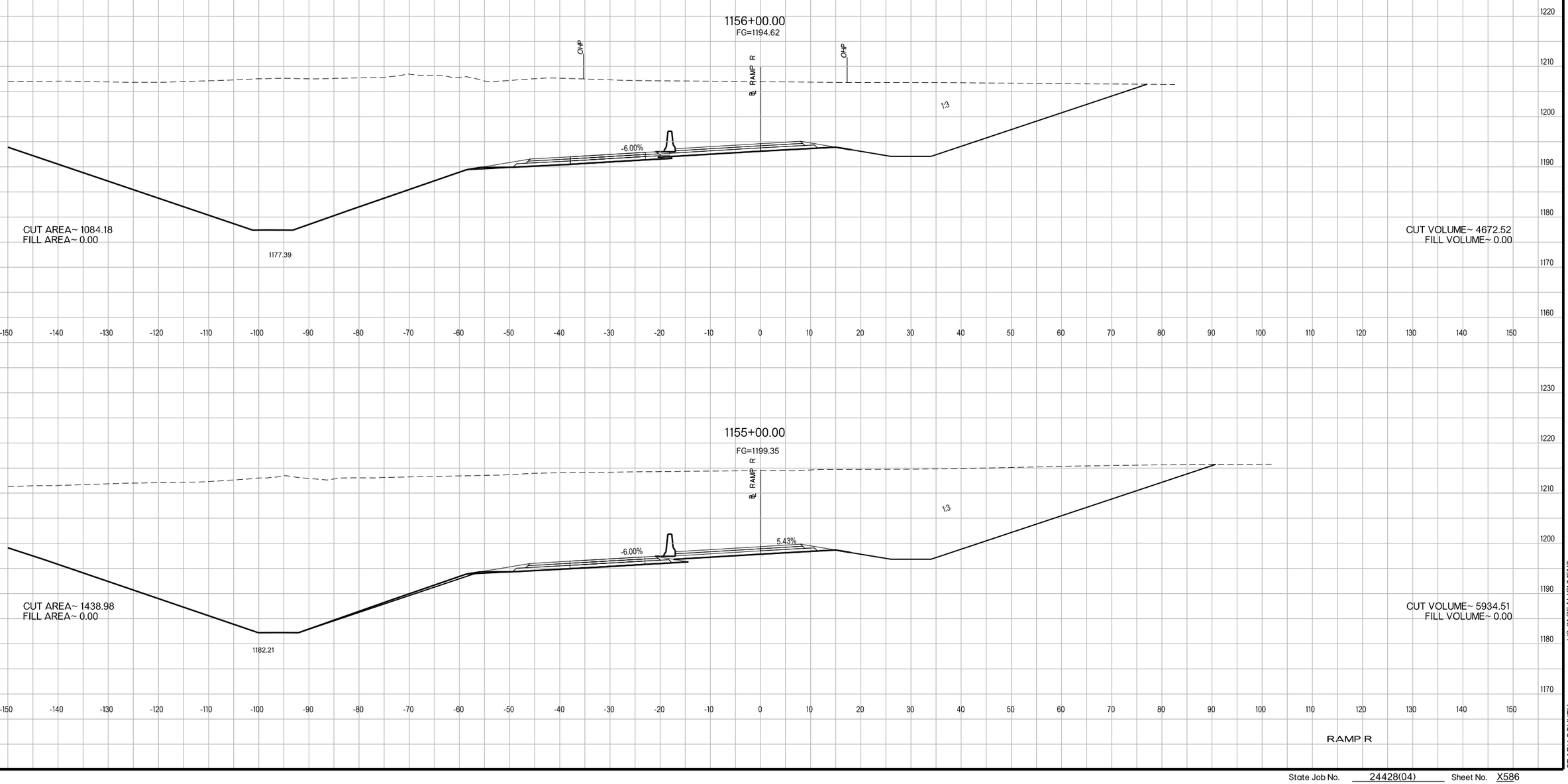
CUT VOLUME~ 7017.24
FILL VOLUME~ 0.00

RAMP R

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X585

PROPOSED
R/W
AUGUST 2017



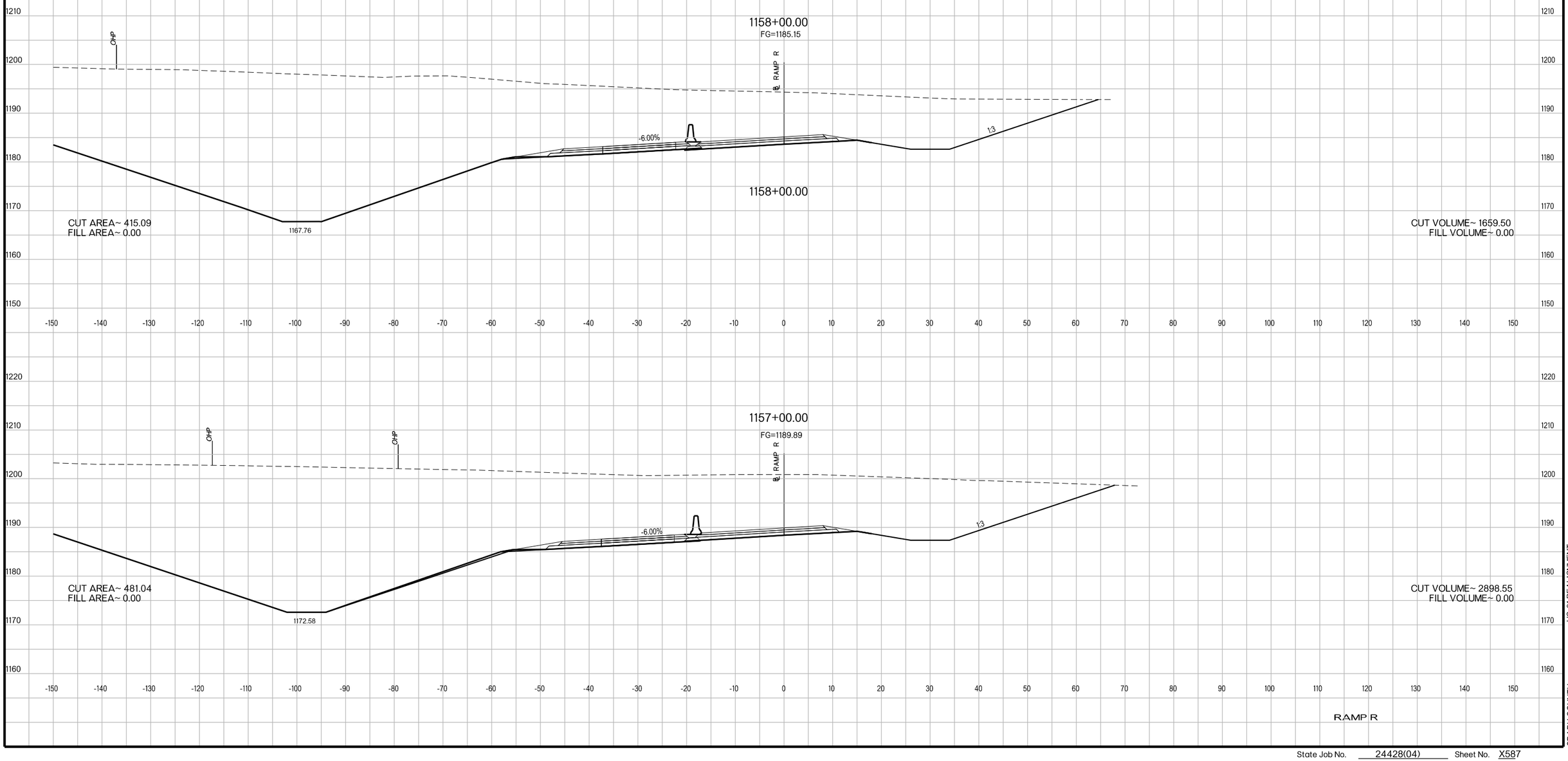
RAMP R

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X586

PROPOSED
R/W
AUGUST 2017



RAMP R

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X587

PROPOSED
R/W
AUGUST 2017

1160+00.00
FG=1175.68

℄ RAMP R

1.42%

1:3

CUT AREA~ 496.60
FILL AREA~ 0.00

1155.46

CUT VOLUME~ 1783.24
FILL VOLUME~ 0.00

1159+00.00
FG=1180.42

℄ RAMP R

-3.75%

-3.75%

1:3

CUT AREA~ 466.35
FILL AREA~ 0.00

1162.65

CUT VOLUME~ 1632.29
FILL VOLUME~ 0.00

RAMP R

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X588

PROPOSED
R/W
AUGUST 2017

1162+00.00
FG=1166.22

℄ RAMP R

1:6 5.29% 1:6 1:6 1:3

1149.35 1162.79

CUT AREA~ 6456.84
FILL AREA~ 0.00

CUT VOLUME~ 13555.51
FILL VOLUME~ 0.00

1161+00.00
FG=1170.95

℄ RAMP R

1:6 2.00% 1:6 1:6 1:3

1168.29

CUT AREA~ 863.13
FILL AREA~ 0.00

CUT VOLUME~ 2518.03
FILL VOLUME~ 0.00

RAMP R

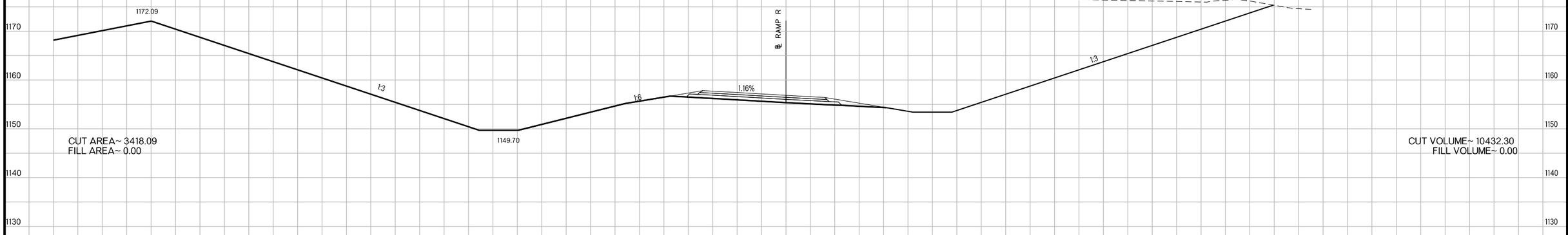
US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X589

PROPOSED
R/W
AUGUST 2017

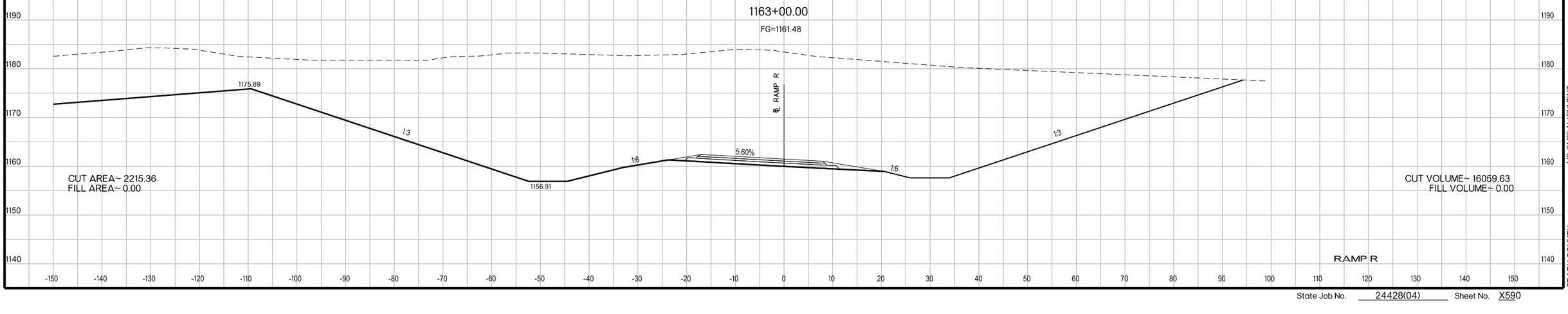
1164+00.00
FG=1156.87



CUT AREA~ 3418.09
FILL AREA~ 0.00

CUT VOLUME~ 10432.30
FILL VOLUME~ 0.00

1163+00.00
FG=1161.48



CUT AREA~ 2215.36
FILL AREA~ 0.00

CUT VOLUME~ 16059.63
FILL VOLUME~ 0.00

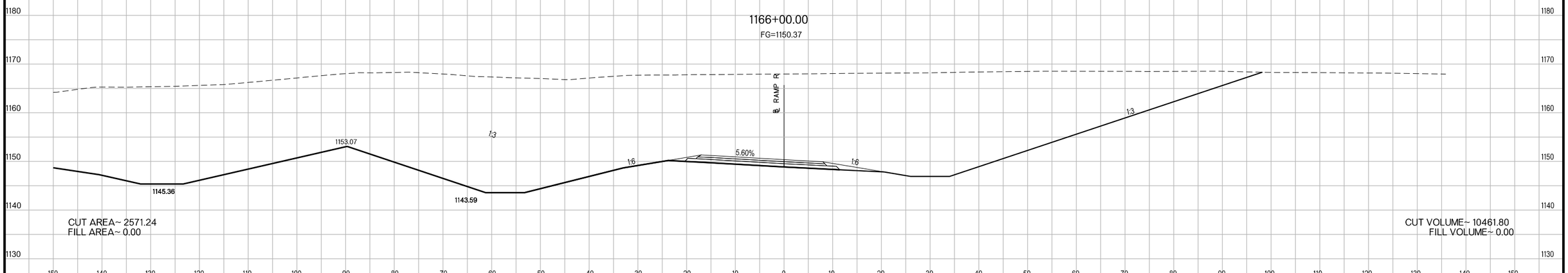
RAMP R

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X590

PROPOSED
R/W
AUGUST 2017

1166+00.00
FG=1150.37

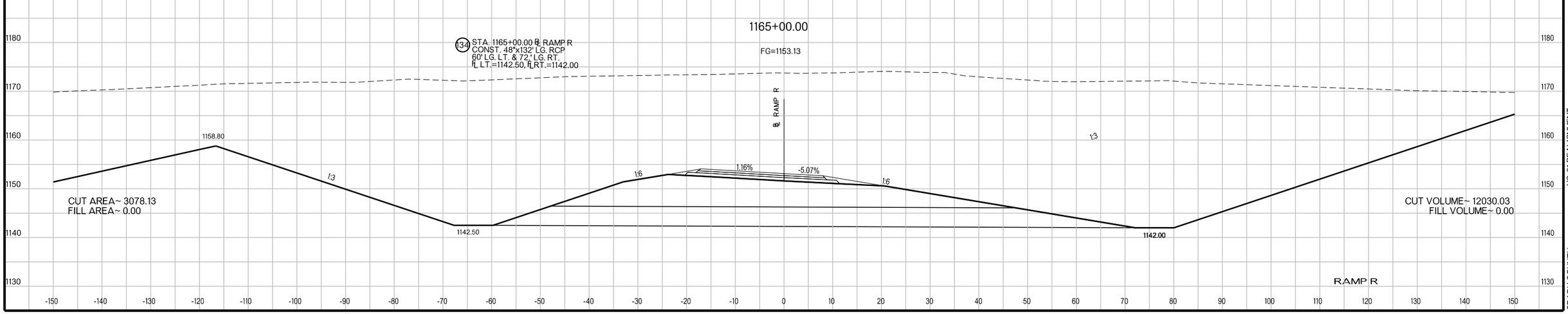


CUT AREA~ 2571.24
FILL AREA~ 0.00

CUT VOLUME~ 10461.80
FILL VOLUME~ 0.00

1165+00.00
FG=1153.13

(134) STA. 1165+00.00 ℄ RAMP R
CONST. 48"X132' LG. RCP
60' LG. LT. & 72' LG. RT.
IL LT.=1142.50, IL RT.=1142.00



CUT AREA~ 3078.13
FILL AREA~ 0.00

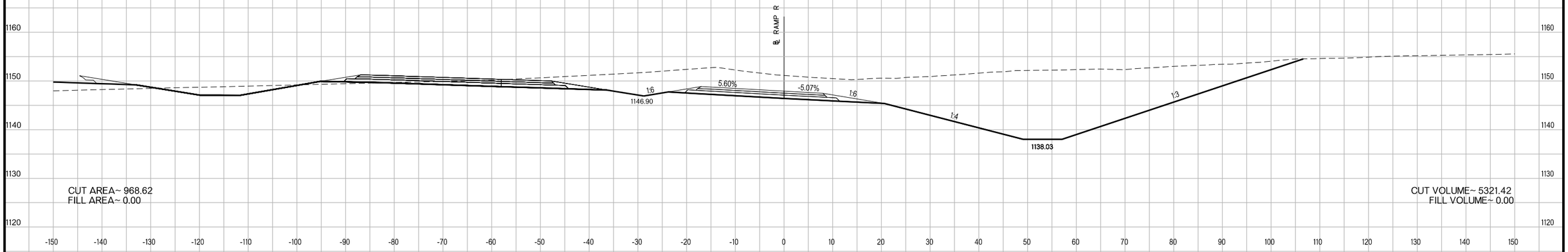
CUT VOLUME~ 12030.03
FILL VOLUME~ 0.00

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X591

PROPOSED
R/W
AUGUST 2017

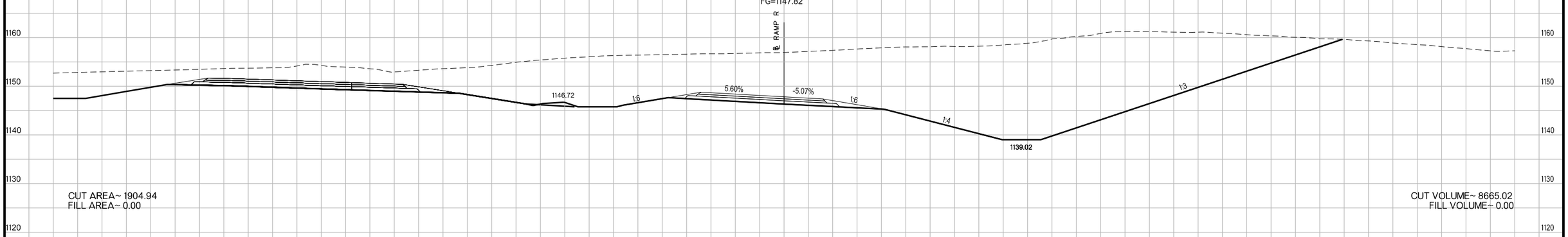
1169+00.00
FG=1147.91



CUT AREA~ 968.62
FILL AREA~ 0.00

CUT VOLUME~ 5321.42
FILL VOLUME~ 0.00

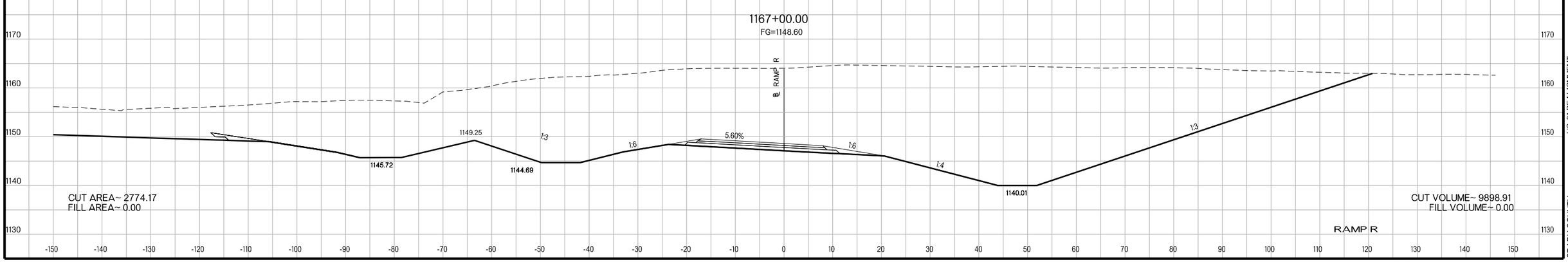
1168+00.00
FG=1147.82



CUT AREA~ 1904.94
FILL AREA~ 0.00

CUT VOLUME~ 8665.02
FILL VOLUME~ 0.00

1167+00.00
FG=1148.60



CUT AREA~ 2774.17
FILL AREA~ 0.00

CUT VOLUME~ 9898.91
FILL VOLUME~ 0.00

RAMP R

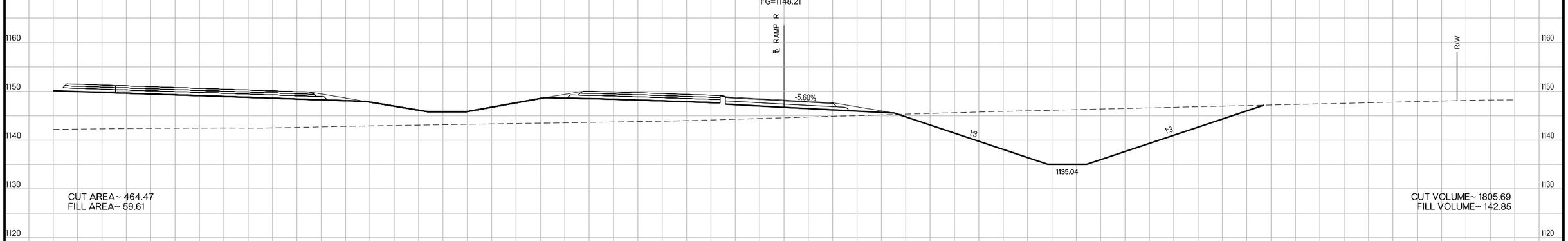
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X592

PROPOSED
R/W
AUGUST 2017

1172+00.00

FG=1148.21

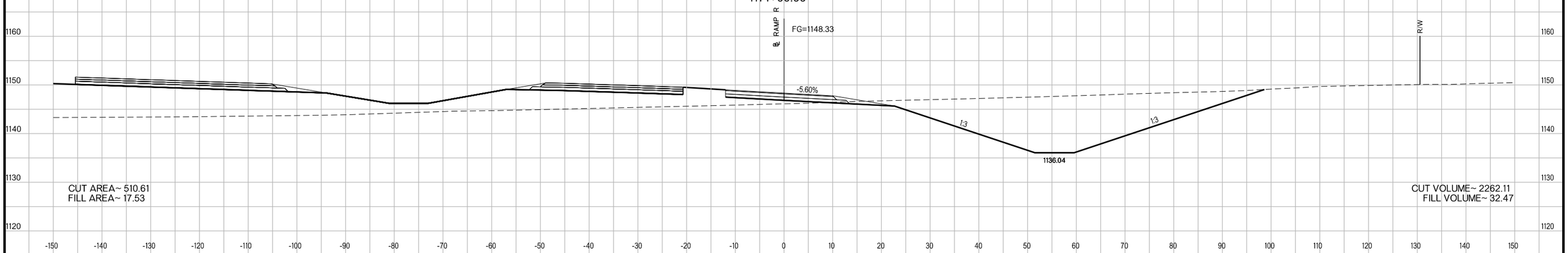


CUT AREA~ 464.47
FILL AREA~ 59.61

CUT VOLUME~ 1805.69
FILL VOLUME~ 142.85

1171+00.00

FG=1148.33

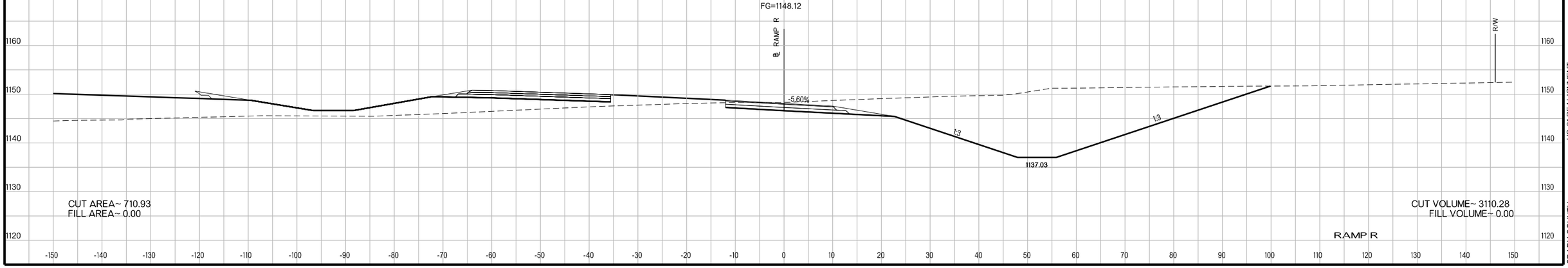


CUT AREA~ 510.61
FILL AREA~ 17.53

CUT VOLUME~ 2262.11
FILL VOLUME~ 32.47

1170+00.00

FG=1148.12



CUT AREA~ 710.93
FILL AREA~ 0.00

CUT VOLUME~ 3110.28
FILL VOLUME~ 0.00

RAMP R

US-81 REALIGNMENT

GRADY COUNTY

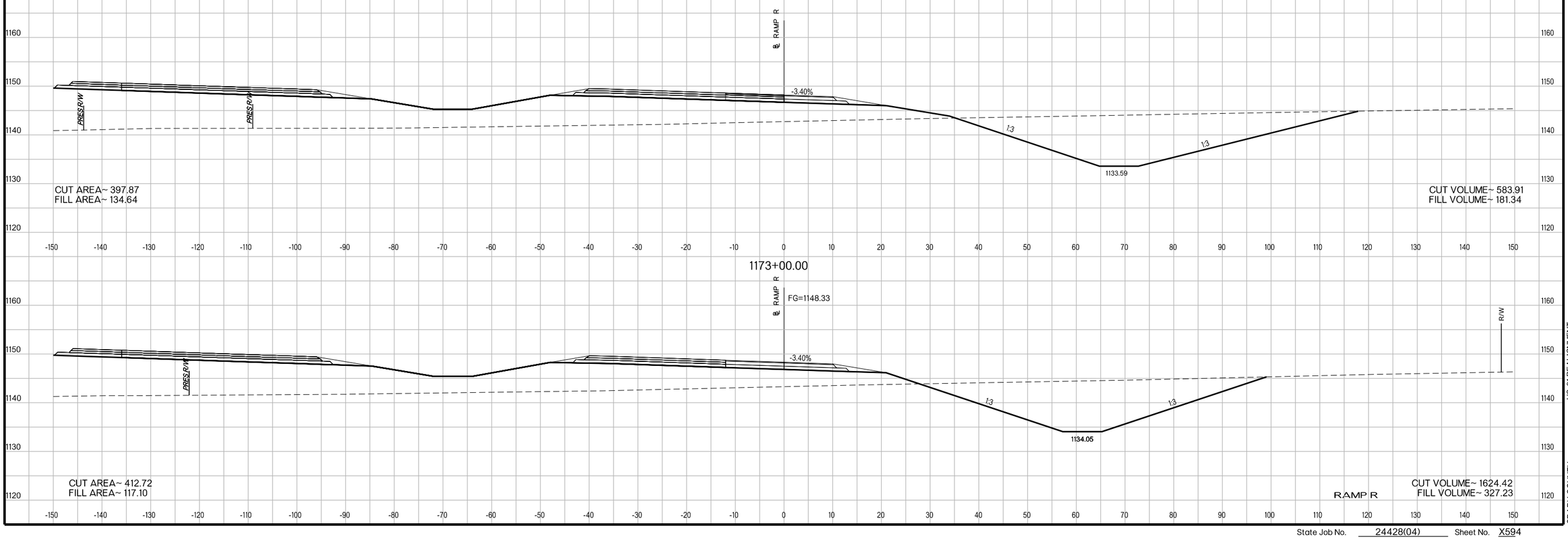
State Job No. 24428(04) Sheet No. X593

PROPOSED
R/W
AUGUST 2017

STA. 1173+38.90 ~ END CONSTRUCTION

1173+38.90

FG=1148.19



CUT AREA~ 397.87
FILL AREA~ 134.64

CUT VOLUME~ 583.91
FILL VOLUME~ 181.34

1173+00.00

FG=1148.33

CUT AREA~ 412.72
FILL AREA~ 117.10

RAMP R

CUT VOLUME~ 1624.42
FILL VOLUME~ 327.23

US-81 REALIGNMENT

GRADY COUNTY

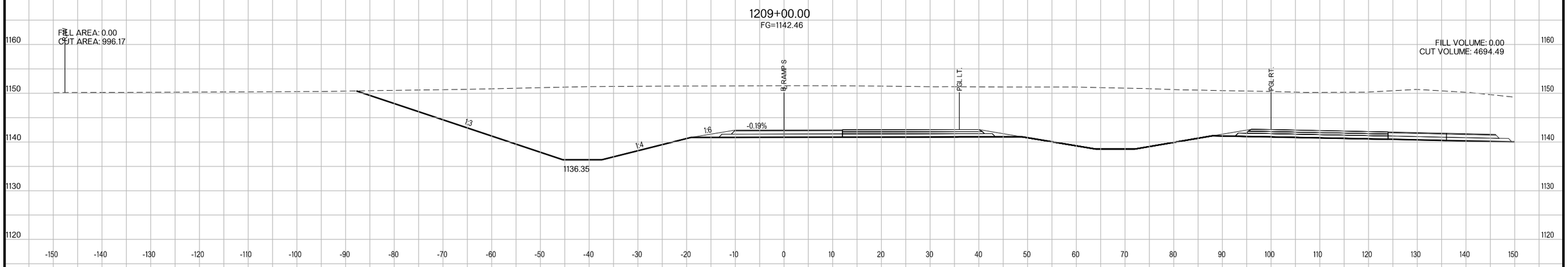
State Job No. 24428(04) Sheet No. X594

PROPOSED
R/W
AUGUST 2017

1209+00.00
FG=1142.46

FILL AREA: 0.00
CUT AREA: 996.17

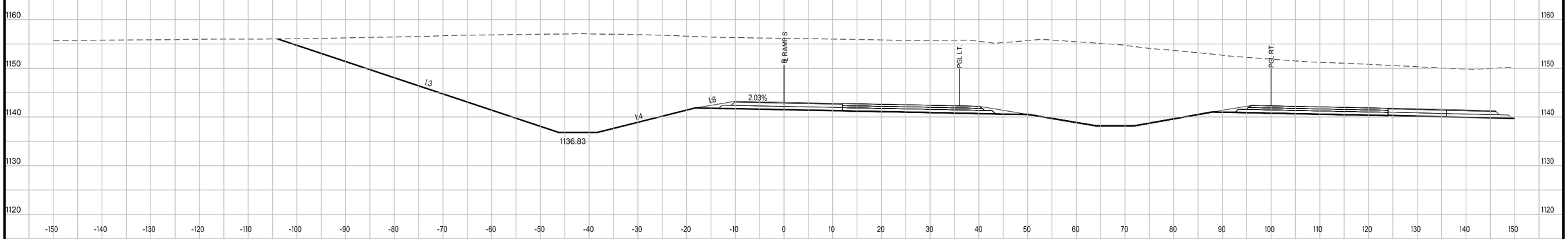
FILL VOLUME: 0.00
CUT VOLUME: 4694.49



1208+00.00
FG=1143.01

FILL AREA: 0.00
CUT AREA: 1538.85

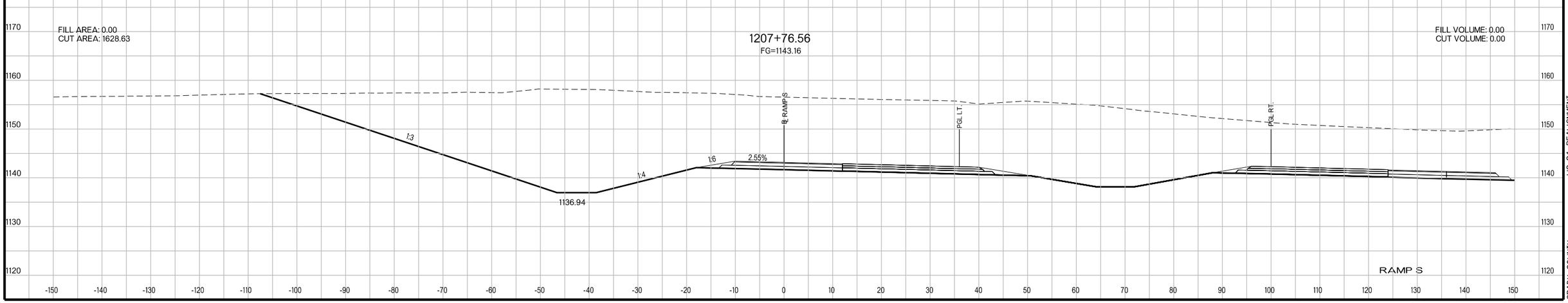
FILL VOLUME: 0.00
CUT VOLUME: 1374.92



1207+76.56
FG=1143.16

FILL AREA: 0.00
CUT AREA: 1628.63

FILL VOLUME: 0.00
CUT VOLUME: 0.00

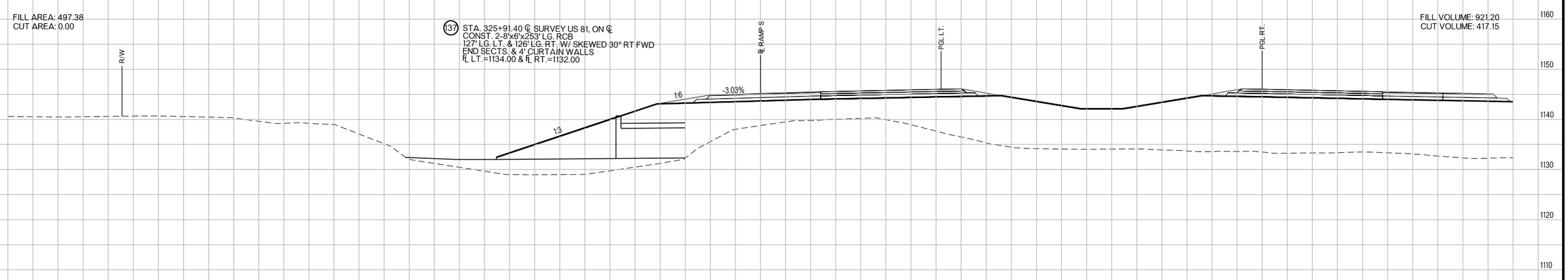


US-81 REALIGNMENT
GRADY COUNTY

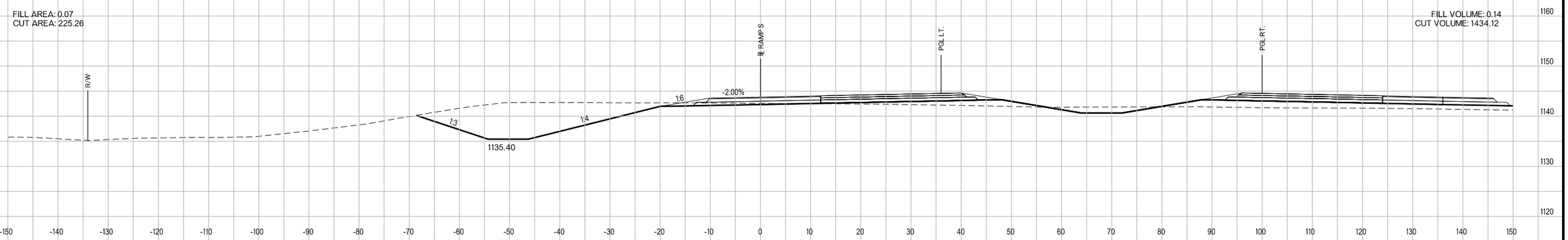
State Job No. 24428(04) Sheet No. X595

PROPOSED
R/W
AUGUST 2017

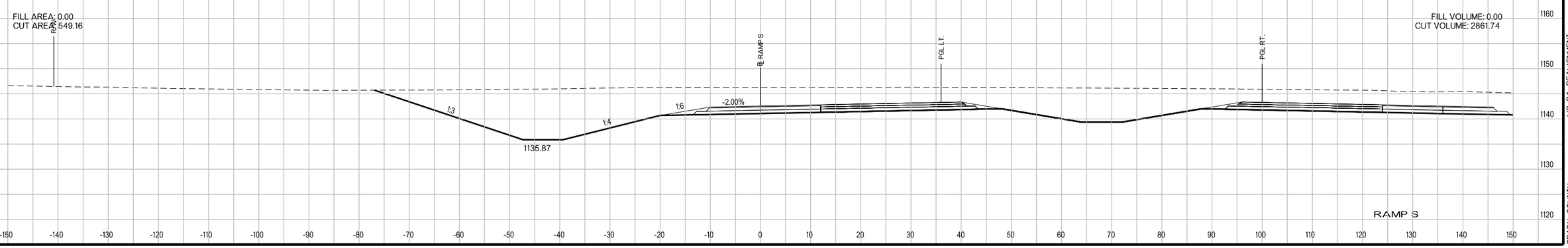
1212+00.00
FG=1145.17



1211+00.00
FG=1143.83



1210+00.00
FG=1142.58



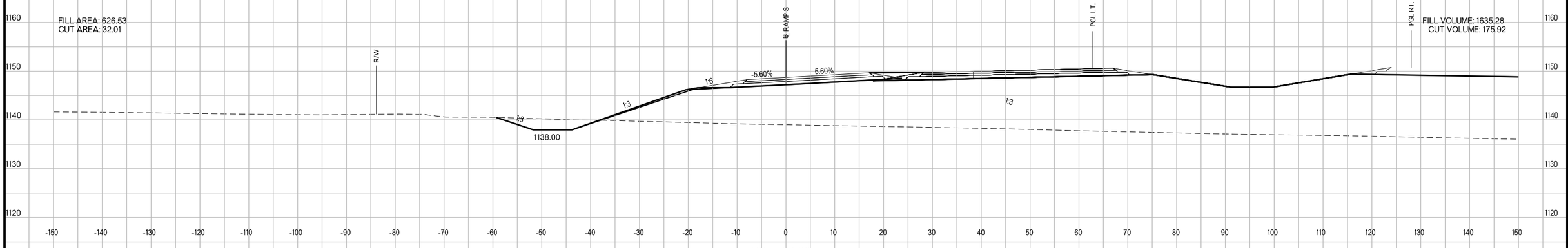
RAMP S

US-81 REALIGNMENT
GRADY COUNTY

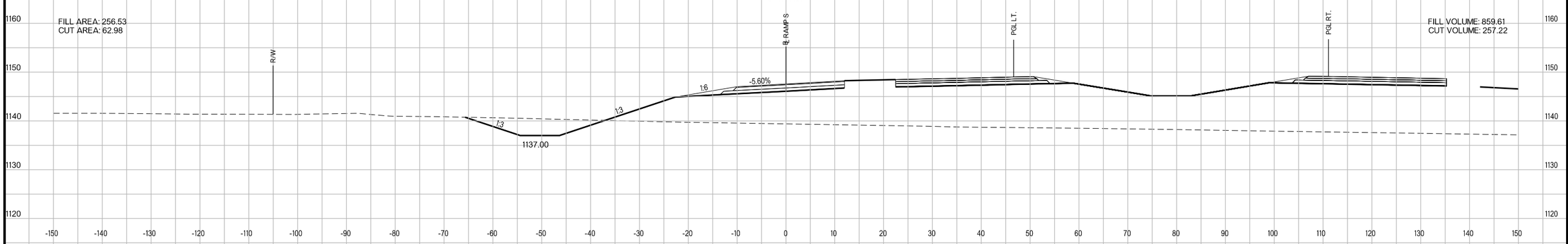
State Job No. 24428(04) Sheet No. X596

PROPOSED
R/W
AUGUST 2017

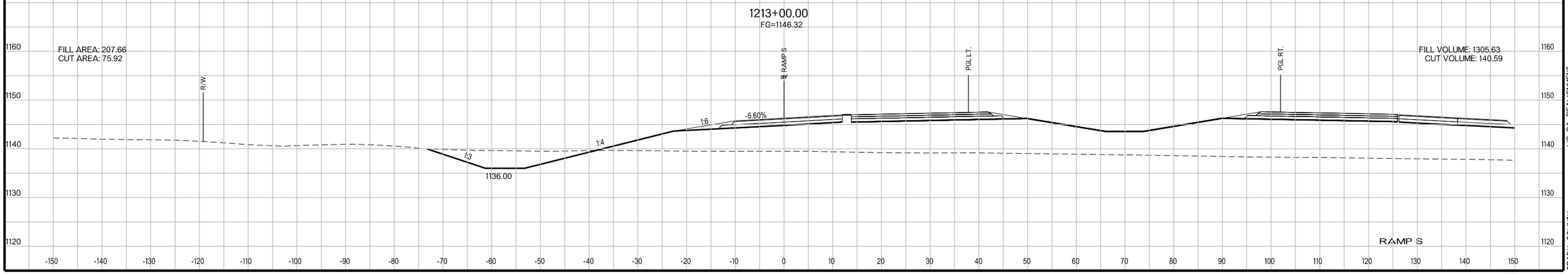
1215+00.00
FG=1148.70



1214+00.00
FG=1147.57



1213+00.00
FG=1146.32



US-81 REALIGNMENT
GRADY COUNTY

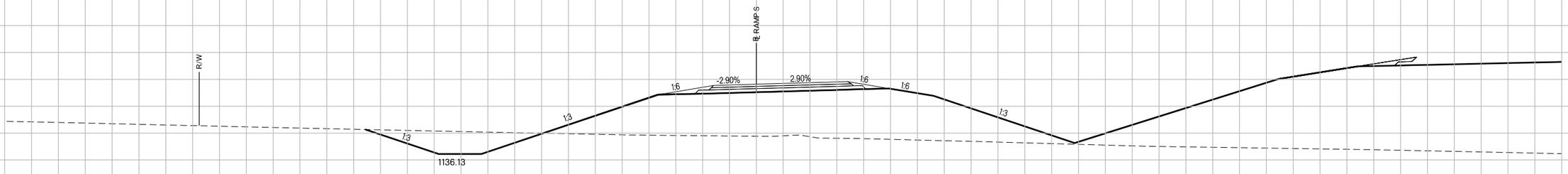
State Job No. 24428(04) Sheet No. X597

PROPOSED
R/W
AUGUST 2017

FILL AREA: 625.03
CUT AREA: 86.05

1218+00.00
FG=1149.09

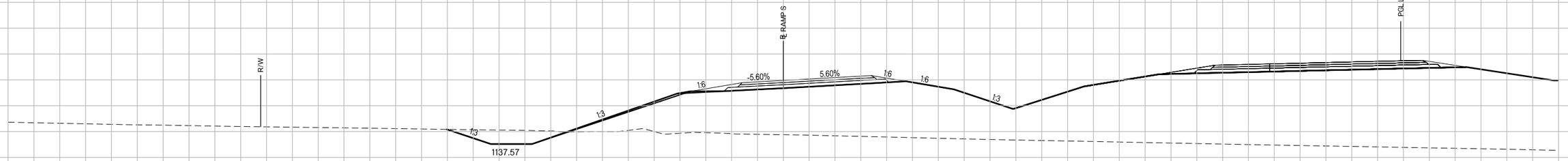
FILL VOLUME: 2484.76
CUT VOLUME: 238.15



FILL AREA: 716.74
CUT AREA: 42.55

1217+00.00
FG=1149.88

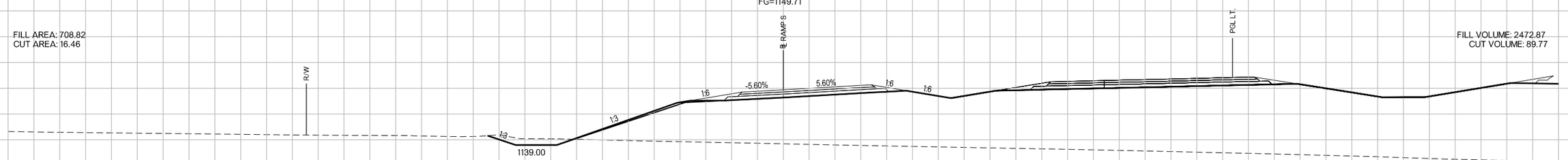
FILL VOLUME: 2639.93
CUT VOLUME: 109.28



1216+00.00
FG=1149.71

FILL AREA: 708.82
CUT AREA: 16.46

FILL VOLUME: 2472.87
CUT VOLUME: 89.77



RAMP S

US-81 REALIGNMENT
GRADY COUNTY

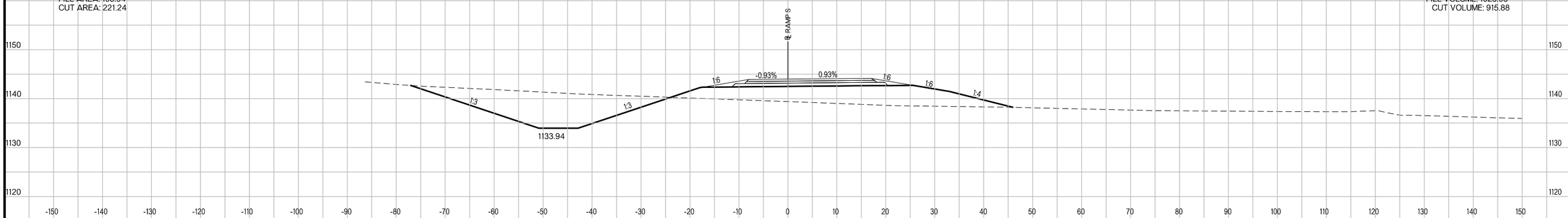
State Job No. 24428(04) Sheet No. X598

PROPOSED
R/W
AUGUST 2017

1221+00.00
FG=1143.97

FILL AREA: 195.94
CUT AREA: 221.24

FILL VOLUME: 1023.93
CUT VOLUME: 915.88

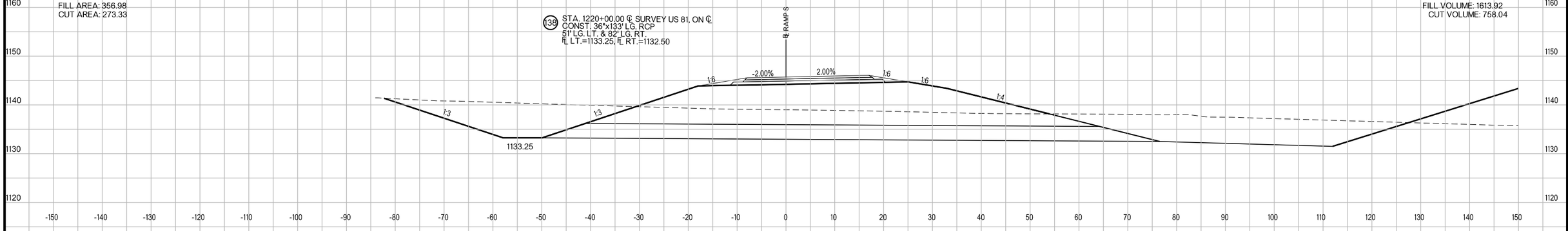


1220+00.00
FG=1145.72

FILL AREA: 356.98
CUT AREA: 273.33

FILL VOLUME: 1613.92
CUT VOLUME: 758.04

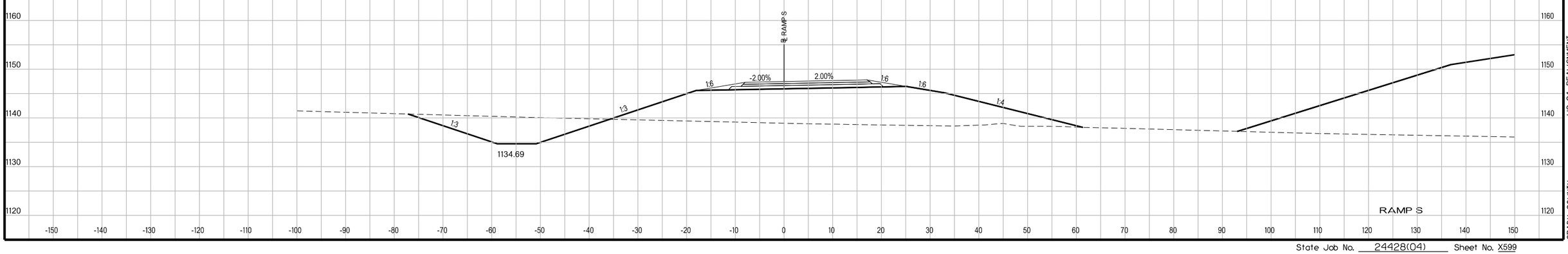
(138) STA. 1220+00.00 ℄ SURVEY US 81, ON ℄
CONST. 36"x133' LG. RCP
51' LG. LT. & 82' LG. RT.
℄ LT.=1133.25, ℄ RT.=1132.50



1219+00.00
FG=1147.47

FILL AREA: 514.53
CUT AREA: 136.01

FILL VOLUME: 2110.30
CUT VOLUME: 411.22



RAMP S

US-81 REALIGNMENT
GRADY COUNTY

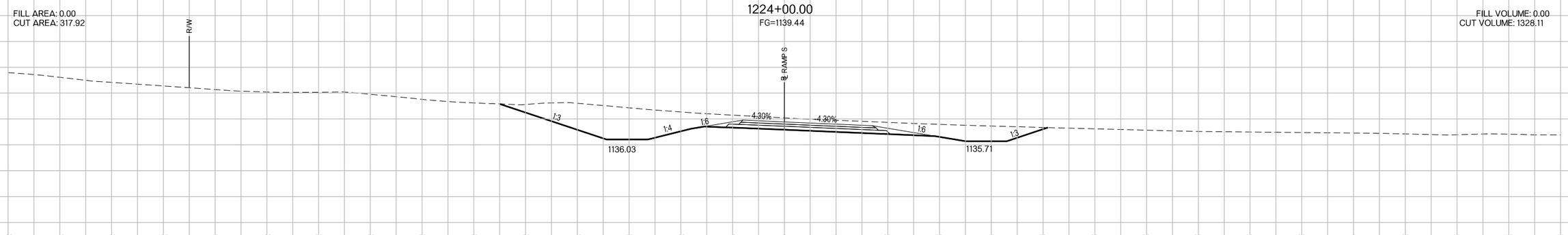
State Job No. 24428(04) Sheet No. X599

PROPOSED
R/W
AUGUST 2017

1224+00.00
FG=1139.44

FILL AREA: 0.00
CUT AREA: 317.92

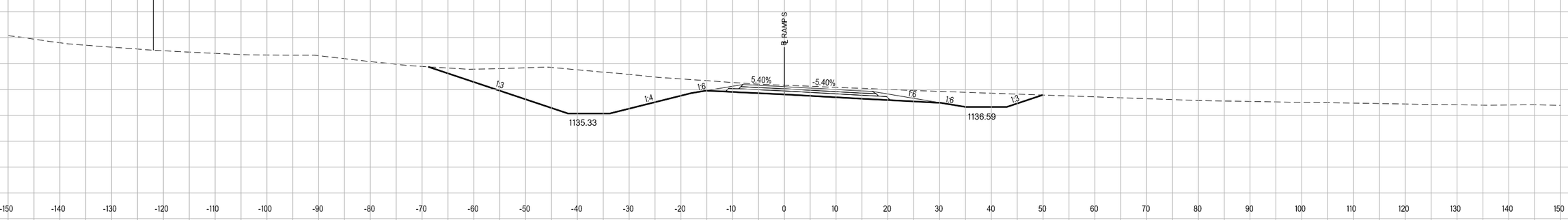
FILL VOLUME: 0.00
CUT VOLUME: 1328.11



1223+00.00
FG=1140.51

FILL AREA: 0.00
CUT AREA: 399.27

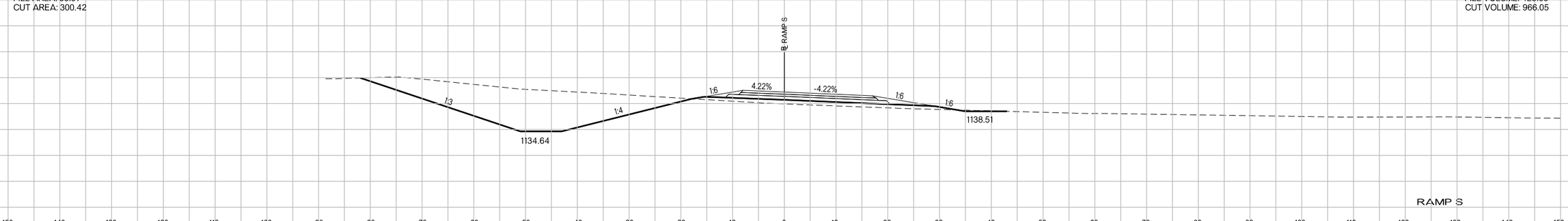
FILL VOLUME: 62.79
CUT VOLUME: 1295.72



1222+00.00
FG=1142.23

FILL AREA: 33.91
CUT AREA: 300.42

FILL VOLUME: 425.65
CUT VOLUME: 966.05



RAMP S

US-81 REALIGNMENT
GRADY COUNTY

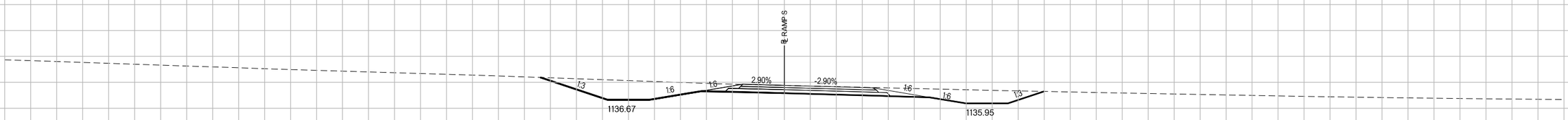
State Job No. 24428(04) Sheet No. X600

PROPOSED
R/W
AUGUST 2017

FILL AREA: 0.00
CUT AREA: 190.58

1225+39.61
FG=1139.44

FILL VOLUME: 0.00
CUT VOLUME: 318.56

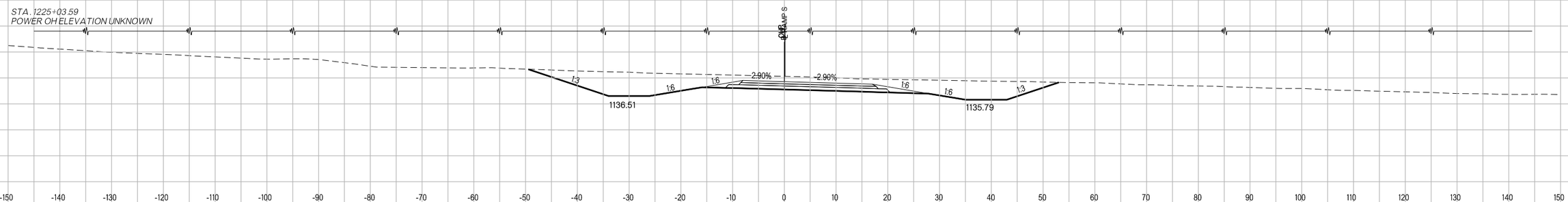


FILL AREA: 0.00
CUT AREA: 287.01

1225+03.59
FG=1139.28

FILL VOLUME: 0.00
CUT VOLUME: 38.82

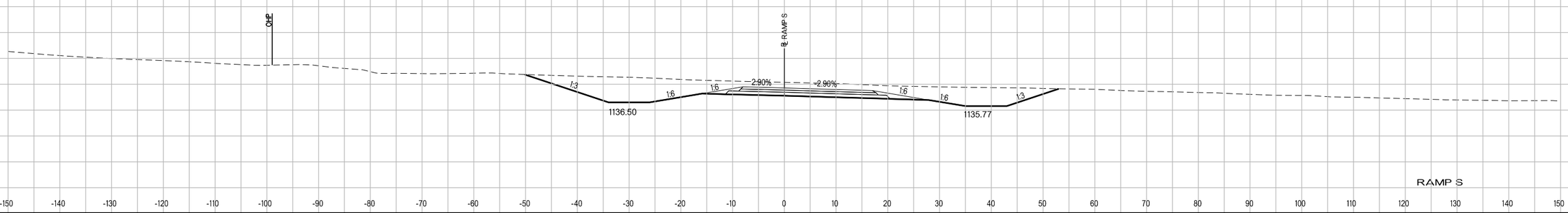
STA. 1225+03.59
POWER OH ELEVATION UNKNOWN



FILL AREA: 0.00
CUT AREA: 296.94

1225+00.00
FG=1139.27

FILL VOLUME: 0.00
CUT VOLUME: 1138.63



RAMP S

US-81 REALIGNMENT
GRADY COUNTY

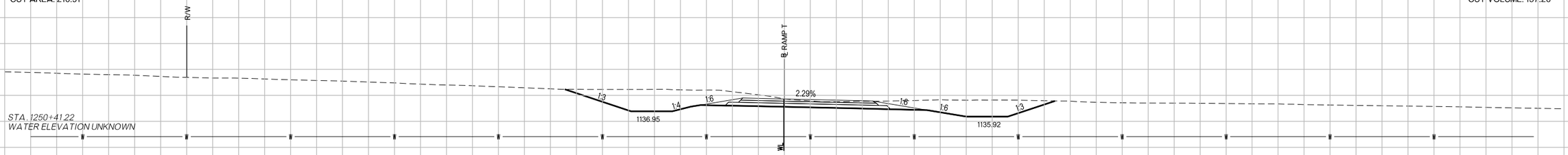
State Job No. 24428(04) Sheet No. X601

PROPOSED
R/W
AUGUST 2017

1250+41.22
FG=1139.31

FILL AREA: 0.00
CUT AREA: 216.91

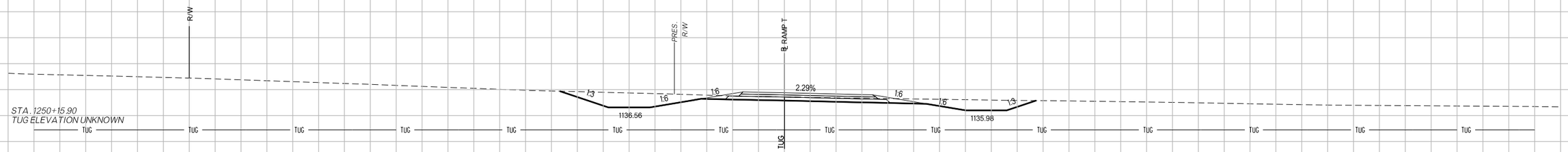
FILL VOLUME: 0.00
CUT VOLUME: 157.26



1250+15.90
FG=1139.37

FILL AREA: 0.00
CUT AREA: 118.48

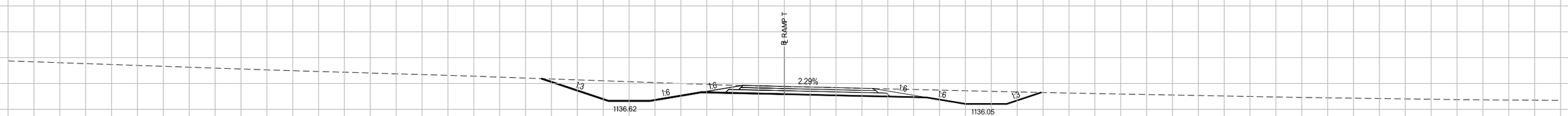
FILL VOLUME: 0.00
CUT VOLUME: 90.32



1250+00.00
FG=1139.44

FILL AREA: 0.00
CUT AREA: 188.25

FILL VOLUME: 0.00
CUT VOLUME: 0.00



RAMP T

US-81 REALIGNMENT
GRADY COUNTY

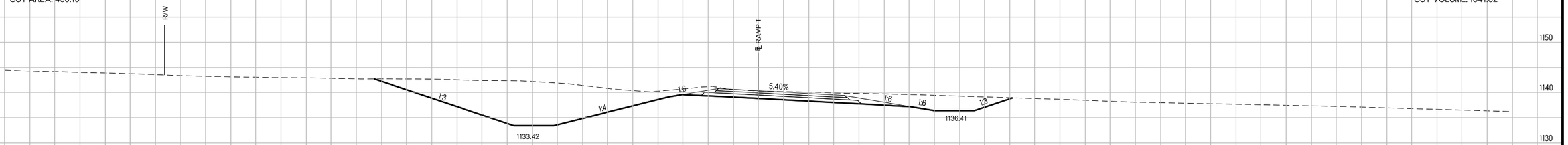
State Job No. 24428(04) Sheet No. X602

PROPOSED
R/W
AUGUST 2017

1252+00.00
FG=1140.33

FILL AREA: 0.00
CUT AREA: 430.15

FILL VOLUME: 0.00
CUT VOLUME: 1841.82



1251+00.00
FG=1139.41

(141) STA. 1251+00.00
CONST. 2-36"x87' LG. RCP
38' LG. LT. & 49' LG. RT.
fL LT.=1133.00, fL RT.=1132.50

FILL AREA: 0.00
CUT AREA: 564.43

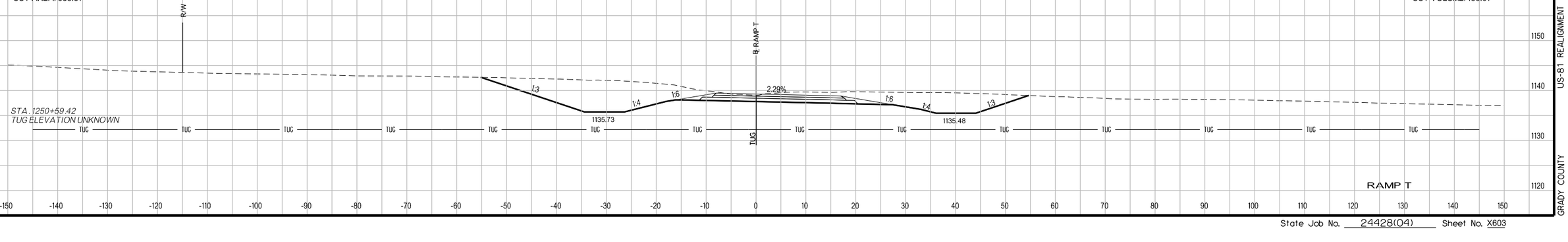
FILL VOLUME: 0.00
CUT VOLUME: 675.01

1250+59.42
FG=1139.31

FILL AREA: 0.00
CUT AREA: 333.81

FILL VOLUME: 0.00
CUT VOLUME: 185.61

STA. 1250+59.42
TUG ELEVATION UNKNOWN



RAMP T

US-81 REALIGNMENT
GRADY COUNTY

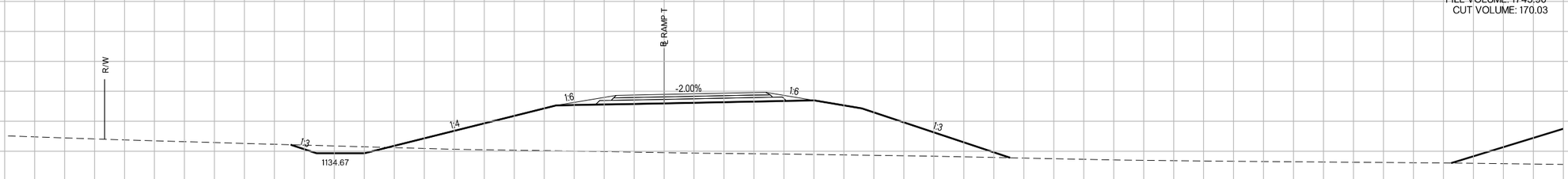
State Job No. 24428(04) Sheet No. X603

PROPOSED
R/W
AUGUST 2017

1255+00.00
FG=1144.49

FILL AREA: 628.26
CUT AREA: 14.55

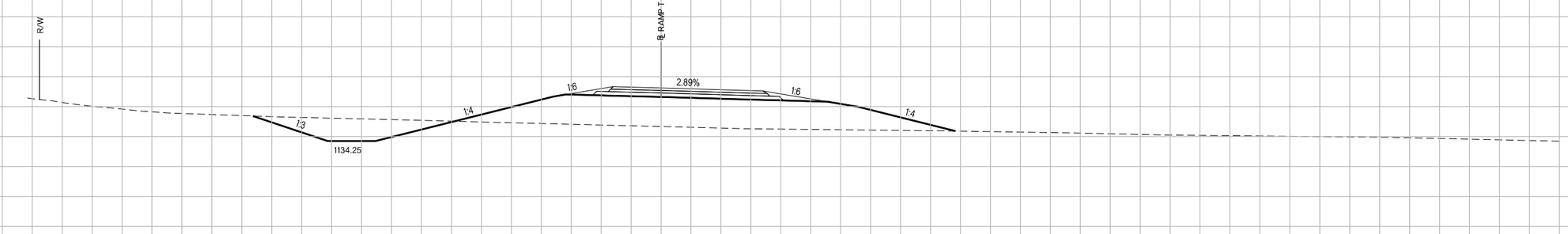
FILL VOLUME: 1743.90
CUT VOLUME: 170.03



1254+00.00
FG=1143.10

FILL AREA: 313.45
CUT AREA: 77.26

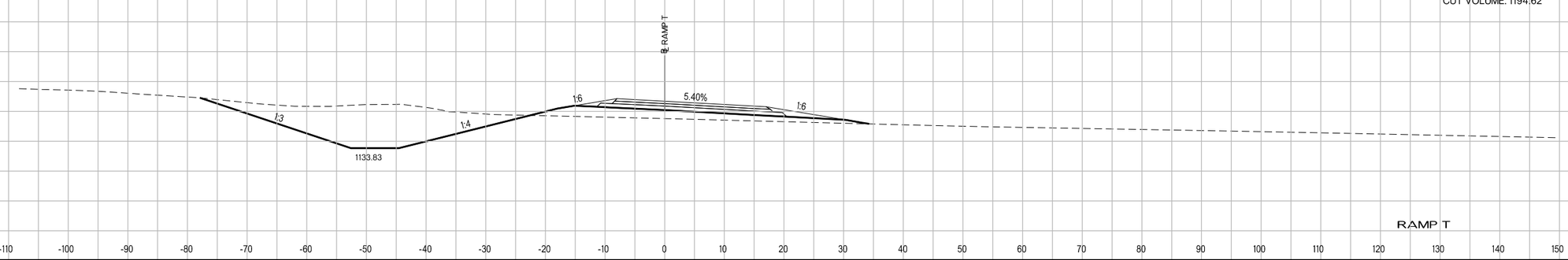
FILL VOLUME: 696.08
CUT VOLUME: 541.12



1253+00.00
FG=1141.71

FILL AREA: 62.44
CUT AREA: 214.94

FILL VOLUME: 115.63
CUT VOLUME: 1194.62



RAMP T

US-81 REALIGNMENT
GRADY COUNTY

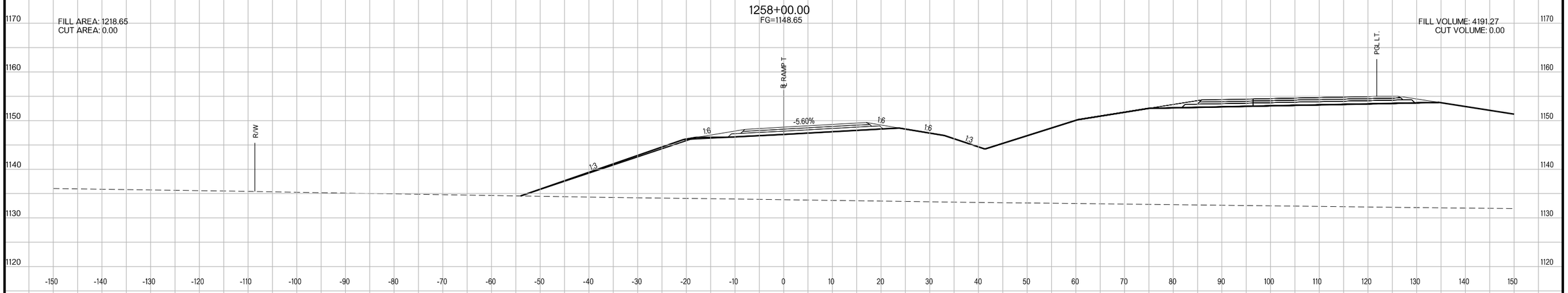
State Job No. 24428(04) Sheet No. X604

PROPOSED
R/W
AUGUST 2017

1258+00.00
FG=1148.65

FILL AREA: 1218.65
CUT AREA: 0.00

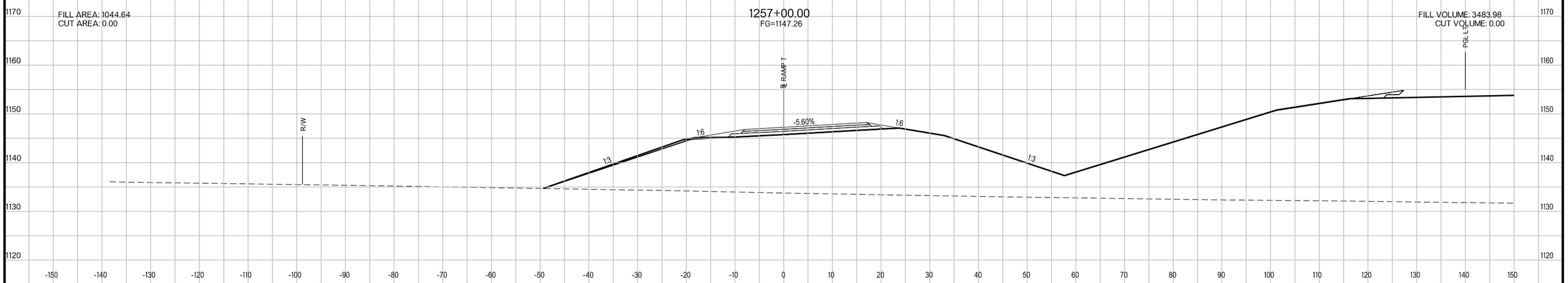
FILL VOLUME: 4191.27
CUT VOLUME: 0.00



1257+00.00
FG=1147.26

FILL AREA: 1044.64
CUT AREA: 0.00

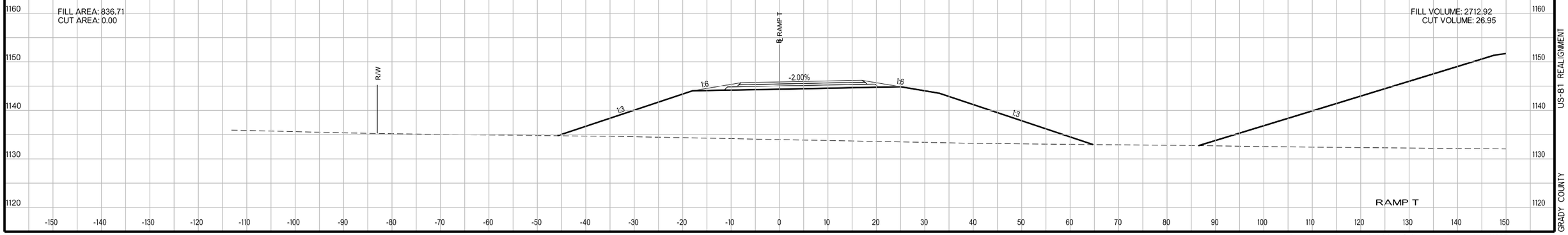
FILL VOLUME: 3483.98
CUT VOLUME: 0.00



1256+00.00
FG=1145.87

FILL AREA: 836.71
CUT AREA: 0.00

FILL VOLUME: 2712.92
CUT VOLUME: 26.95



RAMP T

US-81 REALIGNMENT
GRADY COUNTY

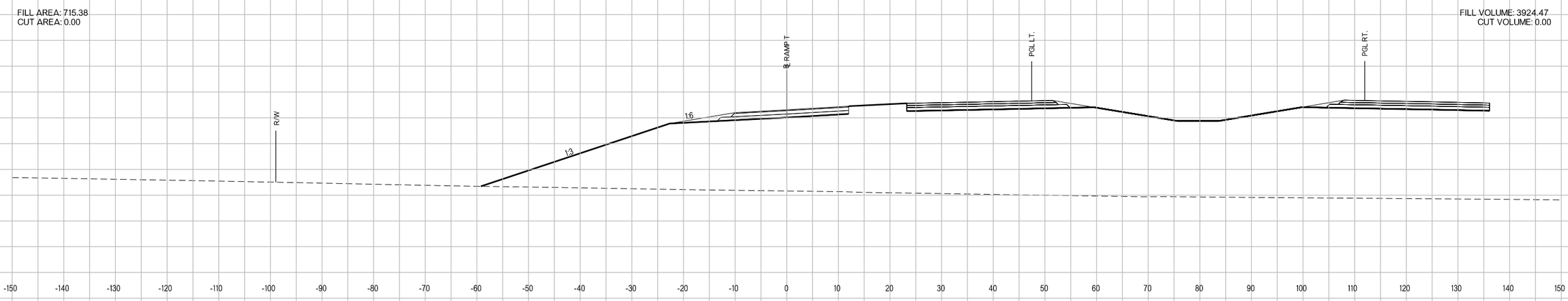
State Job No. 24428(04) Sheet No. X605

PROPOSED
R/W
AUGUST 2017

1261+00.00
FG=1151.56

FILL AREA: 715.38
CUT AREA: 0.00

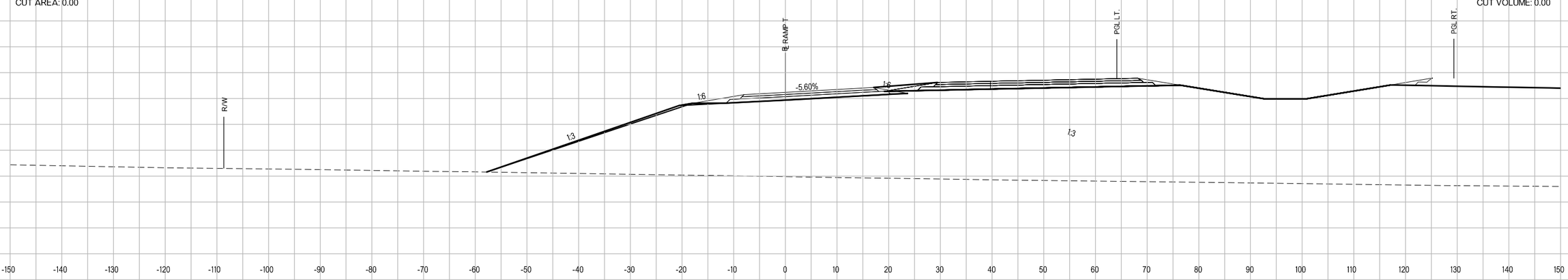
FILL VOLUME: 3924.47
CUT VOLUME: 0.00



1260+00.00
FG=1151.18

FILL AREA: 1403.83
CUT AREA: 0.00

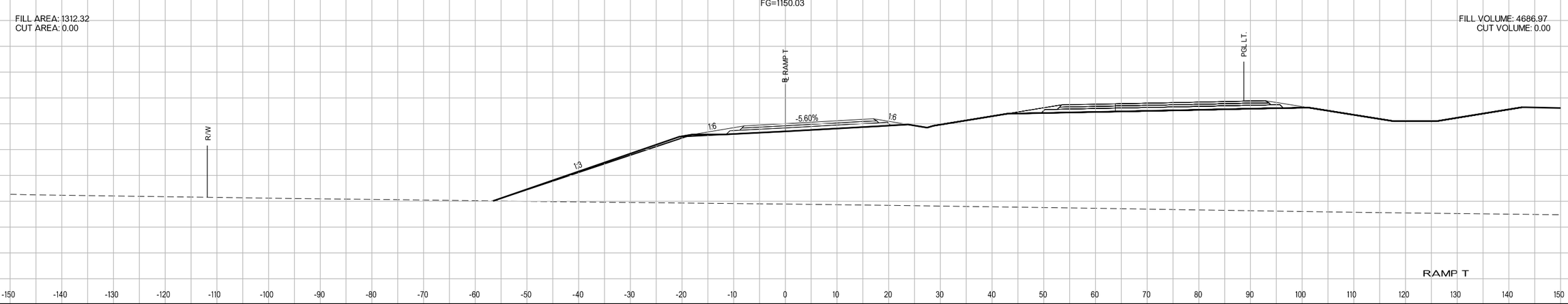
FILL VOLUME: 5029.91
CUT VOLUME: 0.00



1259+00.00
FG=1150.03

FILL AREA: 1312.32
CUT AREA: 0.00

FILL VOLUME: 4686.97
CUT VOLUME: 0.00



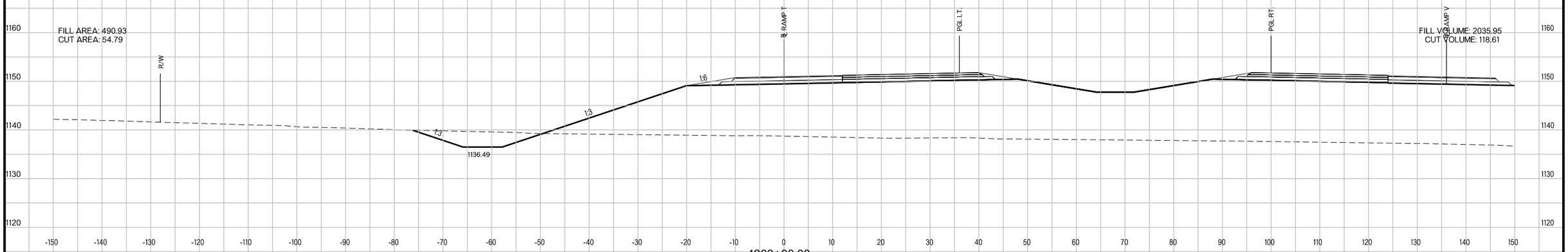
RAMP T

US-81 REALIGNMENT
GRADY COUNTY

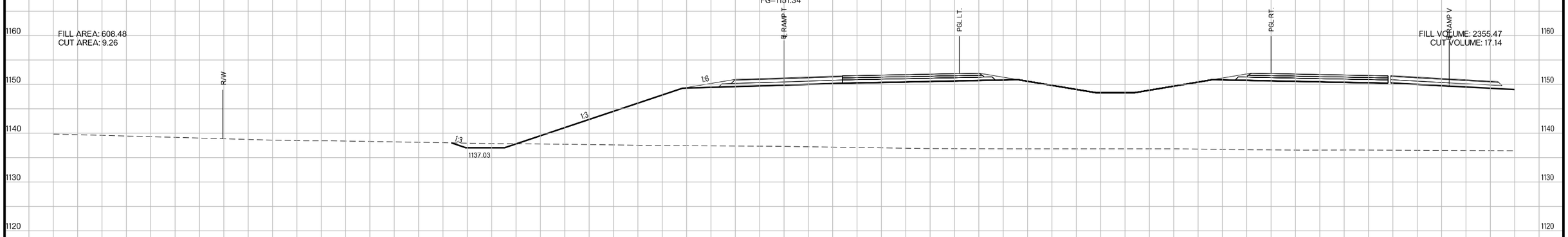
State Job No. 24428(04) Sheet No. X606

PROPOSED
R/W
AUGUST 2017

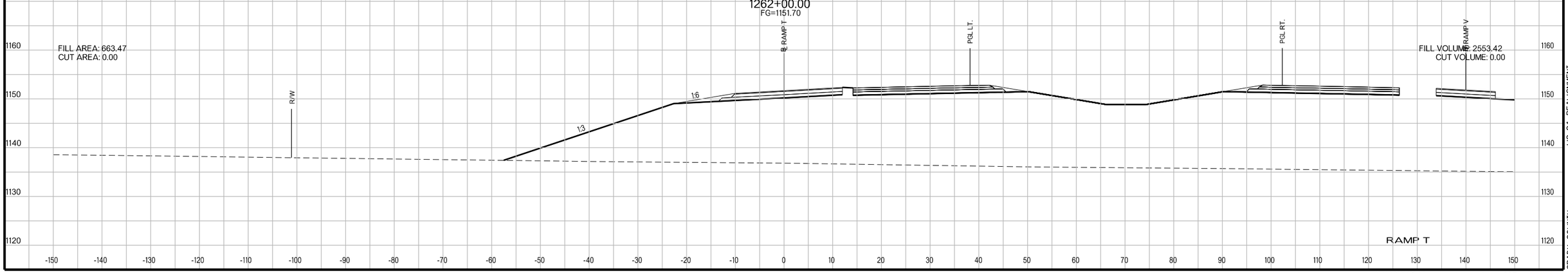
1264+00.00
FG=1150.97



1263+00.00
FG=1151.34



1262+00.00
FG=1151.70

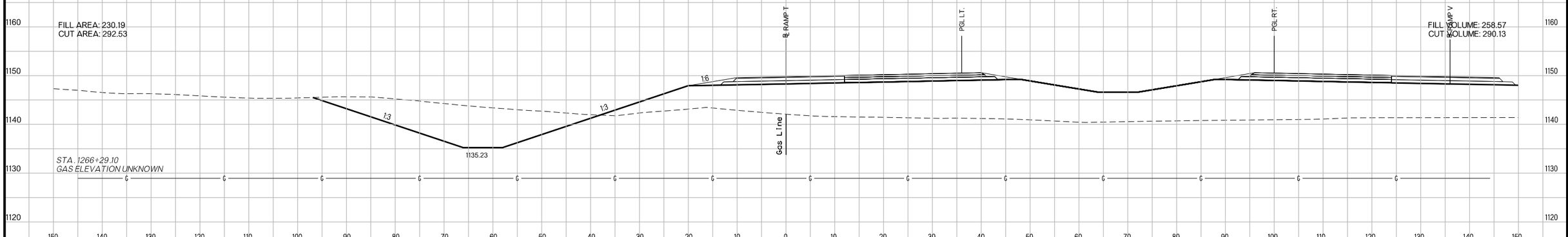


US-81 REALIGNMENT
GRADY COUNTY

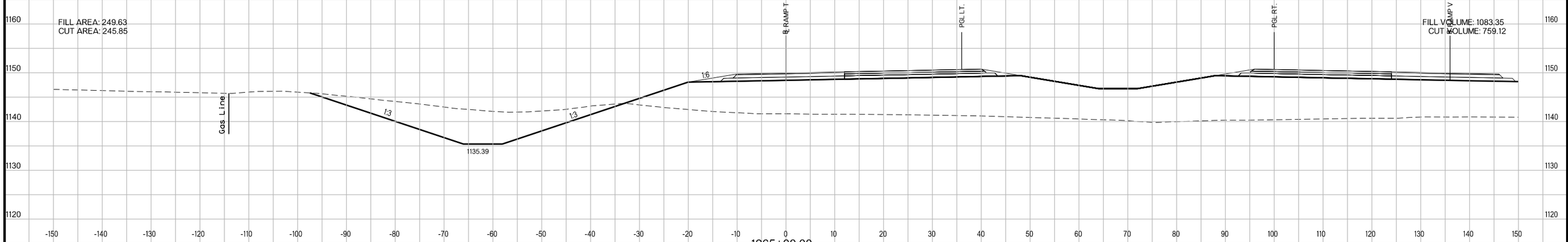
State Job No. 24428(04) Sheet No. X607

PROPOSED
R/W
AUGUST 2017

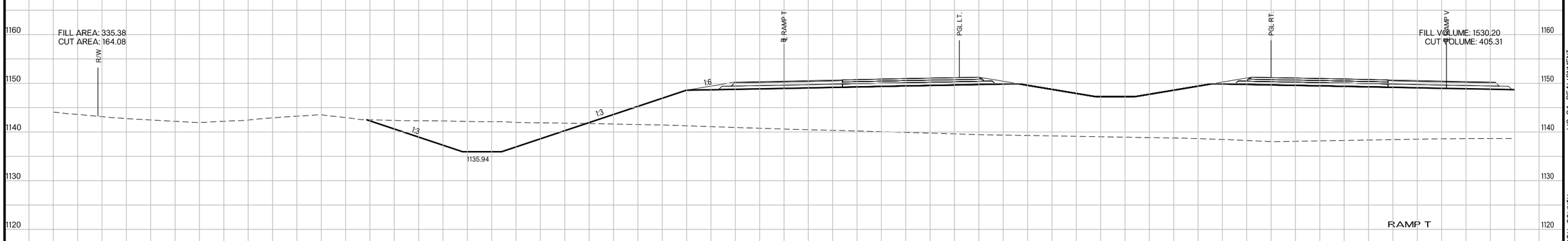
1266+29.10
FG=1149.79



1266+00.00
FG=1149.94



1265+00.00
FG=1150.46



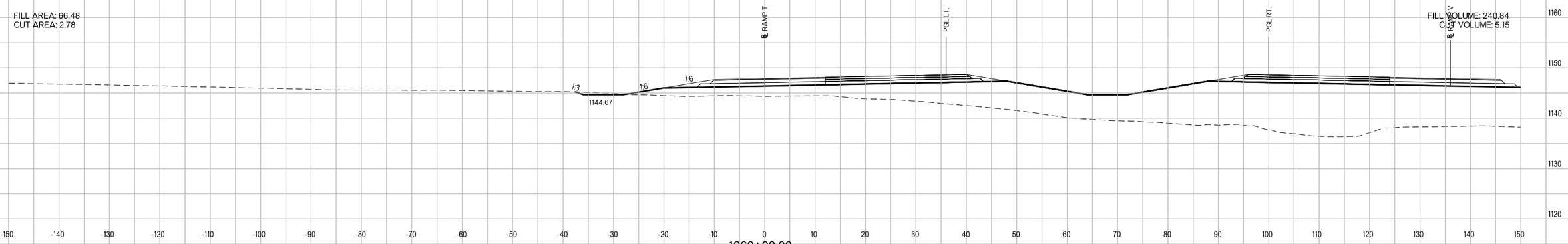
RAMP T

US-81 REALIGNMENT
GRADY COUNTY

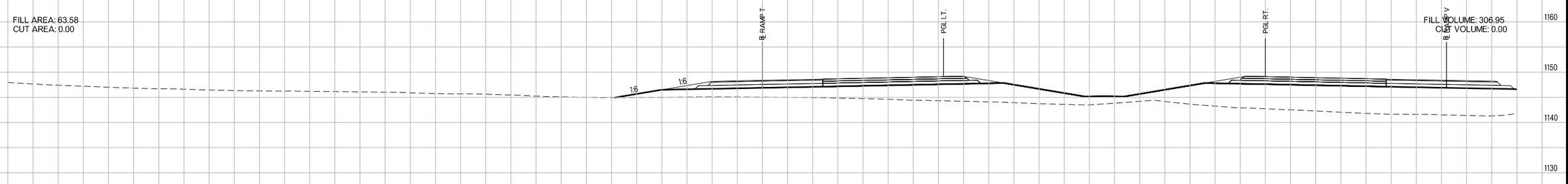
State Job No. 24428(04) Sheet No. X608

PROPOSED
R/W
AUGUST 2017

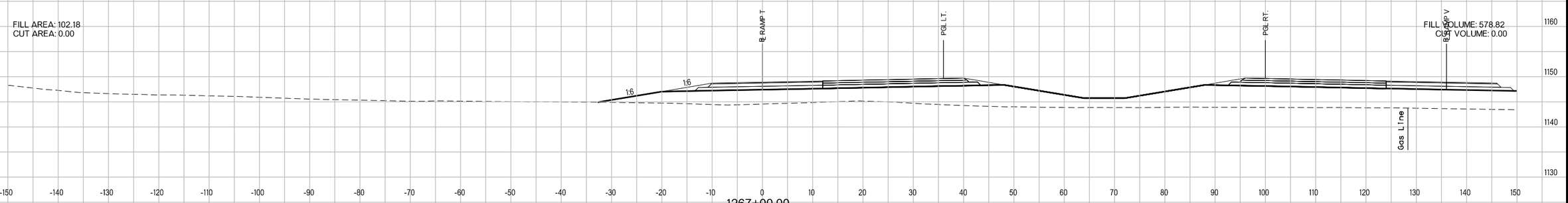
1270+00.00
FG=1147.87



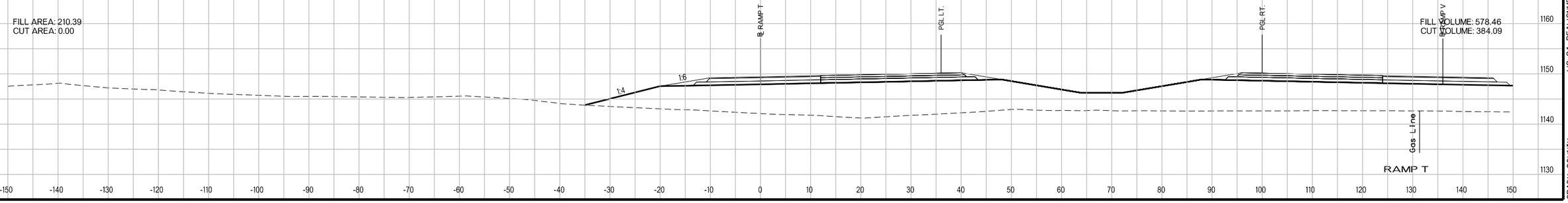
1269+00.00
FG=1148.38



1268+00.00
FG=1148.90



1267+00.00
FG=1149.42



US-81 REALIGNMENT
GRADY COUNTY

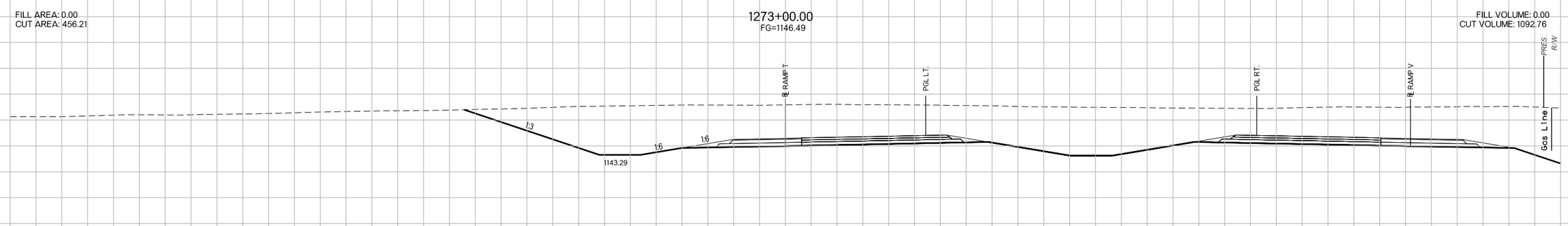
State Job No. 24428(04) Sheet No. X609

PROPOSED
R/W
AUGUST 2017

FILL AREA: 0.00
CUT AREA: 456.21

1273+00.00
FG=1146.49

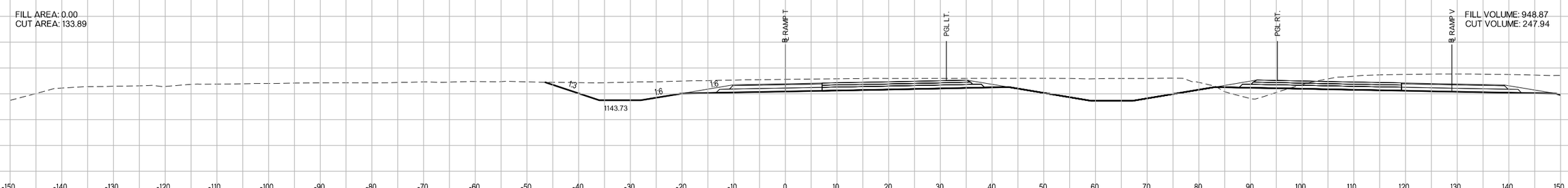
FILL VOLUME: 0.00
CUT VOLUME: 1092.76



1272+00.00
FG=1146.93

FILL AREA: 0.00
CUT AREA: 133.89

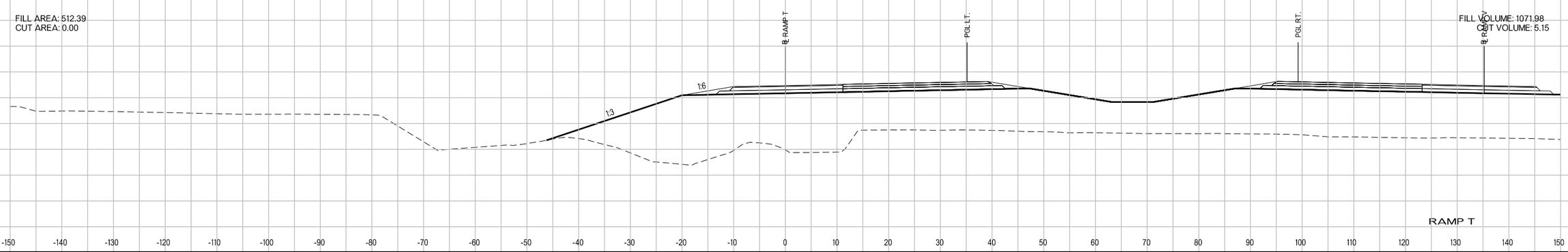
FILL VOLUME: 948.87
CUT VOLUME: 247.94



1271+00.00
FG=1147.36

FILL AREA: 512.39
CUT AREA: 0.00

FILL VOLUME: 1071.98
CUT VOLUME: 5.15



RAMP T

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X610

PROPOSED
R/W
AUGUST 2017

FILL AREA: 0.00
CUT AREA: 0.00

FILL VOLUME: 0.00
CUT VOLUME: 662.55

1273+78.42

PGL LT.
PGL RT.
℄ RAMP Y
PROP. R/W
Gas Line

RAMP T

1170
1160
1150
1140
1130
1120

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

US-81 REALIGNMENT
GRADY COUNTY

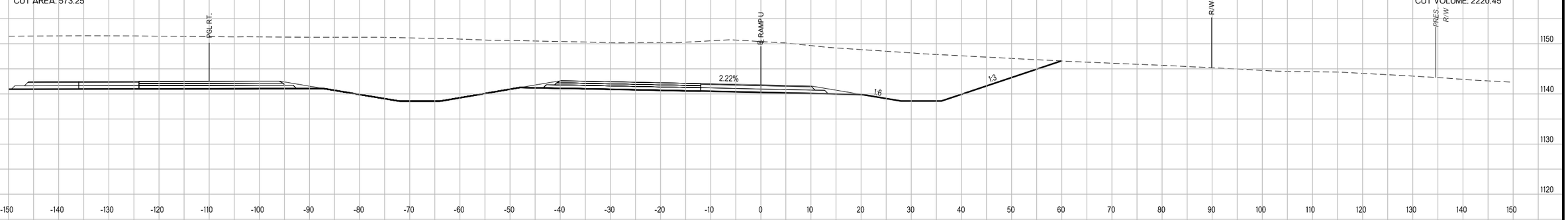
State Job No. 24428(04) Sheet No. X611

PROPOSED
R/W
AUGUST 2017

1300+00.00

FILL AREA: 0.00
CUT AREA: 573.25

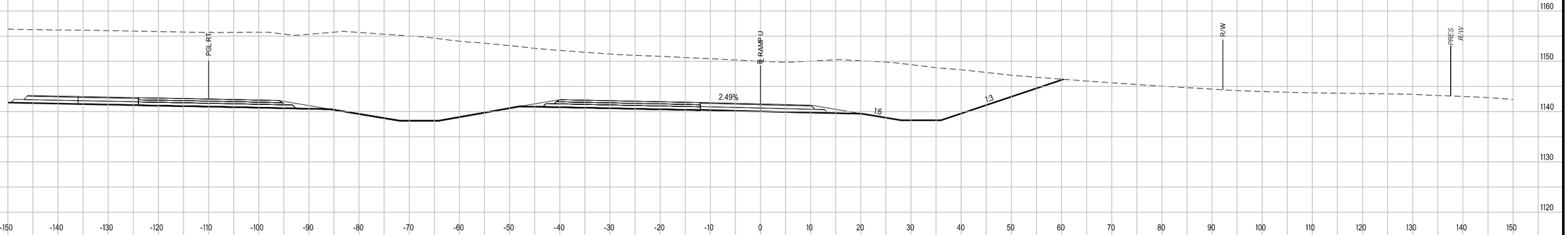
FILL VOLUME: 0.00
CUT VOLUME: 2220.45



1299+00.00

FILL AREA: 0.00
CUT AREA: 625.79

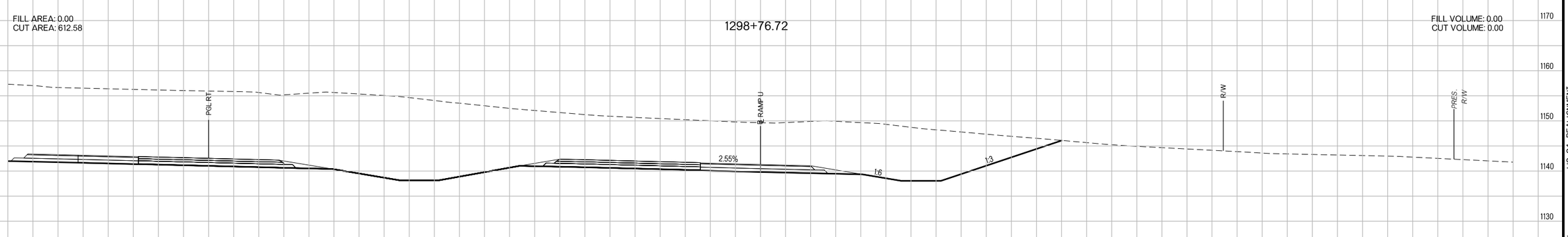
FILL VOLUME: 0.00
CUT VOLUME: 533.87



1298+76.72

FILL AREA: 0.00
CUT AREA: 612.58

FILL VOLUME: 0.00
CUT VOLUME: 0.00



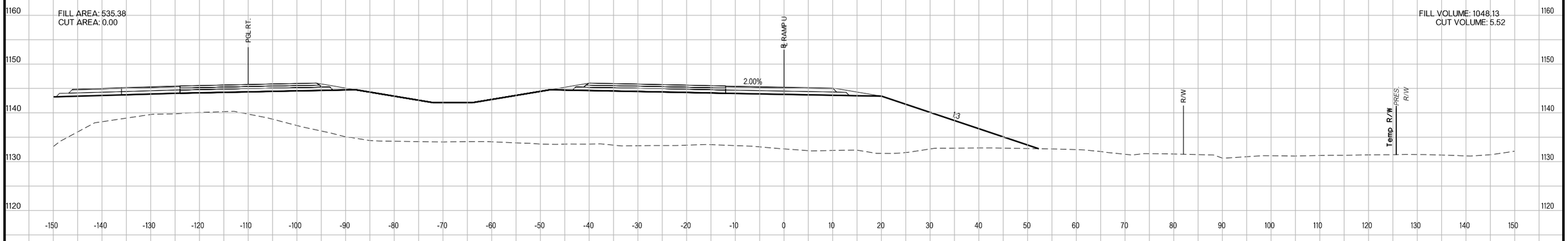
RAMP U

US-81 REALIGNMENT
GRADY COUNTY

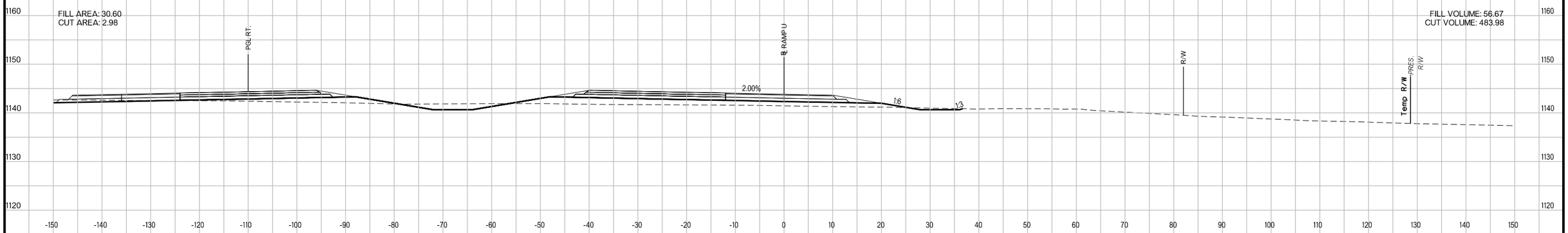
State Job No. 24428(04) Sheet No. X612

PROPOSED
R/W
AUGUST 2017

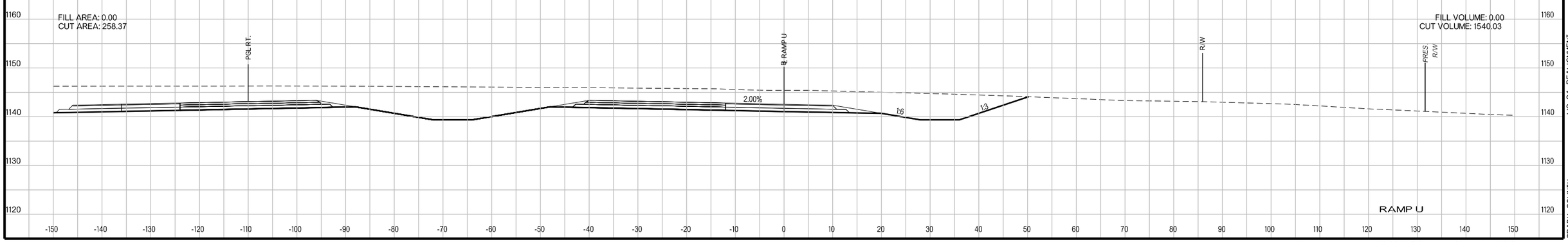
1303+00.00



1302+00.00



1301+00.00

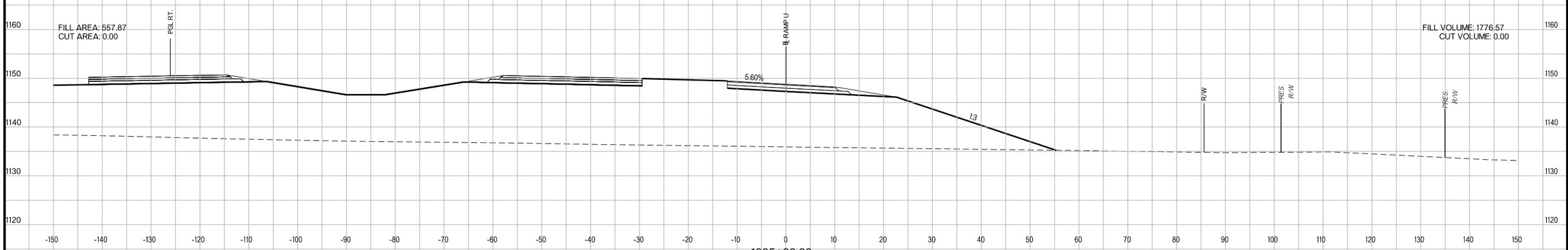


US-81 REALIGNMENT
GRADY COUNTY

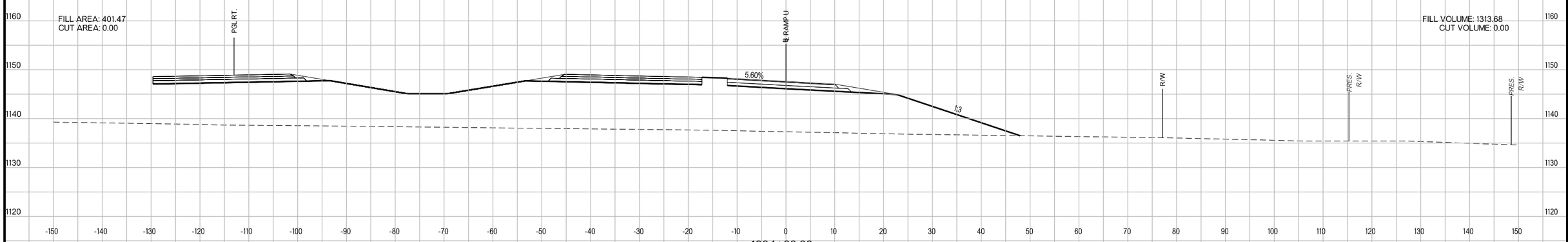
State Job No. 24428(04) Sheet No. X613

PROPOSED
R/W
AUGUST 2017

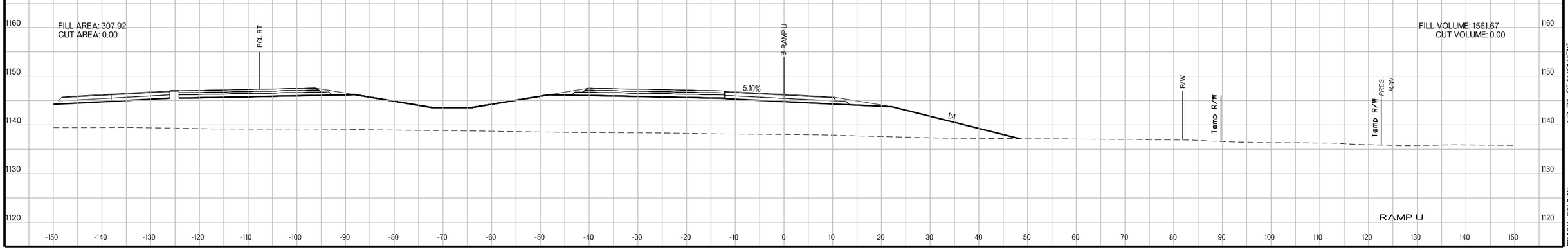
1306+00.00



1305+00.00



1304+00.00



US-81 REALIGNMENT
GRADY COUNTY

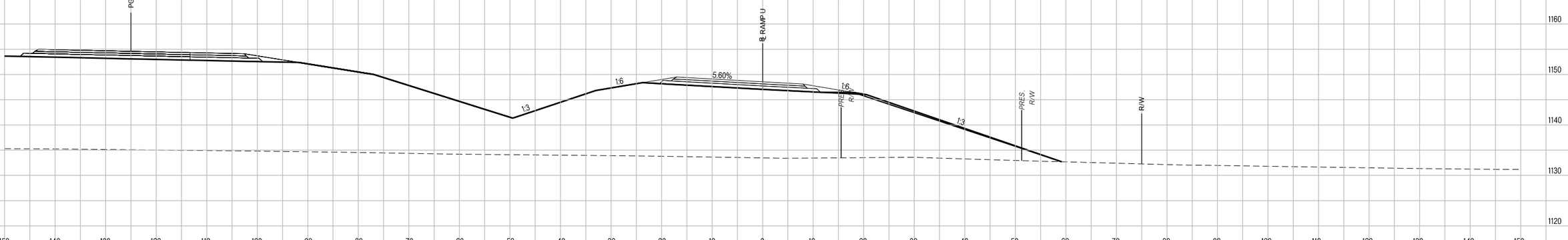
State Job No. 24428(04) Sheet No. X614

PROPOSED
R/W
AUGUST 2017

1309+00.00

FILL AREA: 1197.88
CUT AREA: 0.00

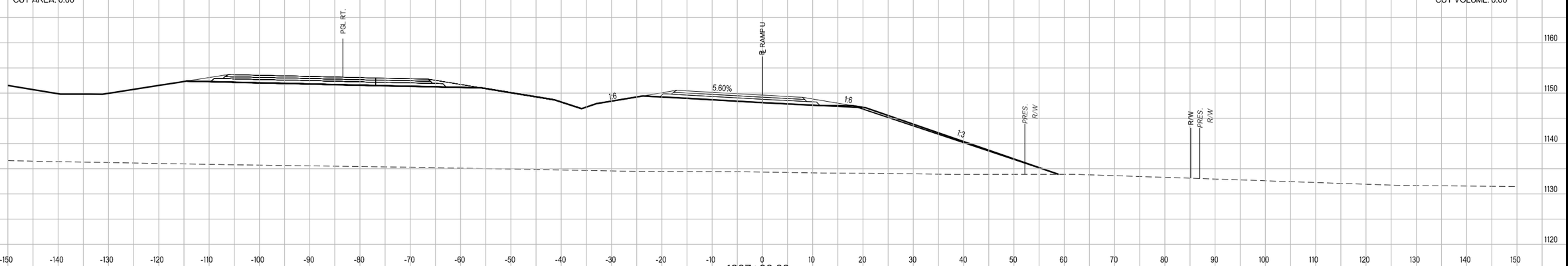
FILL VOLUME: 4516.31
CUT VOLUME: 0.00



1308+00.00

FILL AREA: 1240.92
CUT AREA: 0.00

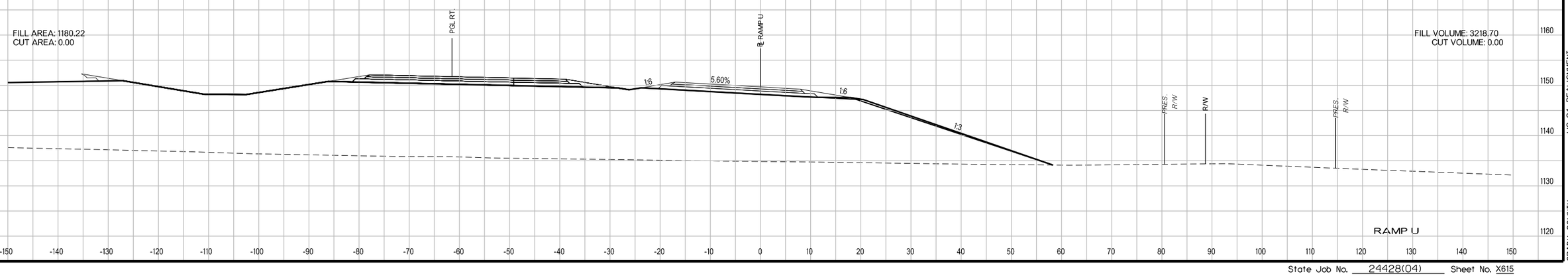
FILL VOLUME: 4483.61
CUT VOLUME: 0.00



1307+00.00

FILL AREA: 1180.22
CUT AREA: 0.00

FILL VOLUME: 3218.70
CUT VOLUME: 0.00



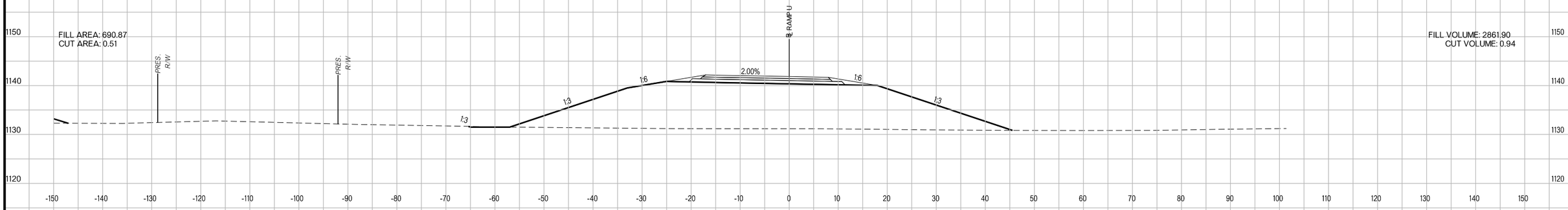
RAMP U

US-81 REALIGNMENT
GRADY COUNTY

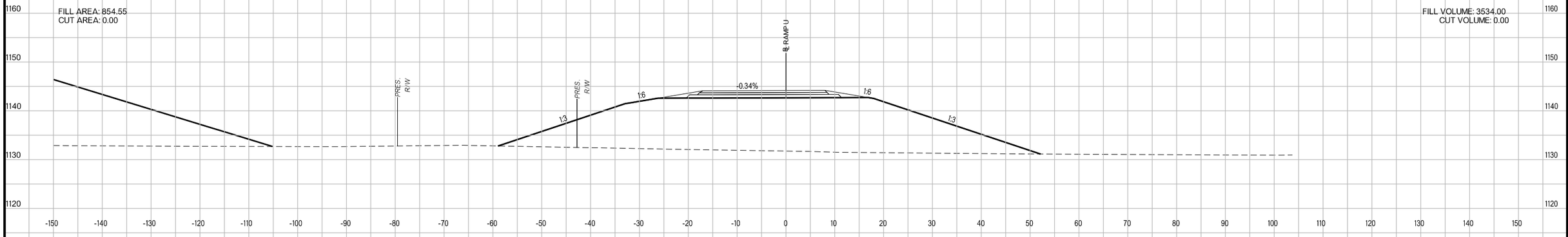
State Job No. 24428(04) Sheet No. X615

PROPOSED
R/W
AUGUST 2017

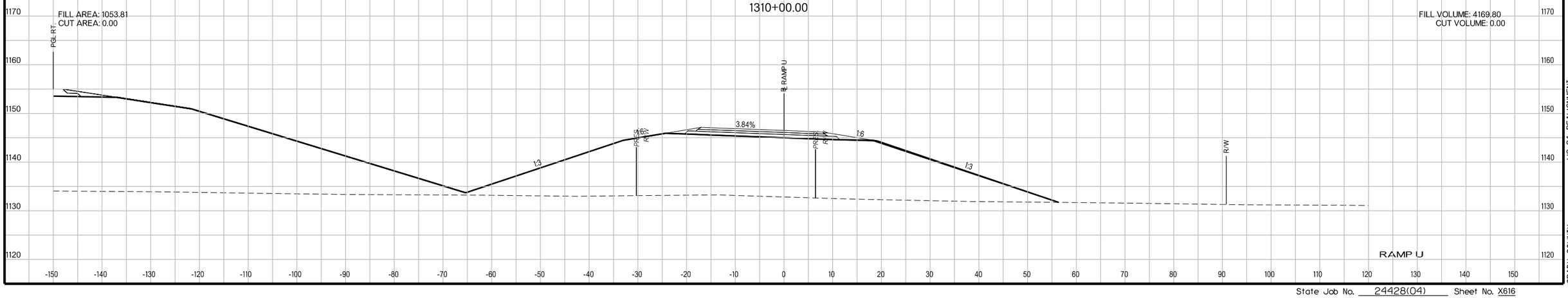
1312+00.00



1311+00.00



1310+00.00



RAMP U

US-81 REALIGNMENT
GRADY COUNTY

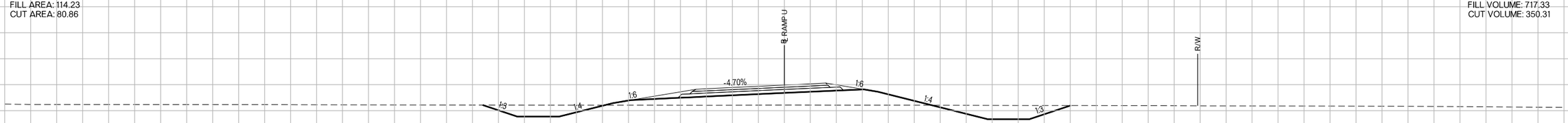
State Job No. 24428(04) Sheet No. X616

PROPOSED
R/W
AUGUST 2017

1315+00.00

FILL AREA: 114.23
CUT AREA: 80.86

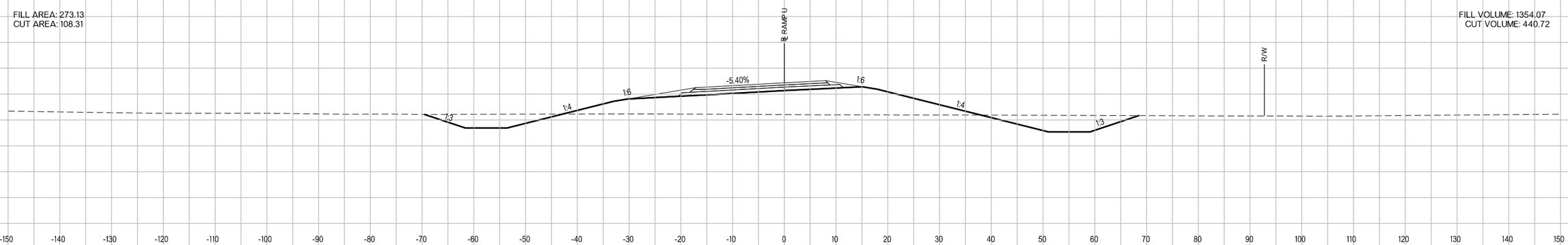
FILL VOLUME: 717.33
CUT VOLUME: 350.31



1314+00.00

FILL AREA: 273.13
CUT AREA: 108.31

FILL VOLUME: 1354.07
CUT VOLUME: 440.72



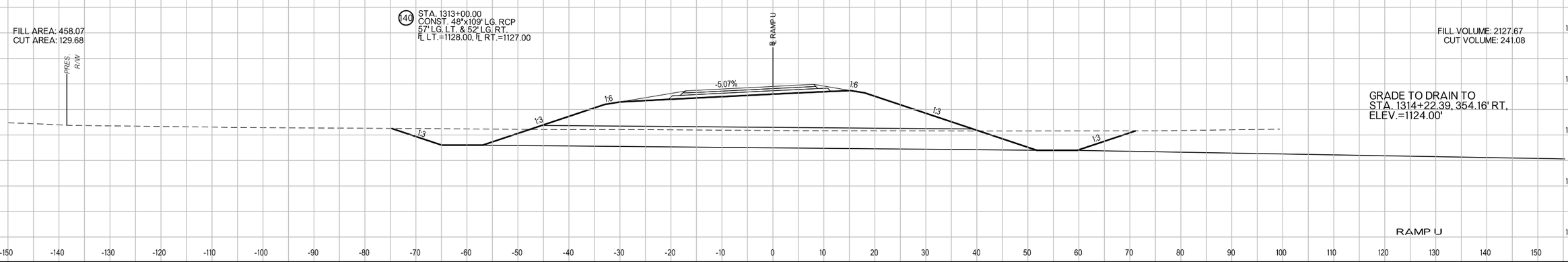
1313+00.00

(140) STA. 1313+00.00
CONST. 48"x109' LG. RCP
57' LG. LT. & 52' LG. RT.
FL LT.=1128.00, FL RT.=1127.00

FILL AREA: 458.07
CUT AREA: 129.68

FILL VOLUME: 2127.67
CUT VOLUME: 241.08

GRADE TO DRAIN TO
STA. 1314+22.39, 354.16' RT.
ELEV.=1124.00'



RAMP U

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X617

PROPOSED
R/W
AUGUST 2017

1316+65.91

FILL AREA: 0.00
CUT AREA: 0.00

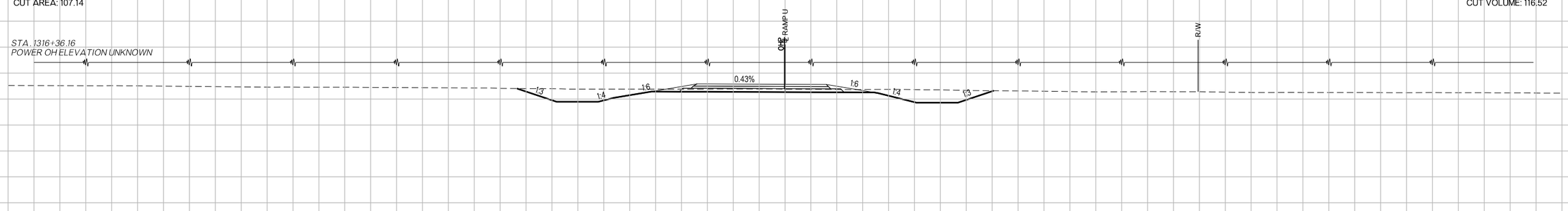
FILL VOLUME: 1528.13
CUT VOLUME: 59.03

1316+36.16

FILL AREA: 2773.47
CUT AREA: 107.14

FILL VOLUME: 1871.32
CUT VOLUME: 116.52

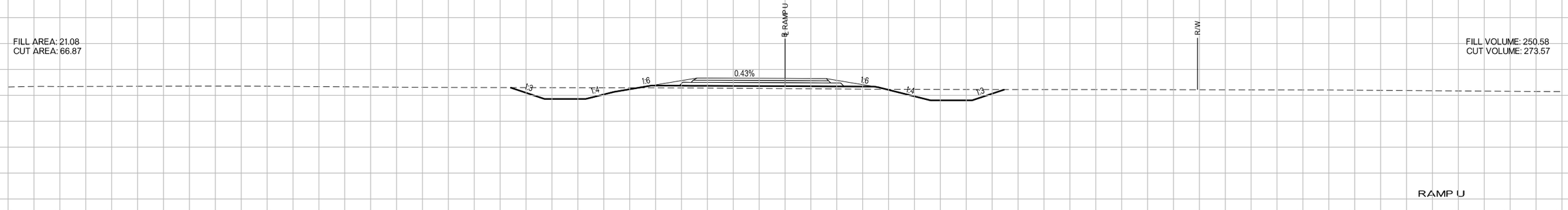
STA. 1316+36.16
POWER OH ELEVATION UNKNOWN



1316+00.00

FILL AREA: 21.08
CUT AREA: 66.87

FILL VOLUME: 250.58
CUT VOLUME: 273.57



RAMP U

US-81 REALIGNMENT
GRADY COUNTY

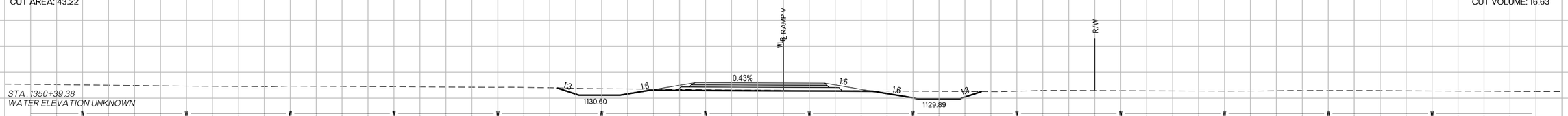
State Job No. 24428(04) Sheet No. X618

PROPOSED
R/W
AUGUST 2017

1350+39.38
FG=1132.92

FILL AREA: 0.00
CUT AREA: 43.22

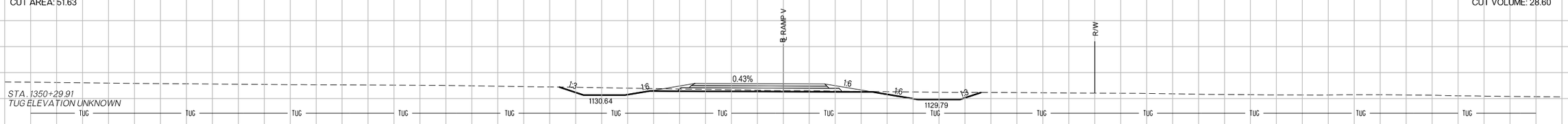
FILL VOLUME: 0.00
CUT VOLUME: 16.63



1350+29.91
FG=1132.83

FILL AREA: 0.00
CUT AREA: 51.63

FILL VOLUME: 0.00
CUT VOLUME: 28.60



1350+00.00

FILL AREA: 0.00
CUT AREA: 0.00

FILL VOLUME: 0.00
CUT VOLUME: 0.00

RAMP V

US-81 REALIGNMENT
GRADY COUNTY

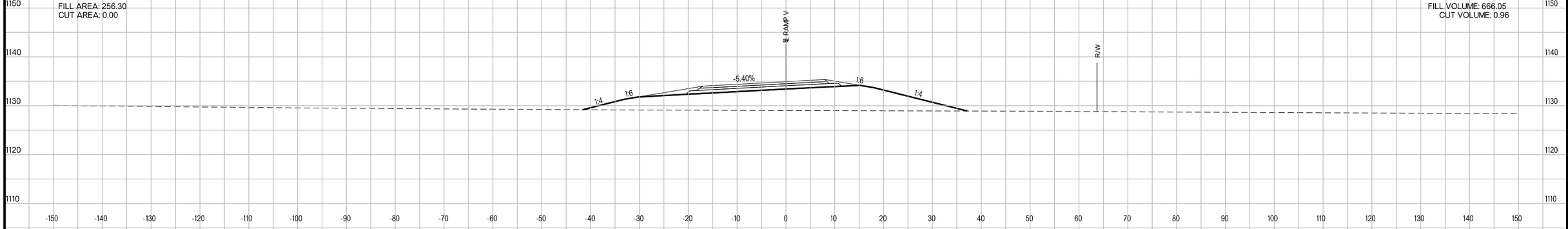
State Job No. 24428(04) Sheet No. X619

PROPOSED
R/W
AUGUST 2017

1352+00.00
FG=1134.94

FILL AREA: 256.30
CUT AREA: 0.00

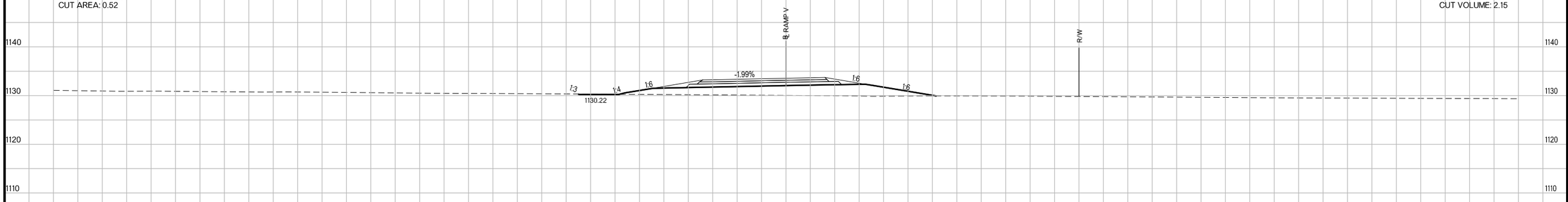
FILL VOLUME: 666.05
CUT VOLUME: 0.96



1351+00.00
FG=1133.55

FILL AREA: 103.37
CUT AREA: 0.52

FILL VOLUME: 91.51
CUT VOLUME: 2.15



1350+70.04
FG=1133.23

FILL AREA: 61.57
CUT AREA: 3.36

FILL VOLUME: 34.96
CUT VOLUME: 26.44

STA. 1350+70.04
TUG ELEVATION UNKNOWN

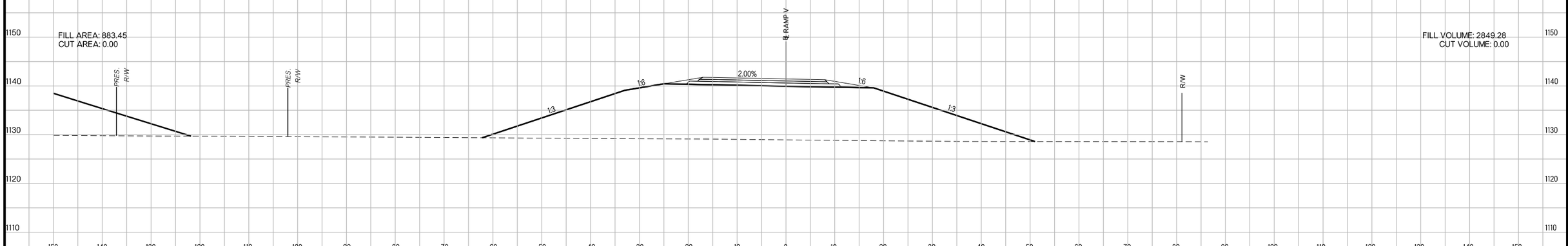
RAMP V

US-81 REALIGNMENT
GRADY COUNTY

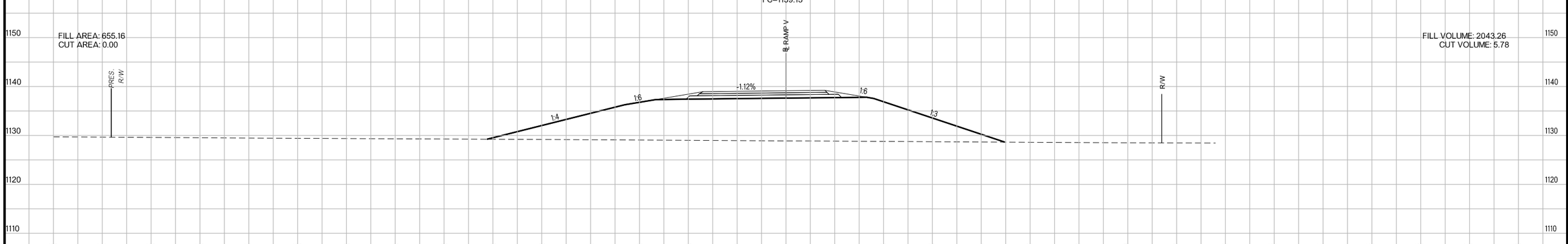
State Job No. 24428(04) Sheet No. X620

PROPOSED
R/W
AUGUST 2017

1355+00.00
FG=1141.44

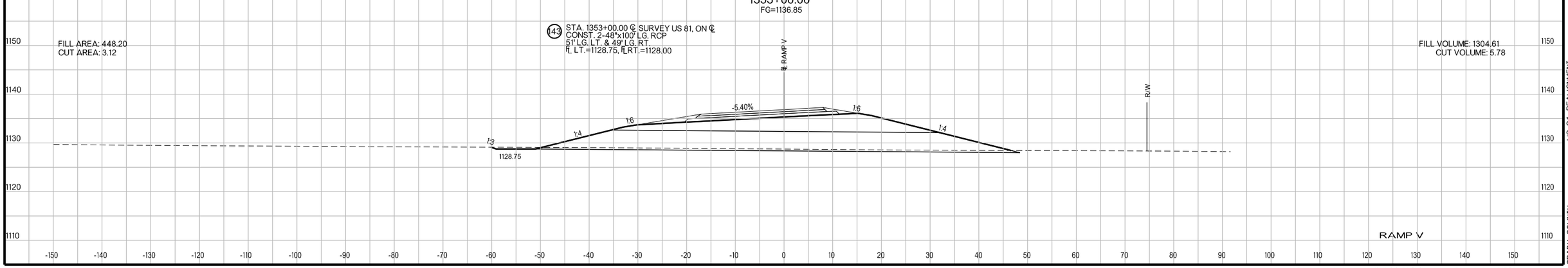


1354+00.00
FG=1139.13



1353+00.00
FG=1136.85

(14-3) STA. 1353+00.00 ℄ SURVEY US 81, ON ℄
CONST. 2-48"x100' LG. RCP
51' LG. LT. & 49' LG. RT.
fL LT.=1128.75, fLRT.=1128.00



RAMP V

US-81 REALIGNMENT
GRADY COUNTY

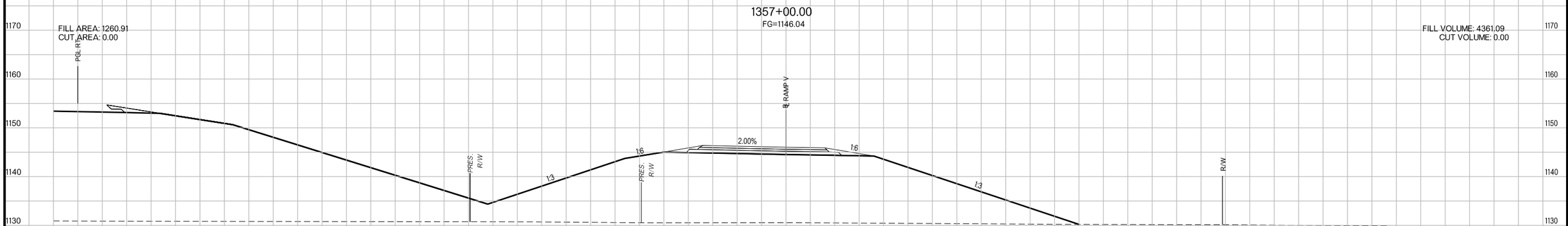
State Job No. 24428(04) Sheet No. X621

PROPOSED
R/W
AUGUST 2017

1357+00.00
FG=1146.04

FILL AREA: 1260.91
CUT AREA: 0.00

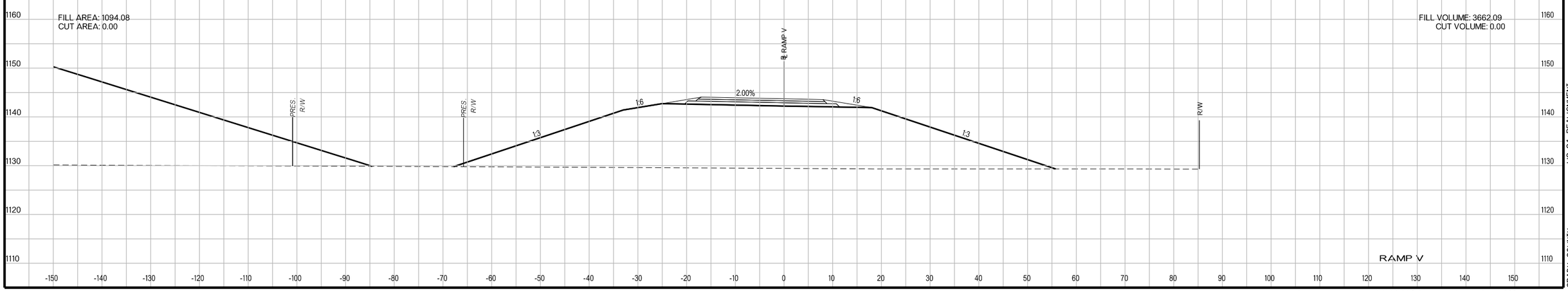
FILL VOLUME: 4361.09
CUT VOLUME: 0.00



1356+00.00
FG=1143.74

FILL AREA: 1094.08
CUT AREA: 0.00

FILL VOLUME: 3662.09
CUT VOLUME: 0.00



RAMP V

US-81 REALIGNMENT
GRADY COUNTY

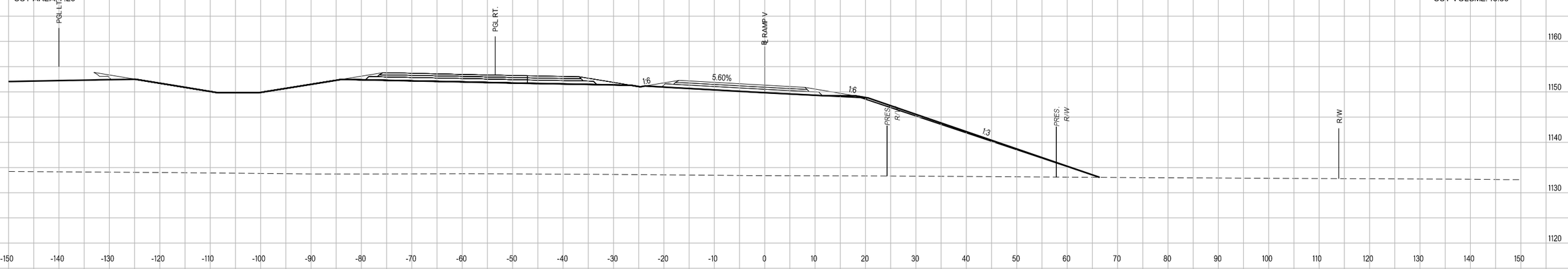
State Job No. 24428(04) Sheet No. X622

PROPOSED
R/W
AUGUST 2017

1360+00.00
FG=1151.32

FILL AREA: 1609.55
CUT AREA: 7.29

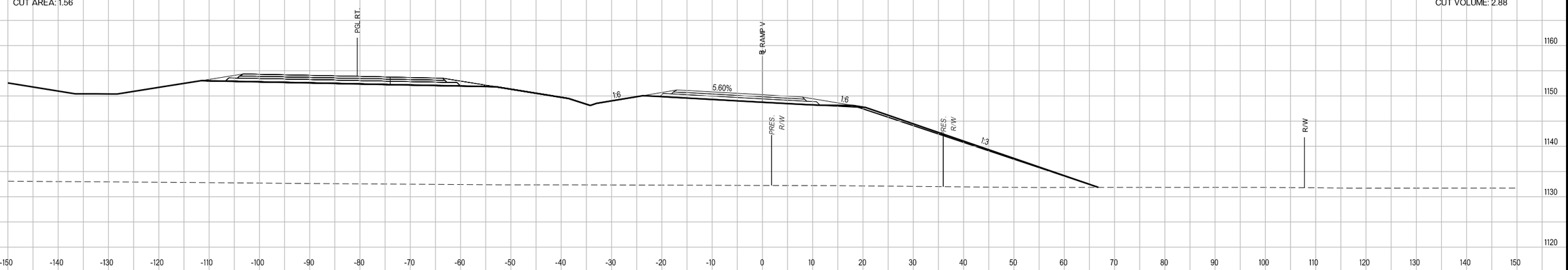
FILL VOLUME: 6006.59
CUT VOLUME: 16.39



1359+00.00
FG=1150.24

FILL AREA: 1634.00
CUT AREA: 1.56

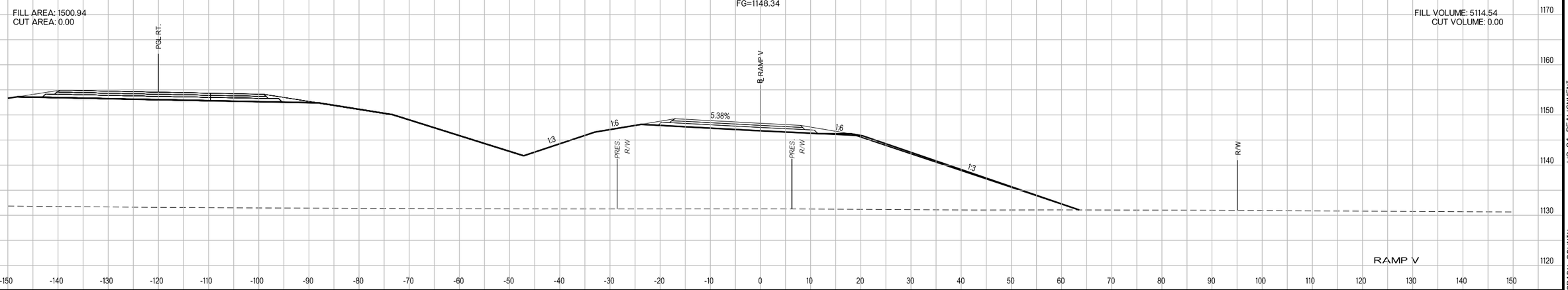
FILL VOLUME: 5805.44
CUT VOLUME: 2.88



1358+00.00
FG=1148.34

FILL AREA: 1500.94
CUT AREA: 0.00

FILL VOLUME: 5114.54
CUT VOLUME: 0.00

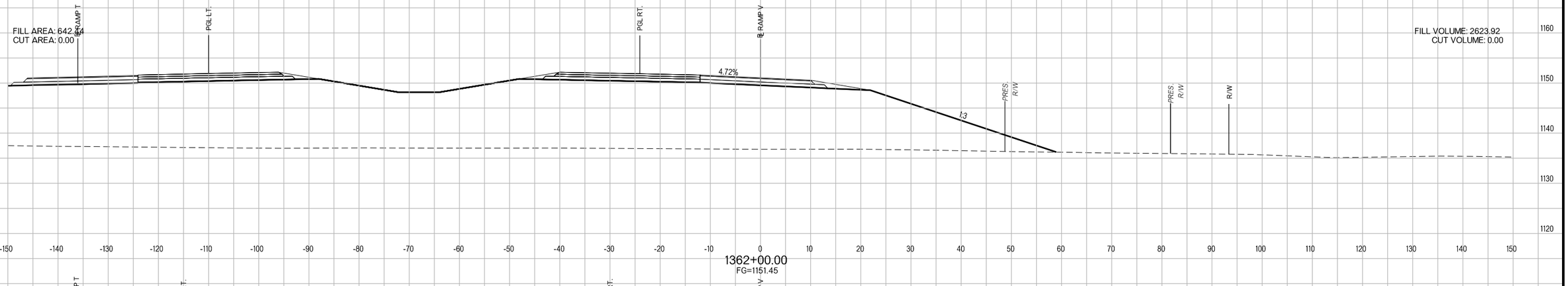


US-81 REALIGNMENT
GRADY COUNTY

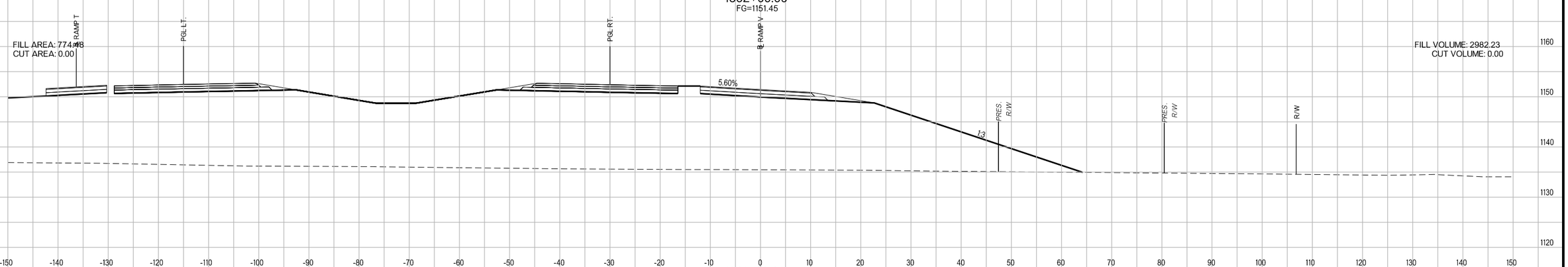
State Job No. 24428(04) Sheet No. X623

PROPOSED
R/W
AUGUST 2017

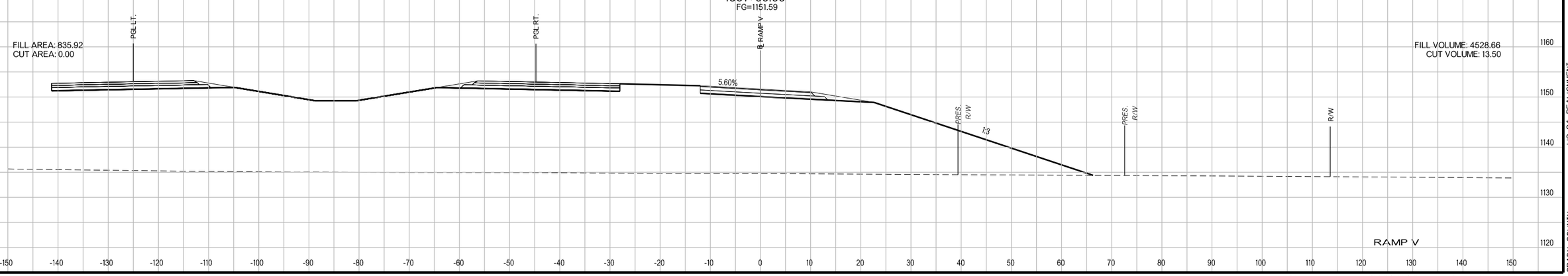
1363+00.00
FG=1151.03



1362+00.00
FG=1151.45



1361+00.00
FG=1151.59

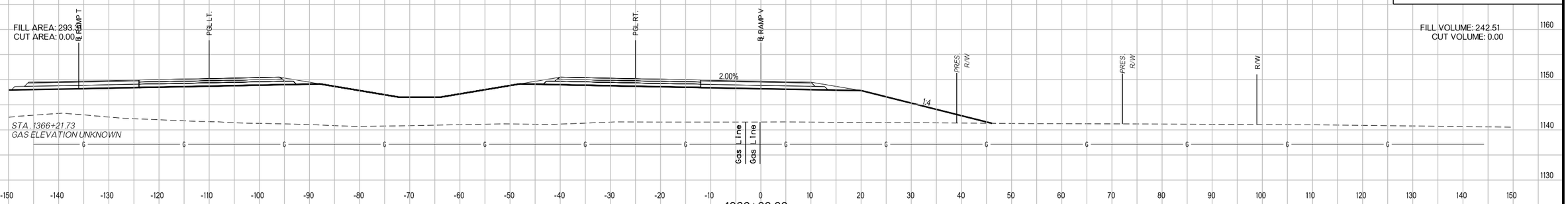


US-81 REALIGNMENT
GRADY COUNTY

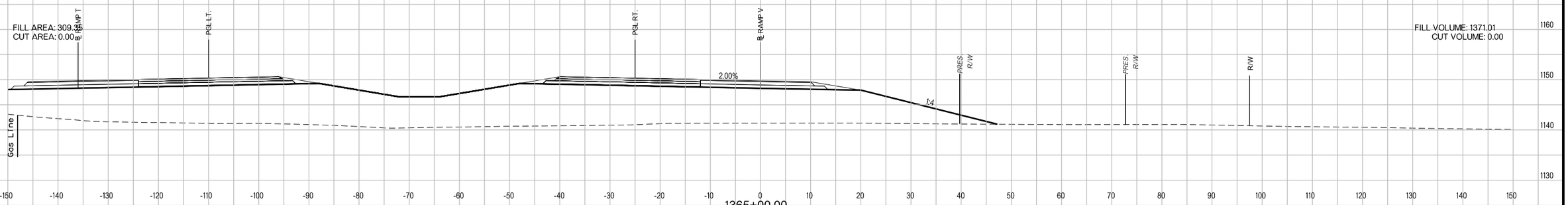
State Job No. 24428(04) Sheet No. X624

PROPOSED
R/W
AUGUST 2017

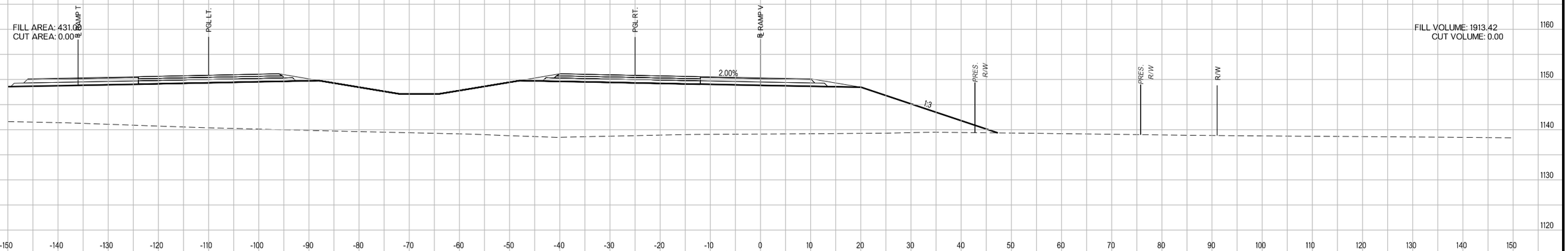
1366+21.73
FG=1149.69



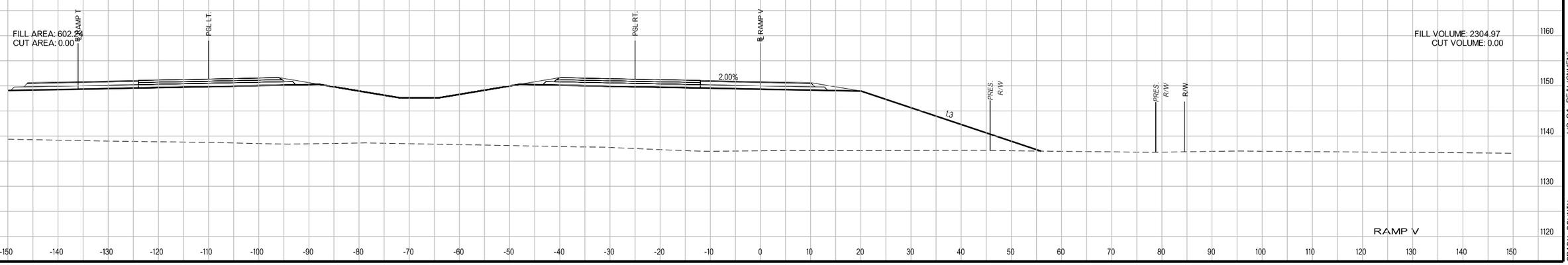
1366+00.00
FG=1149.80



1365+00.00
FG=1150.33



1364+00.00
FG=1150.84

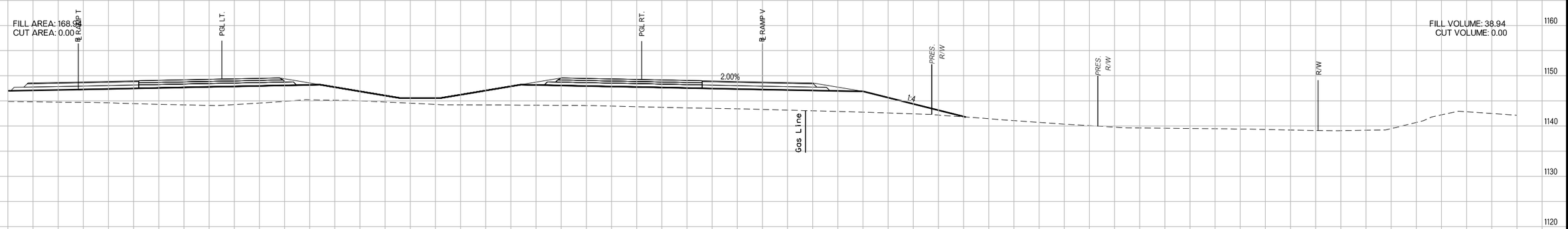


US-81 REALIGNMENT
GRADY COUNTY

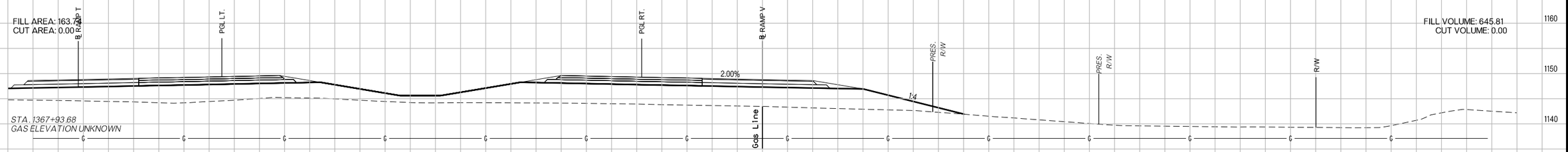
State Job No. 24428(04) Sheet No. X625

PROPOSED
R/W
AUGUST 2017

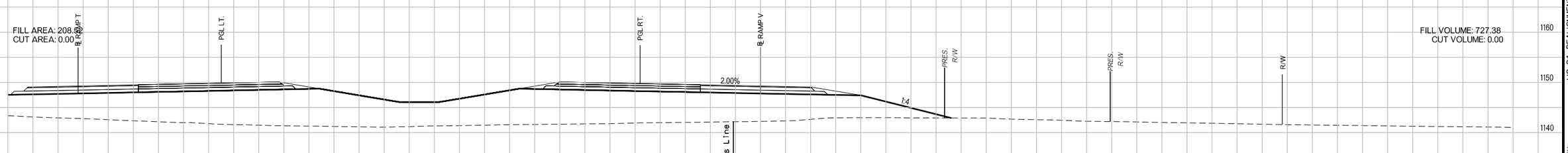
1368+00.00
FG=1148.77



1367+93.68
FG=1148.80



1367+00.00
FG=1149.28

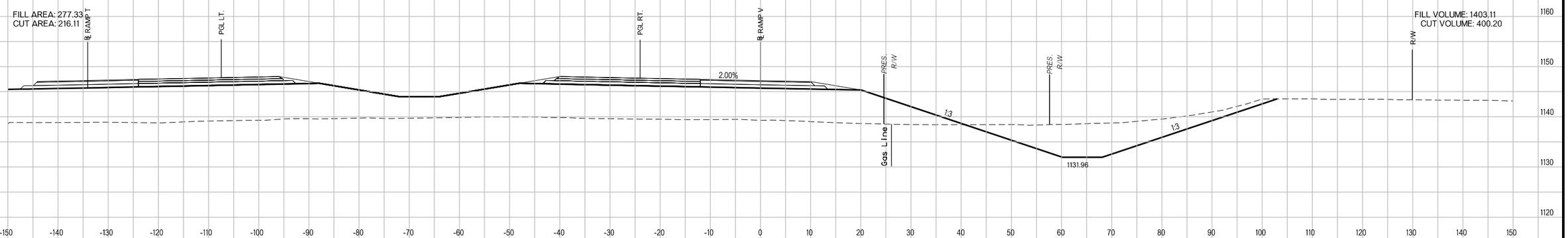


US-81 REALIGNMENT
GRADY COUNTY

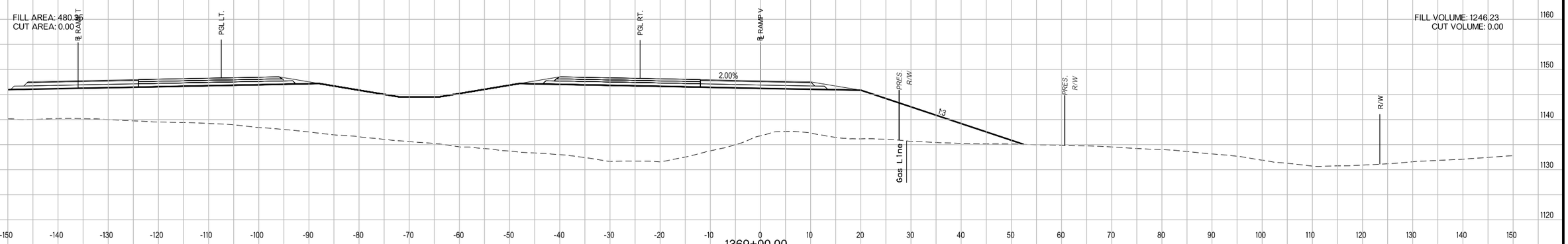
State Job No. 24428(04) Sheet No. X626

PROPOSED
R/W
AUGUST 2017

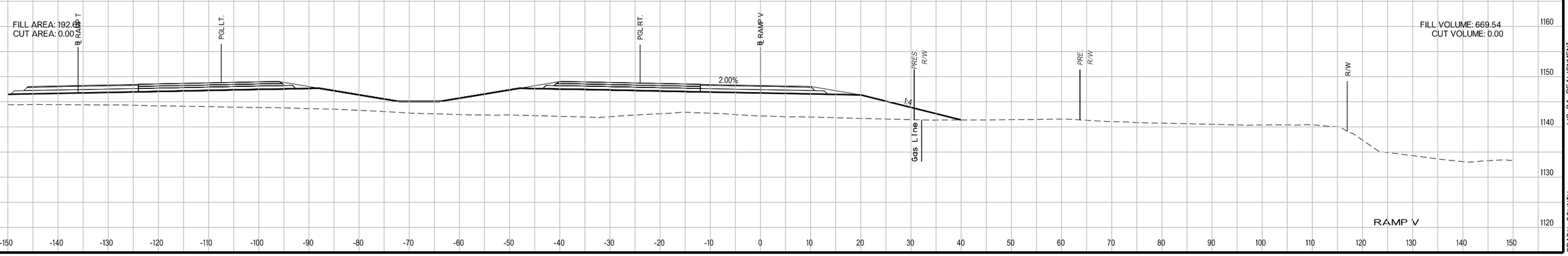
1371+00.00
FG=1147.21



1370+00.00
FG=1147.73



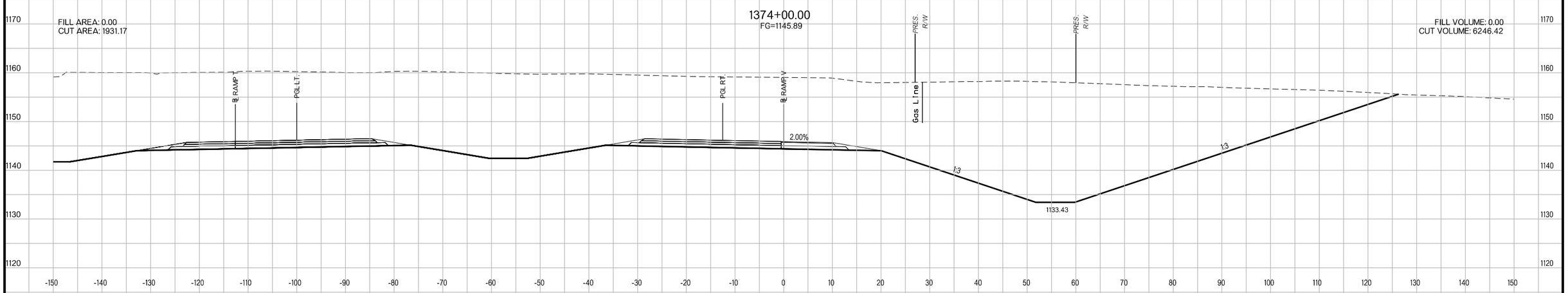
1369+00.00
FG=1148.25

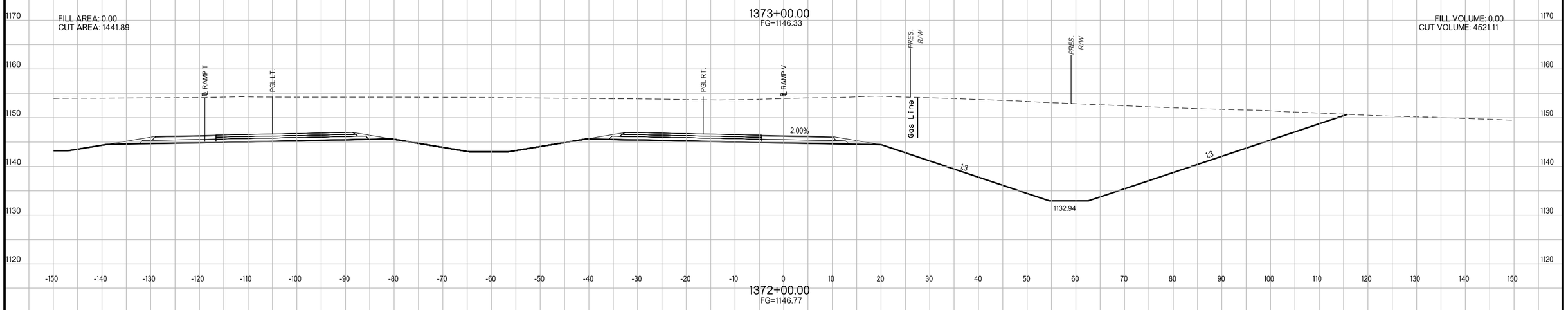


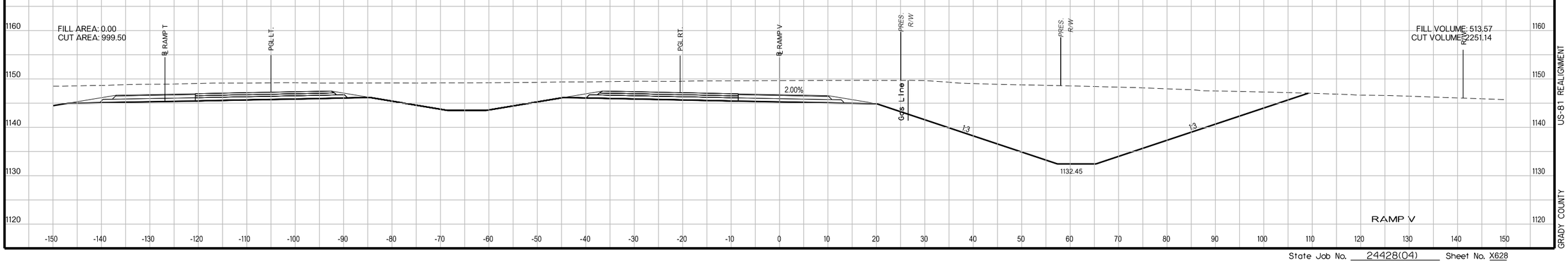
US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X627

PROPOSED
R/W
AUGUST 2017



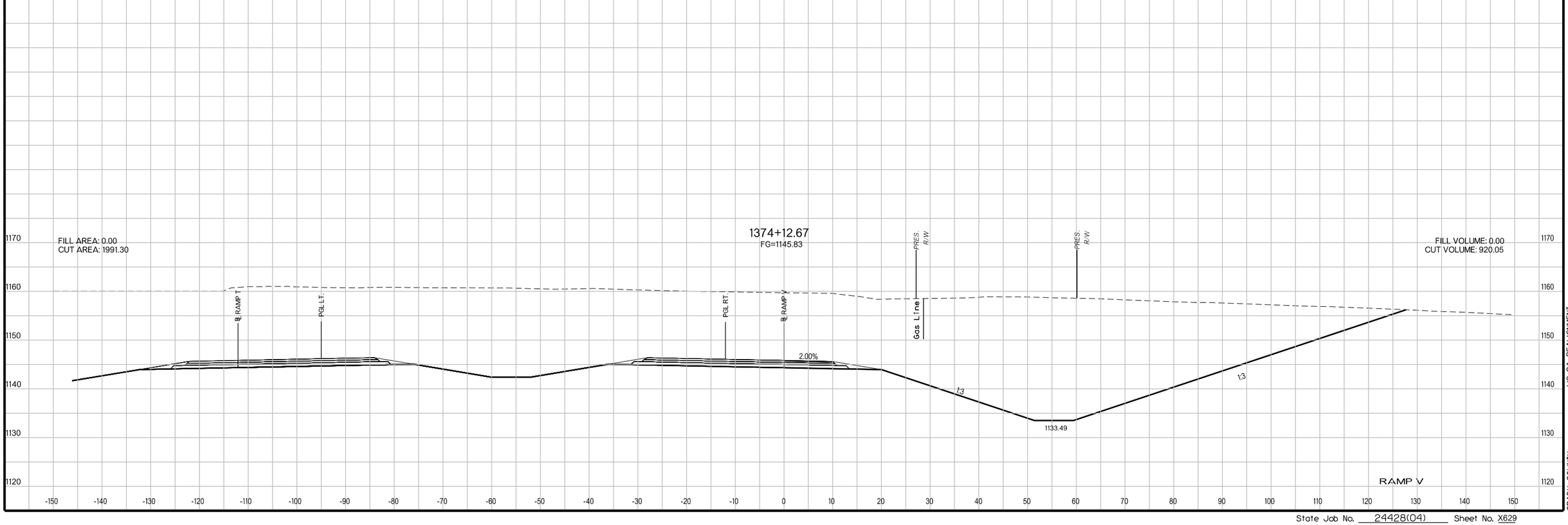




US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X628

PROPOSED
R/W
AUGUST 2017



US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X629

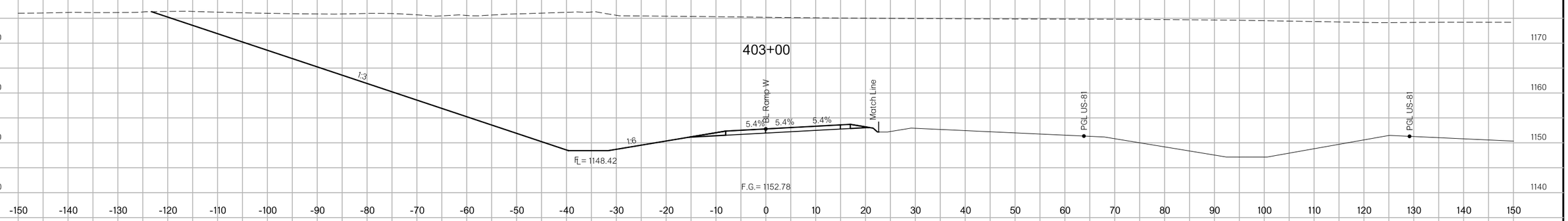
8/27/2017

PROPOSED
R/W
AUGUST 2017

CUT AREA = 5721.78 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 2056.73 C.Y.
FILL VOL. = 0.00 C.Y.

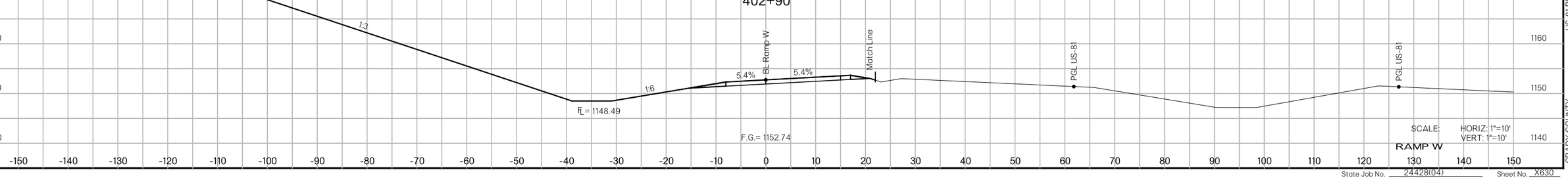
403+00



CUT AREA = 5706.15 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 0.00 C.Y.

402+90



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP W

State Job No. 24428(04) Sheet No. X630

US-81 REALIGNMENT
GRADY COUNTY

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8/27/2017

PROPOSED
R/W
AUGUST 2017

CUT AREA = 6708.68 S.F.
FILL AREA = 0.00 S.F.

404+42

1:4 | 1:8 | 4.1% | 4.1% | 4.1% | 1:9 | 1:8

BL Ramp W

Match Line

148

148 STA. 404+42.00
CONST. 36"X22"X96' LG RCPA SKEWED 45°RF
34' LT & 62' RT MSRD ALONG SKEW W/PCES'S
FL LT = 1147.90, FL RT = 1147.59

FL = 1147.89

F.G.= 1153.37

CUT AREA = 5888.60 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 21500.70 C.Y.
FILL VOL. = 0.00 C.Y.

404+00

1:3 | 1:6 | 5.4% | 5.4% | 5.4% | 1:6

BL Ramp W

Match Line

PGL US-81

FL = 1147.93

F.G.= 1153.20

SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP W

State Job No. 24428(04) Sheet No. X631

US-81 REALIGNMENT

GRADY COUNTY

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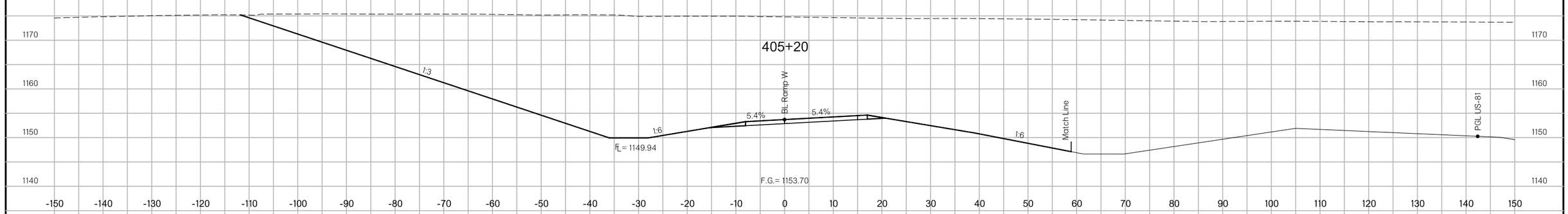
8/27/2017

PROPOSED
R/W
AUGUST 2017

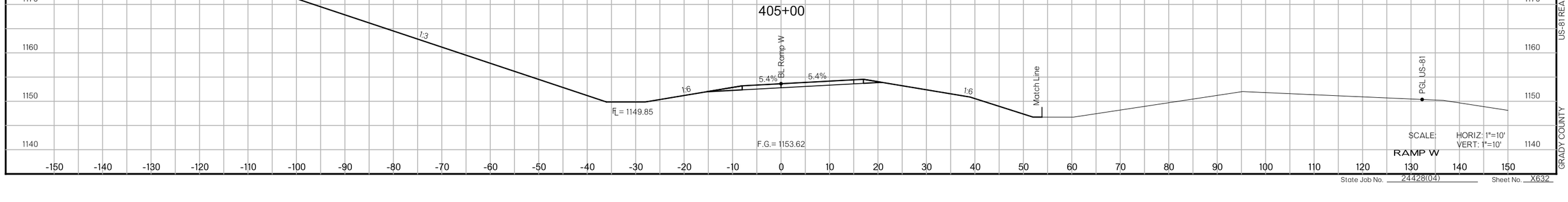
CUT AREA = 5355.20 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 3997.01 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 5367.03 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 20843.77 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP W

State Job No. 24428(04) Sheet No. X632

US-81 REALIGNMENT
GRADY COUNTY

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8/27/2017

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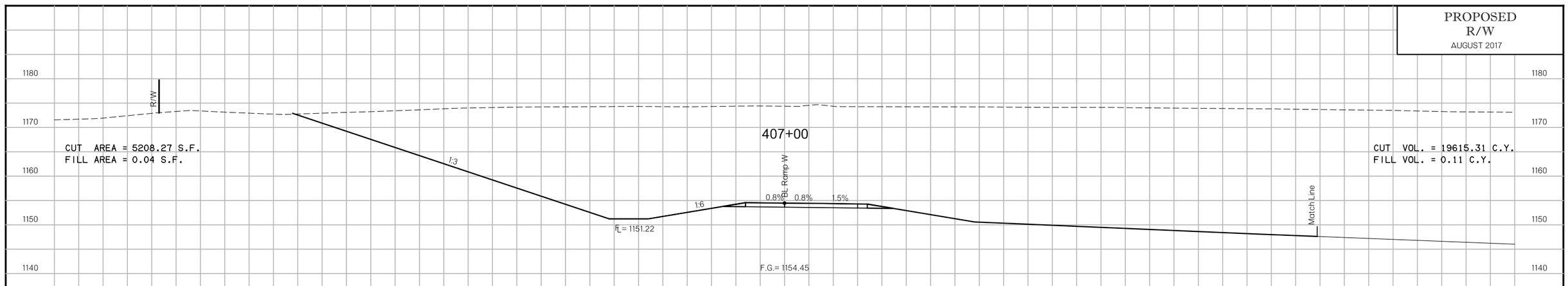
PROPOSED
R/W
AUGUST 2017



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP W

State Job No. 24428(04) Sheet No. X633

US-81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

CUT AREA = 3527.55 S.F.
FILL AREA = 0.00 S.F.
R/W
CUT VOL. = 1117.23 C.Y.
FILL VOL. = 0.00 C.Y.
408+07
1:3
1:6
5.1%
BL Ramp W
5.1%
1:6
Match Line
FL = 1152.02
F.G.= 1154.94

CUT AREA = 4603.22 S.F.
FILL AREA = 0.00 S.F.
R/W
CUT VOL. = 3160.01 C.Y.
FILL VOL. = 0.01 C.Y.
408+00
1:3
1:6
5.1%
BL Ramp W
5.1%
4.5%
1:6
Match Line
FL = 1151.95
F.G.= 1154.90

CUT AREA = 2698.30 S.F.
FILL AREA = 0.01 S.F.
R/W
CUT VOL. = 11219.93 C.Y.
FILL VOL. = 0.07 C.Y.
407+77
1:3
1:6
3.7%
BL Ramp W
4.5%
3.7%
1:6
Match Line
FL = 1151.76
F.G.= 1154.77

SCALE: HORIZ: 1"=10'
VERT: 1"=10'
RAMP W

State Job No. 24428(04) Sheet No. X634

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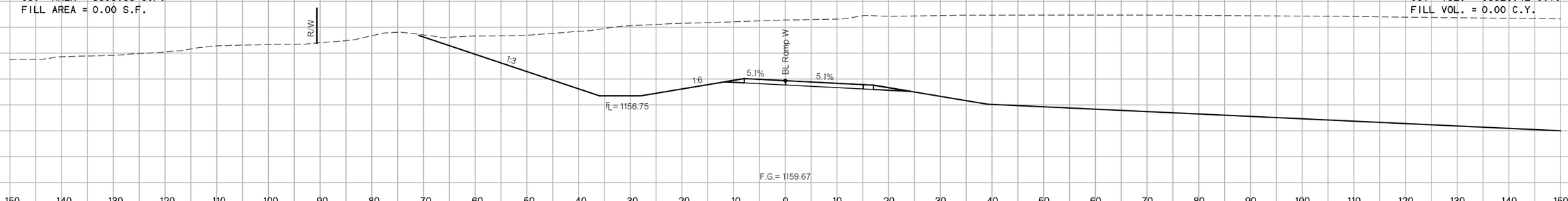
US-81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

CUT AREA = 3393.33 S.F.
FILL AREA = 0.00 S.F.

411+00

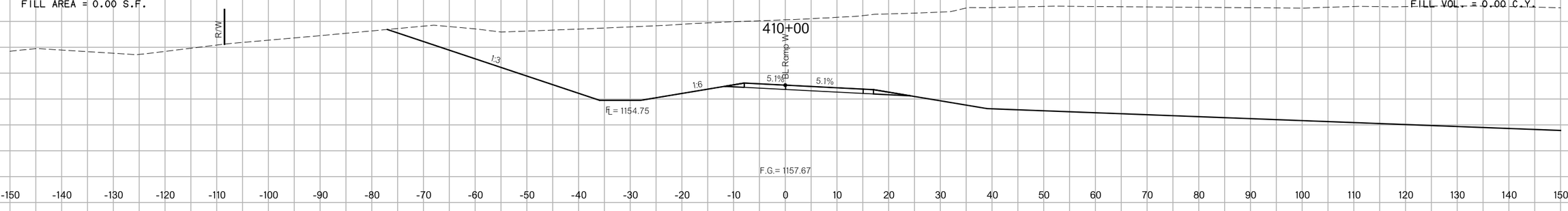
CUT VOL. = 13321.42 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 3800.24 S.F.
FILL AREA = 0.00 S.F.

410+00

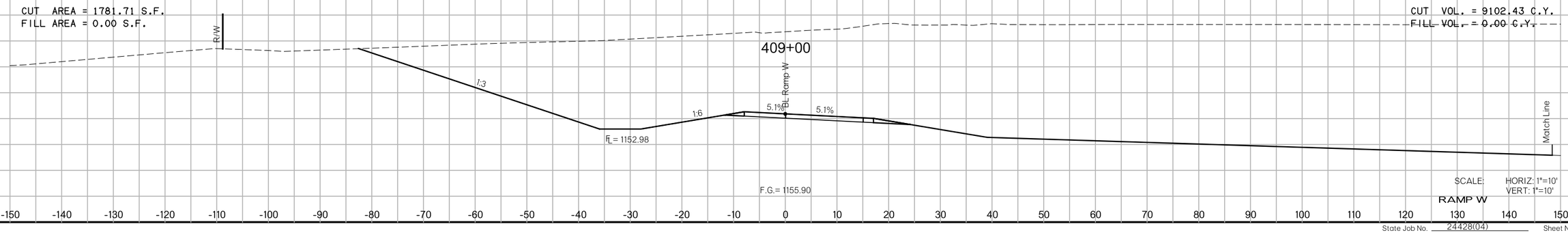
CUT VOL. = 10336.95 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 1781.71 S.F.
FILL AREA = 0.00 S.F.

409+00

CUT VOL. = 9102.43 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP W

State Job No. 24428(04) Sheet No. X635

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US-81 REALIGNMENT

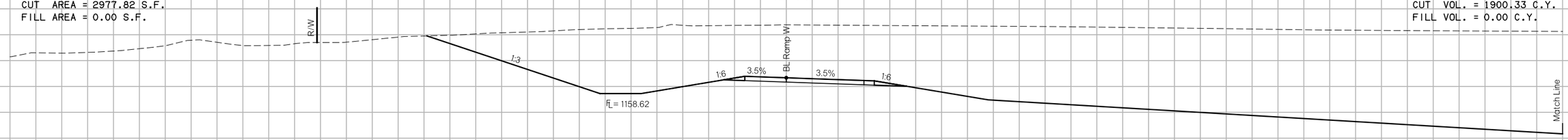
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

412+00

CUT AREA = 2977.82 S.F.
FILL AREA = 0.00 S.F.

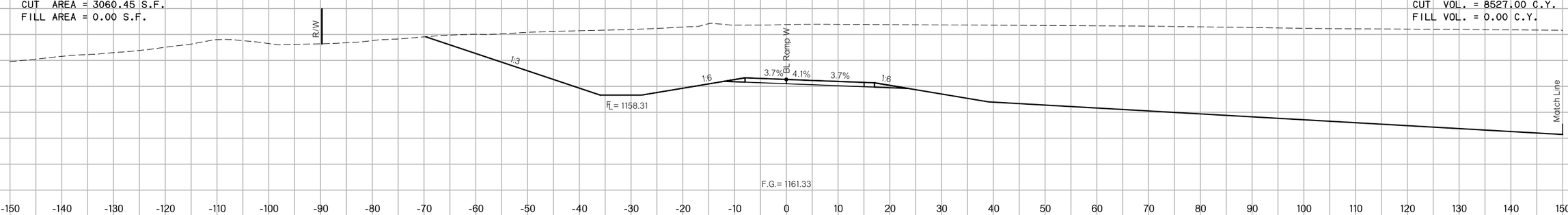
CUT VOL. = 1900.33 C.Y.
FILL VOL. = 0.00 C.Y.



411+83

CUT AREA = 3060.45 S.F.
FILL AREA = 0.00 S.F.

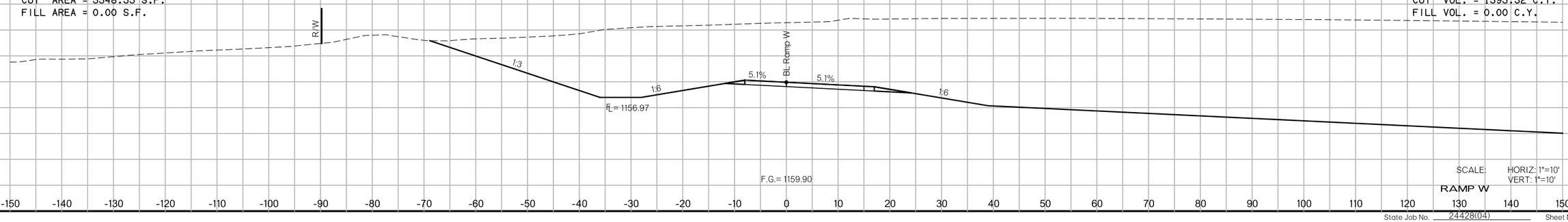
CUT VOL. = 8527.00 C.Y.
FILL VOL. = 0.00 C.Y.



411+11

CUT AREA = 3348.55 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 1393.32 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP W

State Job No. 24428(04) Sheet No. X636

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US-81 REALIGNMENT

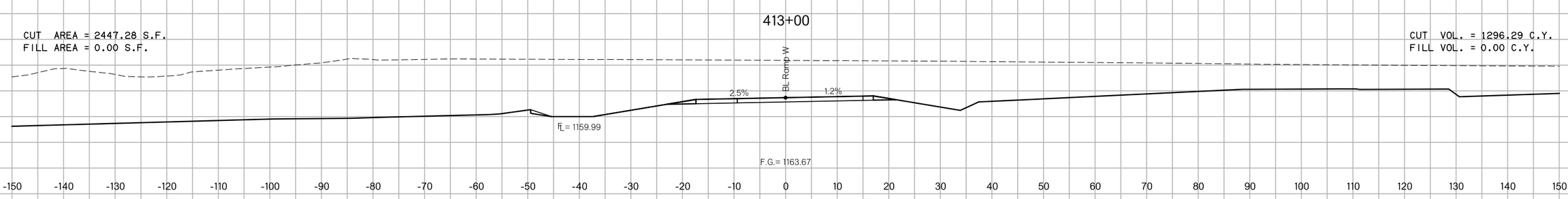
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

413+00

CUT AREA = 2447.28 S.F.
FILL AREA = 0.00 S.F.

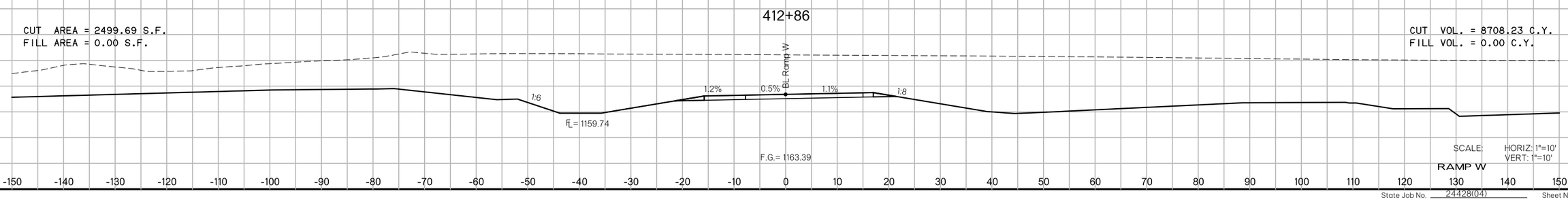
CUT VOL. = 1296.29 C.Y.
FILL VOL. = 0.00 C.Y.



412+86

CUT AREA = 2499.69 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 8708.23 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP W

State Job No. 24428(04) Sheet No. X637

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US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

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PROPOSED
R/W
AUGUST 2017

411+71

CUT AREA = 2528.89 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 4589.26 C.Y.
FILL VOL. = 0.00 C.Y.

R/W

BL Ramp X

1:6 2.0% 2.0% 1:6

Match Line

F.G.= 1162.28

411+22

CUT AREA = 2601.96 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 2057.02 C.Y.
FILL VOL. = 0.00 C.Y.

BL Ramp X

1:9

F.G.= 1163.25

411+00

CUT AREA = 2348.09 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 0.00 C.Y.

BL Ramp X

1:6 0.9% 0.9%

F.G.= 1163.70

1180
1170
1160
1150
1140

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP X

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X638

8/27/2017

PROPOSED
R/W
AUGUST 2017

CUT AREA = 4964.25 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 3123.48 C.Y.
FILL VOL. = 0.00 C.Y.

R/W

1:3

1:6

FL= 1158.26

4.2%

BL Ramp X

4.2%

1:6

6.3%

GAS LINE

6.0%

412+22

F.G.= 1161.26

CUT AREA = 2680.61 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 2822.78 C.Y.
FILL VOL. = 0.00 C.Y.

R/W

1:3

1:3

1:6

BL Ramp X

1:6

6.5%

GAS LINE

Match Line

6.3%

412+00

F.G.= 1161.70

SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP X

State Job No. 24428(04) Sheet No. X639

US-81 REALIGNMENT

GRADY COUNTY

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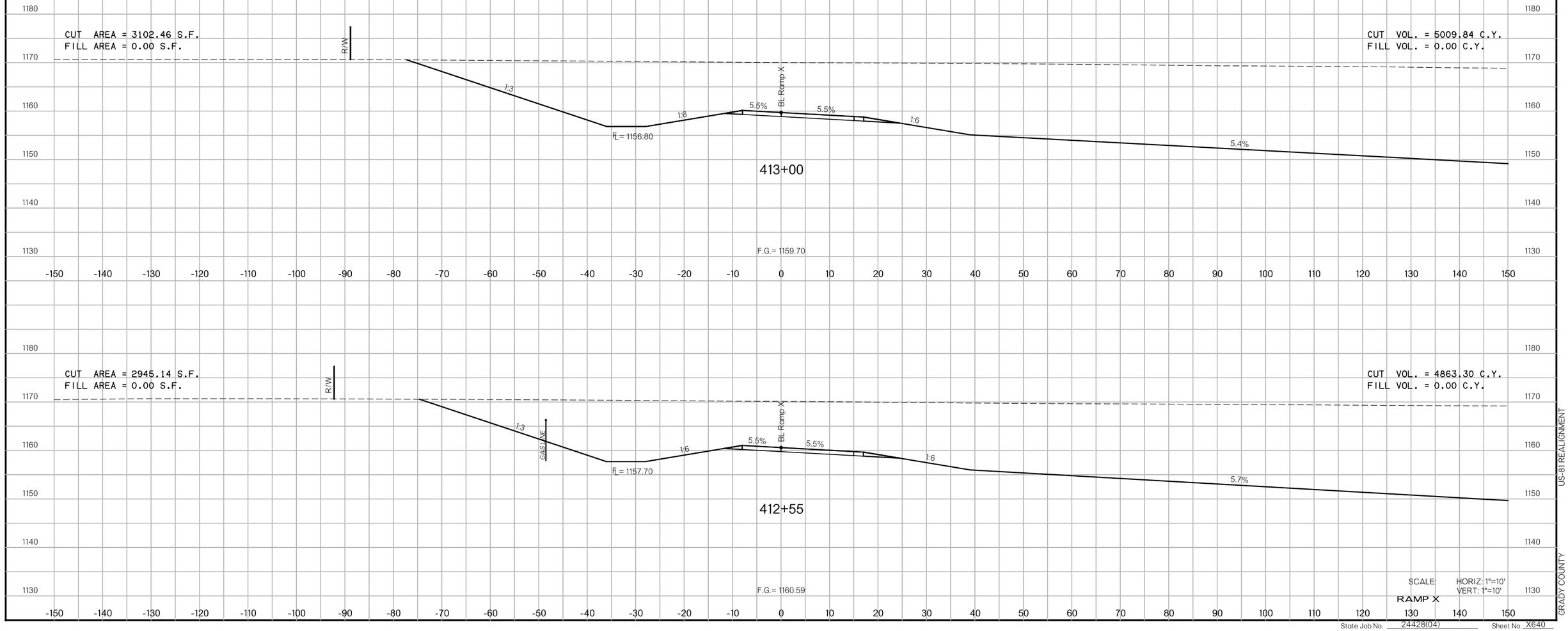
8/27/2017

PROPOSED
R/W
AUGUST 2017

CUT AREA = 3102.46 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 5009.84 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP X

State Job No. 24428(04) Sheet No. X640

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US-81 REALIGNMENT

GRADY COUNTY

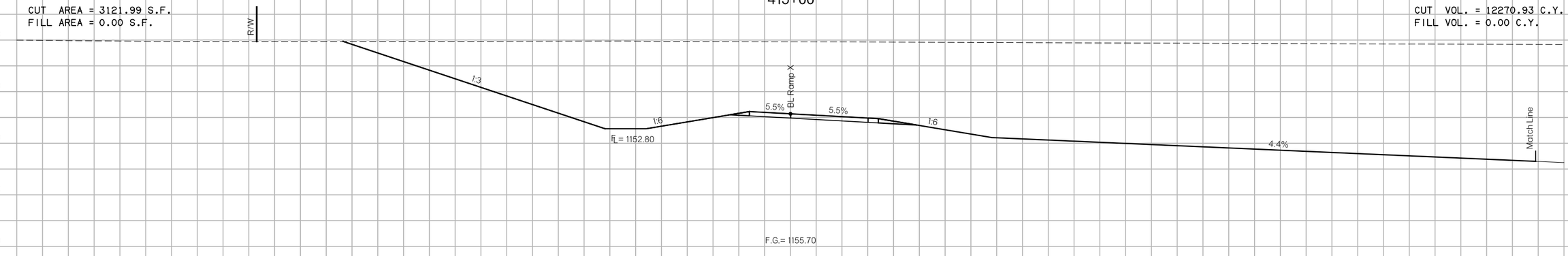
8/27/2017

PROPOSED
R/W
AUGUST 2017

415+00

CUT AREA = 3121.99 S.F.
FILL AREA = 0.00 S.F.

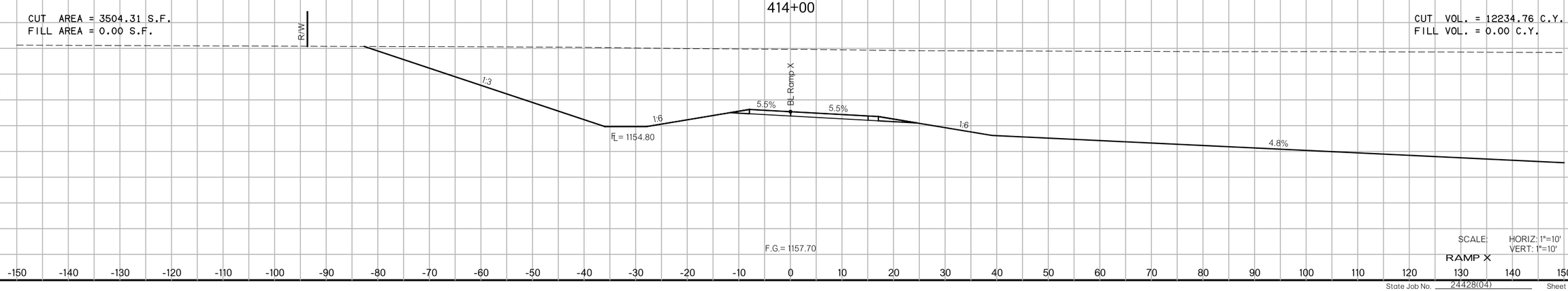
CUT VOL. = 12270.93 C.Y.
FILL VOL. = 0.00 C.Y.



414+00

CUT AREA = 3504.31 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 12234.76 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP X

State Job No. 24428(04) Sheet No. X641

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US-81 REALIGNMENT
GRADY COUNTY

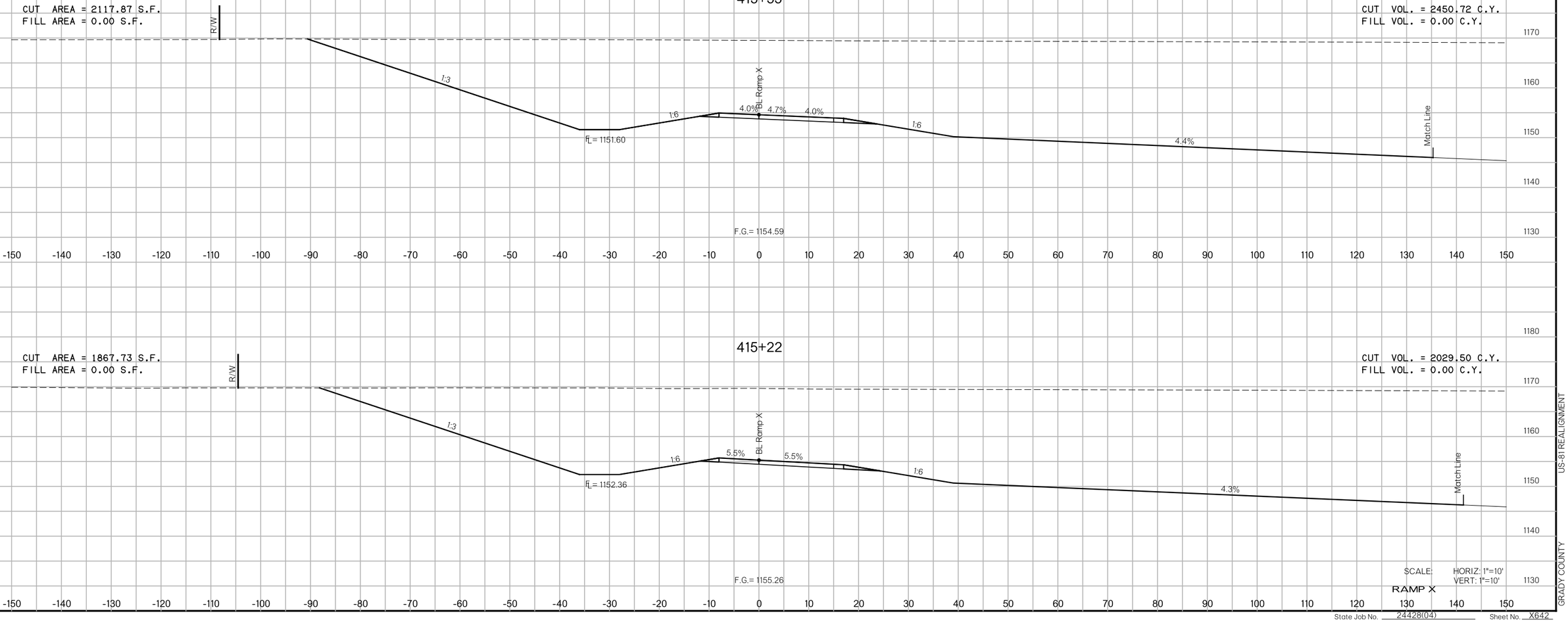
8/27/2017

PROPOSED
R/W
AUGUST 2017

415+55

CUT AREA = 2117.87 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 2450.72 C.Y.
FILL VOL. = 0.00 C.Y.



415+22

CUT AREA = 1867.73 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 2029.50 C.Y.
FILL VOL. = 0.00 C.Y.

SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP X

State Job No. 24428(04) Sheet No. X642

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US-81 REALIGNMENT

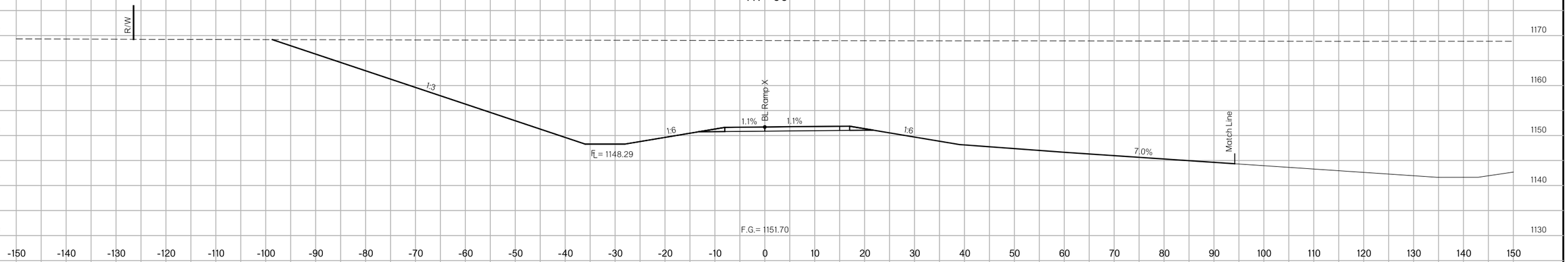
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

CUT AREA = 4000.93 S.F.
FILL AREA = 0.00 S.F.

417+00

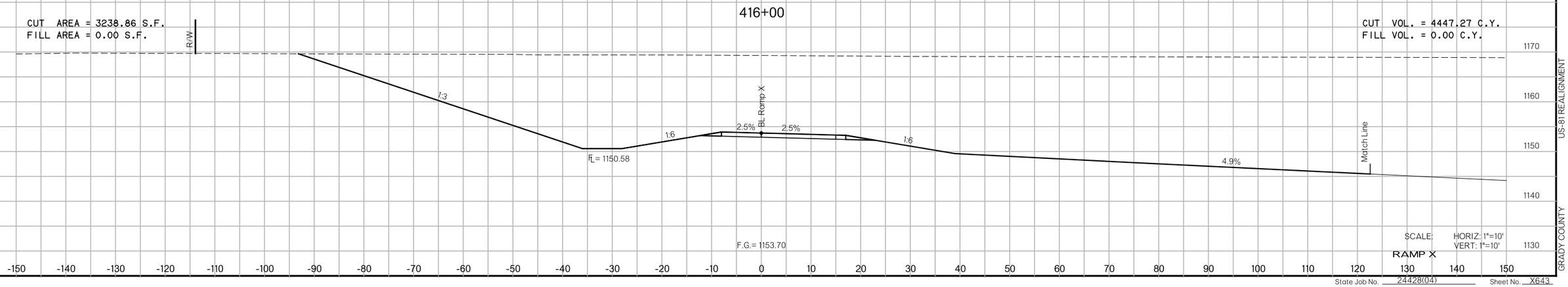
CUT VOL. = 13407.02 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 3238.86 S.F.
FILL AREA = 0.00 S.F.

416+00

CUT VOL. = 4447.27 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP X

State Job No. 24428(04) Sheet No. X643

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US-81 REALIGNMENT

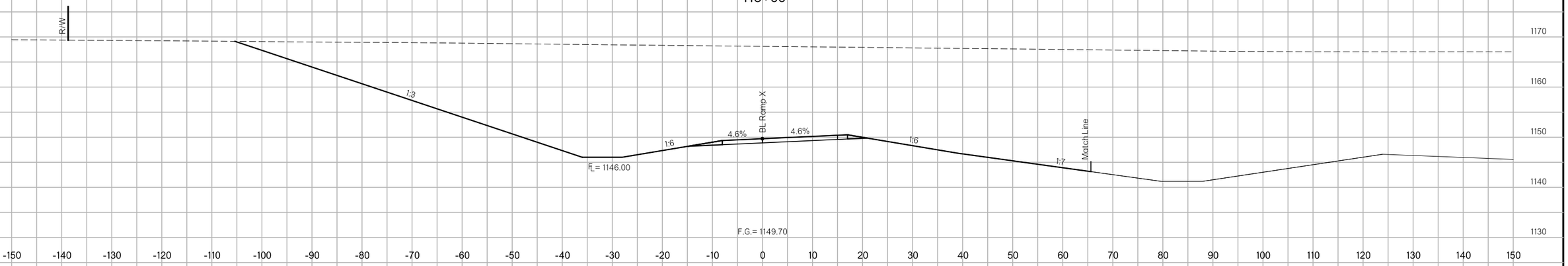
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

CUT AREA = 4828.11 S.F.
FILL AREA = 0.00 S.F.

418+00

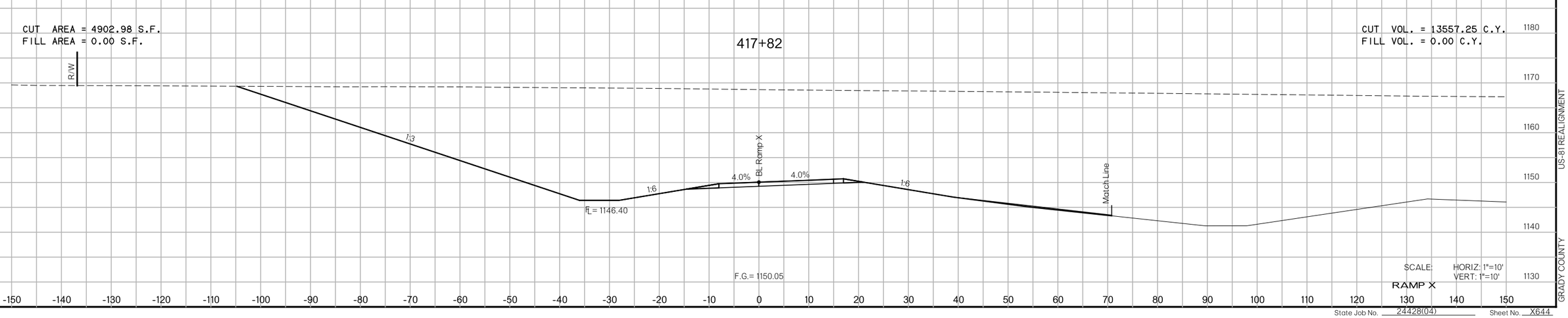
CUT VOL. = 3203.79 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 4902.98 S.F.
FILL AREA = 0.00 S.F.

417+82

CUT VOL. = 13557.25 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP X

State Job No. 24428(04) Sheet No. X644

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US-81 REALIGNMENT

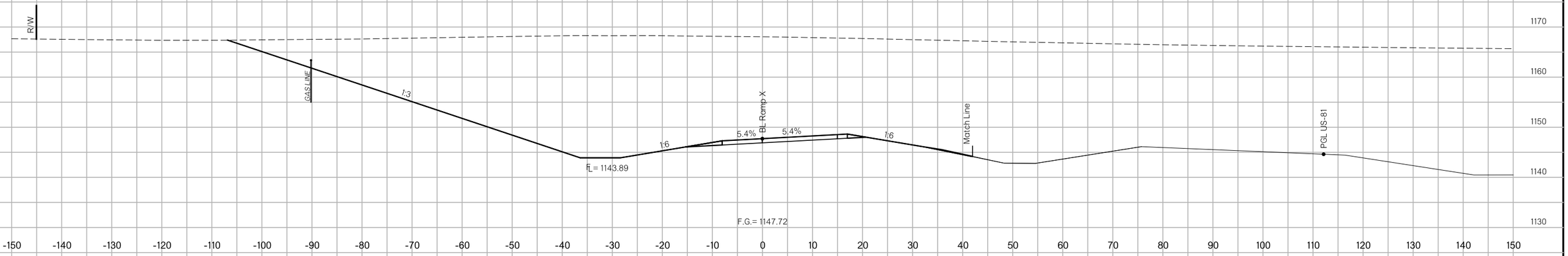
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

CUT AREA = 4988.64 S.F.
FILL AREA = 0.00 S.F.

419+00

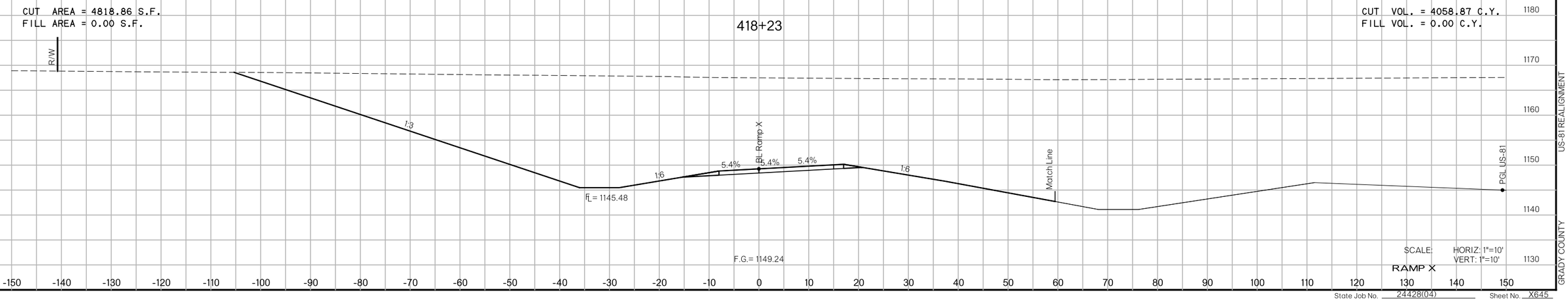
CUT VOL. = 14035.62 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 4818.86 S.F.
FILL AREA = 0.00 S.F.

418+23

CUT VOL. = 4058.87 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP X

State Job No. 24428(04) Sheet No. X645

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US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

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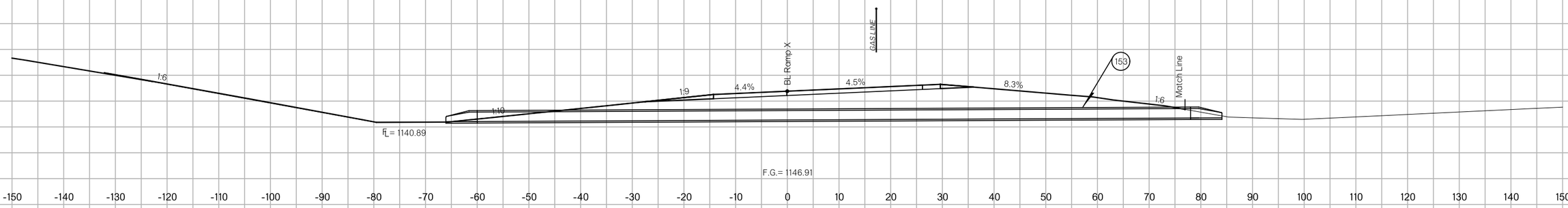
PROPOSED
R/W
AUGUST 2017

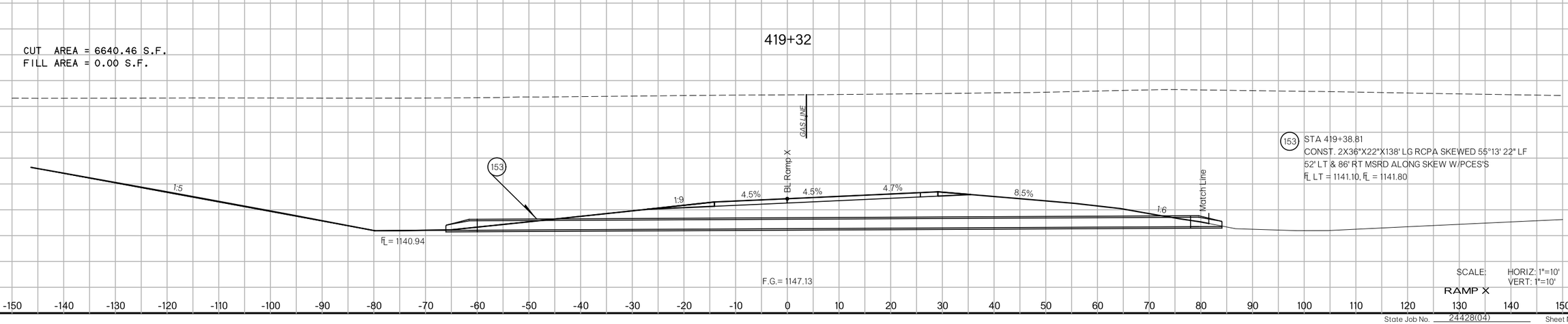
419+46

CUT AREA = 6340.30 S.F.
FILL AREA = 0.00 S.F.



419+32

CUT AREA = 6640.46 S.F.
FILL AREA = 0.00 S.F.



153 STA 419+38.81
CONST. 2X36"X22"X138' LG RCPA SKEWED 55°13' 22" LF
52' LT & 86' RT MSRD ALONG SKEW W/PCES'S
FL LT = 1141.10, FL = 1141.80

SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP X

US-81 REALIGNMENT

GRADY COUNTY

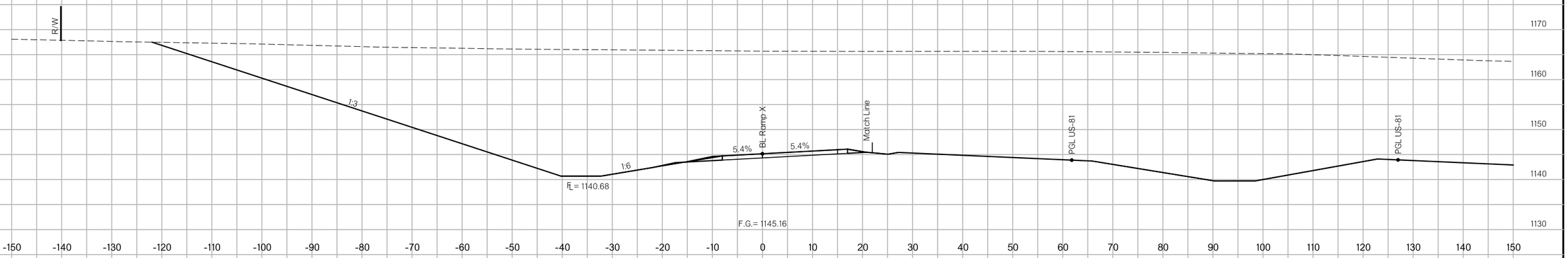
State Job No. 24428(04) Sheet No. X646

PROPOSED
R/W
AUGUST 2017

CUT AREA = 5253.25 S.F.
FILL AREA = 0.00 S.F.

420+64

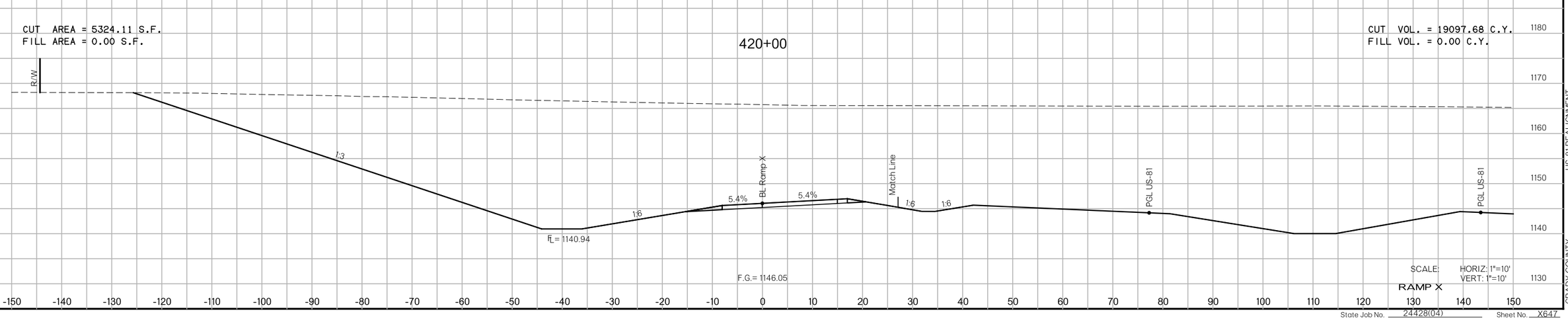
CUT VOL. = 12572.89 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 5324.11 S.F.
FILL AREA = 0.00 S.F.

420+00

CUT VOL. = 19097.68 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP X

State Job No. 24428(04) Sheet No. X647

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US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

PROPOSED
R/W
AUGUST 2017

CUT AREA = 6187.40 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 5241.80 C.Y.
FILL VOL. = 0.00 C.Y.

402+00

PGL US-81

PGL US-81

Match Line

BL Ramp Y

6.0%

6.0%

1:6

1:3

FL = 1144.21

F.G.= 1148.57

CUT AREA = 6163.56 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 0.00 C.Y.

401+77

PGL US-81

PGL US-81

Match Line

BL Ramp Y

6.0%

6.0%

1:6

1:3

FL = 1144.44

F.G.= 1148.86

1190
1180
1170
1160
1150
1140
1130

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP Y

State Job No. 24428(04)

Sheet No. X648

7:29:24 PM

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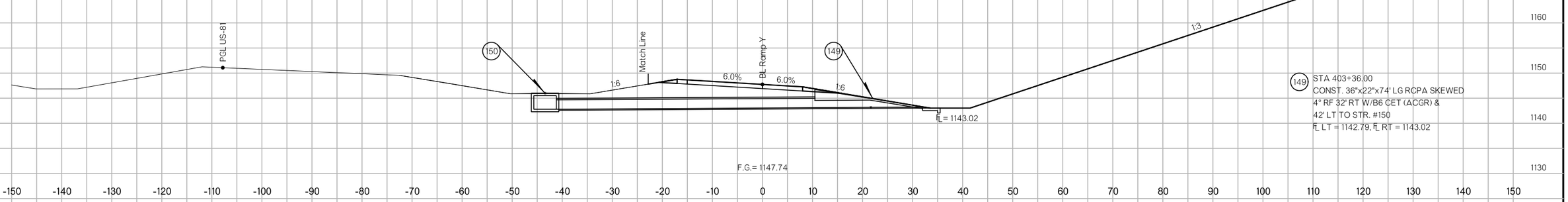
US-81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

CUT AREA = 6503.38 S.F.
FILL AREA = 0.00 S.F.

403+36

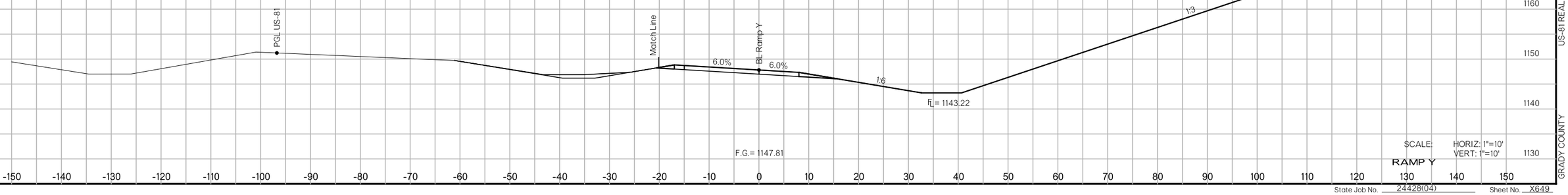


149 STA 403+36.00
CONST. 36"x22"x74' LG RCPA SKEWED
4° RF 32' RT W/B6 CET (ACGR) &
42' LT TO STR. #150
FL LT = 1142.79, FL RT = 1143.02

CUT AREA = 6443.11 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 23389.84 C.Y.
FILL VOL. = 0.00 C.Y.

403+00



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP Y

State Job No. 24428(04) Sheet No. X649

US-81 REALIGNMENT
GRADY COUNTY

8/27/2017
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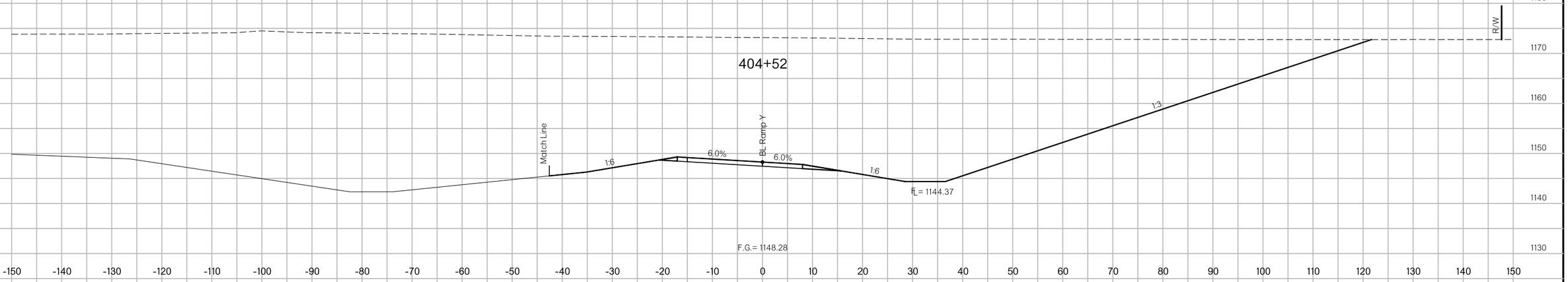
PROPOSED
R/W
AUGUST 2017

CUT AREA = 6061.29 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 12088.72 C.Y.
FILL VOL. = 0.00 C.Y.

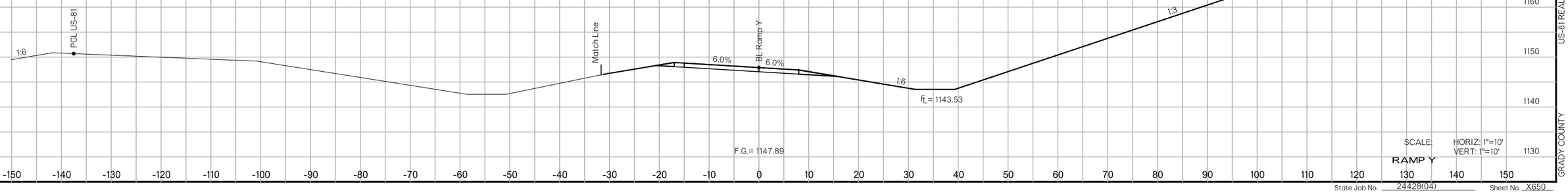
404+52



CUT AREA = 6439.01 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 23855.78 C.Y.
FILL VOL. = 0.00 C.Y.

404+00



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP Y

State Job No. 24428(04) Sheet No. X650

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US-81 REALIGNMENT

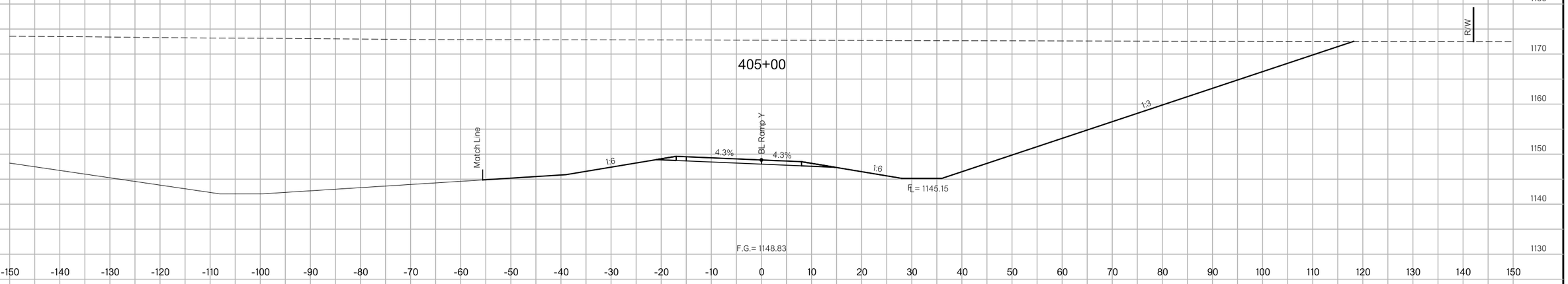
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

CUT AREA = 4944.54 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 514.97 C.Y.
FILL VOL. = 0.00 C.Y.

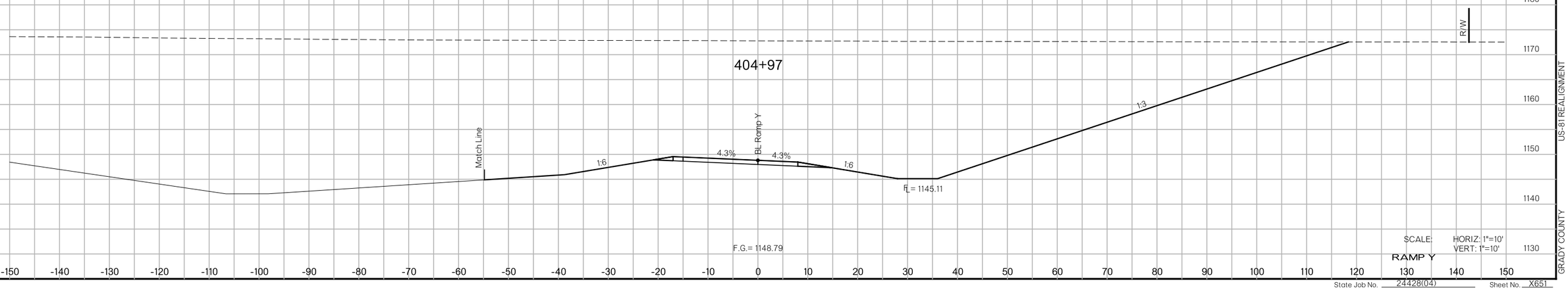
405+00



CUT AREA = 5072.13 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 9278.22 C.Y.
FILL VOL. = 0.00 C.Y.

404+97



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP Y

State Job No. 24428(04) Sheet No. X651

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US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

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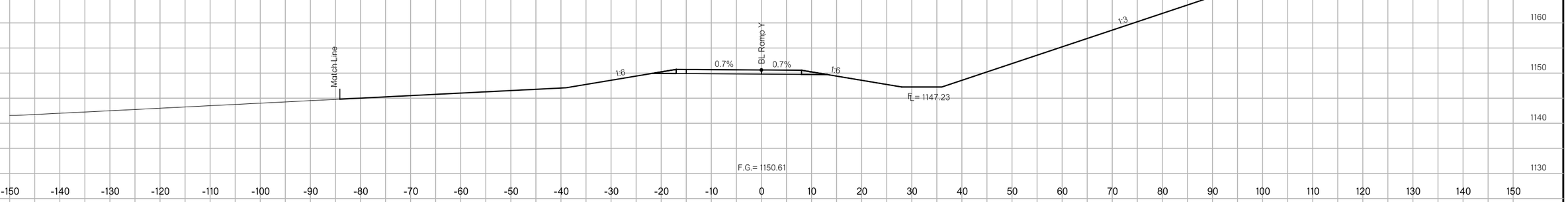
PROPOSED
R/W
AUGUST 2017

CUT AREA = 4302.67 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 5764.98 C.Y.
FILL VOL. = 0.00 C.Y.

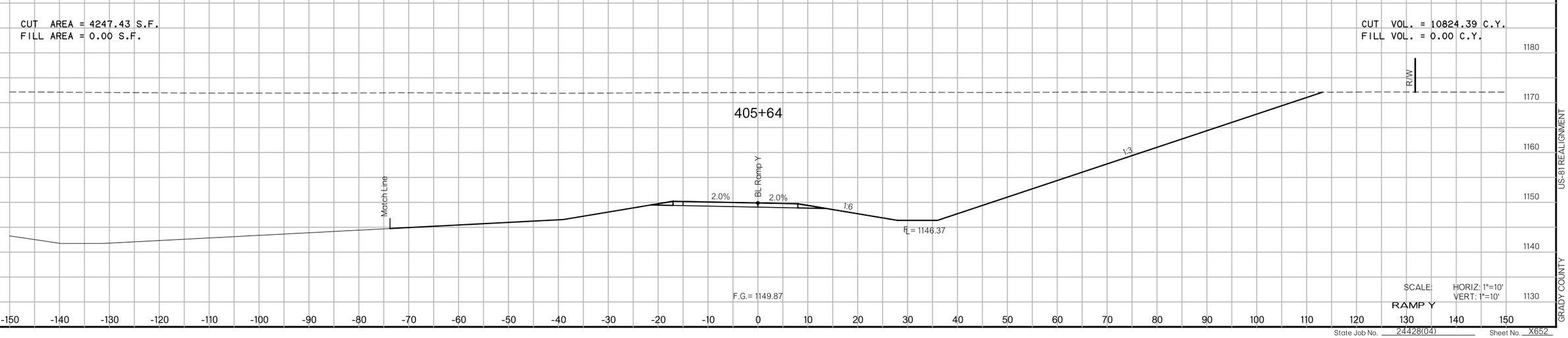
406+00



CUT AREA = 4247.43 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 10824.39 C.Y.
FILL VOL. = 0.00 C.Y.

405+64



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP Y

US-81 REALIGNMENT

GRADY COUNTY

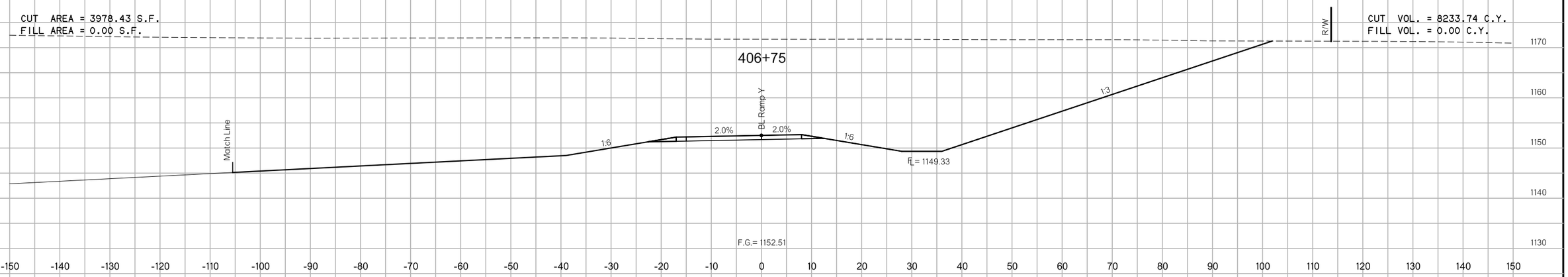
State Job No. 24428(04) Sheet No. X652

PROPOSED
R/W
AUGUST 2017

CUT AREA = 3978.43 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 8233.74 C.Y.
FILL VOL. = 0.00 C.Y.

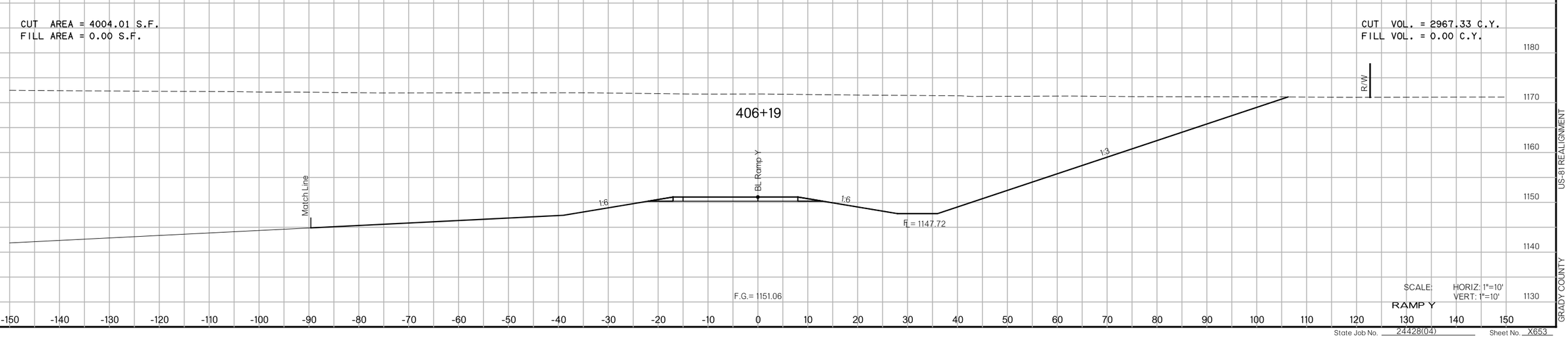
406+75



CUT AREA = 4004.01 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 2967.33 C.Y.
FILL VOL. = 0.00 C.Y.

406+19



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP Y

State Job No. 24428(04) Sheet No. X653

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US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

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PROPOSED
R/W
AUGUST 2017

CUT AREA = 3988.47 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 1288.79 C.Y.
FILL VOL. = 0.00 C.Y.

407+09

Match Line

BL Ramp Y

1:6 2.9% 3.6% 2.9% 1:6 1:3

R/W

FL = 1150.44

F.G.= 1153.52

1180 1170 1160 1150 1140 1130

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

CUT AREA = 3988.87 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 3690.04 C.Y.
FILL VOL. = 0.00 C.Y.

407+00

Match Line

BL Ramp Y

2.9% 2.9% 1:6 1:3

R/W

FL = 1150.15

F.G.= 1153.25

1180 1170 1160 1150 1140 1130

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP Y

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X654

8/27/2017

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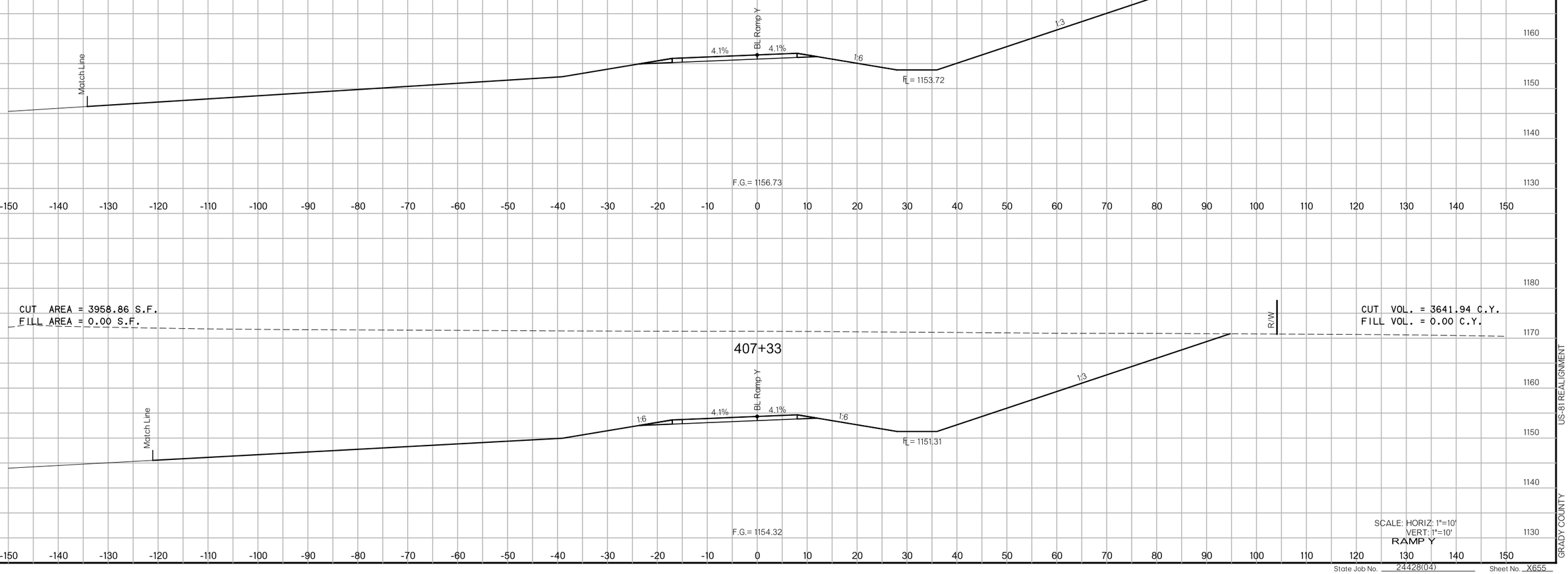
PROPOSED
R/W
AUGUST 2017

408+00

CUT AREA = 3710.46 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 9448.89 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 3958.86 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 3641.94 C.Y.
FILL VOL. = 0.00 C.Y.

407+33

SCALE: HORIZ: 1"=10'
VERT: 1"=10'
RAMP Y

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04)

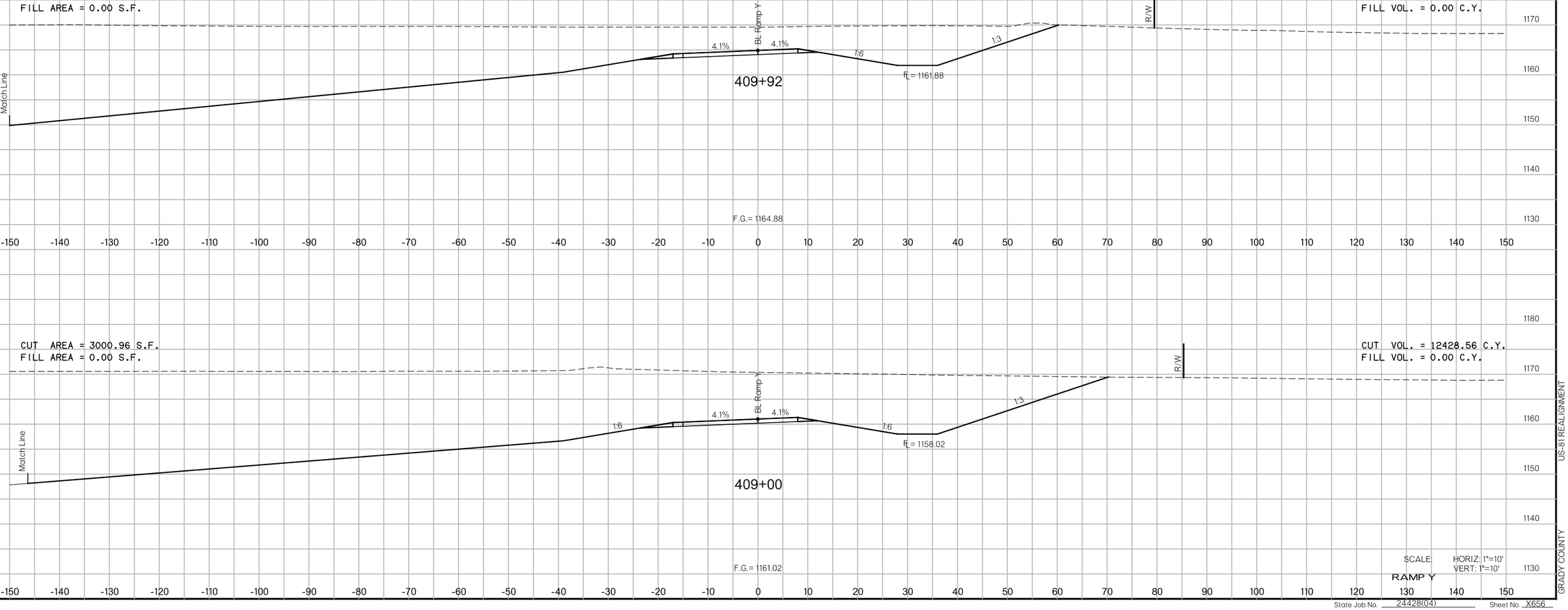
Sheet No. X655

8/27/2017

PROPOSED
R/W
AUGUST 2017

CUT AREA = 2208.86 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 8842.22 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP Y

State Job No. 24428(04) Sheet No. X656

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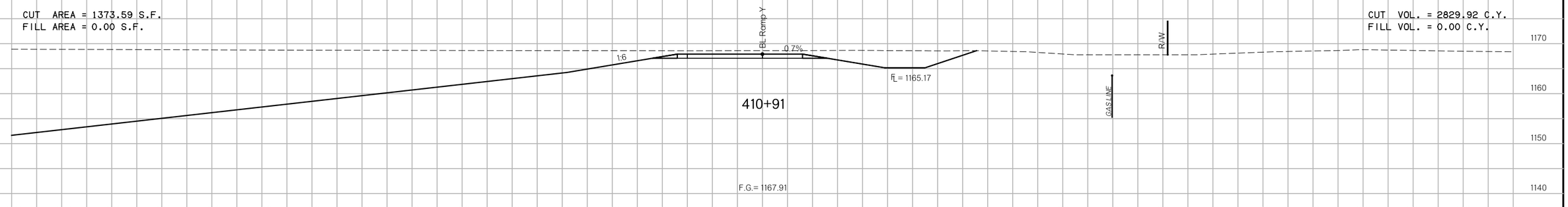
US-81 REALIGNMENT
GRADY COUNTY

8/27/2017

PROPOSED
R/W
AUGUST 2017

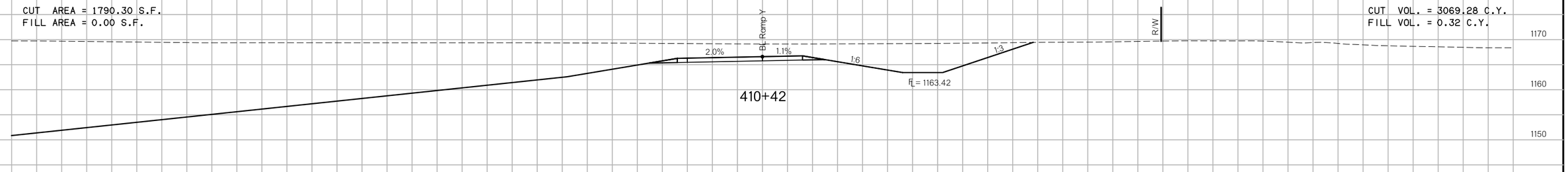
CUT AREA = 1373.59 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 2829.92 C.Y.
FILL VOL. = 0.00 C.Y.



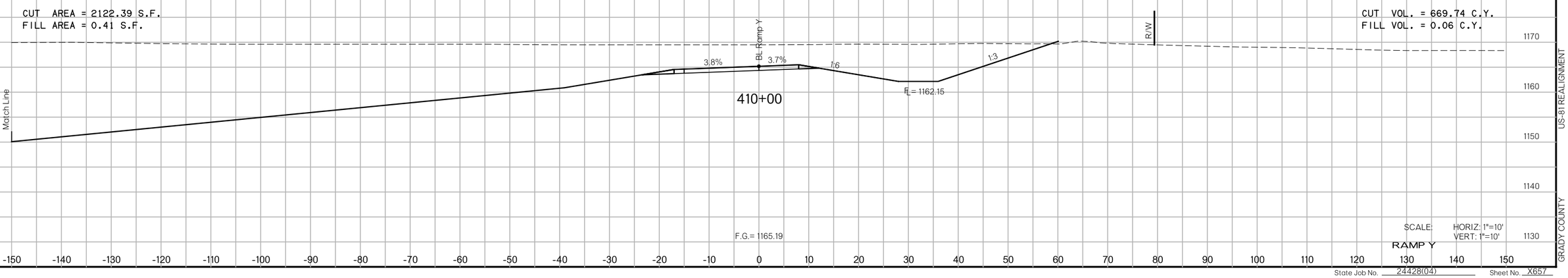
CUT AREA = 1790.30 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 3069.28 C.Y.
FILL VOL. = 0.32 C.Y.



CUT AREA = 2122.39 S.F.
FILL AREA = 0.41 S.F.

CUT VOL. = 669.74 C.Y.
FILL VOL. = 0.06 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'
RAMP Y

State Job No. 24428(04) Sheet No. X657

US-81 REALIGNMENT
GRADY COUNTY

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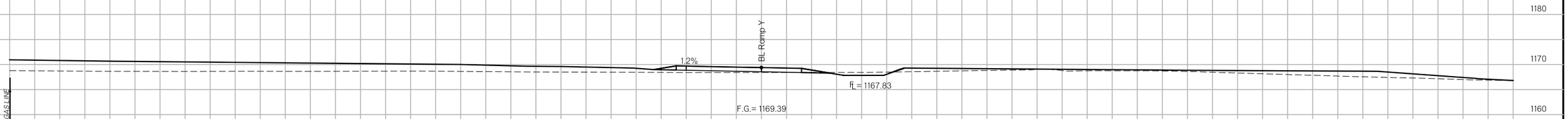
PROPOSED
R/W
AUGUST 2017

411+61

CUT AREA = 6.89 S.F.
FILL AREA = 270.14 S.F.

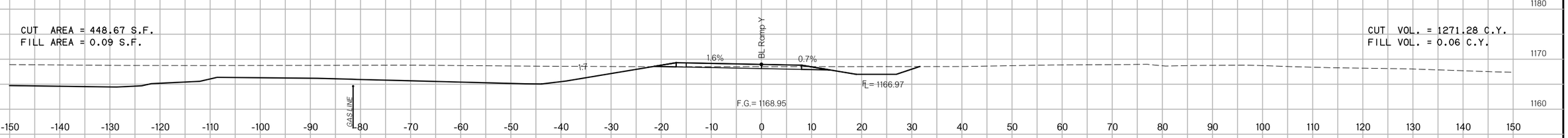
CUT VOL. = 184.32 C.Y.
FILL VOL. = 109.33 C.Y.



411+39

CUT AREA = 448.67 S.F.
FILL AREA = 0.09 S.F.

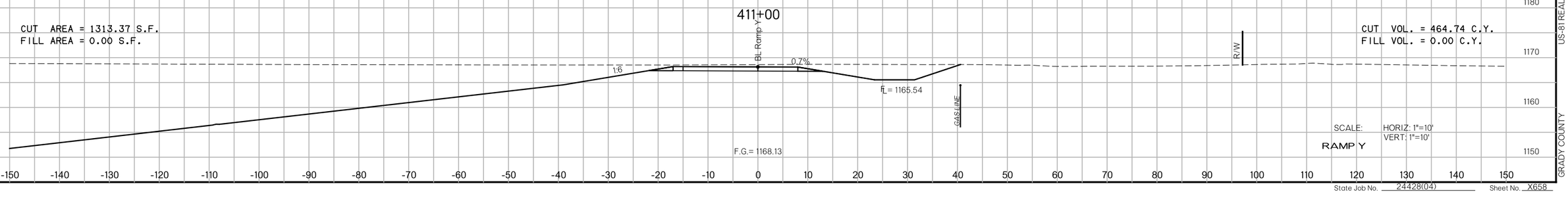
CUT VOL. = 1271.28 C.Y.
FILL VOL. = 0.06 C.Y.



411+00

CUT AREA = 1313.37 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 464.74 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP Y

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X658

8/27/2017

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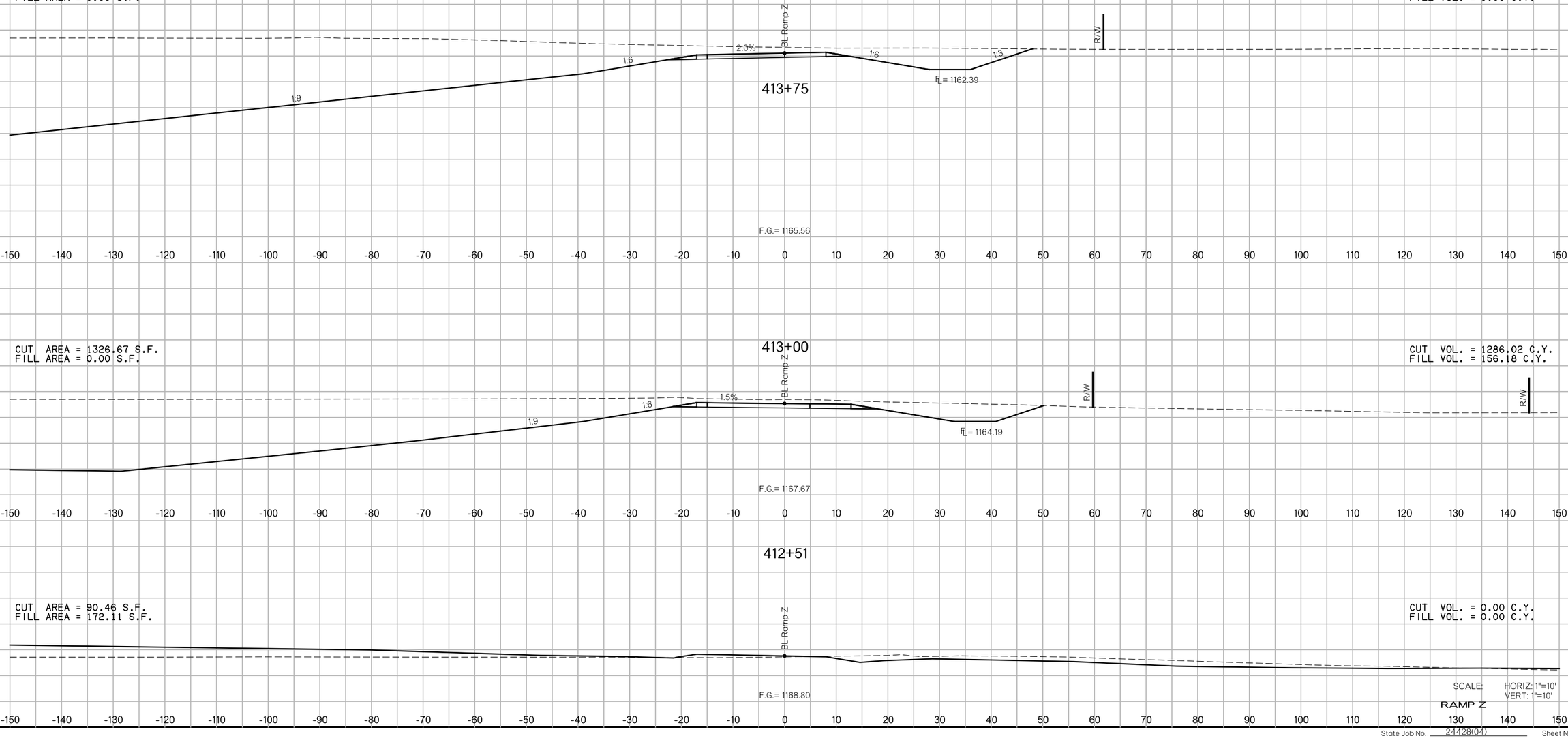
PROPOSED
R/W
AUGUST 2017

CUT AREA = 1657.15 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 4122.66 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 1326.67 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 1286.02 C.Y.
FILL VOL. = 156.18 C.Y.

CUT AREA = 90.46 S.F.
FILL AREA = 172.11 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 0.00 C.Y.

SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP Z

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04)

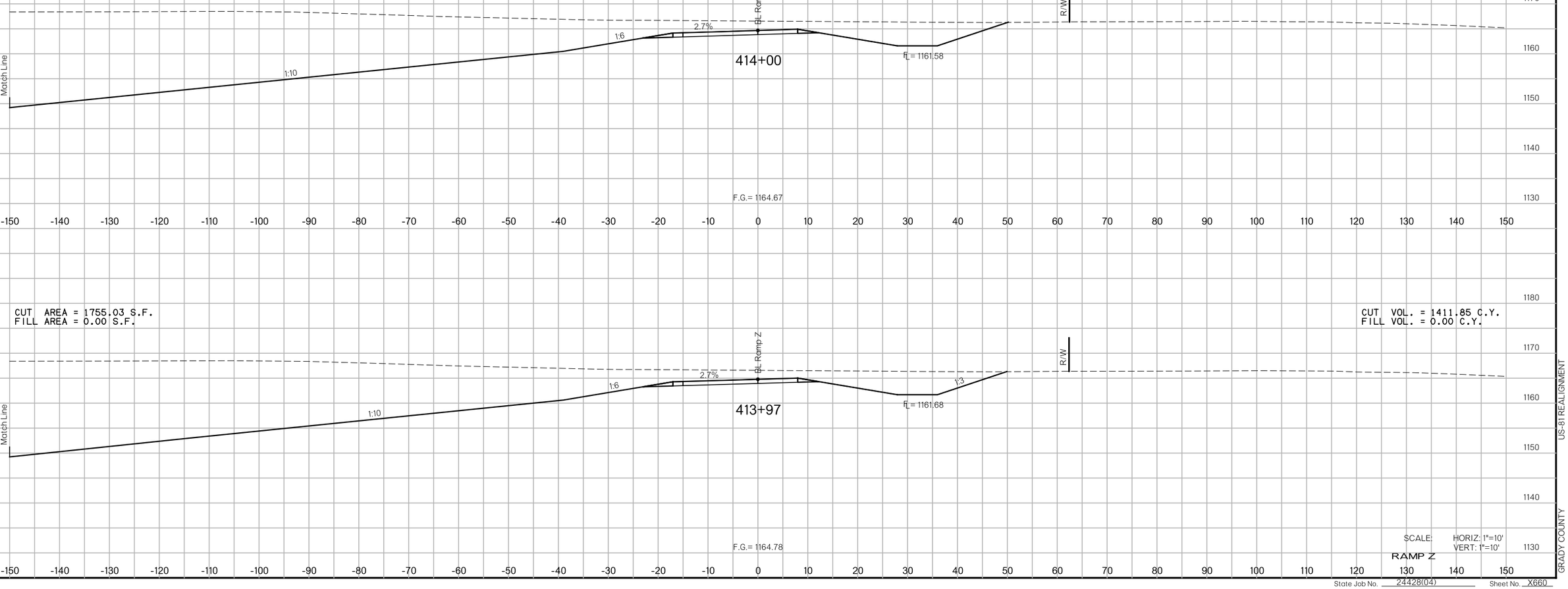
Sheet No. X659

8/27/2017

PROPOSED
R/W
AUGUST 2017

CUT AREA = 1769.82 S.F.
FILL AREA = 0.01 S.F.

CUT VOL. = 198.86 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 1755.03 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 1411.85 C.Y.
FILL VOL. = 0.00 C.Y.

SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP Z

State Job No. 24428(04) Sheet No. X660

US-81 REALIGNMENT
GRADY COUNTY

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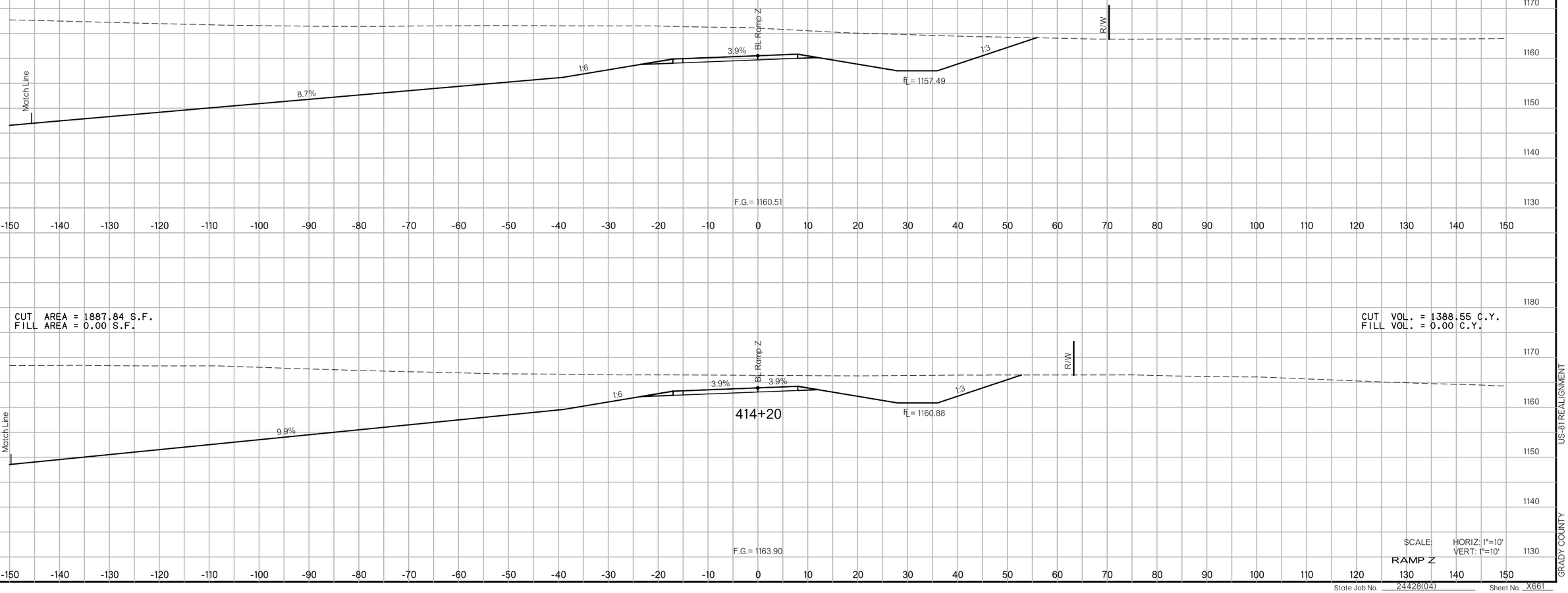
PROPOSED
R/W
AUGUST 2017

CUT AREA = 2310.96 S.F.
FILL AREA = 0.00 S.F.

415+00

CUT VOL. = 6181.57 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 1887.84 S.F.
FILL AREA = 0.00 S.F.

414+20

CUT VOL. = 1388.55 C.Y.
FILL VOL. = 0.00 C.Y.

SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP Z

US-81 REALIGNMENT

GRADY COUNTY

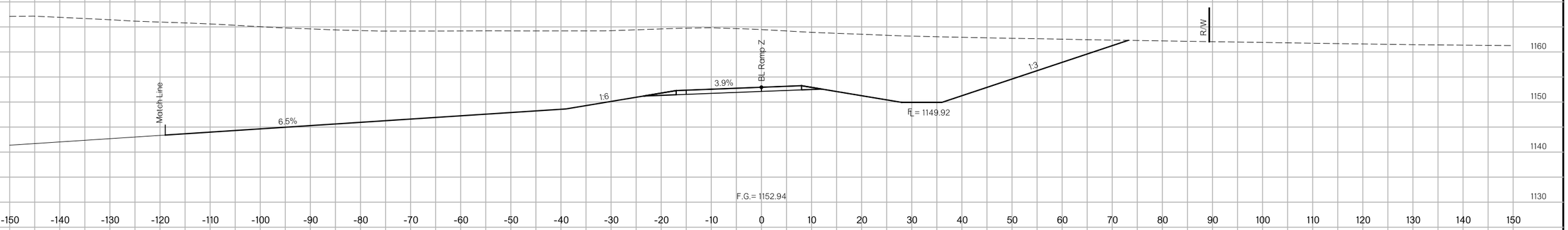
State Job No. 24428(04) Sheet No. X661

PROPOSED
R/W
AUGUST 2017

CUT AREA = 2702.06 S.F.
FILL AREA = 0.00 S.F.

416+74

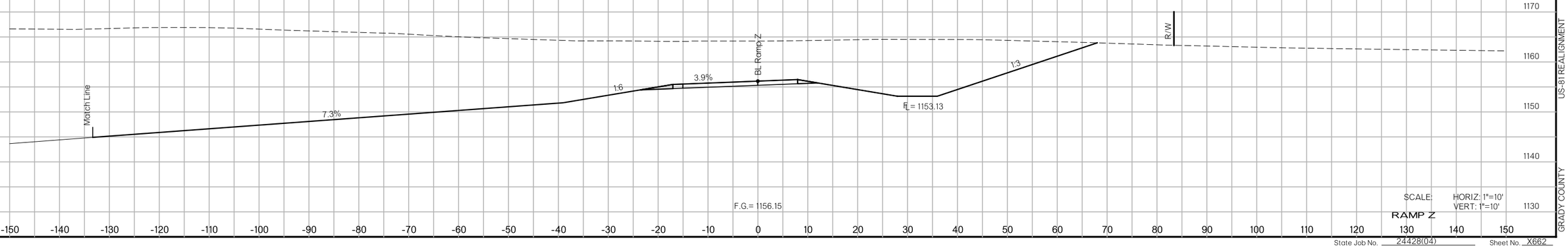
CUT VOL. = 7215.28 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 2585.30 S.F.
FILL AREA = 0.00 S.F.

416+00

CUT VOL. = 9067.14 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP Z

State Job No. 24428(04) Sheet No. X662

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US-81 REALIGNMENT

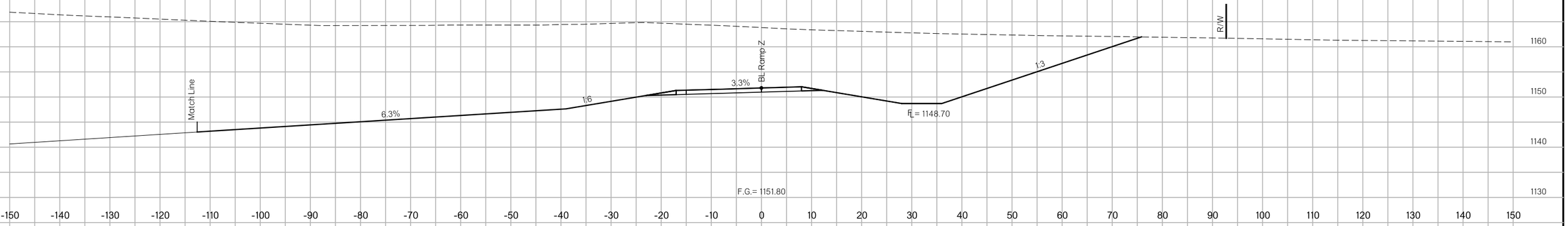
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

CUT AREA = 2716.69 S.F.
FILL AREA = 0.00 S.F.

417+00

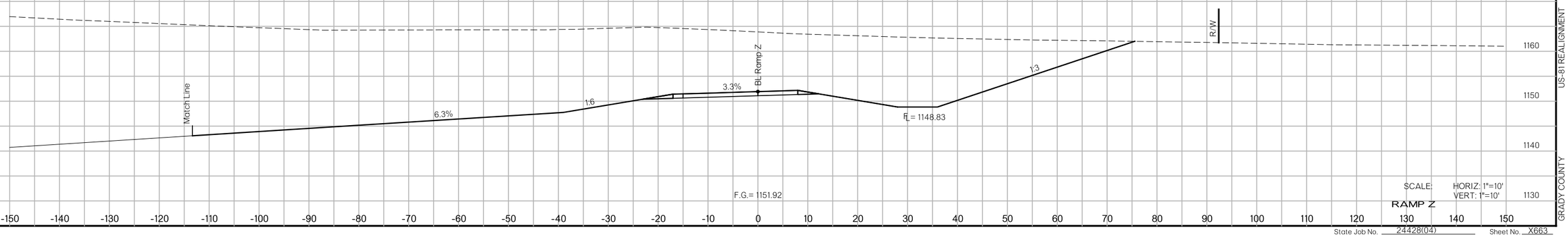
CUT VOL. = 277.33 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 2716.15 S.F.
FILL AREA = 0.00 S.F.

416+97

CUT VOL. = 2363.28 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP Z

State Job No. 24428(04) Sheet No. X663

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US-81 REALIGNMENT
GRADY COUNTY

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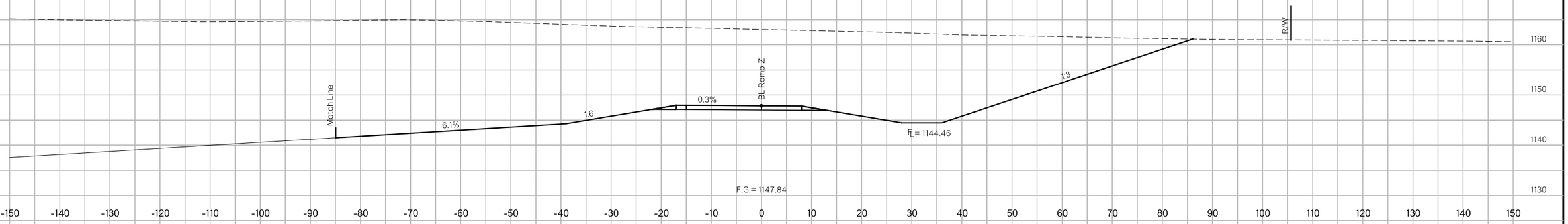
PROPOSED
R/W
AUGUST 2017

418+00

CUT AREA = 4208.46 S.F.
FILL AREA = 0.00 S.F.

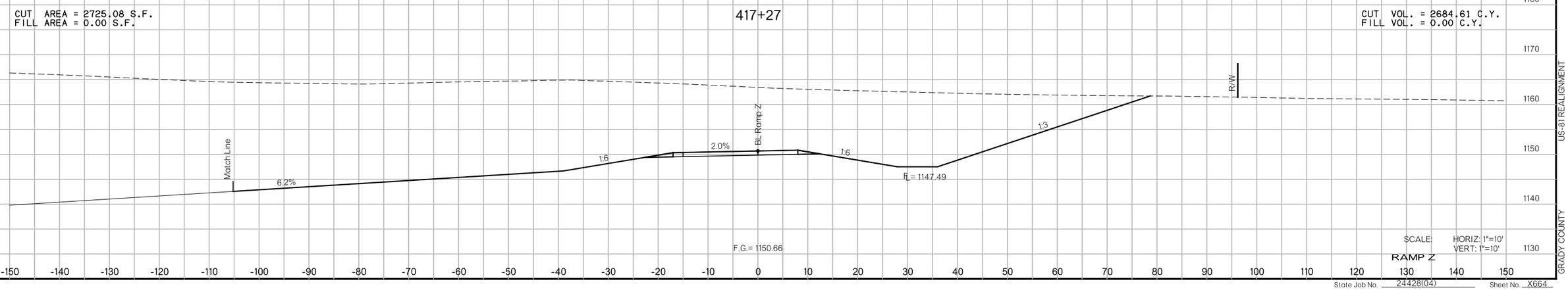
CUT VOL. = 9419.34 C.Y.
FILL VOL. = 0.00 C.Y.



417+27

CUT AREA = 2725.08 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 2684.61 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP Z

State Job No. 24428(04) Sheet No. X664

US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

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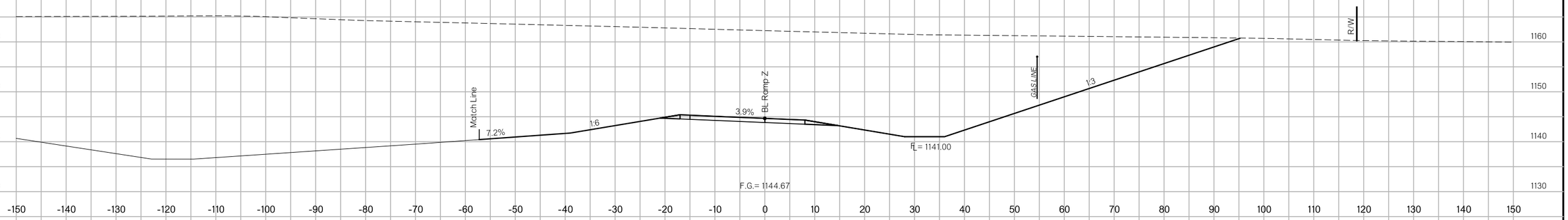
PROPOSED
R/W
AUGUST 2017

419+00

CUT AREA = 4627.84 S.F.
FILL AREA = 0.00 S.F.

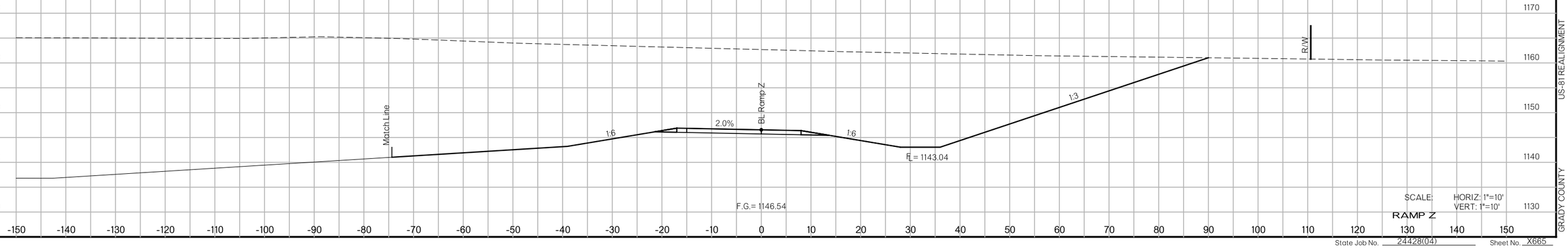
CUT VOL. = 8575.01 C.Y.
FILL VOL. = 0.00 C.Y.



418+38

CUT AREA = 2854.00 S.F.
FILL AREA = 0.00 S.F.

CUT VOL. = 4984.27 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP Z

US-81 REALIGNMENT

GRADY COUNTY

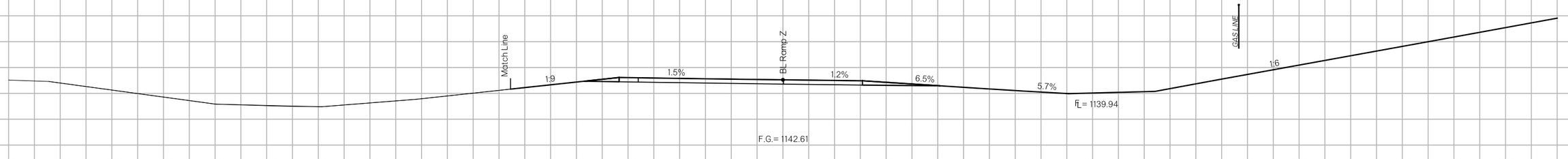
State Job No. 24428(04) Sheet No. X665

8/27/2017

PROPOSED
R/W
AUGUST 2017

CUT AREA = 5888.53 S.F.
FILL AREA = 0.00 S.F.

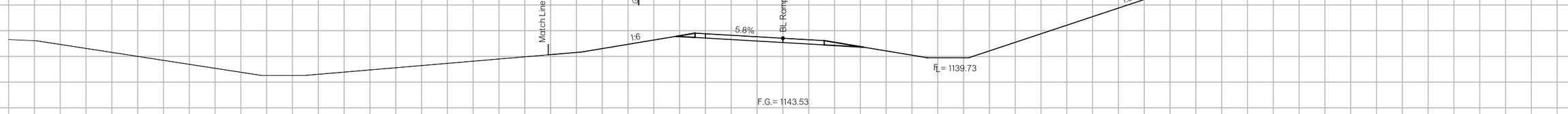
419+85



CUT AREA = 4962.33 S.F.
FILL AREA = 0.00 S.F.

419+44

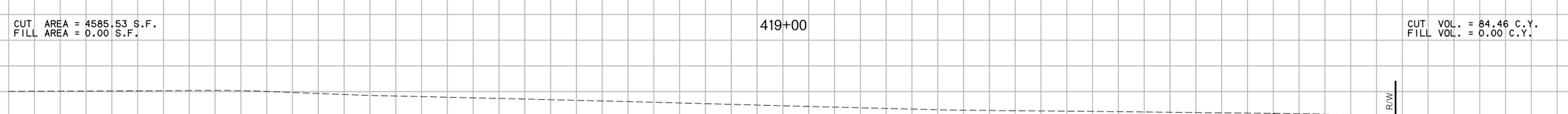
CUT VOL. = 7692.21 C.Y.
FILL VOL. = 0.00 C.Y.



CUT AREA = 4585.53 S.F.
FILL AREA = 0.00 S.F.

419+00

CUT VOL. = 84.46 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP Z

State Job No. 24428(04) Sheet No. X666

US-81 REALIGNMENT
GRADY COUNTY

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PROPOSED
R/W
AUGUST 2017

CUT AREA = 6892.74 S.F.
FILL AREA = 0.00 S.F.

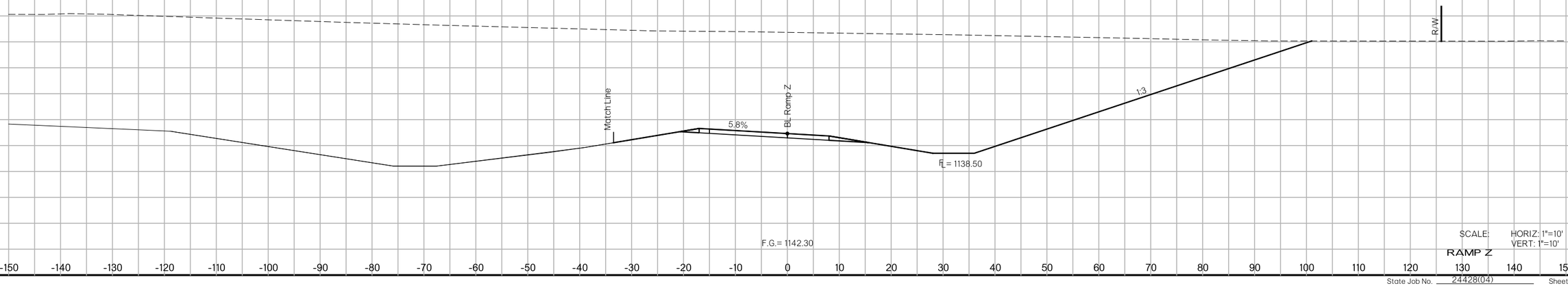
420+86

(155) STA. 420+81.00
CONST. 2-30"X104' LG RCP SKEWED 45°RF
61.75' LT & 42.25' RT W/PCES'S MSRD ALONG SKEW
FL LT = 1134.70, FL RT = 1133.80

CUT AREA = 4999.18 S.F.
FILL AREA = 0.00 S.F.

420+00

CUT VOL. = 10330.45 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP Z

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US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X667

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PROPOSED
R/W
AUGUST 2017

CUT AREA = 5704.69 S.F.
FILL AREA = 0.00 S.F.

422+00

CUT VOL. = 20481.45 C.Y.
FILL VOL. = 0.00 C.Y.

PGL US-81
Match Line
BL Ramp Z
GAS LINE
1:6
5.8%
1:3
FL = 1136.54
F.G.= 1139.94

CUT AREA = 5355.30 S.F.
FILL AREA = 0.00 S.F.

421+00

CUT VOL. = 19174.96 C.Y.
FILL VOL. = 0.00 C.Y.

PGL US-81
Match Line
BL Ramp Z
R/W
1.1%
1:6
5.8%
1:3
FL = 1136.93
F.G.= 1140.72

SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP Z

State Job No. 24428(04) Sheet No. X668

US-81 REALIGNMENT

GRADY COUNTY

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8/27/2017

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PROPOSED
R/W
AUGUST 2017

CUT AREA = 5721.87 S.F.
FILL AREA = 0.00 S.F.

423+01

CUT VOL. = 21474.00 C.Y.
FILL VOL. = 0.00 C.Y.

PGL US-81

PGL US-81

Match Line

5.8%

BL Ramp Z

GAS LINE

1:6

1:3

F.G.= 1139.96

$SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP Z

US-81 REALIGNMENT

GRADY COUNTY

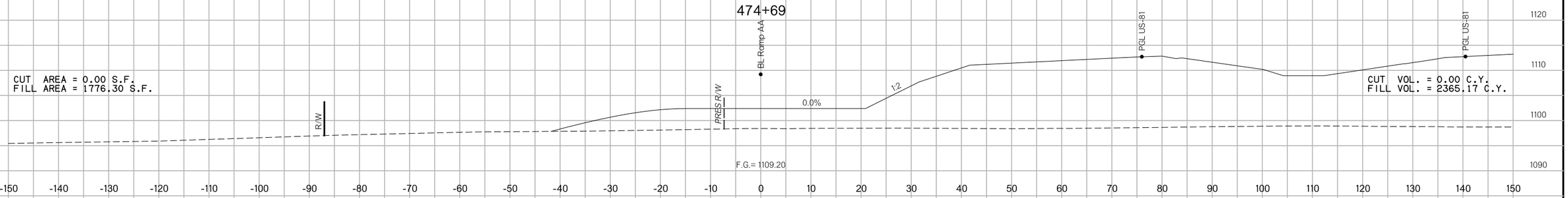
State Job No. 24428(04)

Sheet No. X669

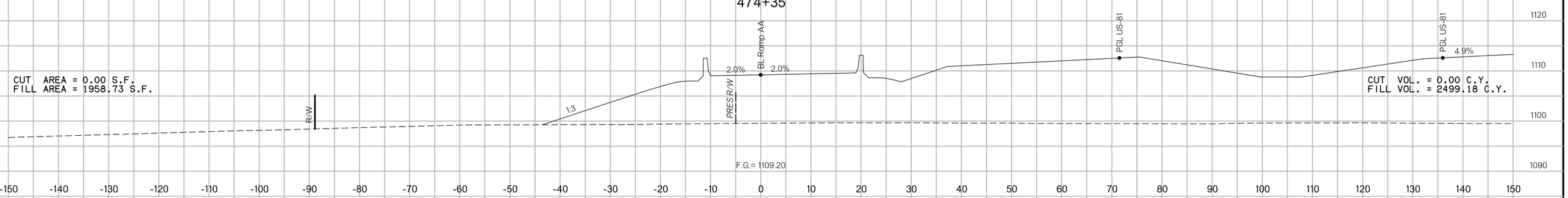
8/27/2017

PROPOSED
R/W
AUGUST 2017

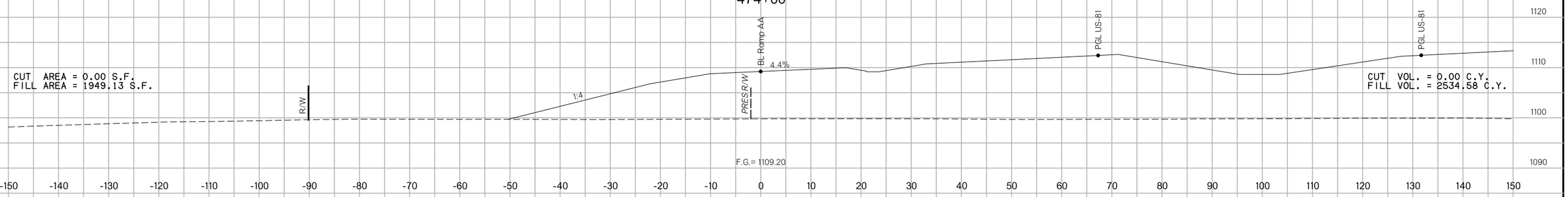
474+69



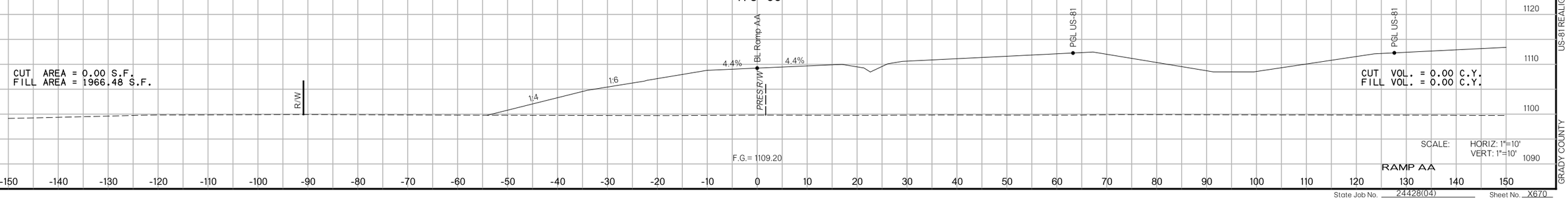
474+35



474+00



473+65



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP AA

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US-81 REALIGNMENT

GRADY COUNTY

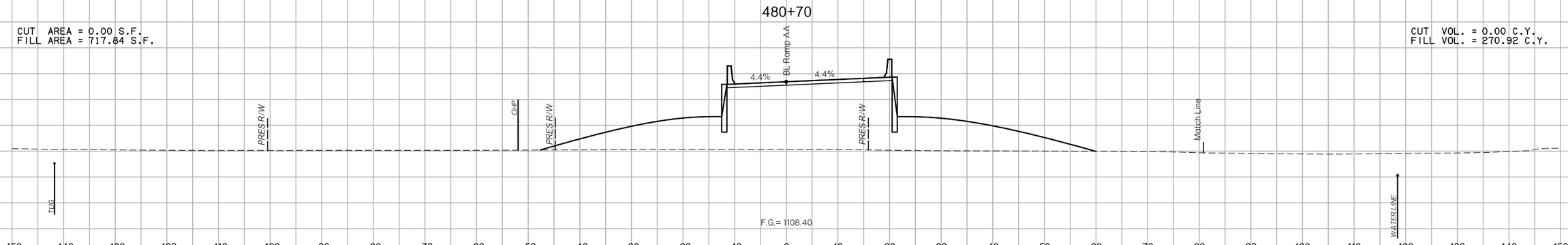
State Job No. 24428(04) Sheet No. X670

PROPOSED
R/W
AUGUST 2017

480+70

CUT AREA = 0.00 S.F.
FILL AREA = 717.84 S.F.

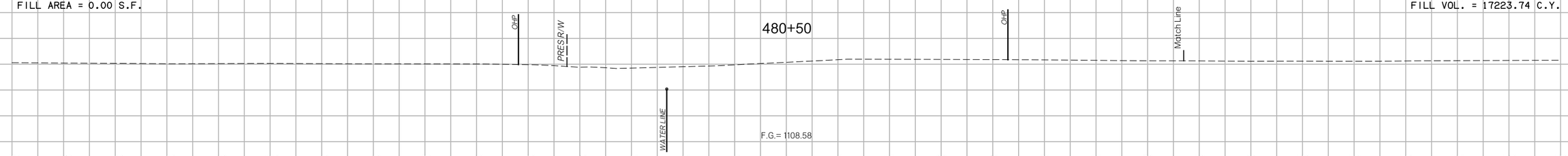
CUT VOL. = 0.00 C.Y.
FILL VOL. = 270.92 C.Y.



480+50

CUT AREA = 0.00 S.F.
FILL AREA = 0.00 S.F.

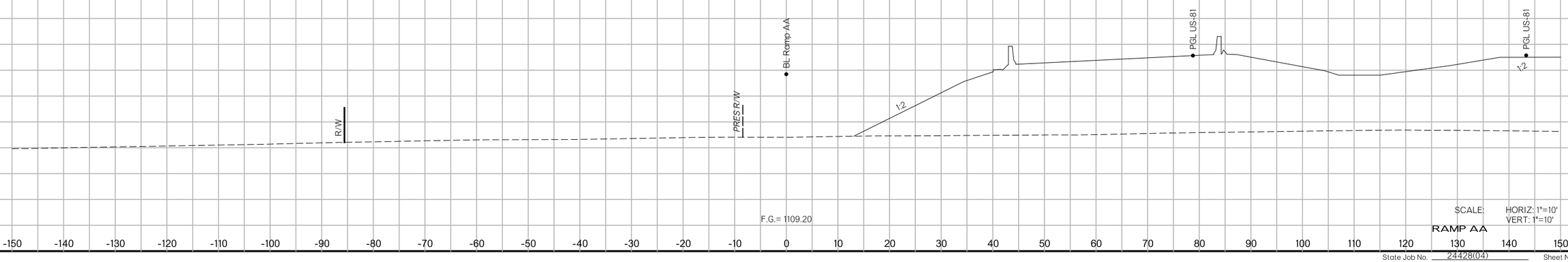
CUT VOL. = 0.00 C.Y.
FILL VOL. = 17223.74 C.Y.



474+89

CUT AREA = 0.00 S.F.
FILL AREA = 1658.37 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 1299.44 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP AA

State Job No. 24428(04) Sheet No. X671

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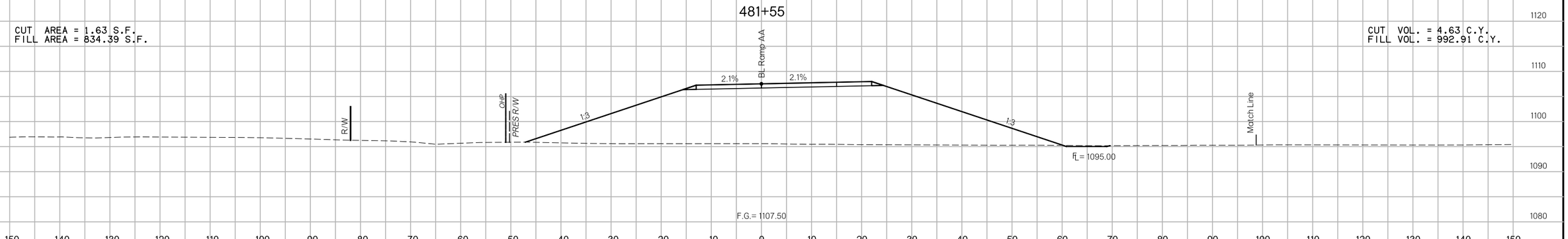
US-81 REALIGNMENT GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

481+55

CUT AREA = 1.63 S.F.
FILL AREA = 834.39 S.F.

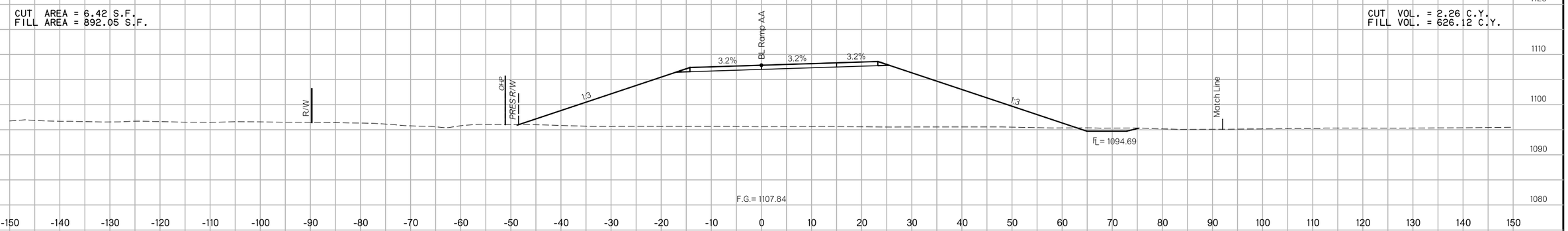
CUT VOL. = 4.63 C.Y.
FILL VOL. = 992.91 C.Y.



481+24

CUT AREA = 6.42 S.F.
FILL AREA = 892.05 S.F.

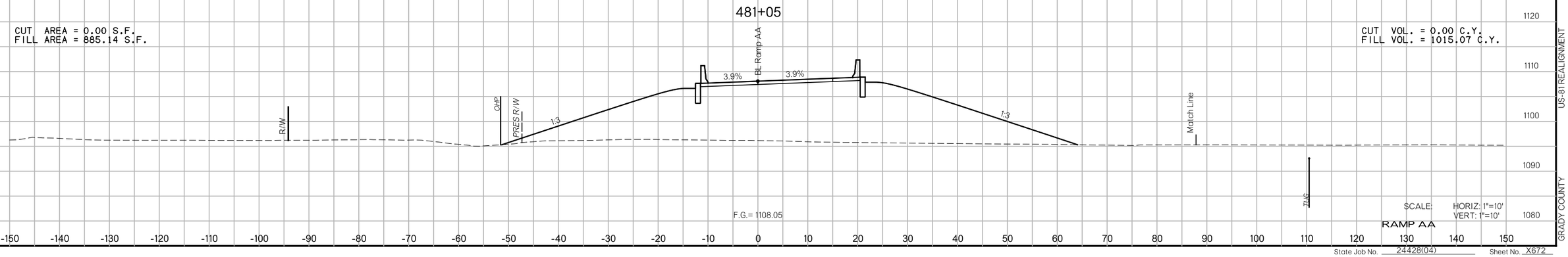
CUT VOL. = 2.26 C.Y.
FILL VOL. = 626.12 C.Y.



481+05

CUT AREA = 0.00 S.F.
FILL AREA = 885.14 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 1015.07 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP AA

State Job No. 24428(04) Sheet No. X672

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US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

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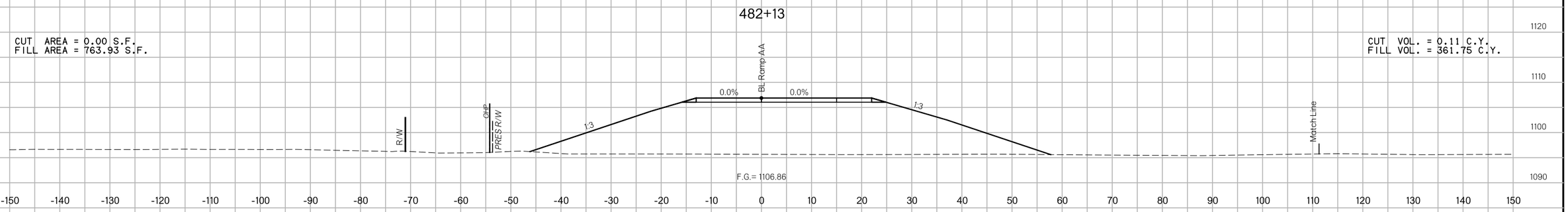
PROPOSED
R/W
AUGUST 2017

482+13

CUT AREA = 0.00 S.F.
FILL AREA = 763.93 S.F.

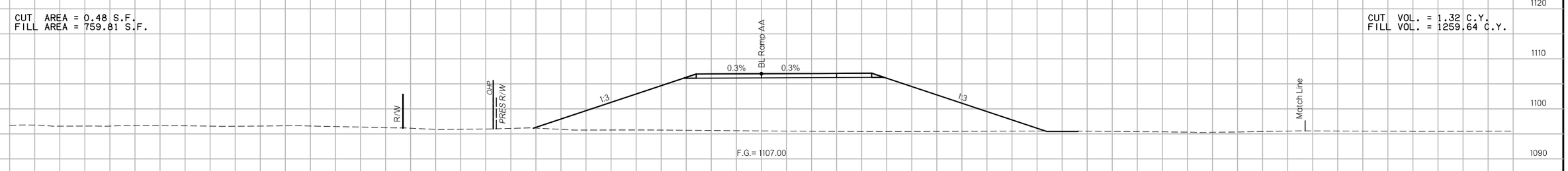
CUT VOL. = 0.11 C.Y.
FILL VOL. = 361.75 C.Y.



482+00

CUT AREA = 0.48 S.F.
FILL AREA = 759.81 S.F.

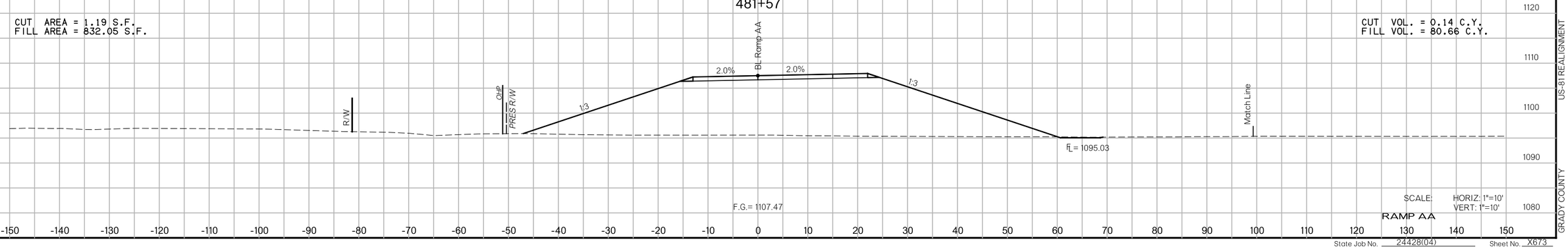
CUT VOL. = 1.32 C.Y.
FILL VOL. = 1259.64 C.Y.



481+57

CUT AREA = 1.19 S.F.
FILL AREA = 832.05 S.F.

CUT VOL. = 0.14 C.Y.
FILL VOL. = 80.66 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP AA

US-81 REALIGNMENT

GRADY COUNTY

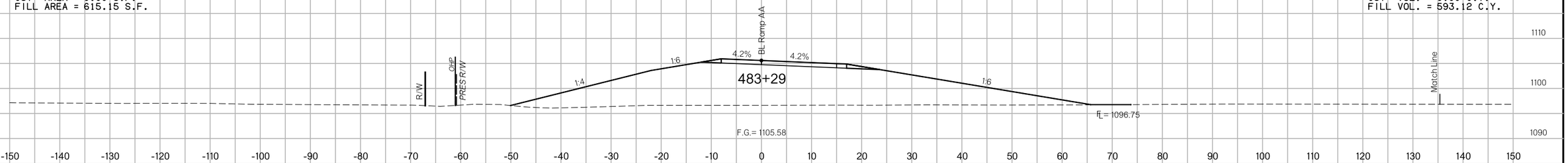
State Job No. 24428(04) Sheet No. X673

PROPOSED
R/W
AUGUST 2017

483+29

CUT AREA = 0.00 S.F.
FILL AREA = 615.15 S.F.

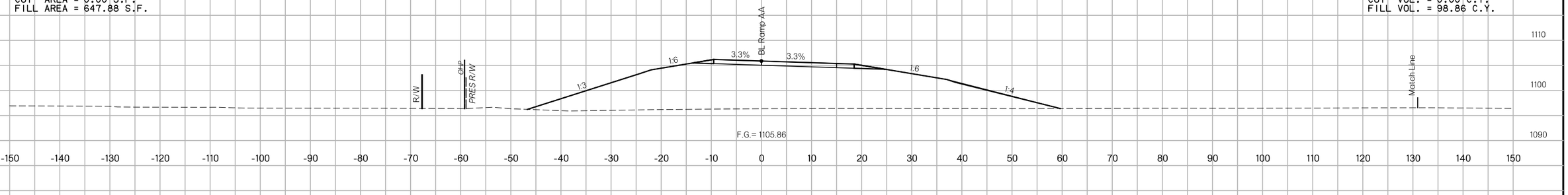
CUT VOL. = 0.00 C.Y.
FILL VOL. = 593.12 C.Y.



483+04

CUT AREA = 0.00 S.F.
FILL AREA = 647.88 S.F.

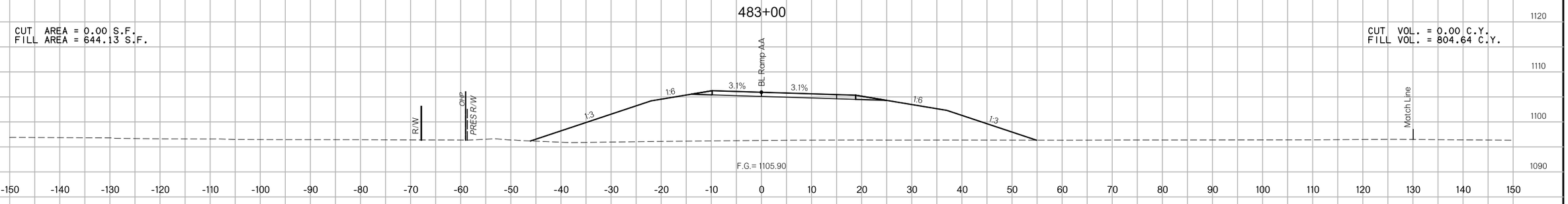
CUT VOL. = 0.00 C.Y.
FILL VOL. = 98.86 C.Y.



483+00

CUT AREA = 0.00 S.F.
FILL AREA = 644.13 S.F.

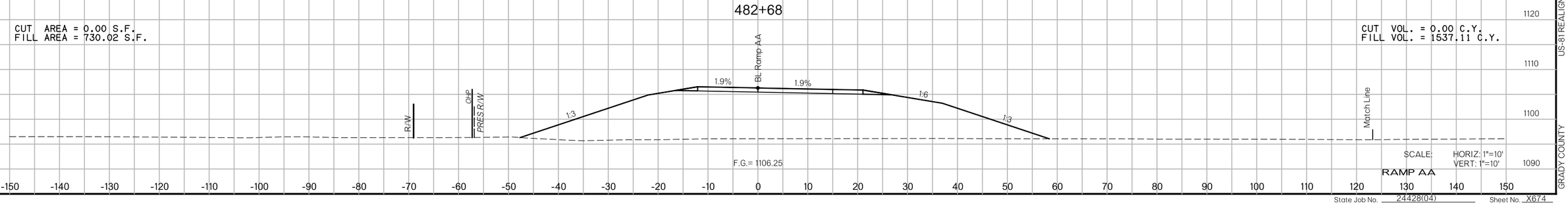
CUT VOL. = 0.00 C.Y.
FILL VOL. = 804.64 C.Y.



482+68

CUT AREA = 0.00 S.F.
FILL AREA = 730.02 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 1537.11 C.Y.



$SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP AA

State Job No. 24428(04) Sheet No. X674

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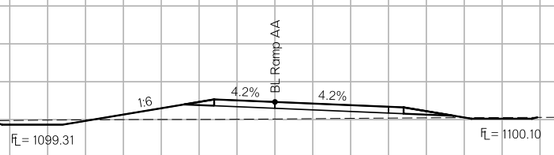
US-81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

486+66

CUT AREA = 7.58 S.F.
FILL AREA = 52.13 S.F.

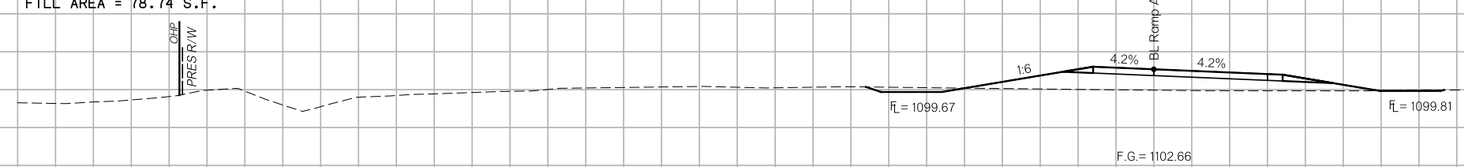
CUT VOL. = 17.70 C.Y.
FILL VOL. = 159.74 C.Y.



486+00

CUT AREA = 6.92 S.F.
FILL AREA = 78.74 S.F.

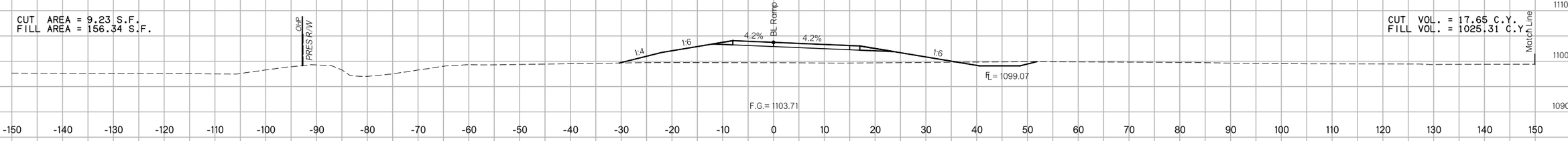
CUT VOL. = 29.91 C.Y.
FILL VOL. = 435.33 C.Y.



485+00

CUT AREA = 9.23 S.F.
FILL AREA = 156.34 S.F.

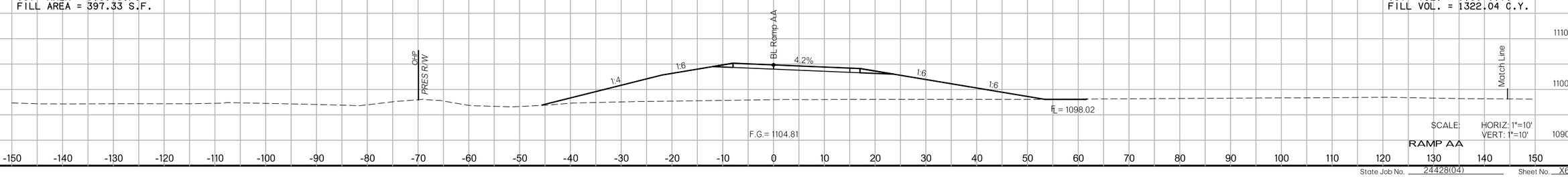
CUT VOL. = 17.65 C.Y.
FILL VOL. = 1025.31 C.Y.



484+00

CUT AREA = 0.30 S.F.
FILL AREA = 397.33 S.F.

CUT VOL. = 0.39 C.Y.
FILL VOL. = 1322.04 C.Y.



$SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP AA

State Job No. 24428(04) Sheet No. X675

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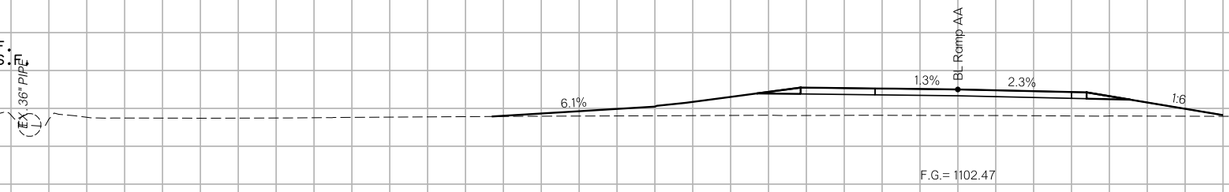
US-81 REALIGNMENT
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

487+75

CUT AREA = 0.00 S.F.
FILL AREA = 181.86 S.F.

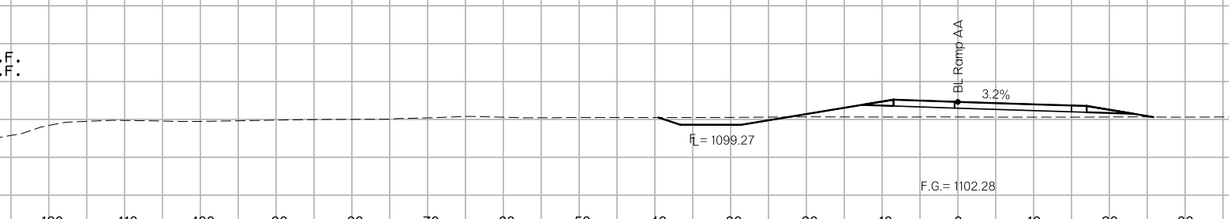
CUT VOL. = 11.31 C.Y.
FILL VOL. = 209.12 C.Y.



487+25

CUT AREA = 12.23 S.F.
FILL AREA = 44.32 S.F.

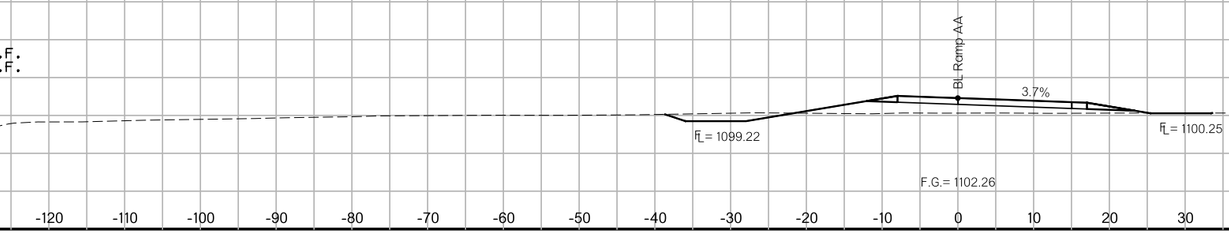
CUT VOL. = 11.82 C.Y.
FILL VOL. = 40.19 C.Y.



487+00

CUT AREA = 13.22 S.F.
FILL AREA = 42.24 S.F.

CUT VOL. = 13.13 C.Y.
FILL VOL. = 59.57 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP AA

State Job No. 24428(04) Sheet No. X676

US-81 REALIGNMENT
GRADY COUNTY

8/27/2017
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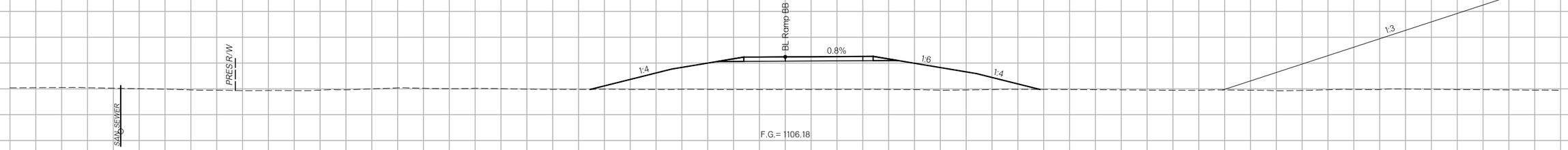
PROPOSED
R/W
AUGUST 2017

491+00

CUT AREA = 0.00 S.F.
FILL AREA = 1045.79 S.F.

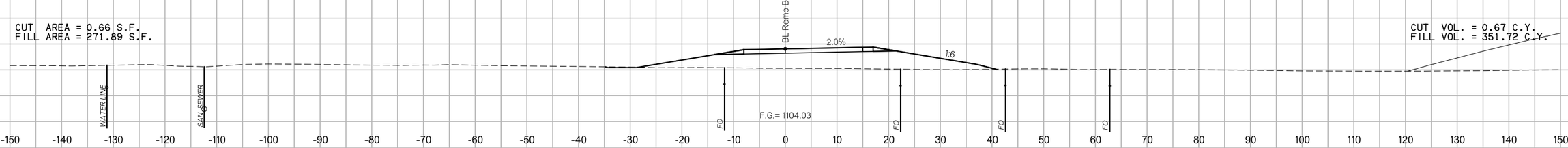
CUT VOL. = 1.22 C.Y.
FILL VOL. = 2440.15 C.Y.



490+00

CUT AREA = 0.66 S.F.
FILL AREA = 271.89 S.F.

CUT VOL. = 0.67 C.Y.
FILL VOL. = 351.72 C.Y.

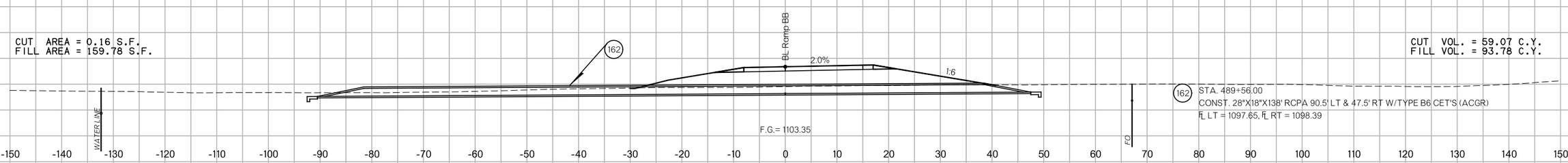


489+56

CUT AREA = 0.16 S.F.
FILL AREA = 159.78 S.F.

CUT VOL. = 59.07 C.Y.
FILL VOL. = 93.78 C.Y.

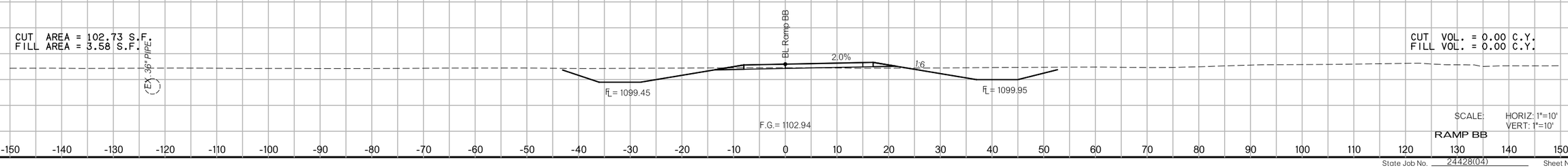
(162) STA. 489+56.00
CONST. 28"X18"X138' RCPA 90.5' LT & 47.5' RT W/TYPE B6 CET'S (ACGR)
FL LT = 1097.65, FL RT = 1098.39



489+25

CUT AREA = 102.73 S.F.
FILL AREA = 3.58 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP BB

State Job No. 24428(04) Sheet No. X677

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US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

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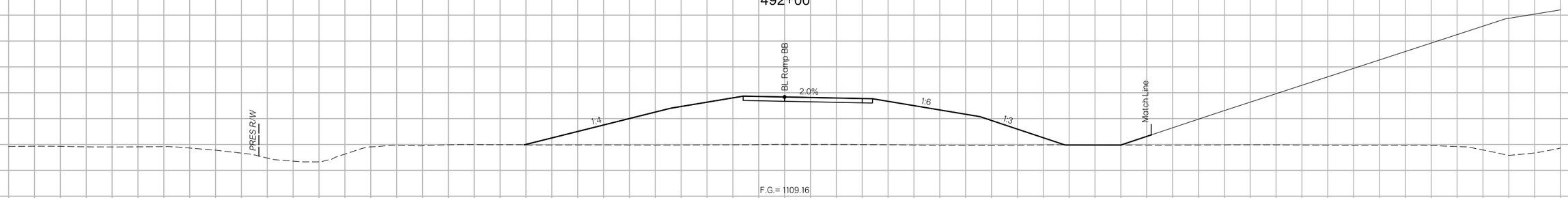
PROPOSED
R/W
AUGUST 2017

CUT AREA = 0.34 S.F.
FILL AREA = 1825.57 S.F.

CUT VOL. = 0.07 C.Y.
FILL VOL. = 720.44 C.Y.

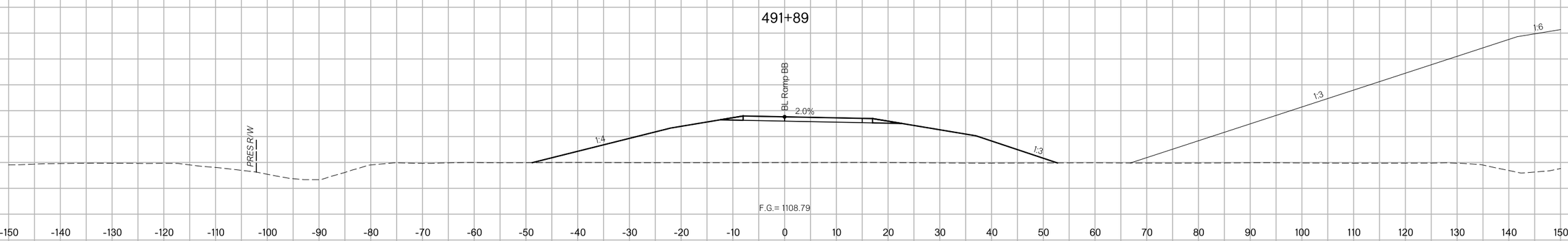
492+00



CUT AREA = 0.00 S.F.
FILL AREA = 1718.59 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 2425.35 C.Y.

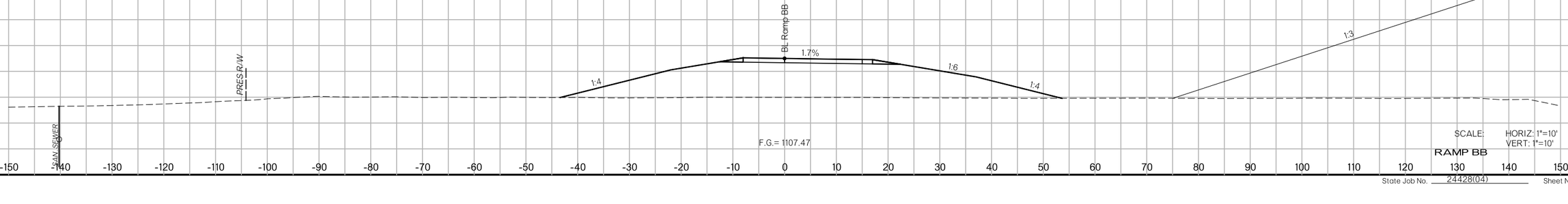
491+89



CUT AREA = 0.00 S.F.
FILL AREA = 1383.72 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 2105.88 C.Y.

491+47



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP BB

US-81 REALIGNMENT

GRADY COUNTY

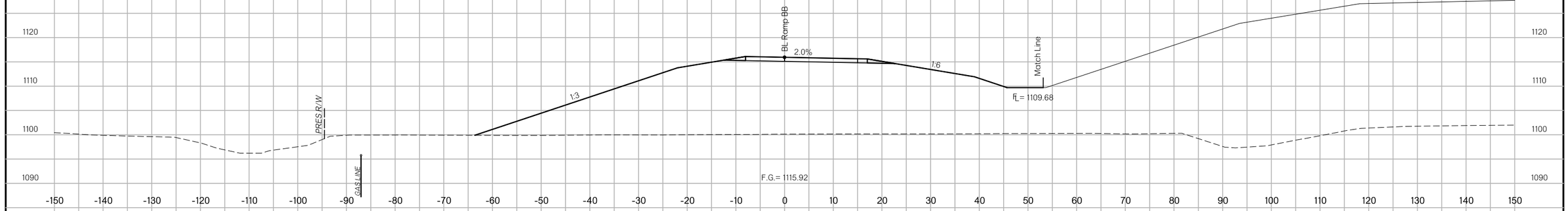
State Job No. 24428(04) Sheet No. X678

PROPOSED
R/W
AUGUST 2017

CUT AREA = 0.00 S.F.
FILL AREA = 3422.64 S.F.

494+00

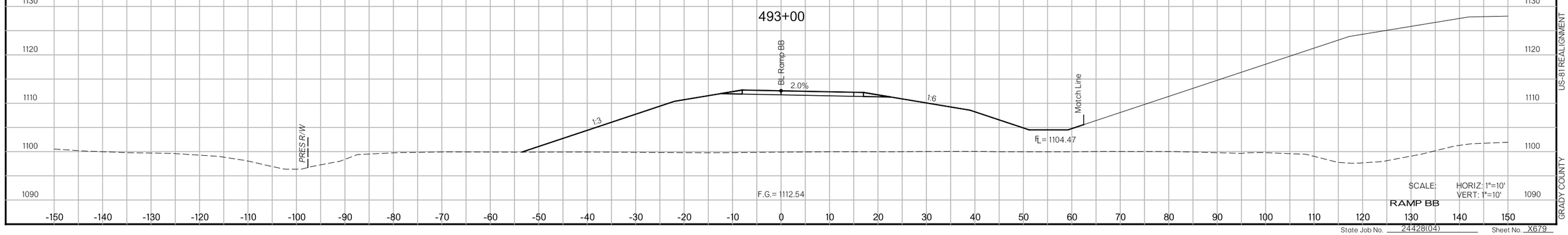
CUT VOL. = 0.00 C.Y.
FILL VOL. = 11292.24 C.Y.



CUT AREA = 0.00 S.F.
FILL AREA = 2675.17 S.F.

493+00

CUT VOL. = 0.64 C.Y.
FILL VOL. = 8334.71 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP BB

State Job No. 24428(04) Sheet No. X679

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US-81 REALIGNMENT

GRADY COUNTY

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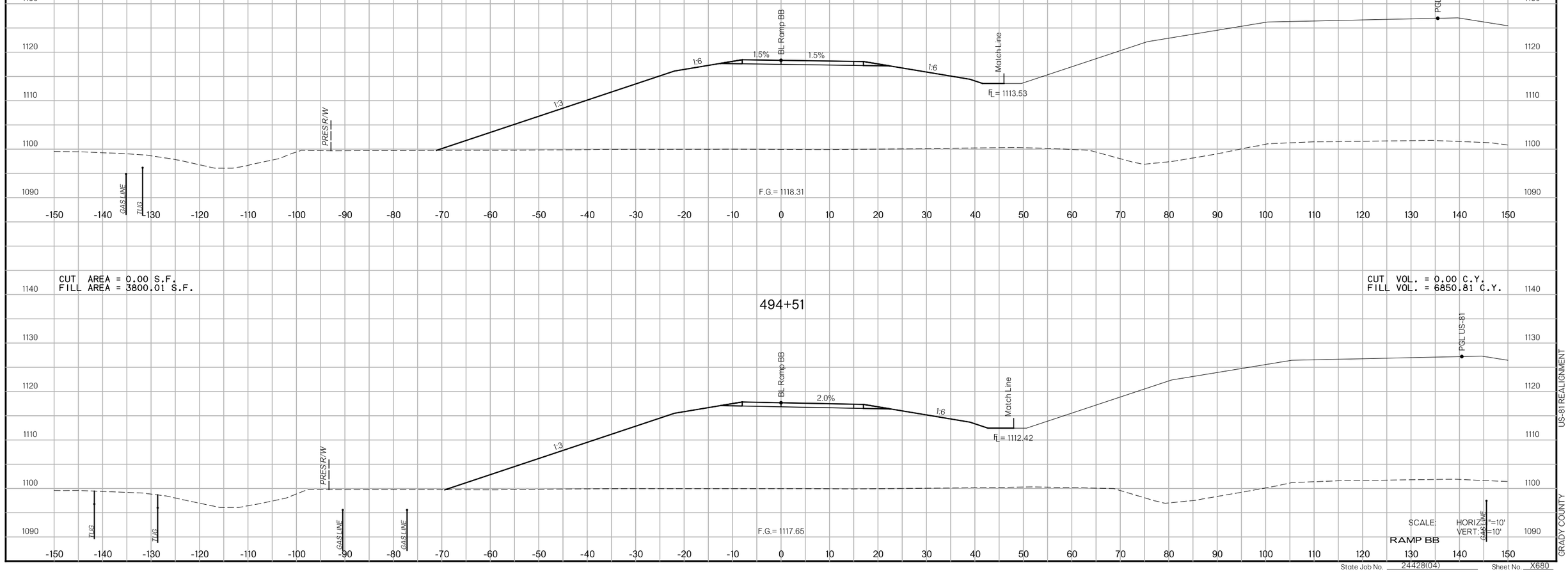
PROPOSED
R/W
AUGUST 2017

CUT AREA = 0.00 S.F.
FILL AREA = 3926.80 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 2790.31 C.Y.

494+71



CUT AREA = 0.00 S.F.
FILL AREA = 3800.01 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 6850.81 C.Y.

494+51

$CALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP BB

US-81 REALIGNMENT
GRADY COUNTY

State Job No. 24428(04) Sheet No. X680

8/27/2017

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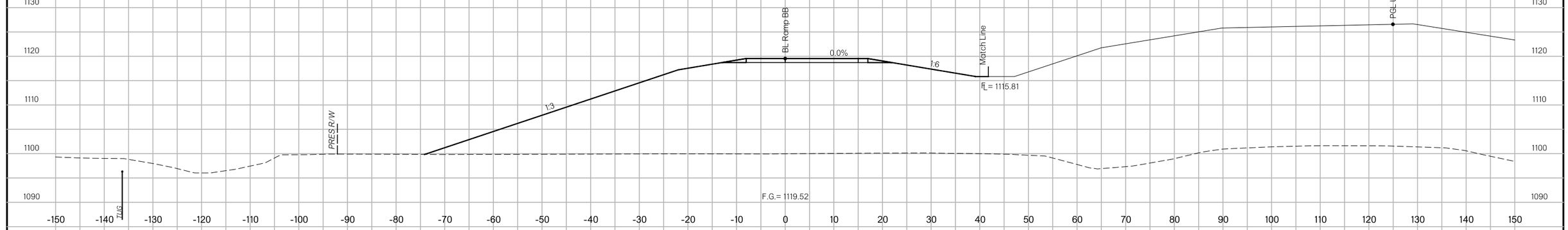
PROPOSED
R/W
AUGUST 2017

CUT AREA = 0.00 S.F.
FILL AREA = 4162.54 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 1716.65 C.Y.

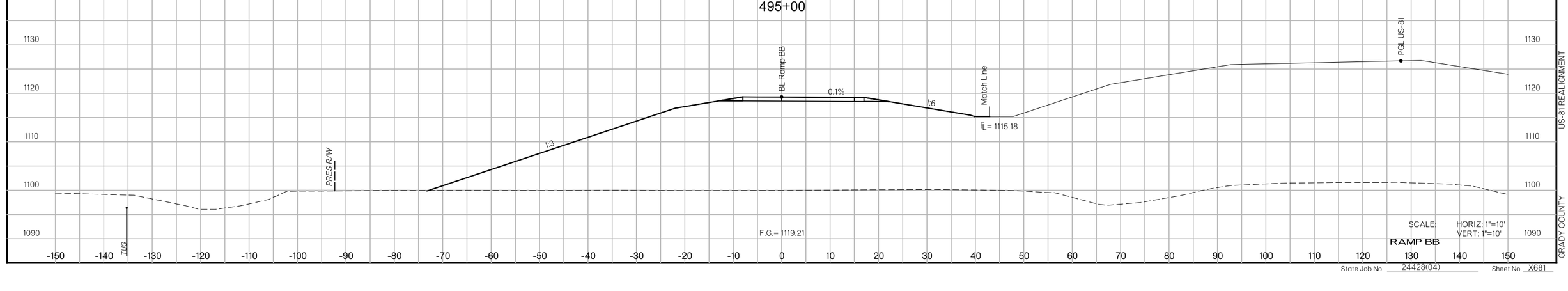
495+11



CUT AREA = 0.01 S.F.
FILL AREA = 4099.41 S.F.

CUT VOL. = 0.01 C.Y.
FILL VOL. = 4351.91 C.Y.

495+00



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP BB

State Job No. 24428(04) Sheet No. X681

US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

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PROPOSED
R/W
AUGUST 2017

CUT AREA = 0.00 S.F.
FILL AREA = 4578.60 S.F.

496+28

CUT VOL. = 0.00 C.Y.
FILL VOL. = 4755.97 C.Y.

BL Ramp BB

4.1%

Match Line

PGL US-81

FL= 1120.76

FL= 1121.47

1:3

PRES R/W

TWG

F.G.= 1121.77

CUT AREA = 0.00 S.F.
FILL AREA = 4522.23 S.F.

496+00

CUT VOL. = 0.00 C.Y.
FILL VOL. = 14278.40 C.Y.

BL Ramp BB

2.7%

Match Line

PGL US-81

FL= 1119.90

FL= 1121.77

1:3

PRES R/W

TWG

F.G.= 1121.39

1140
1130
1120
1110
1100
1090

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP BB

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04) Sheet No. X682

8/27/2017

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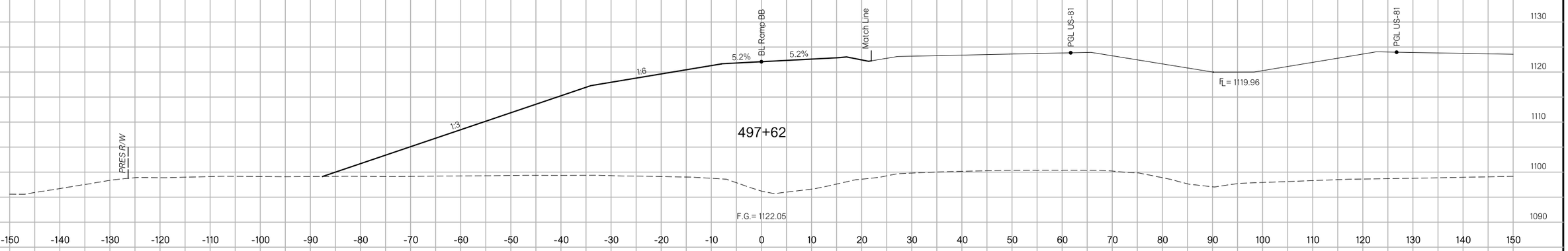
PROPOSED
R/W
AUGUST 2017

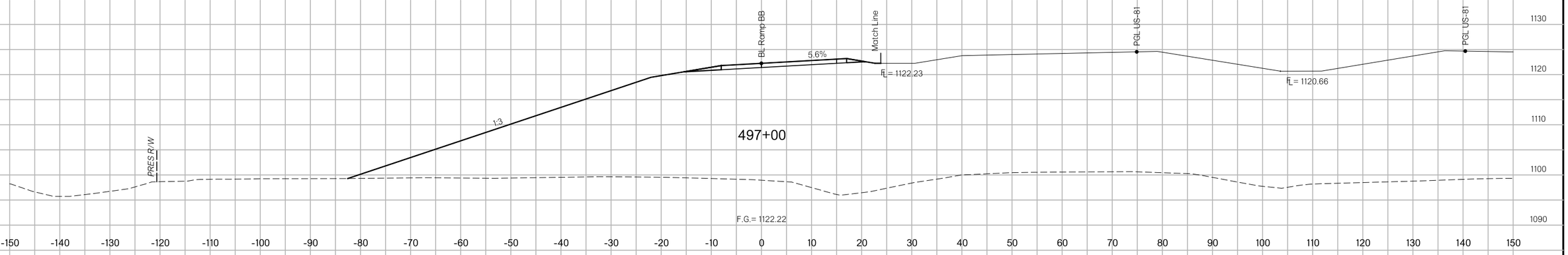
CUT AREA = 0.00 S.F.
FILL AREA = 4774.99 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 10902.39 C.Y.



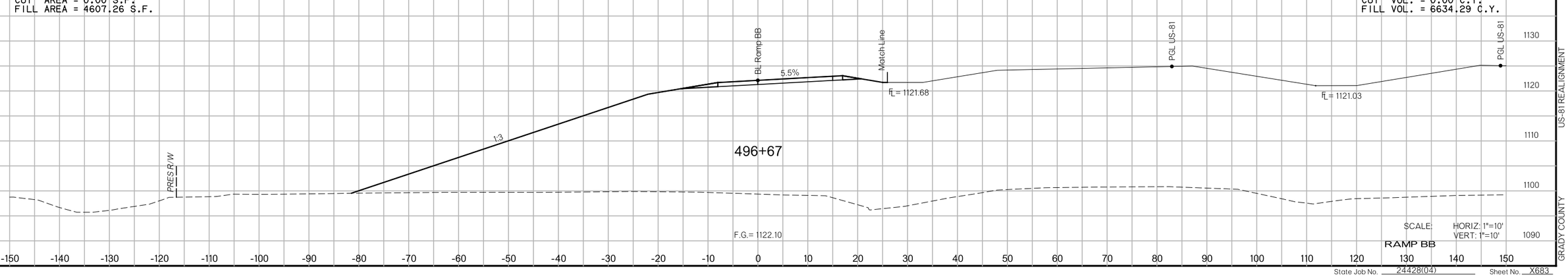
CUT AREA = 0.00 S.F.
FILL AREA = 4676.07 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 5635.32 C.Y.



CUT AREA = 0.00 S.F.
FILL AREA = 4607.26 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 6634.29 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP BB

US-81 REALIGNMENT

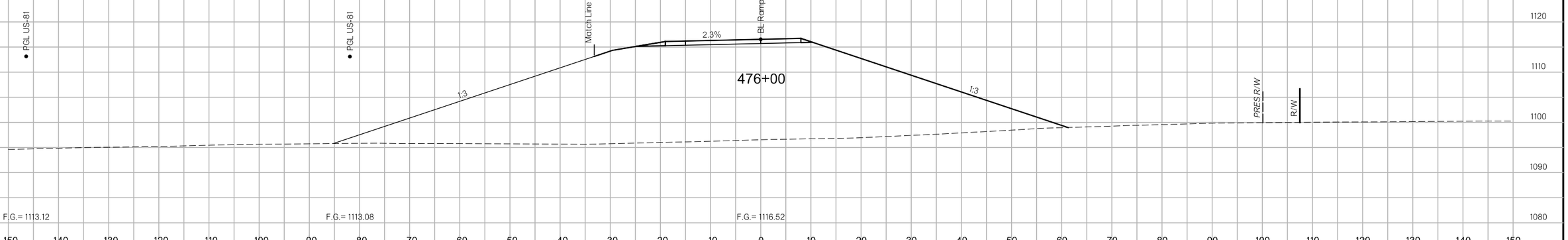
GRADY COUNTY

State Job No. 24428(04) Sheet No. X683

PROPOSED
R/W
AUGUST 2017

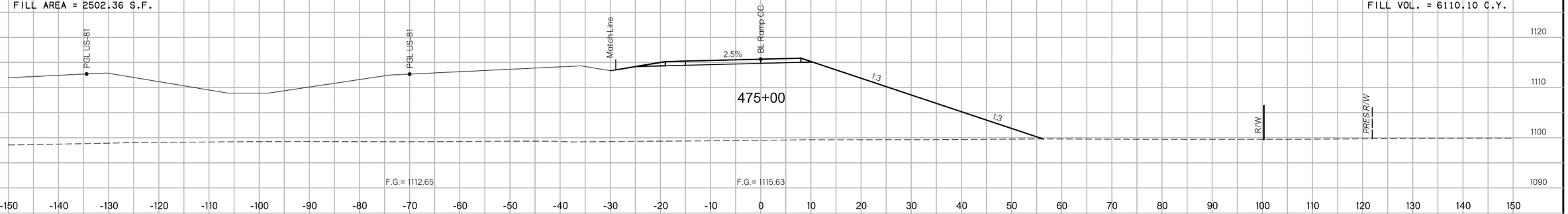
CUT AREA = 0.00 S.F.
FILL AREA = 1777.78 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 7926.19 C.Y.



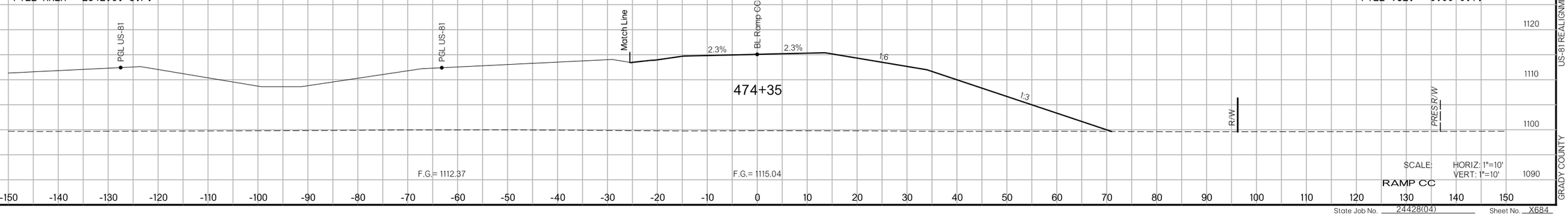
CUT AREA = 0.00 S.F.
FILL AREA = 2502.36 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 6110.10 C.Y.



CUT AREA = 0.00 S.F.
FILL AREA = 2542.61 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP CC

State Job No. 24428(04) Sheet No. X684

8/27/2017 7:29:55 PM

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US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

7:29:55 PM

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US-81 REALIGNMENT

GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

476+85

CUT AREA = 0.00 S.F.
FILL AREA = 30.81 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 1343.79 C.Y.

4.4%

0.0%

PRES R/W

R/W

476+42

CUT AREA = 0.00 S.F.
FILL AREA = 1638.21 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 1924.16 C.Y.

PGL US-81

Match Line

BL Ramp CC

2.3%

2.3%

1:3

1:3

F.G.= 1113.27

F.G.= 1116.89

476+12

CUT AREA = 0.00 S.F.
FILL AREA = 1817.98 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 769.71 C.Y.

PGL US-81

PGL US-81

Match Line

BL Ramp CC

2.3%

2.3%

1:3

1:3

F.G.= 1113.17

F.G.= 1113.14

F.G.= 1116.62

1130
1120
1110
1100
1090
1080

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP CC

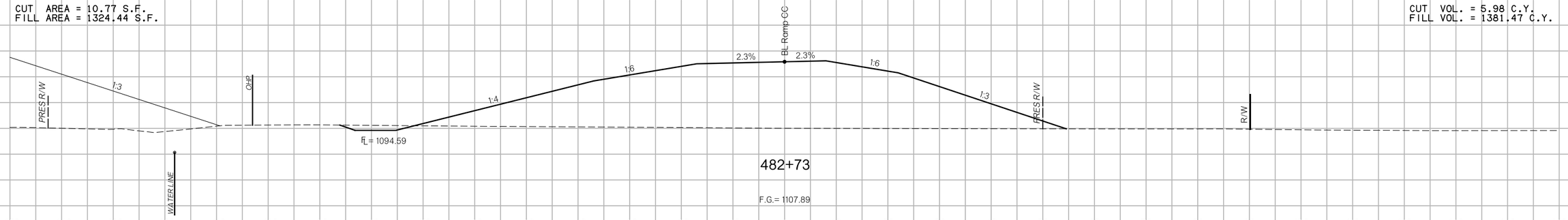
State Job No. 24428(04)

Sheet No. X685

PROPOSED
R/W
AUGUST 2017

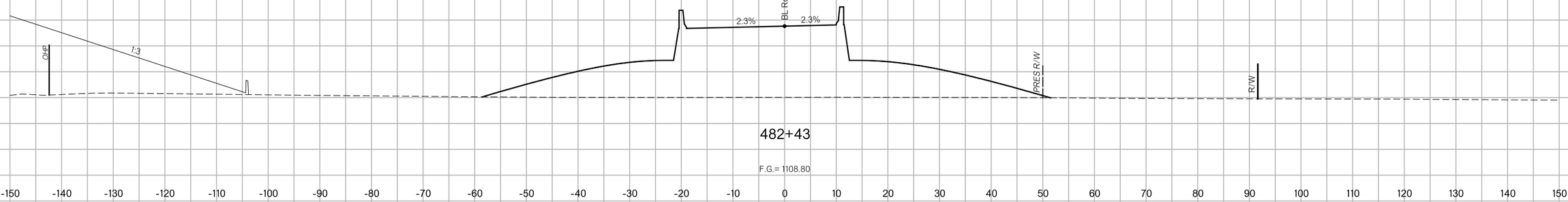
CUT AREA = 10.77 S.F.
FILL AREA = 1324.44 S.F.

CUT VOL. = 5.98 C.Y.
FILL VOL. = 1381.47 C.Y.



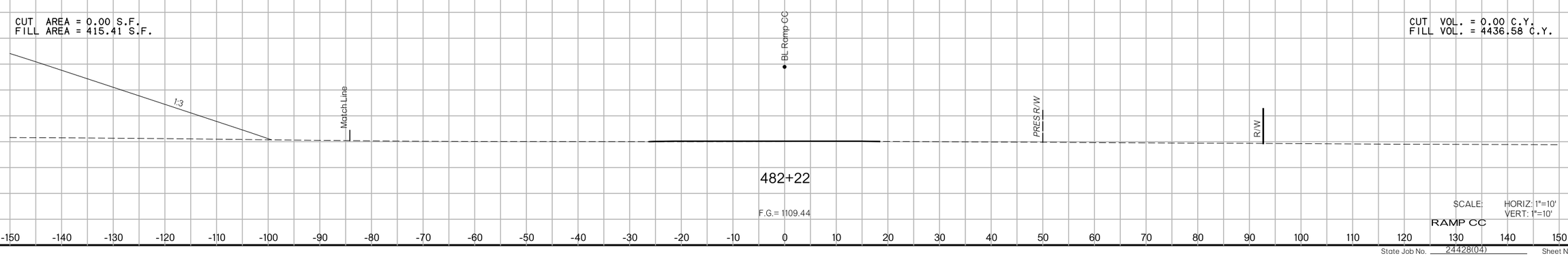
CUT AREA = 0.00 S.F.
FILL AREA = 1162.21 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 621.97 C.Y.



CUT AREA = 0.00 S.F.
FILL AREA = 415.41 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 4436.58 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP CC

State Job No. 24428(04) Sheet No. X686

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US-81 REALIGNMENT

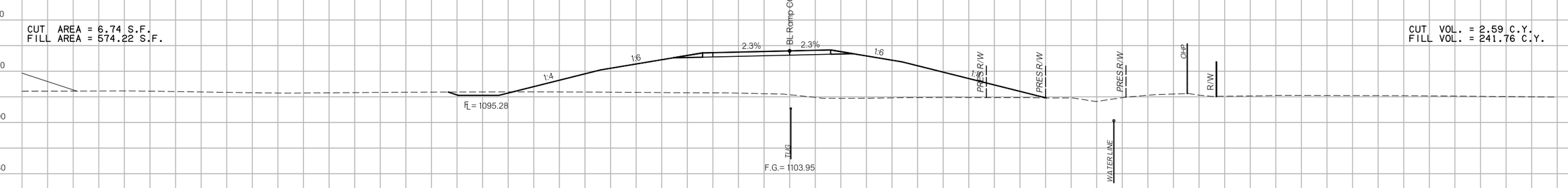
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

484+11

CUT AREA = 6.74 S.F.
FILL AREA = 574.22 S.F.

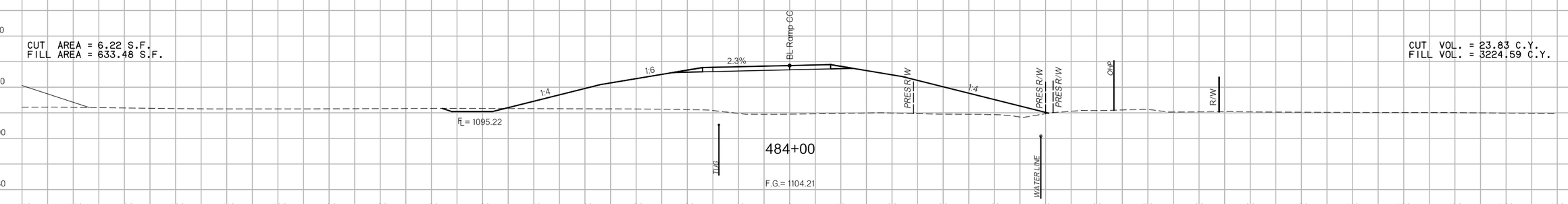
CUT VOL. = 2.59 C.Y.
FILL VOL. = 241.76 C.Y.



484+00

CUT AREA = 6.22 S.F.
FILL AREA = 633.48 S.F.

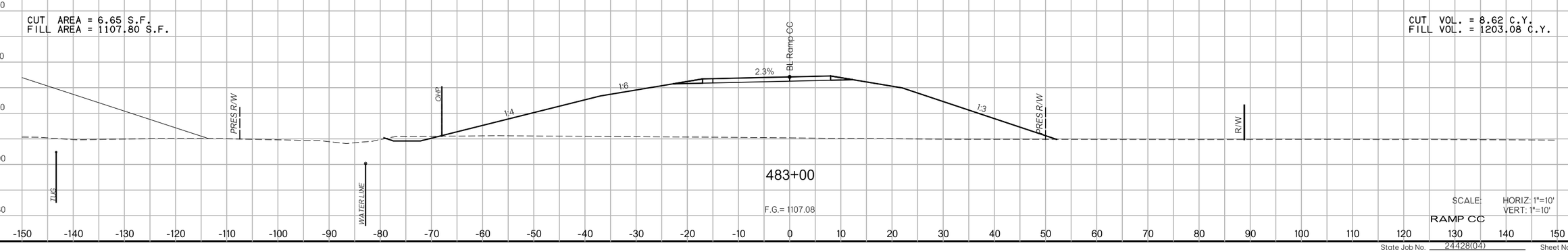
CUT VOL. = 23.83 C.Y.
FILL VOL. = 3224.59 C.Y.



483+00

CUT AREA = 6.65 S.F.
FILL AREA = 1107.80 S.F.

CUT VOL. = 8.62 C.Y.
FILL VOL. = 1203.08 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP CC

State Job No. 24428(04) Sheet No. X687

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US-81 REALIGNMENT

GRADY COUNTY

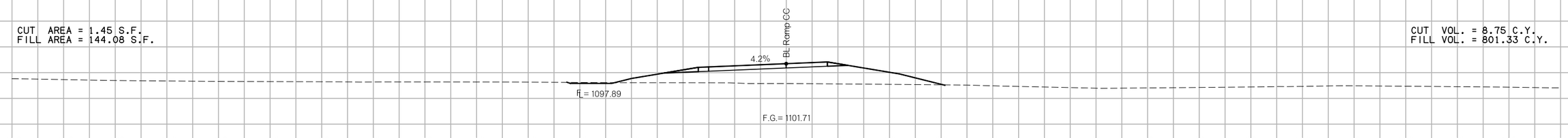
8/27/2017

PROPOSED
R/W
AUGUST 2017

486+00

CUT AREA = 1.45 S.F.
FILL AREA = 144.08 S.F.

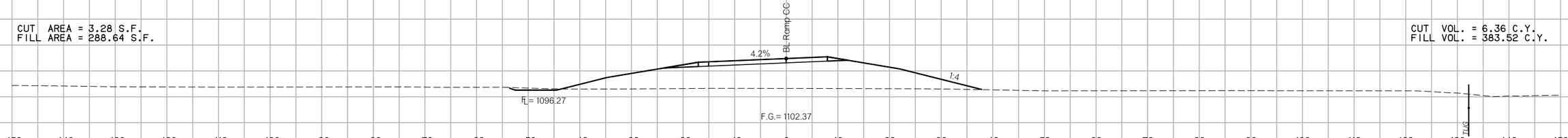
CUT VOL. = 8.75 C.Y.
FILL VOL. = 801.33 C.Y.



485+00

CUT AREA = 3.28 S.F.
FILL AREA = 288.64 S.F.

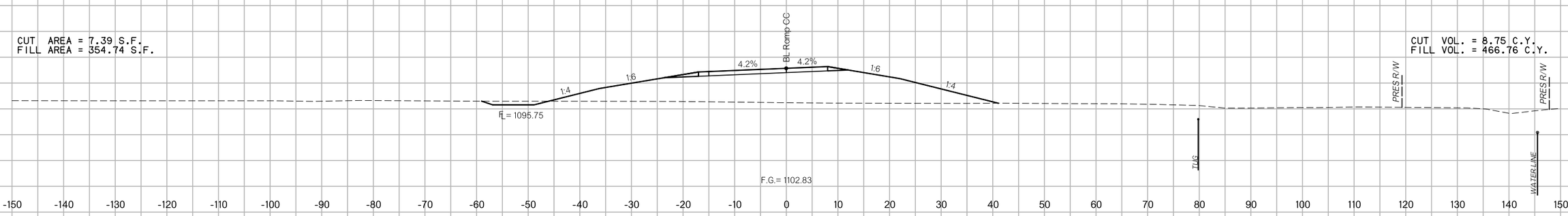
CUT VOL. = 6.36 C.Y.
FILL VOL. = 383.52 C.Y.



484+68

CUT AREA = 7.39 S.F.
FILL AREA = 354.74 S.F.

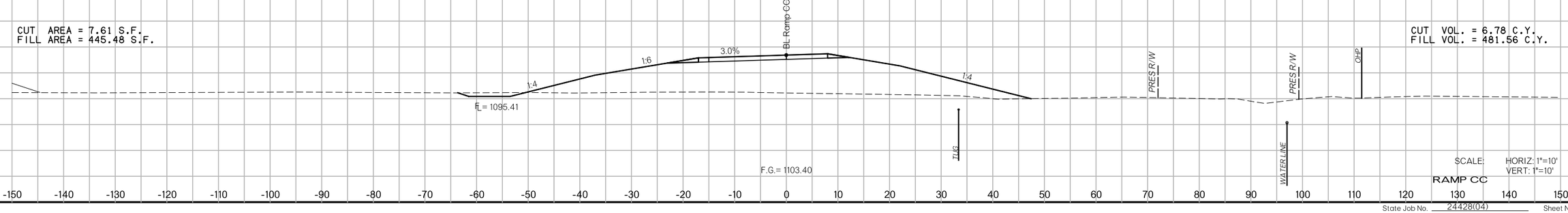
CUT VOL. = 8.75 C.Y.
FILL VOL. = 466.76 C.Y.



484+36

CUT AREA = 7.61 S.F.
FILL AREA = 445.48 S.F.

CUT VOL. = 6.78 C.Y.
FILL VOL. = 481.56 C.Y.



$CALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP CC

State Job No. 24428(04) Sheet No. X688

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US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

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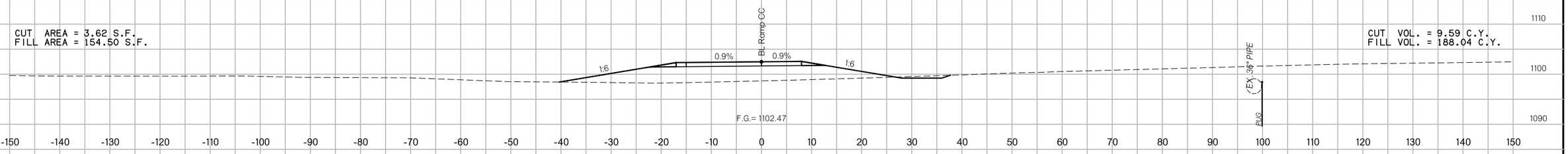
PROPOSED
R/W
AUGUST 2017

487+78

CUT AREA = 3.62 S.F.
FILL AREA = 154.50 S.F.

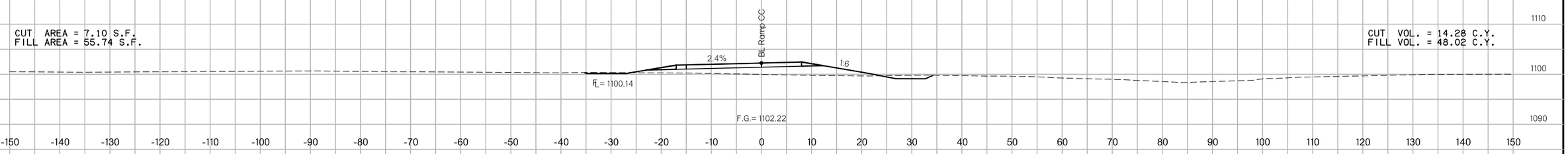
CUT VOL. = 9.59 C.Y.
FILL VOL. = 188.04 C.Y.



487+29

CUT AREA = 7.10 S.F.
FILL AREA = 55.74 S.F.

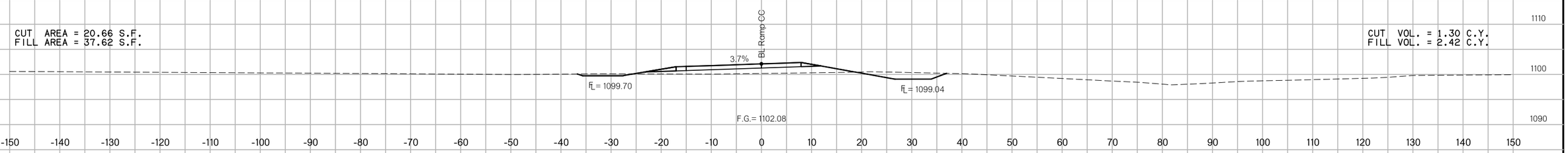
CUT VOL. = 14.28 C.Y.
FILL VOL. = 48.02 C.Y.



487+02

CUT AREA = 20.66 S.F.
FILL AREA = 37.62 S.F.

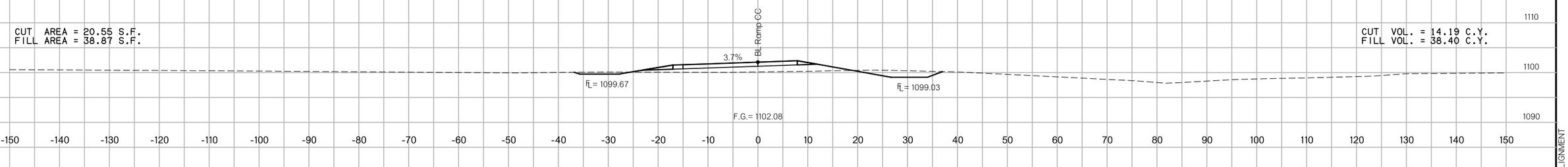
CUT VOL. = 1.30 C.Y.
FILL VOL. = 2.42 C.Y.



487+00

CUT AREA = 20.55 S.F.
FILL AREA = 38.87 S.F.

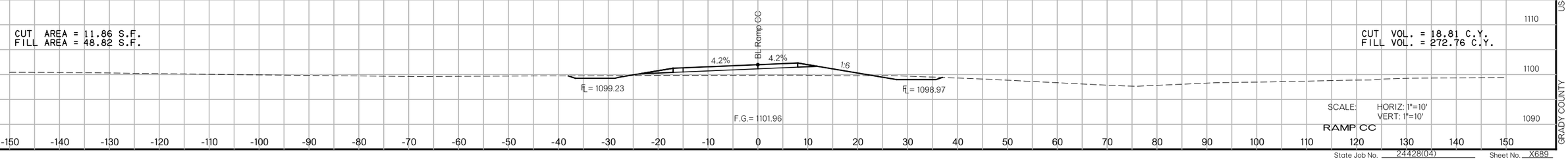
CUT VOL. = 14.19 C.Y.
FILL VOL. = 38.40 C.Y.



486+76

CUT AREA = 11.86 S.F.
FILL AREA = 48.82 S.F.

CUT VOL. = 18.81 C.Y.
FILL VOL. = 272.76 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP CC

State Job No. 24428(04) Sheet No. X689

US-81 REALIGNMENT

GRADY COUNTY

8/27/2017

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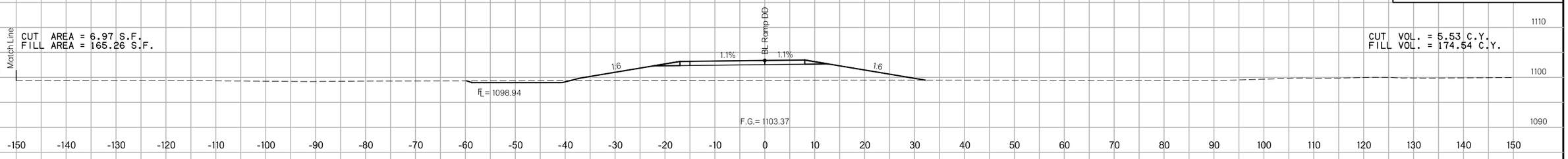
PROPOSED
R/W
AUGUST 2017

488+27

CUT AREA = 6.97 S.F.
FILL AREA = 165.26 S.F.

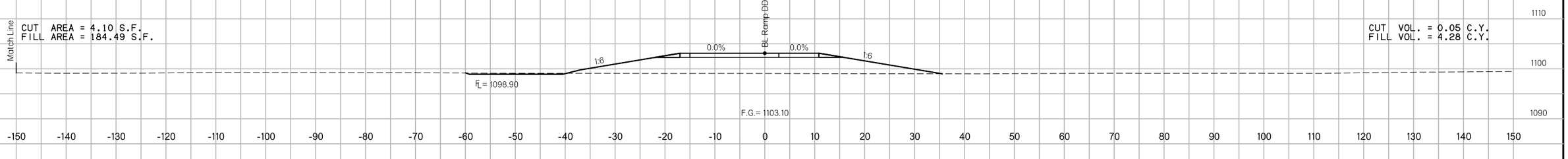
CUT VOL. = 5.53 C.Y.
FILL VOL. = 174.54 C.Y.



488+00

CUT AREA = 4.10 S.F.
FILL AREA = 184.49 S.F.

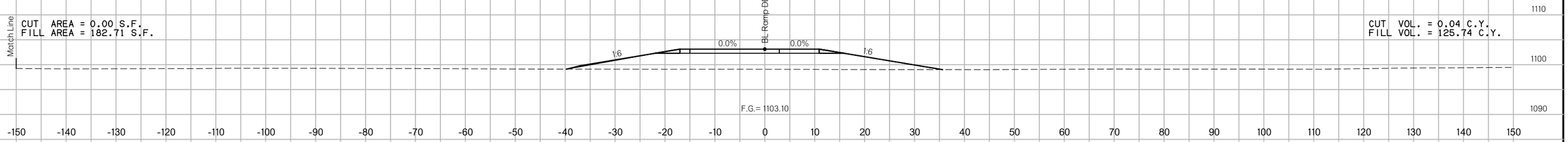
CUT VOL. = 0.05 C.Y.
FILL VOL. = 4.28 C.Y.



487+99

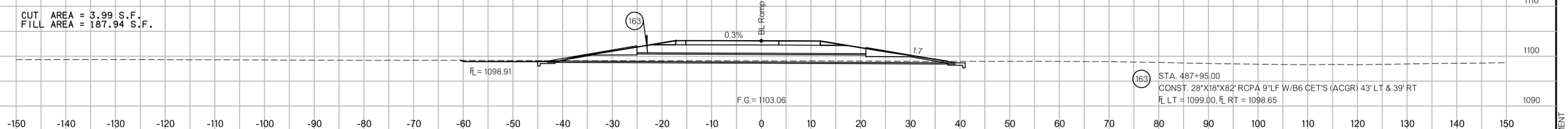
CUT AREA = 0.00 S.F.
FILL AREA = 182.71 S.F.

CUT VOL. = 0.04 C.Y.
FILL VOL. = 125.74 C.Y.



487+95

CUT AREA = 3.99 S.F.
FILL AREA = 187.94 S.F.

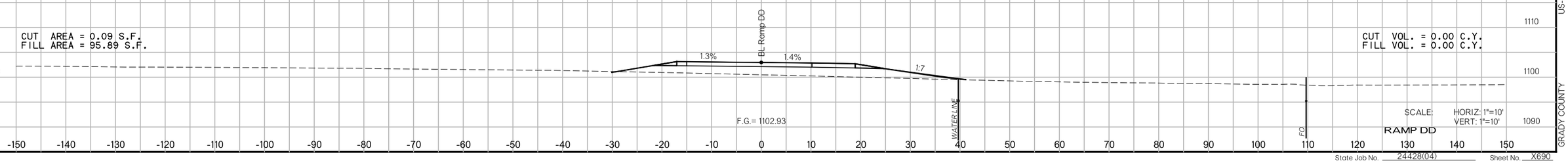


163 STA. 487+95.00
CONST. 28"X18"X82' RCPA 9"LF W/B6 CET'S (ACGR) 43' LT & 39' RT
℄ LT = 1099.00, ℄ RT = 1098.65

487+75

CUT AREA = 0.09 S.F.
FILL AREA = 95.89 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 0.00 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP DD

US-81 REALIGNMENT

GRADY COUNTY

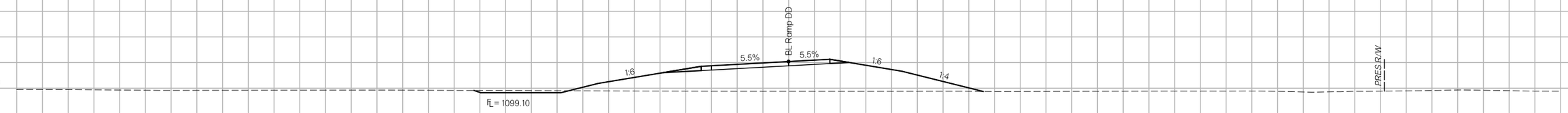
State Job No. 24428(04) Sheet No. X690

PROPOSED
R/W
AUGUST 2017

CUT AREA = 6.94 S.F.
FILL AREA = 282.51 S.F.

CUT VOL. = 10.20 C.Y.
FILL VOL. = 300.49 C.Y.

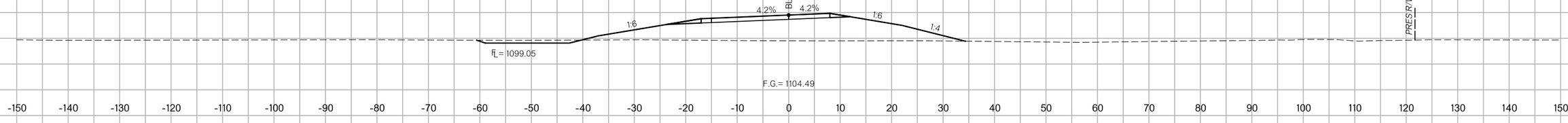
489+32



CUT AREA = 10.17 S.F.
FILL AREA = 221.50 S.F.

CUT VOL. = 0.39 C.Y.
FILL VOL. = 8.26 C.Y.

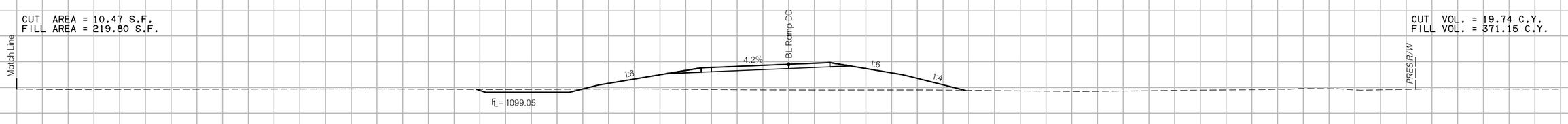
489+00



CUT AREA = 10.47 S.F.
FILL AREA = 219.80 S.F.

CUT VOL. = 19.74 C.Y.
FILL VOL. = 371.15 C.Y.

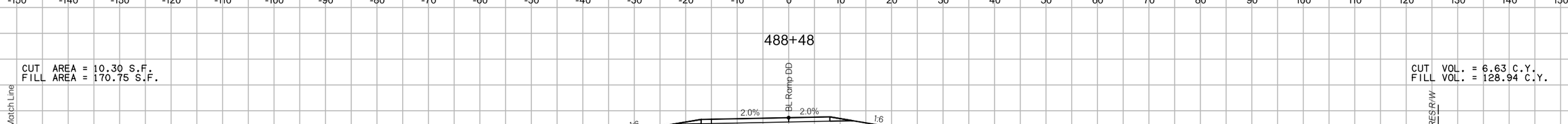
488+99



CUT AREA = 10.30 S.F.
FILL AREA = 170.75 S.F.

CUT VOL. = 6.63 C.Y.
FILL VOL. = 128.94 C.Y.

488+48



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP DD

State Job No. 24428(04) Sheet No. X691

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US-81 REALIGNMENT

GRADY COUNTY

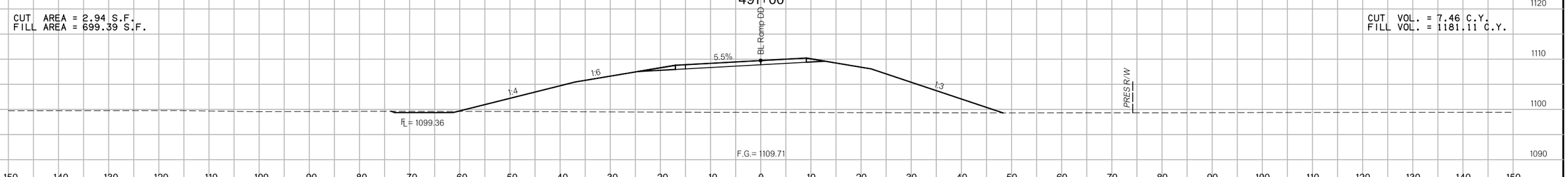
8/27/2017

PROPOSED
R/W
AUGUST 2017

491+00

CUT AREA = 2.94 S.F.
FILL AREA = 699.39 S.F.

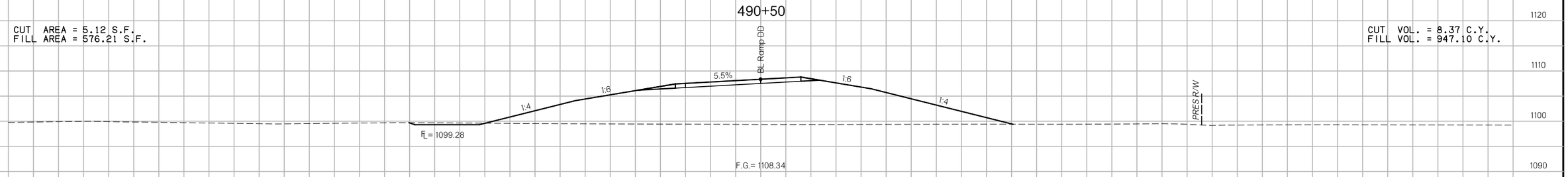
CUT VOL. = 7.46 C.Y.
FILL VOL. = 1181.11 C.Y.



490+50

CUT AREA = 5.12 S.F.
FILL AREA = 576.21 S.F.

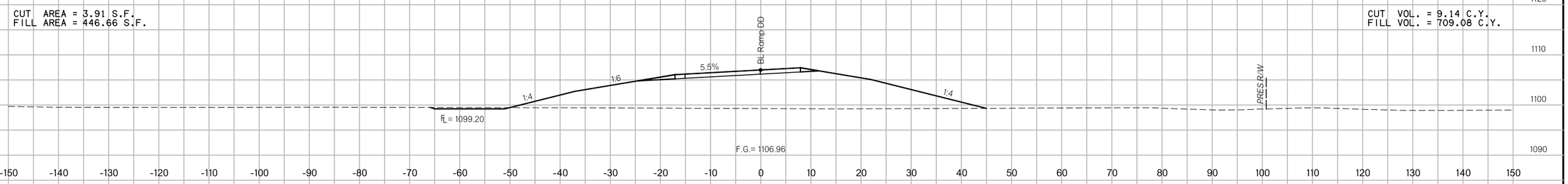
CUT VOL. = 8.37 C.Y.
FILL VOL. = 947.10 C.Y.



490+00

CUT AREA = 3.91 S.F.
FILL AREA = 446.66 S.F.

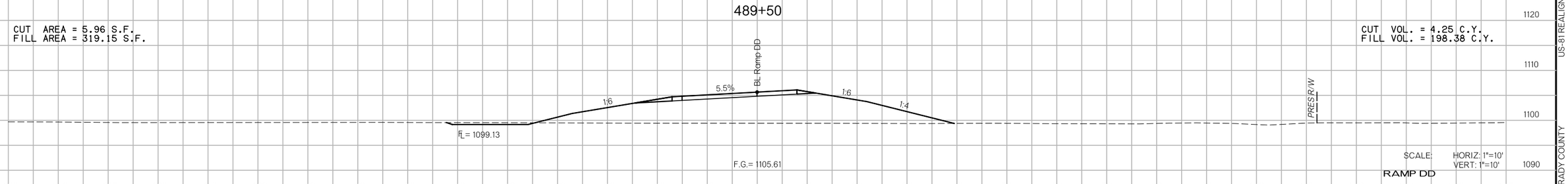
CUT VOL. = 9.14 C.Y.
FILL VOL. = 709.08 C.Y.



489+50

CUT AREA = 5.96 S.F.
FILL AREA = 319.15 S.F.

CUT VOL. = 4.25 C.Y.
FILL VOL. = 198.38 C.Y.



$SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP DD

State Job No. 24428(04) Sheet No. X692

US-81 REALIGNMENT
GRADY COUNTY

7:30:00 PM

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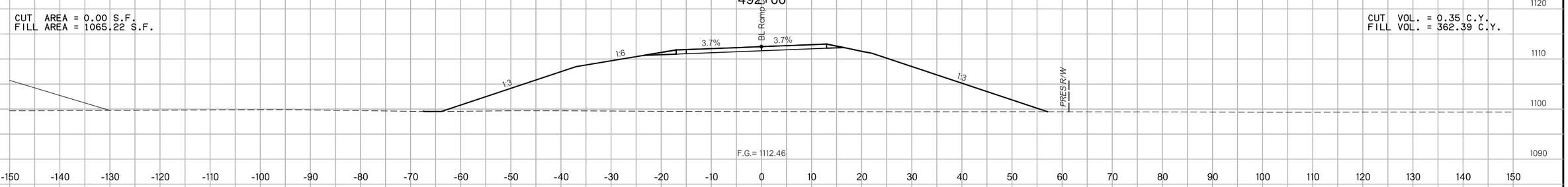
PROPOSED
R/W
AUGUST 2017

492+00

CUT AREA = 0.00 S.F.
FILL AREA = 1065.22 S.F.

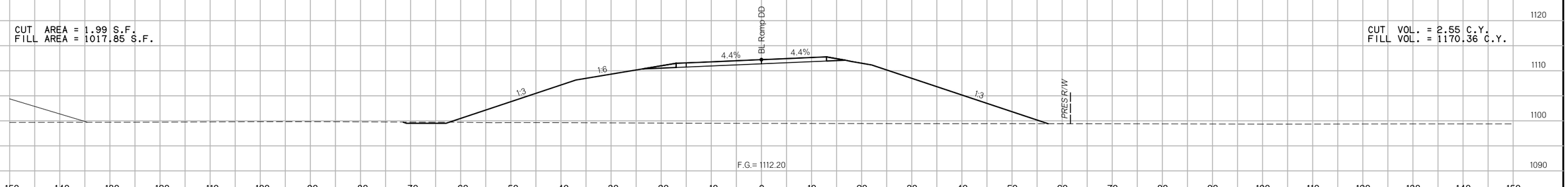
CUT VOL. = 0.35 C.Y.
FILL VOL. = 362.39 C.Y.



491+91

CUT AREA = 1.99 S.F.
FILL AREA = 1017.85 S.F.

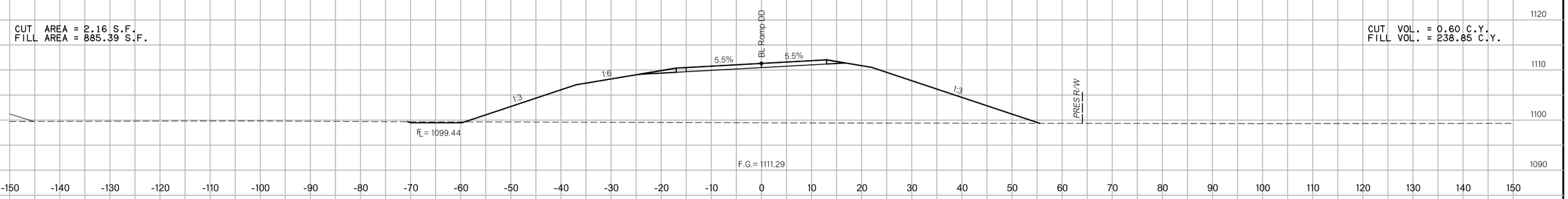
CUT VOL. = 2.55 C.Y.
FILL VOL. = 1170.36 C.Y.



491+57

CUT AREA = 2.16 S.F.
FILL AREA = 885.39 S.F.

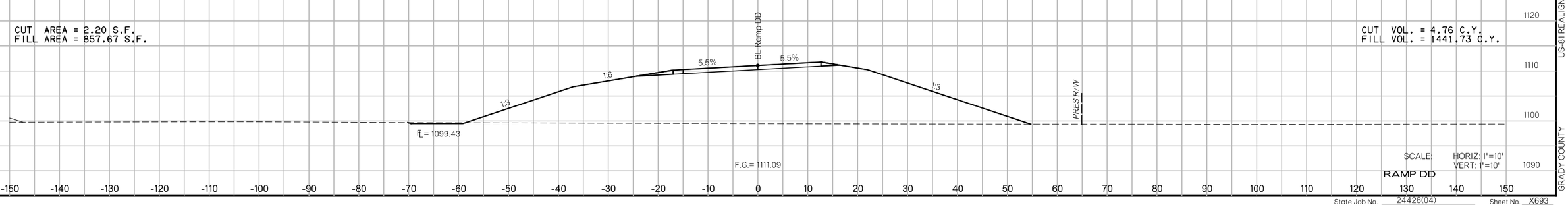
CUT VOL. = 0.60 C.Y.
FILL VOL. = 238.85 C.Y.



491+50

CUT AREA = 2.20 S.F.
FILL AREA = 857.67 S.F.

CUT VOL. = 4.76 C.Y.
FILL VOL. = 1441.73 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP DD

State Job No. 24428(04) Sheet No. X693

US-81 REALIGNMENT
GRADY COUNTY

8/27/2017
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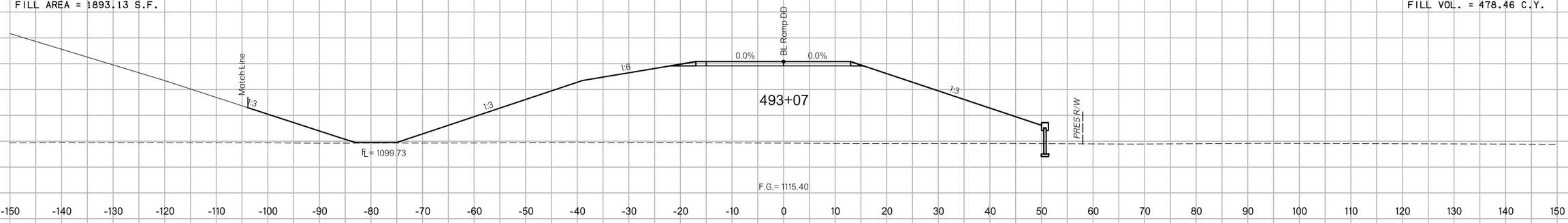
8/27/2017

PROPOSED
R/W
AUGUST 2017

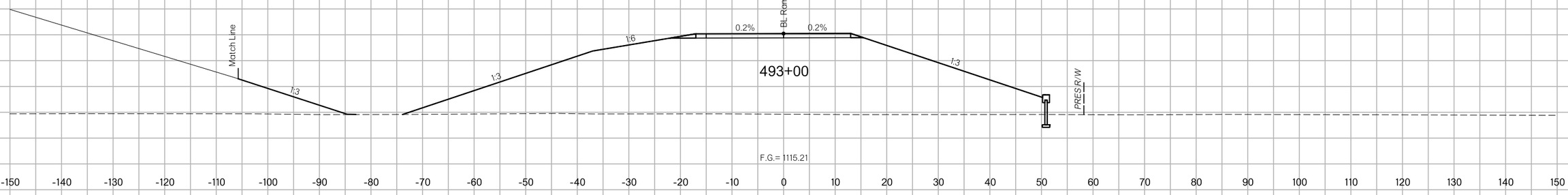
CUT AREA = 2.64 S.F.
FILL AREA = 1893.13 S.F.

CUT VOL. = 0.66 C.Y.
FILL VOL. = 478.46 C.Y.



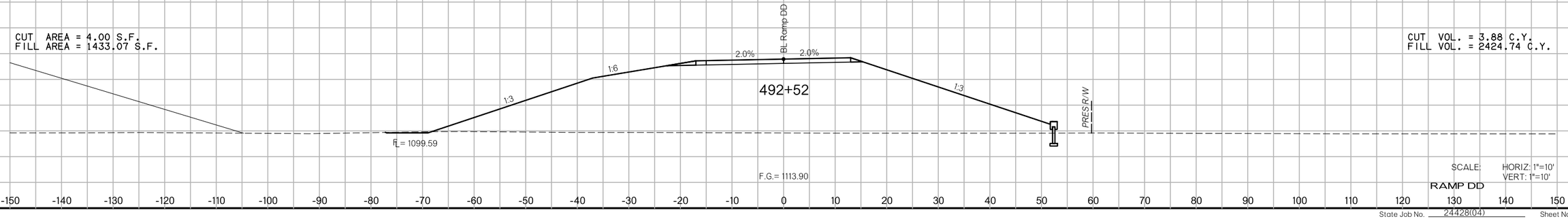
CUT AREA = 2.65 S.F.
FILL AREA = 1963.13 S.F.

CUT VOL. = 5.86 C.Y.
FILL VOL. = 2993.06 C.Y.



CUT AREA = 4.00 S.F.
FILL AREA = 1433.07 S.F.

CUT VOL. = 3.88 C.Y.
FILL VOL. = 2424.74 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP DD

State Job No. 24428(04) Sheet No. X694

US-81 REALIGNMENT
GRADY COUNTY

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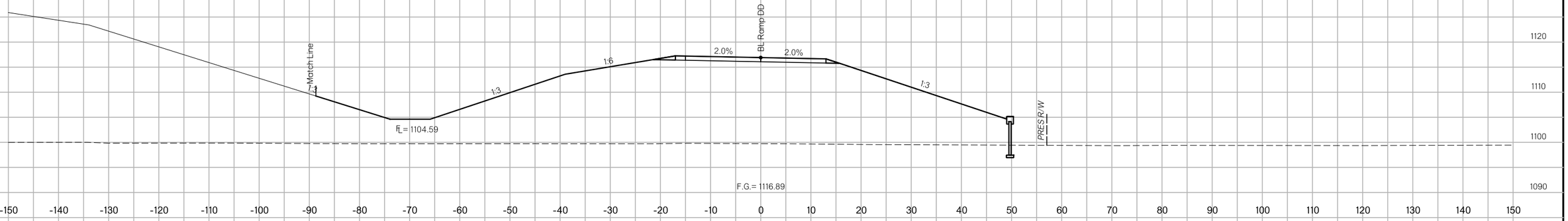
PROPOSED
R/W
AUGUST 2017

CUT AREA = 2.64 S.F.
FILL AREA = 2571.02 S.F.

493+61

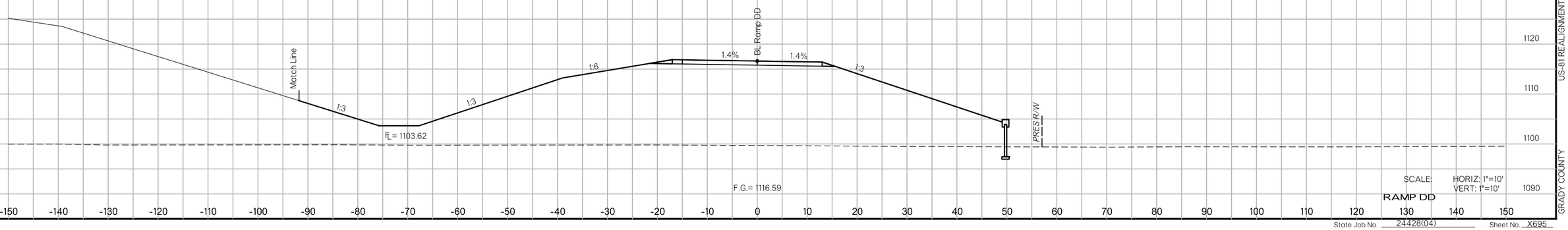
CUT VOL. = 1.08 C.Y.
FILL VOL. = 1051.36 C.Y.



CUT AREA = 2.64 S.F.
FILL AREA = 2594.89 S.F.

493+50

CUT VOL. = 4.24 C.Y.
FILL VOL. = 3598.73 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP DD

State Job No. 24428(04) Sheet No. X695

8/27/2017 7:30:02 PM

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US-81 REALIGNMENT

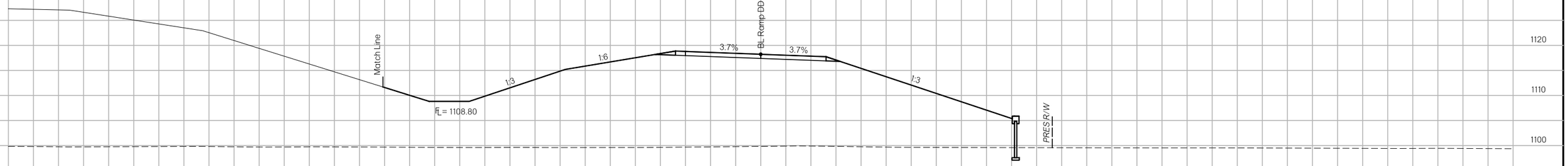
GRADY COUNTY

PROPOSED
R/W
AUGUST 2017

494+09

CUT AREA = 2.64 S.F.
FILL AREA = 3395.20 S.F.

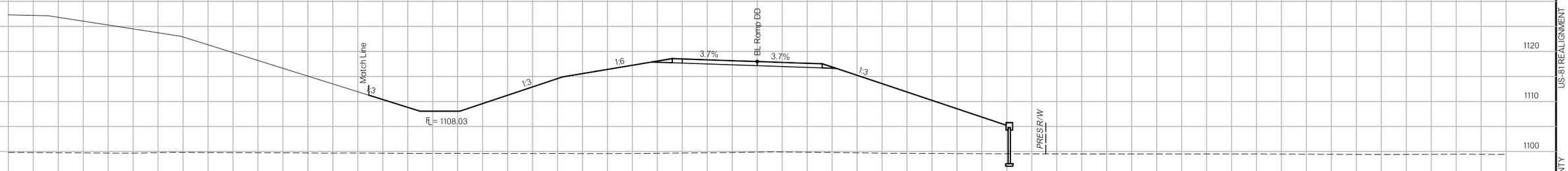
CUT VOL. = 0.87 C.Y.
FILL VOL. = 1075.00 C.Y.



494+00

CUT AREA = 2.64 S.F.
FILL AREA = 3159.85 S.F.

CUT VOL. = 3.82 C.Y.
FILL VOL. = 4140.02 C.Y.



SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP DD

State Job No. 24428(04) Sheet No. X696

US-81 REALIGNMENT
GRADY COUNTY

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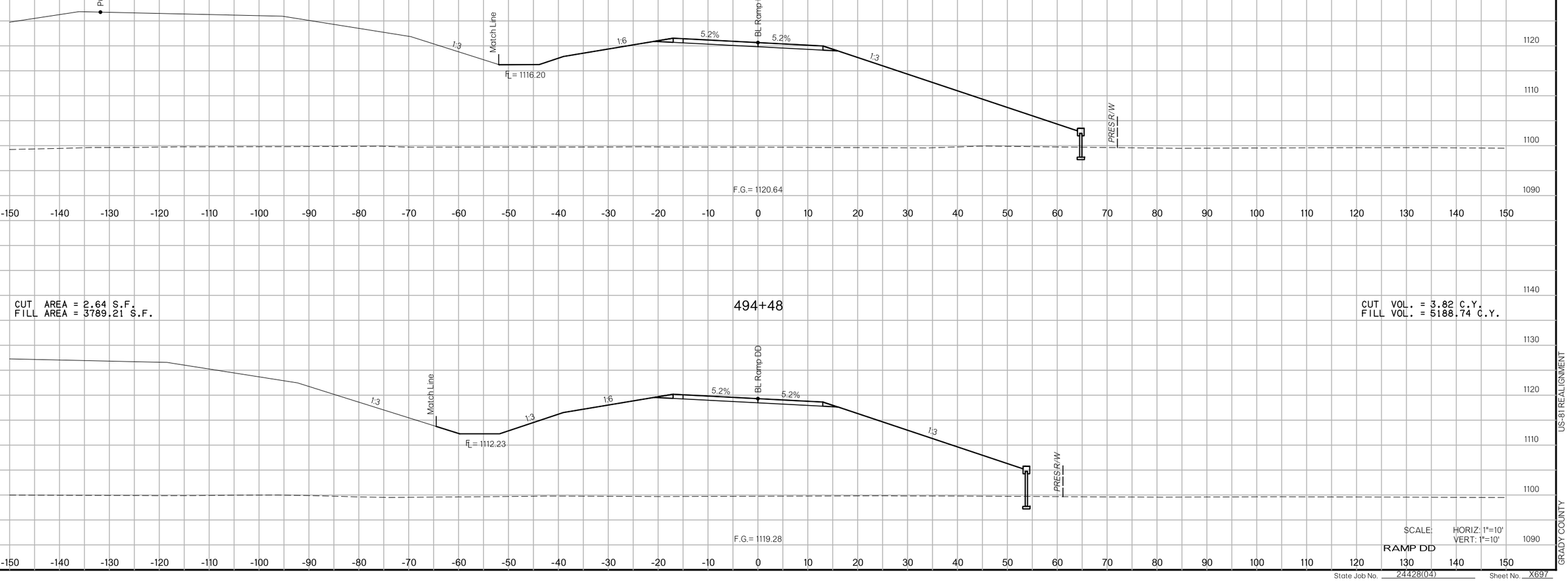
8/27/2017

PROPOSED
R/W
AUGUST 2017

CUT AREA = 2.64 S.F.
FILL AREA = 4117.01 S.F.

495+00

CUT VOL. = 5.10 C.Y.
FILL VOL. = 7634.52 C.Y.



CUT AREA = 2.64 S.F.
FILL AREA = 3789.21 S.F.

494+48

CUT VOL. = 3.82 C.Y.
FILL VOL. = 5188.74 C.Y.

SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP DD

State Job No. 24428(04) Sheet No. X697

US-81 REALIGNMENT
GRADY COUNTY

7:30:04 PM

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8/27/2017

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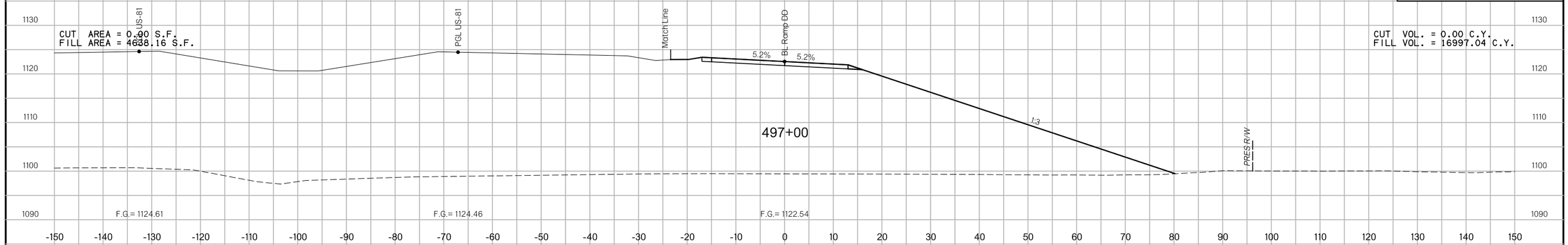
PROPOSED
R/W
AUGUST 2017

497+00

CUT AREA = 0.00 S.F.
FILL AREA = 4638.16 S.F.

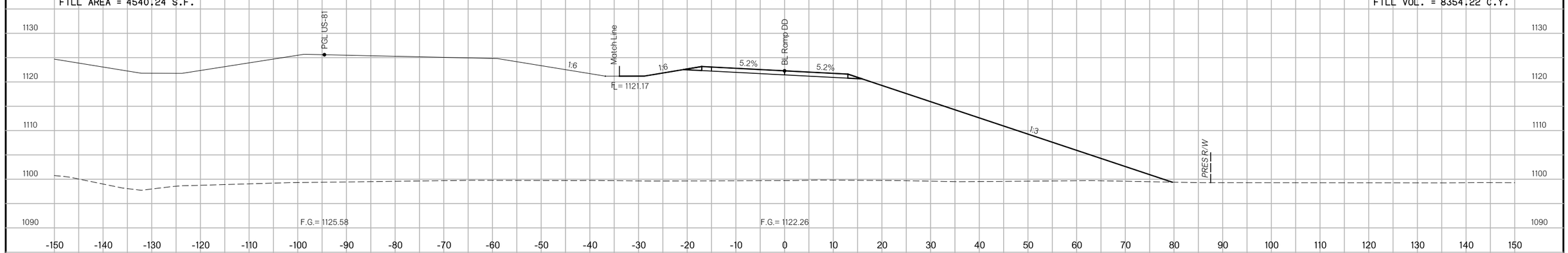
CUT VOL. = 0.00 C.Y.
FILL VOL. = 16997.04 C.Y.



496+00

CUT AREA = 0.00 S.F.
FILL AREA = 4540.24 S.F.

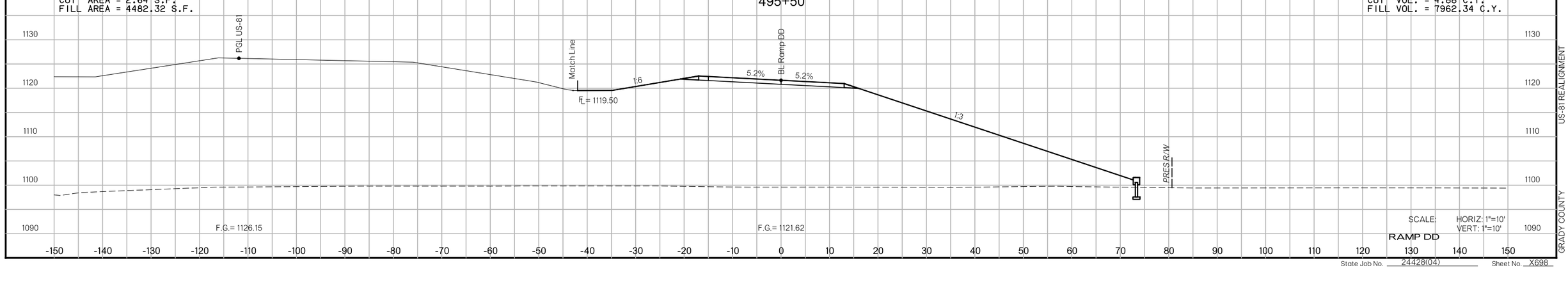
CUT VOL. = 2.44 C.Y.
FILL VOL. = 8354.22 C.Y.



495+50

CUT AREA = 2.64 S.F.
FILL AREA = 4482.32 S.F.

CUT VOL. = 4.88 C.Y.
FILL VOL. = 7962.34 C.Y.



$SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP DD

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04)

Sheet No. X698

8/27/2017

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PROPOSED
R/W
AUGUST 2017

CUT AREA = 0.00 S.F.
FILL AREA = 4513.23 S.F.

CUT VOL. = 0.00 C.Y.
FILL VOL. = 4049.48 C.Y.

US-81

PGL US-81

Match Line

BL Ramp DD

5.2%

5.2%

1:3

1:3

PRES R/W

497+24

F.G.= 1124.33

F.G.= 1124.20

F.G.= 1122.41

1130
1120
1110
1100
1090

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SCALE: HORIZ: 1"=10'
VERT: 1"=10'

RAMP DD

US-81 REALIGNMENT

GRADY COUNTY

State Job No. 24428(04)

Sheet No. X699