

SURVEY DATA
SEE SURVEY DATA ON SHEETS S001-S019
FOR COMPLETE INFORMATION.

DESIGN DATA
ADT 2030 = 23,100
ADT 2050 = 28,400
DHV (ONE WAY) = 1,528
K (DHV/ADT) = 9.9%
D (DIRECTIONAL DIST.) = 54.3%
T₃ (% OF AADT) = 40%
T (% OF AADT) = 38%
V = 75 MPH
20 YEAR RIGID ESALS = XX.X M

SCALES
PLAN 1" = 50'
PROFILE HORIZONTAL 1" = 50'
PROFILE VERTICAL 1" = 5'
LAYOUT MAP 1" = 3,520'

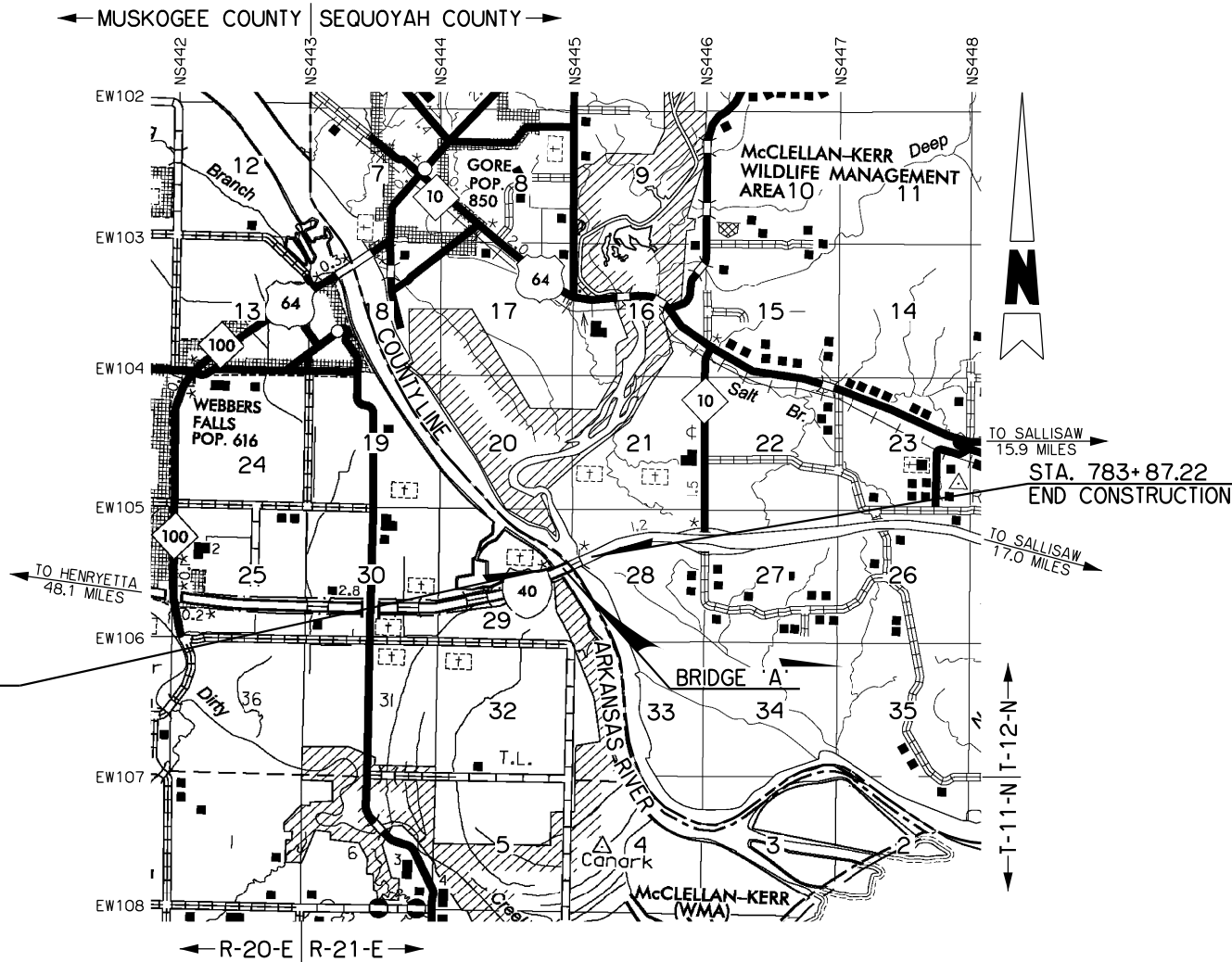
CONVENTIONAL SYMBOLS
PROPOSED ROAD
RAILROADS
TOWNSHIP AND RANGE
SECTION LINES
QUARTER SECTION LINES
FENCES
GROUND LINE
EXISTING ROADS
BASE LINE
GRADE LINES
TELEPHONE AND TELEGRAPH
POWER LINES
BUILDINGS
OIL WELL
DRAINAGE STRUCTURES - IN PLACE
DRAINAGE STRUCTURES - NEW
RIGHT-OF-WAY LINES - EXISTING
RIGHT-OF-WAY LINES - NEW
CONTROLLED ACCESS
RIGHT-OF-WAY FENCE



STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED
INTERSTATE HIGHWAY
FEDERAL AID PROJECT NO. XXX-XXXX(XXX)
BRIDGE AND APPROACHES
INTERSTATE 40 OVER ARKANSAS RIVER
MUSKOGEE AND SEQUOYAH COUNTIES

CONTROL SECTION NOS. 40-51-15 AND 40-68-22
STATE JOB NO. 34334(04)
BRIDGE 'A' - LOCATION NO. 6822-0000X - NBI NO. XXXXX - (EXISTING NBI NO. 17051)



PROJECT LENGTH BASED ON CRL
ROADWAY LENGTH 1,349.88 FT. 0.256 MILES
BRIDGE LENGTH 2,082.50 FT. 0.394 MILES
PROJECT LENGTH 650 MILES
EQUATIONS: NONE
EXCEPTIONS: NONE

PROPOSED R/W
2024-12-04

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INDEX OF SHEETS

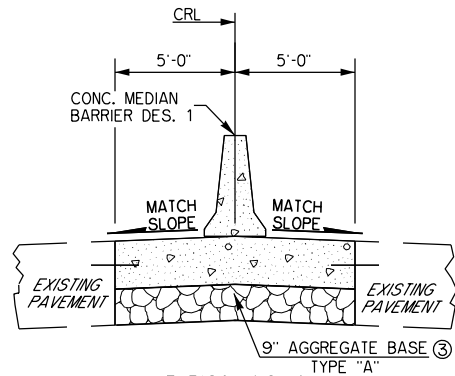
SHEET NO.	SHEET DESCRIPTION
0001	TITLE
0002	TYPICAL SECTIONS
B001-B011	GENERAL PLAN AND ELEVATION - BRIDGE A
B012-B015	BRIDGE CONSTRUCTION SEQUENCING
R001-R007	PLAN AND PROFILE
S001-S019	SURVEY DATA SHEET
X001-X019	CROSS SECTIONS

REQUIRED STANDARD DRAWINGS

2019 ROADWAY 2009 BRIDGE 2009 TRAFFIC

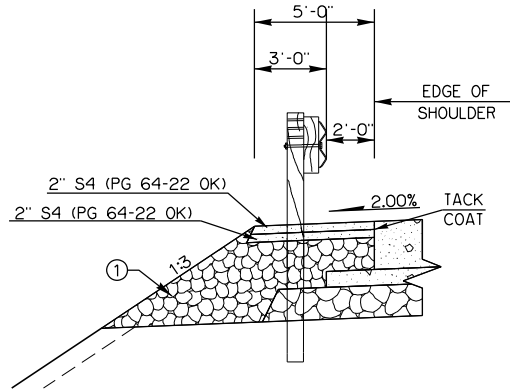
wsb		PREPARED BY: WSB, LLC C.A. NO. 9057		615 N. HUDSON, STE. 300 OKLAHOMA CITY, OK 73102 (405) 815-3600	
PAUL G. POYNTER, OKLA. REG NO. 19103 (SHEET NOS. XX, XX-XX)				DATE	
OKLAHOMA DEPARTMENT OF TRANSPORTATION		DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION			
DATE APPROVED:		DATE APPROVED:			
BY: CHIEF ENGINEER		BY: DIVISION ADMINISTRATOR			
SW05486(1)		FEDERAL AID PROJECT NO. XXXI-XXX(XX)		SHEET NO. 0001	

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TYPICAL NO. 1
C STA. 751+00.00 TO C STA. 754+50.00
C STA. 778+00.00 TO C STA. 781+00.00

PAVEMENT REQUIREMENT	
12" PAVT. STRUCTURE	10'-0" MEDIAN
SURFACE COURSE	12" DOWEL JOINTED CONCRETE PAVEMENT



GUARDRAIL DETAIL

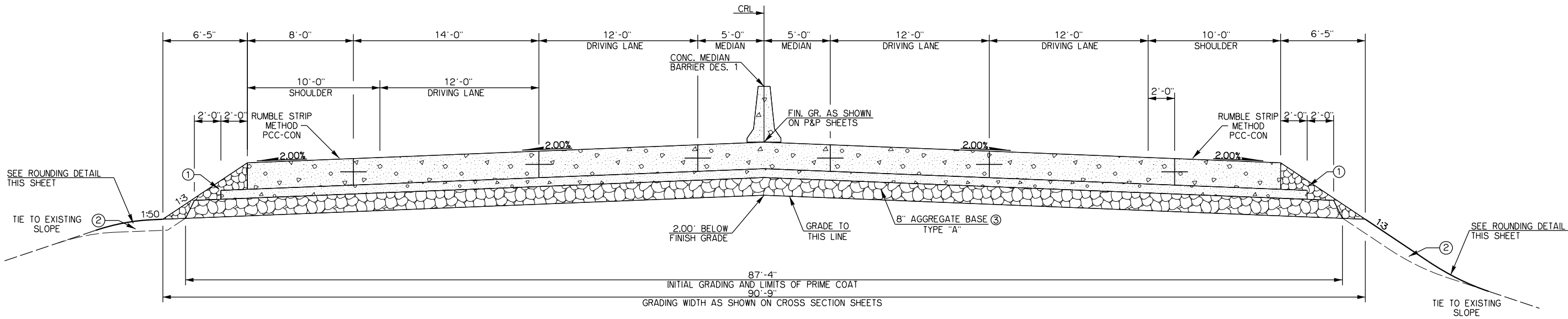
2'-2" TO 5'-0"	CRL STA. 749+54.84 TO STA. 750+25.05 LT.
2'-8" TO 5'-0"	CRL STA. 750+42.64 TO STA. 751+12.63 RT.
5'	CRL STA. 750+25.05 TO STA. 756+41.25 LT.
5'	CRL STA. 751+12.63 TO STA. 756+41.25 RT.
5'	CRL STA. 777+83.75 TO STA. 783+17.59 LT.
5'-0" TO 0'-0"	CRL STA. 783+17.59 TO STA. 783+87.22 LT.

① BACKFILL NOTE:
TO BE BACKFILLED AND COMPACTED AS PART OF THE
FINISHING OPERATIONS. QUANTITY IS MEASURED IN TBSC.

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 THE COMPLETED
FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY
THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH
OPERATIONS SHALL BE INCLUDED IN THE PAY ITEM
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.

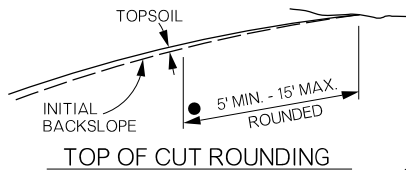
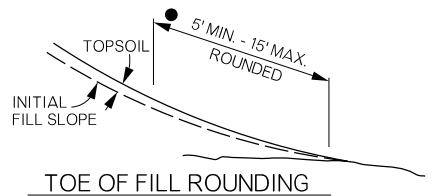


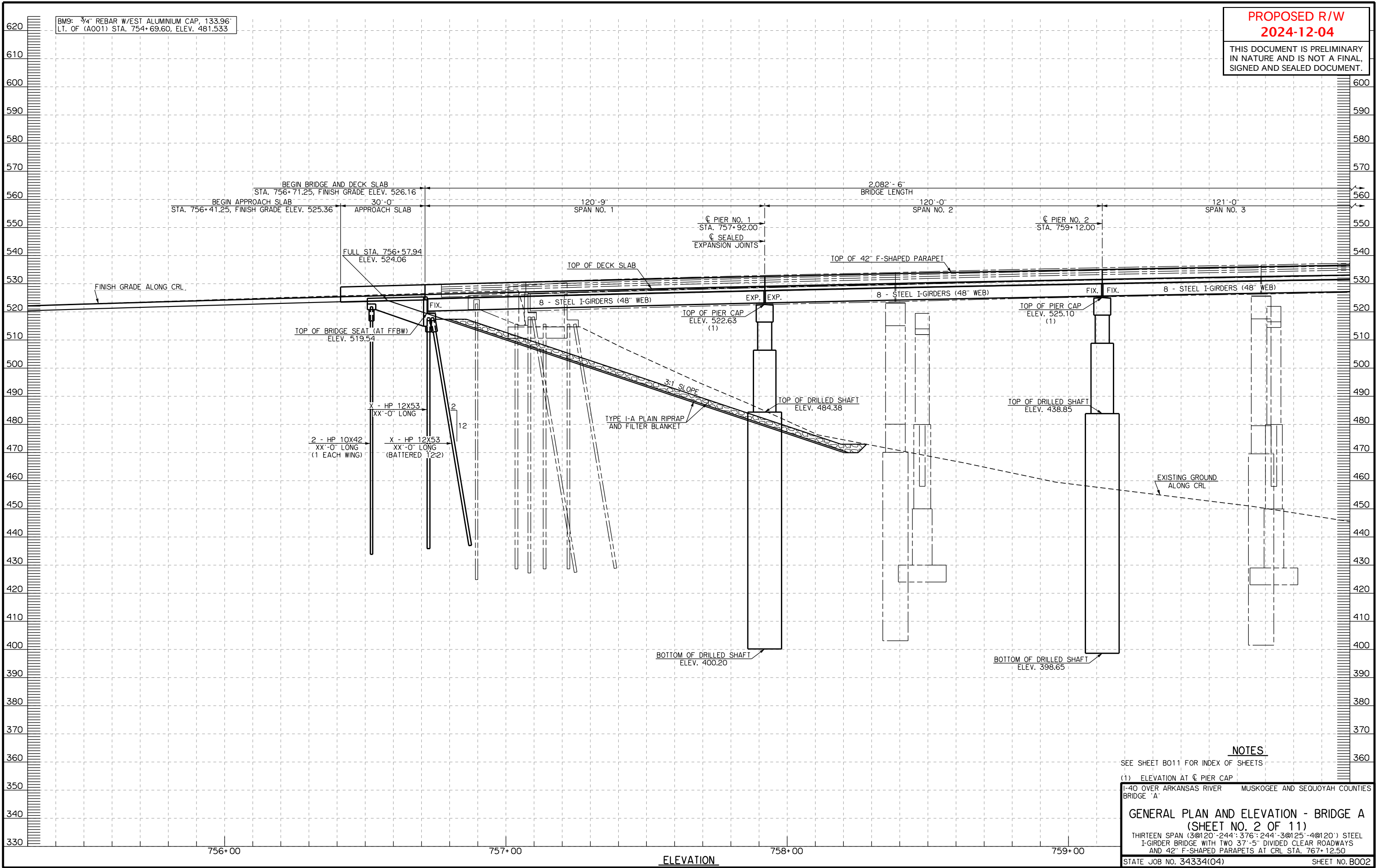
TYPICAL SECTION NO. 2
CRL STA. 754+50.00 TO CRL STA. 756+41.25
CRL STA. 777+83.75 TO CRL STA. 778+00.00

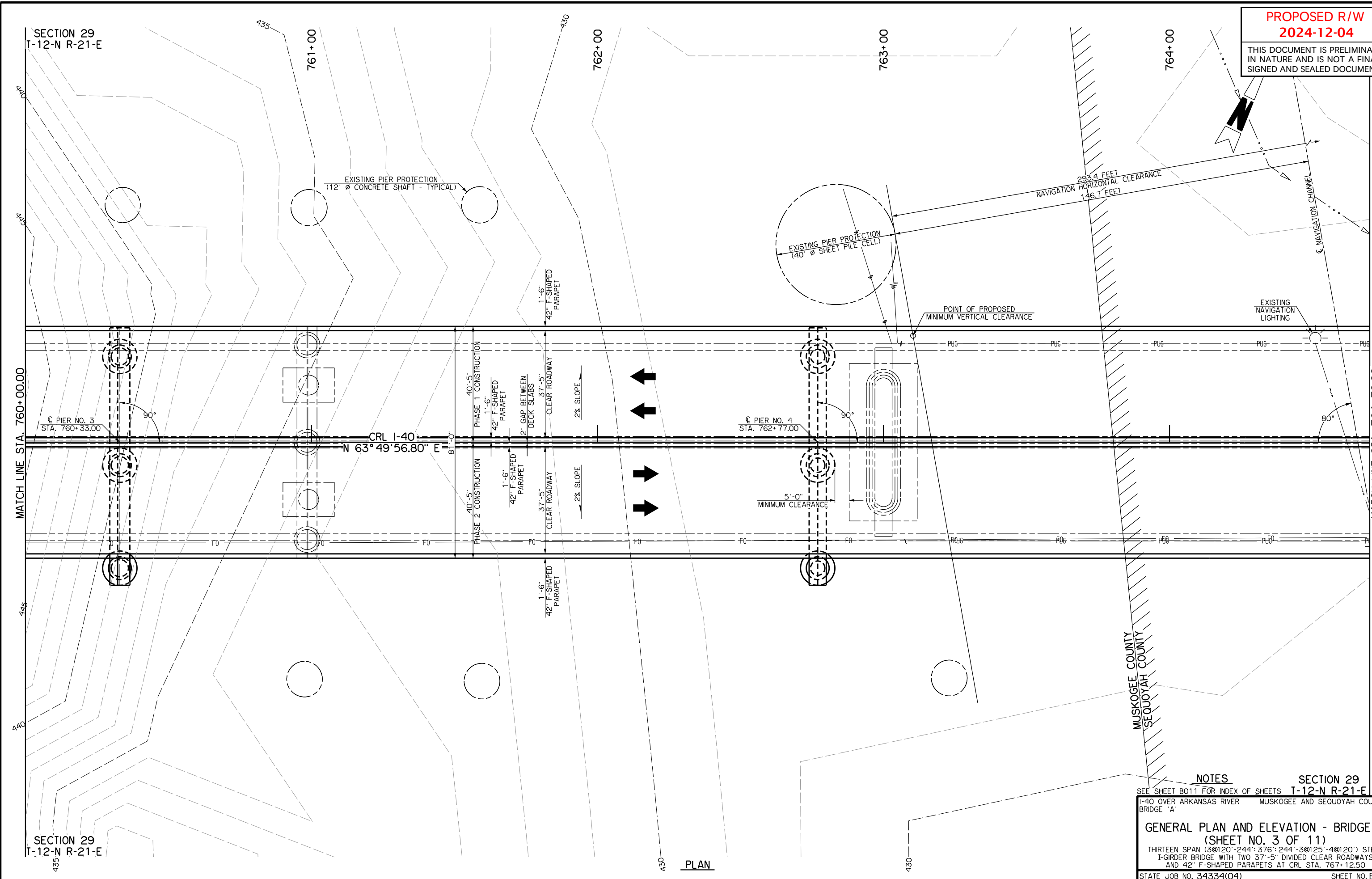
PAVEMENT REQUIREMENT			
16" PAVT. STRUCTURE	10'-0" MEDIAN	12'-0" DRIVING LANES	10'-0" SHOULDERS
SURFACE COURSE	12" DOWEL JOINTED CONCRETE PAVEMENT	12" DOWEL JOINTED CONCRETE PAVEMENT	12" TO 10" P.C. CONCRETE PAVEMENT
BASE COURSE	4" CEMENT TREATED BASE	4" CEMENT TREATED BASE	4" CEMENT TREATED BASE

ROUNDING DETAIL

- INTERSECTION OF CUT AND/OR FILL SLOPES WITH GROUND LINE TO BE ROUNDED AS PART OF FINISHING OPERATIONS. ROUNDED 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 ROUNDED TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS OF WORK.

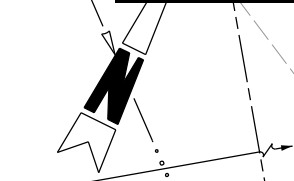






PROPOSED R/W
2024-12-04

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NOTES

SECTION 29
SEE SHEET B011 FOR INDEX OF SHEETS T-12-N R-21-E

I-40 OVER ARKANSAS RIVER MUSKOGEE AND SEQUOYAH COUNTIES
BRIDGE 'A'

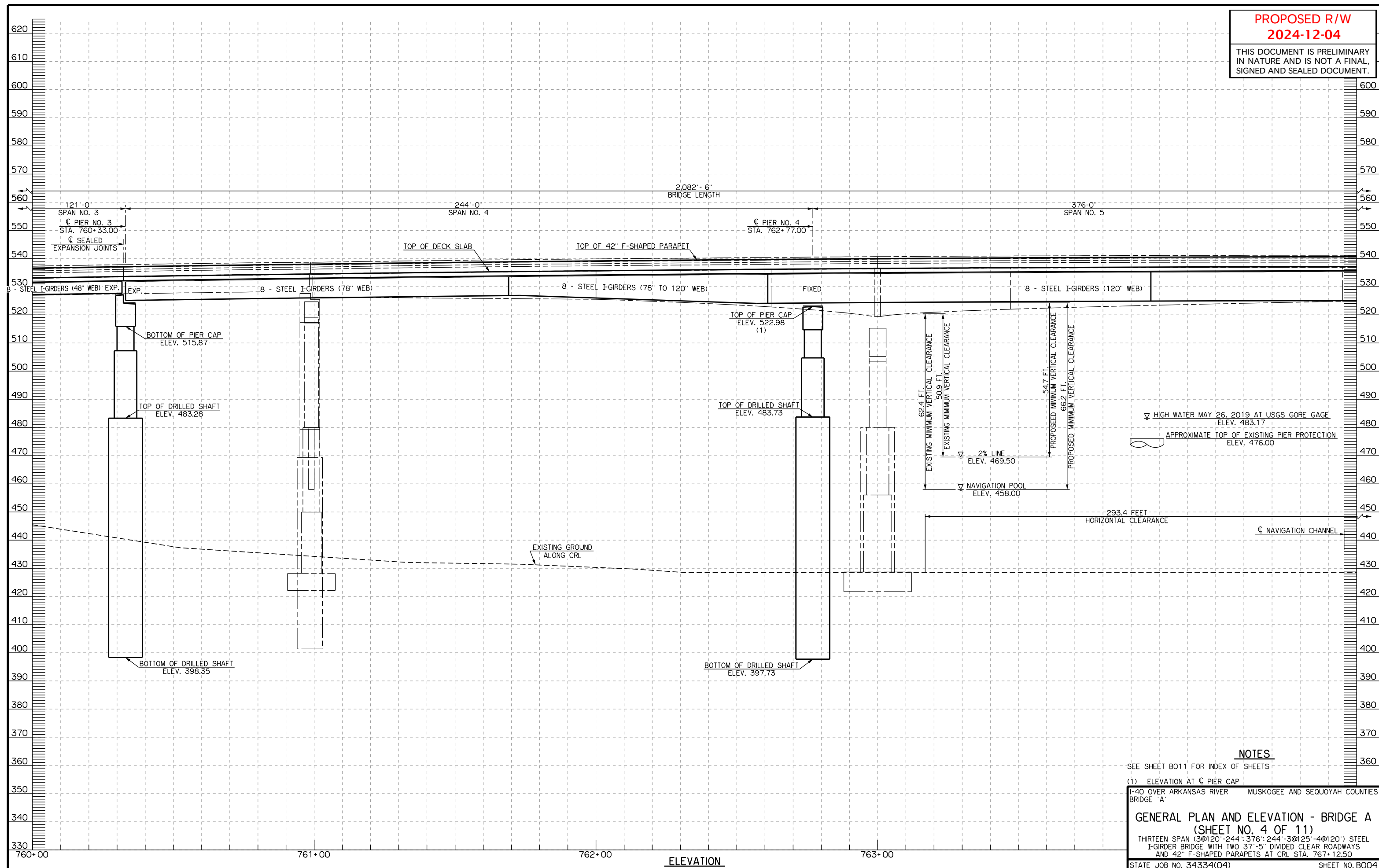
GENERAL PLAN AND ELEVATION - BRIDGE A
(SHEET NO. 3 OF 11)

THIRTEEN SPAN (3@120'-244':376'-244'-3@125'-4@120') STEEL
I-GIRDER BRIDGE WITH TWO 37'-5" DIVIDED CLEAR ROADWAYS
AND 42" F-SHAPED PARAPETS AT CRL STA. 767+12.50

STATE JOB NO. 34334(04) SHEET NO. B003

PLAN

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- SEE SHEET B011 FOR INDEX OF SHEETS

(1) ELEVATION AT C PIER CAP

1-40 OVER ARKANSAS RIVER BRIDGE 'A'	MUSKOGEE AND SEQUOYAH COUNTIES
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GENERAL PLAN AND ELEVATION - BRIDGE A
(SHEET NO. 4 OF 11)

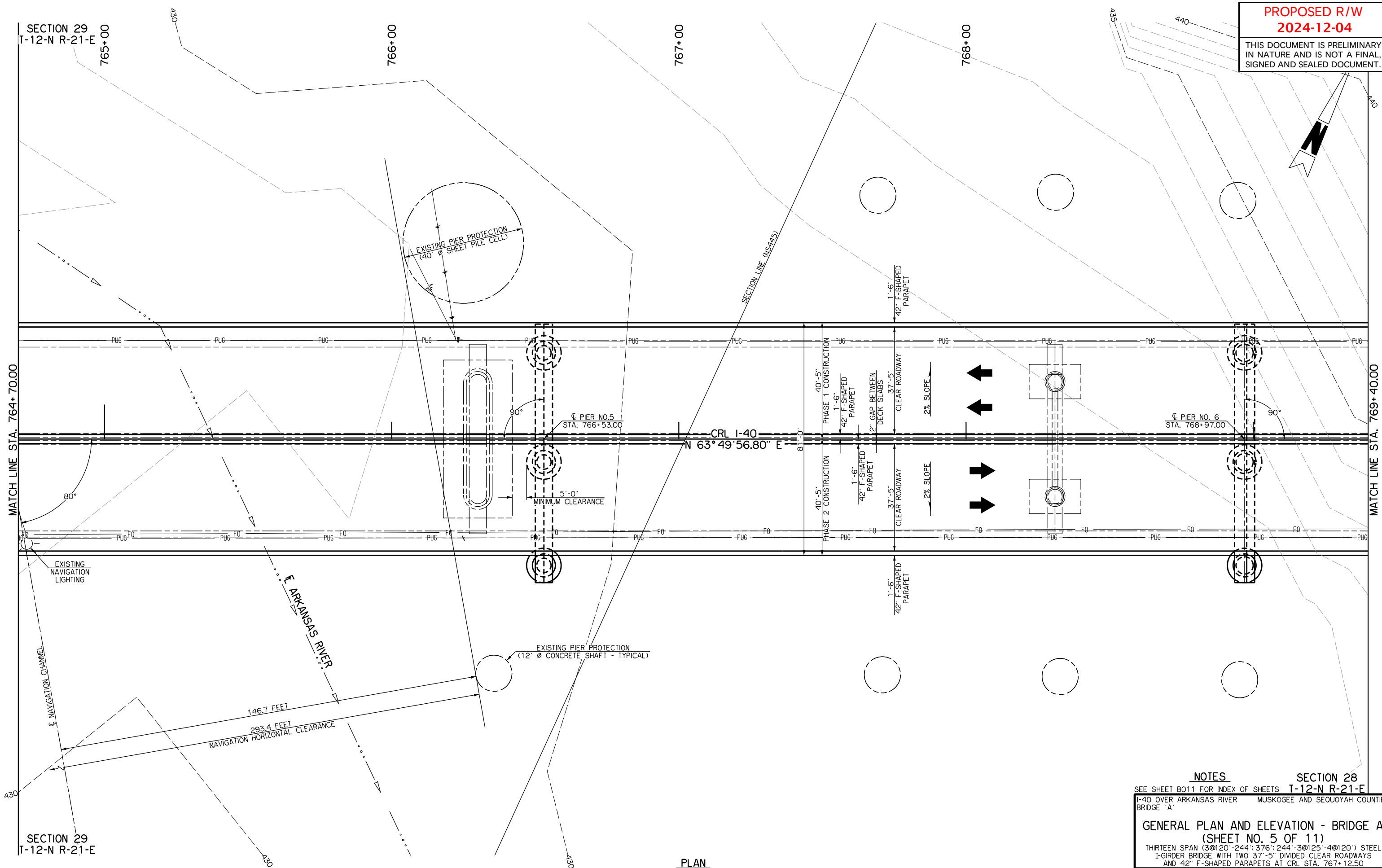
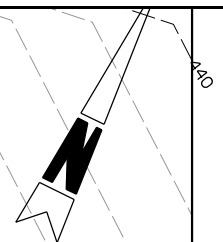
THIRTEEN SPAN (3@120'-244'-376'-244'-3@125'-4@120') STEEL
I-GIRDER BRIDGE WITH TWO 37'-5" DIVIDED CLEAR ROADWAYS
AND 42" F-SHAPED PARAPETS AT CRL STA. 767+12.50

STATE JOB NO. 34334(04)

SHEET NO. B004

PROPOSED R/W
2024-12-04

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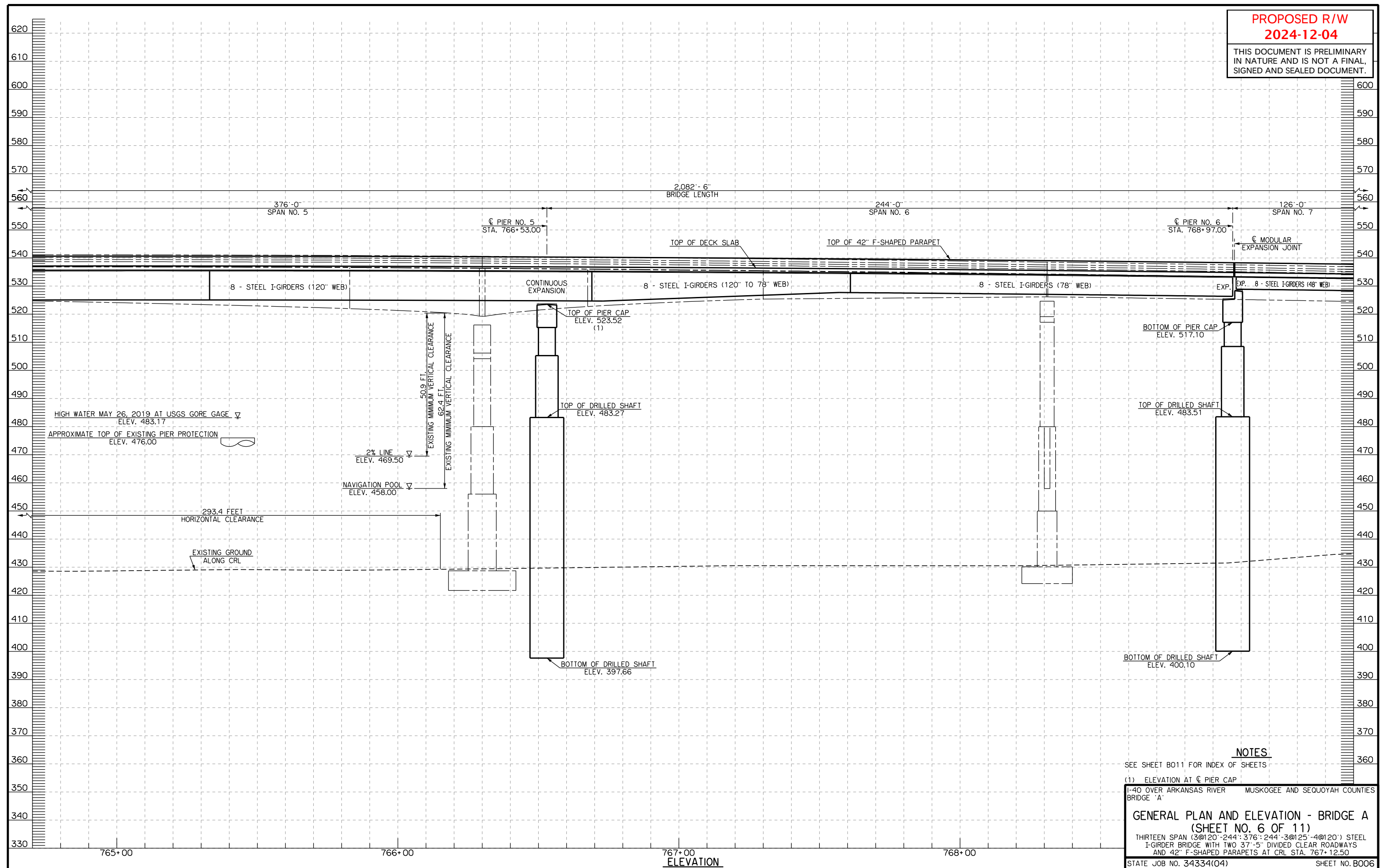


PLAN

NOTES

SECTION 28
T-12-N R-21-E
SEE SHEET B011 FOR INDEX OF SHEETS
I-40 OVER ARKANSAS RIVER
BRIDGE 'A'
MUSKOGEE AND SEQUOYAH COUNTIES
GENERAL PLAN AND ELEVATION - BRIDGE A
(SHEET NO. 5 OF 11)
THIRTEEN SPAN (3@120'-244':376':244'-3@125'-4@120') STEEL
I-GIRDER BRIDGE WITH TWO 37'-5" DIVIDED CLEAR ROADWAYS
AND 42" F-SHAPED PARAPETS AT CRL STA. 767+12.50
STATE JOB NO. 34334(04)
SHEET NO. B005

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SEE SHEET B011 FOR INDEX OF SHEETS

(1) ELEVATION AT C PIER CAP

1-40 OVER ARKANSAS RIVER BRIDGE 'A'	MUSKOGEE AND SEQUOYAH COUNTIES
--	--------------------------------

GENERAL PLAN AND ELEVATION - BRIDGE A
(SHEET NO. 6 OF 11)

THIRTEEN SPAN (3@120'-244'; 376'-244'-3@125'-4@120') STEEL
I-GIRDER BRIDGE WITH TWO 37'-5" DIVIDED CLEAR ROADWAYS
AND 42" F-SHAPED PARAPETS AT CRL STA. 767+12.50

STATE JOB NO. 34334(04)

SHEET NO. B006

SECTION 28
T-12-N R-21-E

PROPOSED R/W
2024-12-04

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BLM 2011 RE-SURVEY - ADJUSTED 1897 LEFT BANK RECORD MEANDERS

BLM 2011 RE-SURVEY - 2003 LEFT BANK OHWM

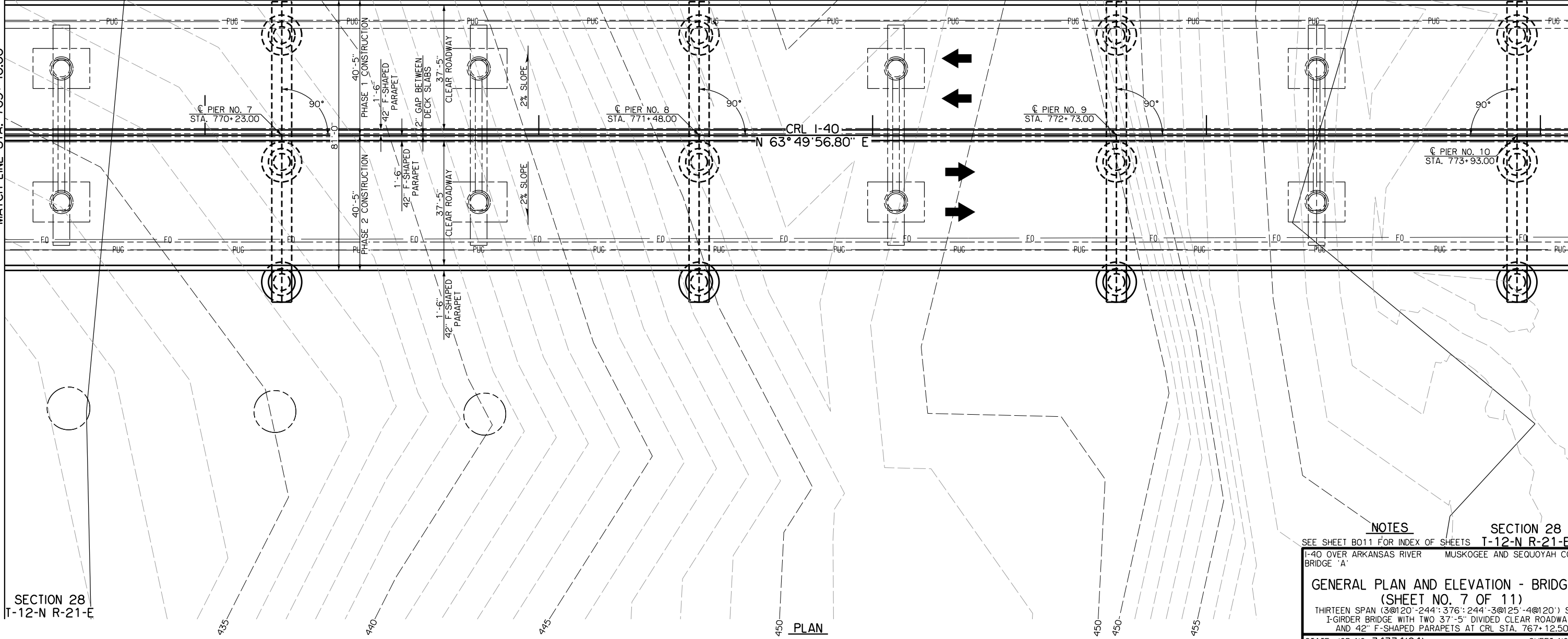
MATCH LINE STA. 769+40.00

MATCH LINE STA. 774+10.00

SECTION 28
T-12-N R-21-E

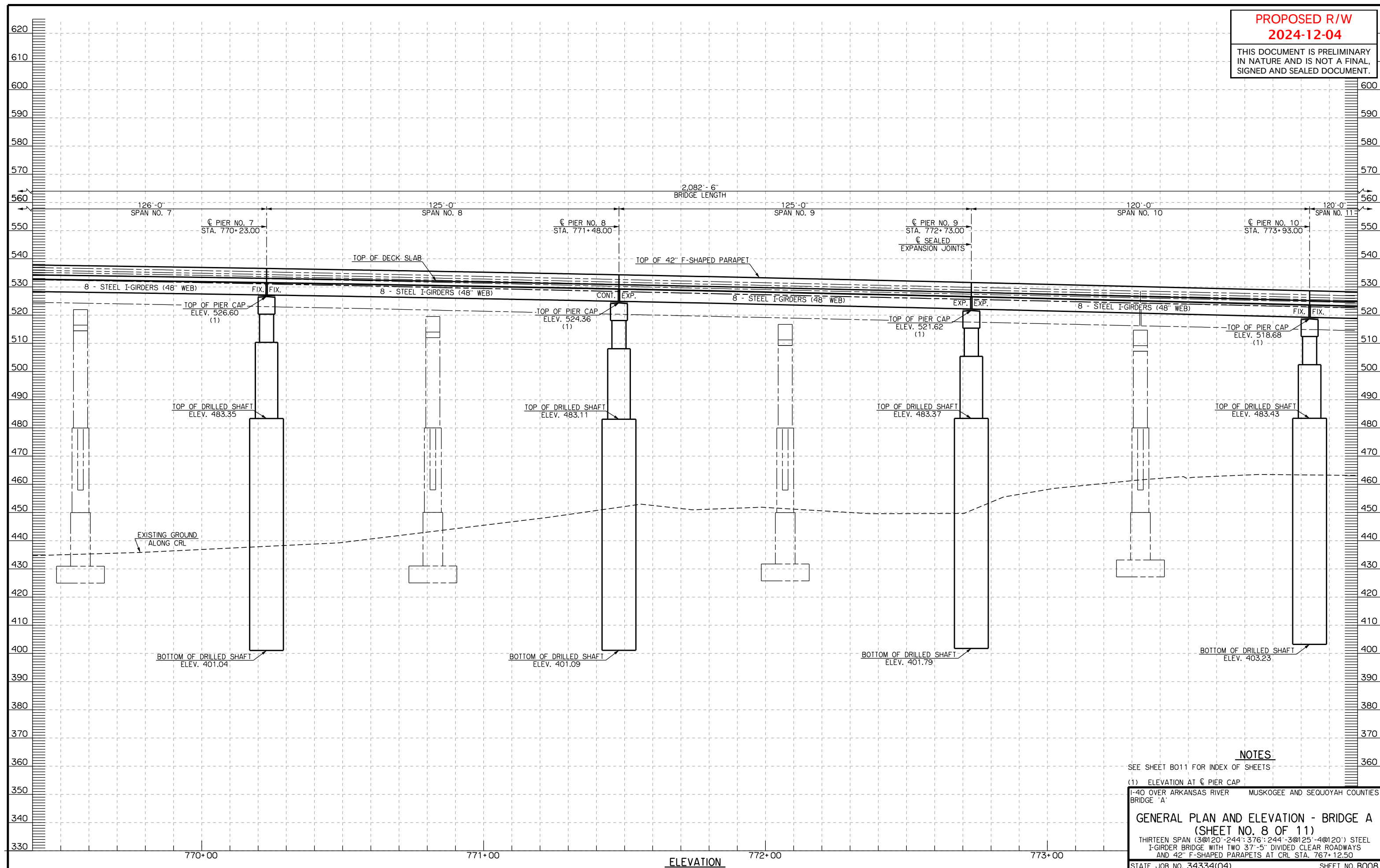
SECTION 28
T-12-N R-21-E

NOTES
SEE SHEET B011 FOR INDEX OF SHEETS
I-40 OVER ARKANSAS RIVER BRIDGE 'A'
MUSKOGEE AND SEQUOYAH COUNTIES
GENERAL PLAN AND ELEVATION - BRIDGE A
(SHEET NO. 7 OF 11)
THIRTEEN SPAN (3@120'-244'-376'-244'-3@125'-4@120') STEEL
I-GIRDER BRIDGE WITH TWO 37'-5" DIVIDED CLEAR ROADWAYS
AND 42" F-SHAPED PARAPETS AT CRL STA. 767+12.50
STATE JOB NO. 34334(04) SHEET NO. B007



PLAN

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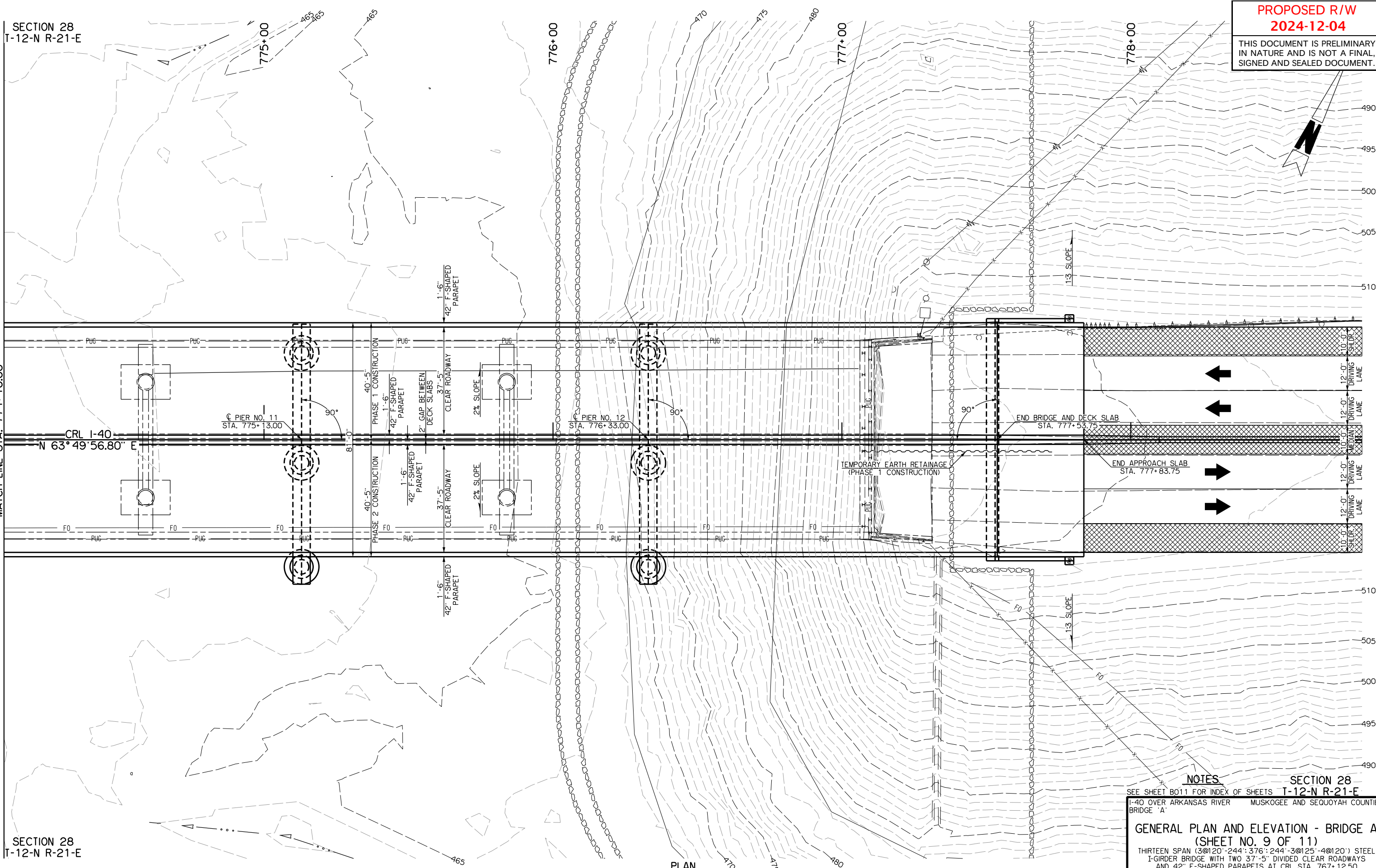
NOTES SEE SHEET B011 FOR INDEX OF SHEETS (1) ELEVATION AT C PIER CAP 1-40 OVER ARKANSAS RIVER BRIDGE 'A'	360
GENERAL PLAN AND ELEVATION - BRIDGE A (SHEET NO. 8 OF 11) THIRTEEN SPAN (3@120'-244'; 376'; 244'-3@25'-4@120') STEEL I-GIRDER BRIDGE WITH TWO 37'-5" DIVIDED CLEAR ROADWAYS AND 42" F-SHAPED PARAPETS AT CRL STA. 767+12.50	
STATE JOB NO. 34334(04) SHEET NO. B008	

SECTION 28
T-12-N R-21-E

PROPOSED R/W
2024-12-04

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MATCH LINE STA. 774+10.00



SECTION 28
T-12-N R-21-E

NOTES

SEE SHEET B011 FOR INDEX OF SHEETS T-12-N R-21-E
I-40 OVER ARKANSAS RIVER MUSKOGEE AND SEQUOYAH COUNTIES
BRIDGE 'A'

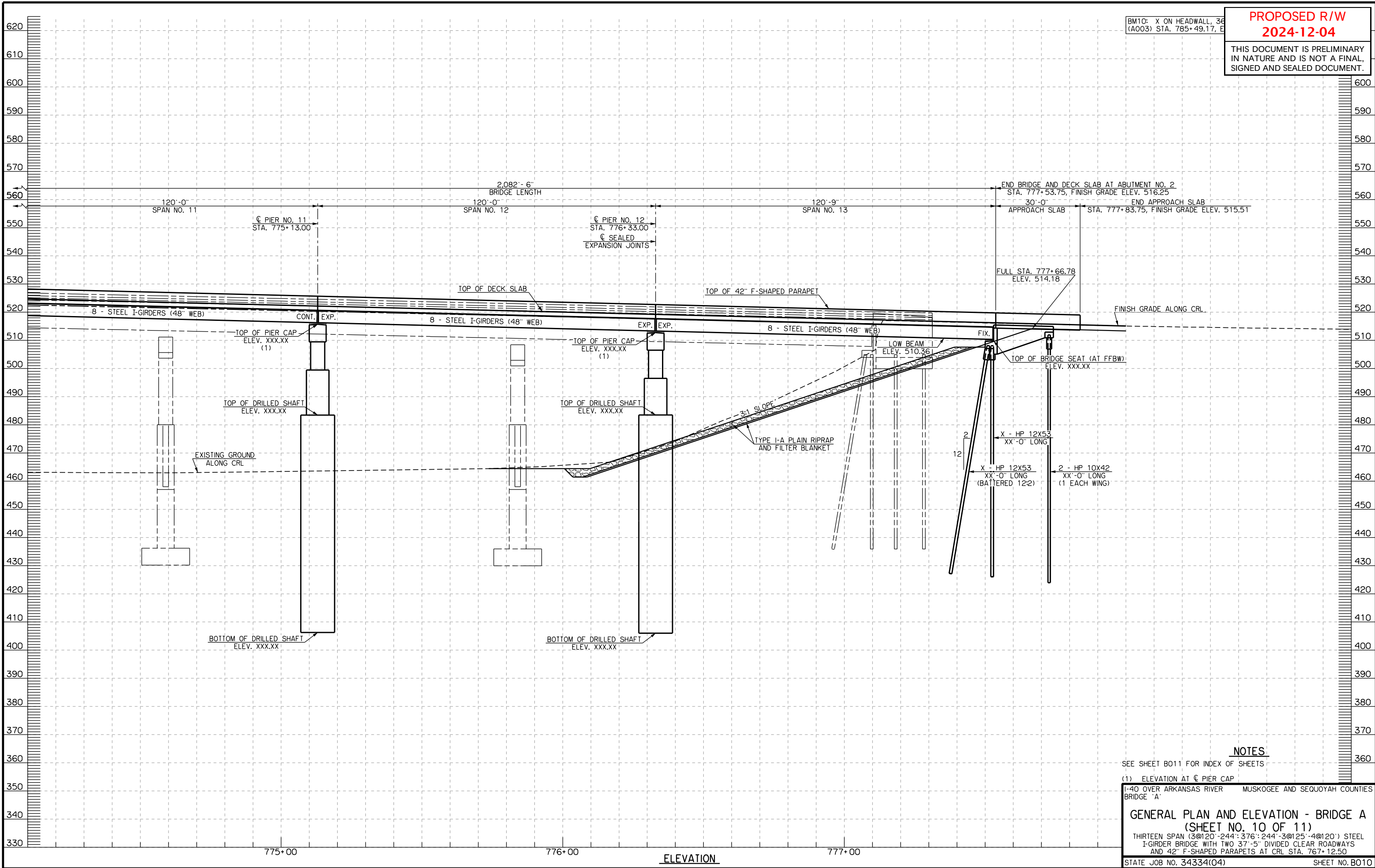
GENERAL PLAN AND ELEVATION - BRIDGE A
(SHEET NO. 9 OF 11)

THIRTEEN SPAN (3@120'-244'-376'-244'-3@125'-4@120') STEEL
I-GIRDER BRIDGE WITH TWO 37'-5" DIVIDED CLEAR ROADWAYS
AND 42" F-SHAPED PARAPETS AT CRL STA. 767+12.50

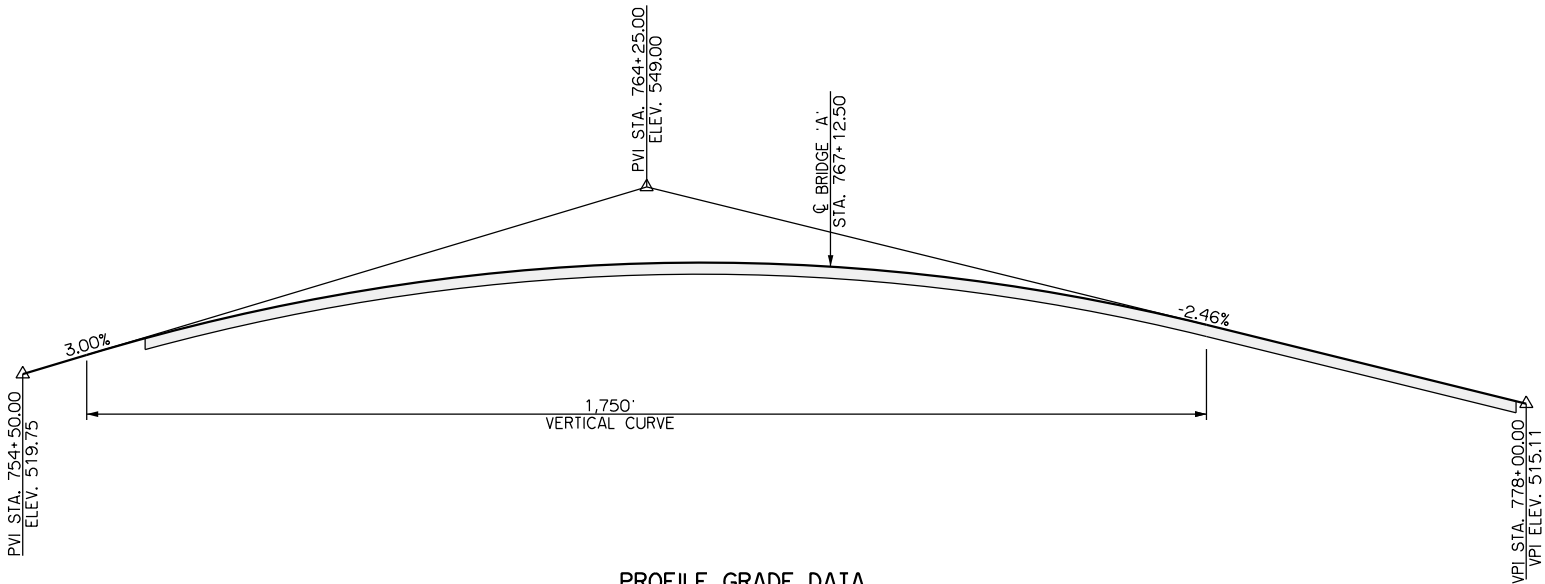
STATE JOB NO. 34334(04)

SHEET NO. B009

PLAN



SUMMARY OF QUANTITIES - BRIDGE 'A'						
ITEM	UNIT	ABUTMENTS	PIERS	SUPERSTRUCTURE	APPROACH SLABS	TOTAL
SUBSTRUCTURE EXCAVATION COMMON	CY	-	-	-	-	-
CLSM BACKFILL	CY	-	-	-	-	-
APPROACH SLAB	SY	-	-	-	-	-
SAW-CUT GROOVING	SY	-	-	-	-	-
42" F-SHAPED PARAPET	LF	-	-	-	-	-
STRUCTURAL STEEL	LB	-	-	-	-	-
STAINLESS STEEL FIXED BEARING ASSEMBLY	EA	-	-	-	-	-
STAINLESS STEEL EXP. BEARING ASSEMBLY	EA	-	-	-	-	-
ELASTOMERIC COATING	SF	-	-	-	-	-
CLASS AA CONCRETE	CY	-	-	-	-	-
CLASS A CONCRETE	CY	-	-	-	-	-
REINFORCING STEEL	LB	-	-	-	-	-
EPOXY COATED REINFORCING STEEL	LB	-	-	-	-	-
PILES, FURNISHED (HP 10X42)	LF	-	-	-	-	-
PILES, FURNISHED (HP 12X53)	LF	-	-	-	-	-
PILES, DRIVEN (HP 10X42)	LF	-	-	-	-	-
PILES, DRIVEN (HP 12X53)	LF	-	-	-	-	-
PILE SPLICE, H-PILE (NON-BIDDABLE)	EA	-	-	-	-	-
WATER REPELLENT (VISUALLY INSPECTED)	SY	-	-	-	-	-
DRILLED SHAFTS 144" DIAMETER	LF	-	-	-	-	-
CROSSHOLE SONIC LOGGING	EA	-	-	-	-	-
SEALED EXPANSION JOINTS	LF	-	-	-	-	-
MODULAR EXPANSION JOINT	LF	-	-	-	-	-
SEALER CRACK PREPARATION	LF	-	-	-	-	-
SEALER RESIN	GAL	-	-	-	-	-
6" PERFORATED PIPE UNDERDRAIN ROUND	LF	-	-	-	-	-
6" NON-PERF. PIPE UNDERDRAIN RND.	LF	-	-	-	-	-



PROFILE GRADE DATA
FINISH GRADE ALONG CRL

PROPOSED R/W
2024-12-04

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STRUCTURAL DESIGN DATA

MATERIAL:
CLASS A CONCRETE, f'c = 3,000 PSI
CLASS AA CONCRETE, f'c = 4,000 PSI
REINFORCING STEEL, fy = 60,000 PSI
STRUCTURAL STEEL M270 (GRADE 50W), Fy = 50,000 PSI
STAINLESS STEEL A240 (TYPE 316), Fy = 30,000 PSI

LOADING:
AASHTO HL-93
OKLAHOMA DOT 9 AXLE OVERLOAD TRUCK (175 KIP)
OKLAHOMA DOT 16 AXLE OVERLOAD TRUCK (315 KIP)
20 PSF FUTURE WEARING SURFACE

DESIGN:
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION
ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE
ANSI/AWS D1.6 STRUCTURAL WELDING CODE - STAINLESS STEEL

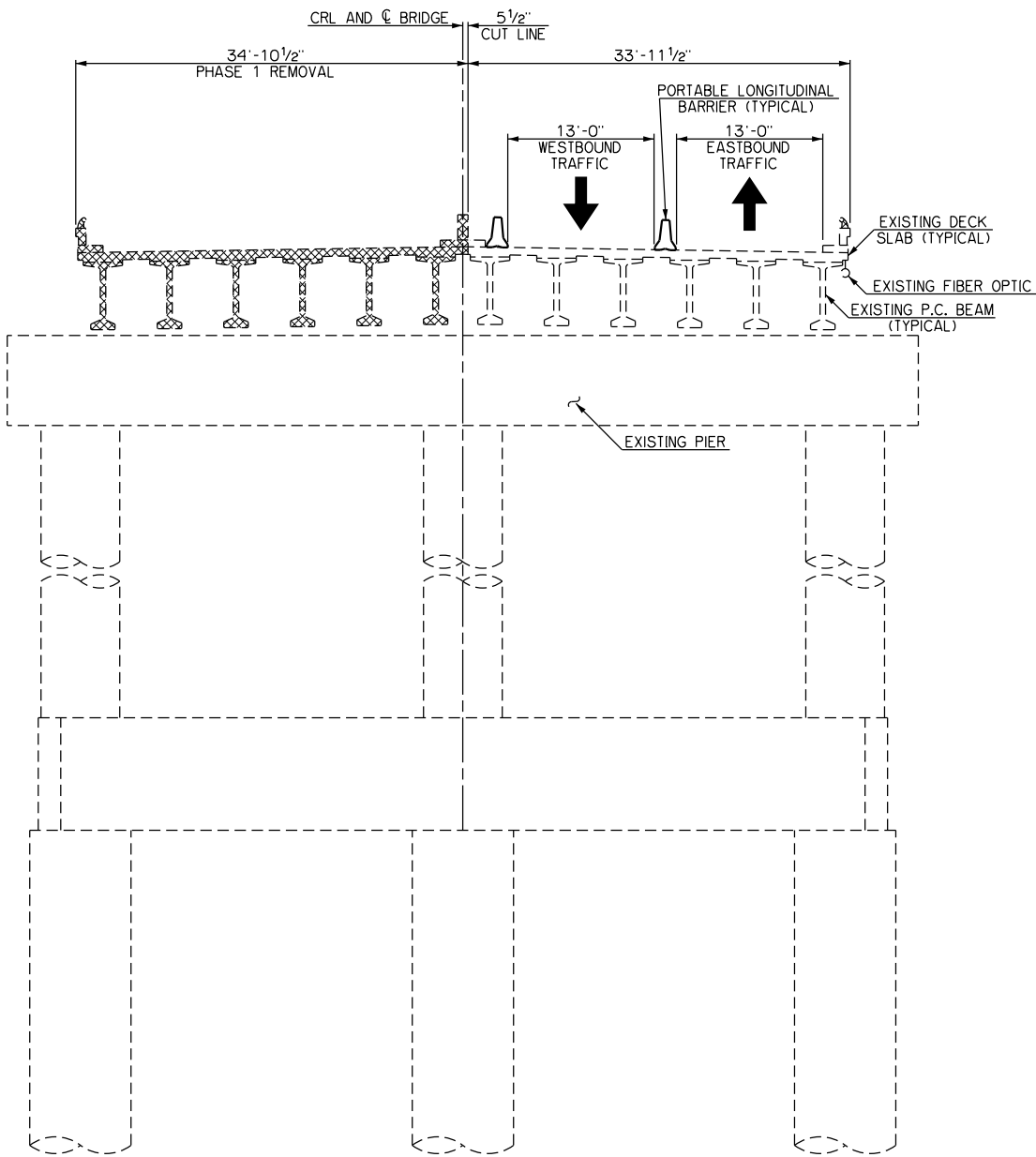
HL-93 INVENTORY RATING FACTOR: X.XX
HL-93 OPERATING RATING FACTOR: X.XX

FOUNDATION DESIGN DATA - ABUTMENT PILES		
ABUTMENT NO.	1	2
MAXIMUM FACTORED PILE LOAD (TONS/PILE)	XX	XX

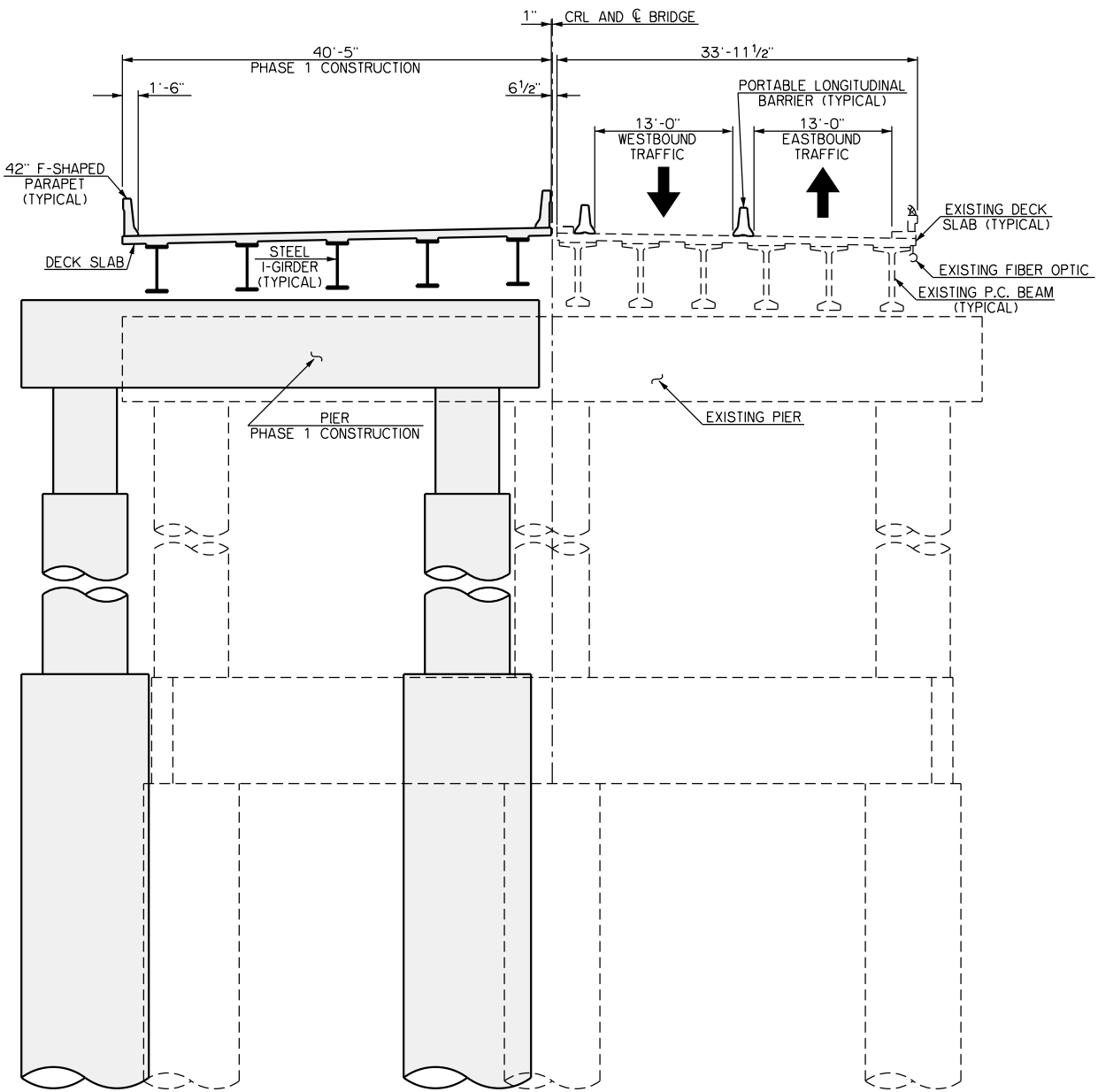
ALL ABUTMENT PILING SHALL BE DRIVEN THROUGH THE COMPACTED FILL. PILING SHALL BE DRIVEN TO POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN IN THE PLANS. IF THE MAXIMUM FACTORED PILE LOAD IS NOT OBTAINED AT THIS ELEVATION, DRIVING SHALL CONTINUE UNTIL THE MAXIMUM FACTORED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

FOUNDATION DESIGN DATA - DRILLED SHAFTS												
PIER NO.	1	2	3	4	5	6	7	8	9	10	11	12
DRILLED SHAFT DIAMETER (INCHES)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
FACTORED REACTION (TONS/SHAFT)	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
SIDE BEARING	UNIT RESISTANCE (TSF)	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X
	RESISTANCE FACTOR	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
	FACTORED RESISTANCE (TONS/SHAFT)	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
SIDE FRICTION	UNIT RESISTANCE (TSF)	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX
	RESISTANCE FACTOR	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
	FACTORED RESISTANCE (TONS/SHAFT)	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
	DEPTH OF ROCK NEGLECTED (FEET)	X.X	X.X	X.X	X.X	X.X	X.X	X.X	X.X	X.X	X.X	X.X
TOTAL FACTORED RESISTANCE (TONS/SHAFT)		X,XXX	X,XXX	X,XXX	X,XXX	X,XXX	X,XXX	X,XXX	X,XXX	X,XXX	X,XXX	X,XXX

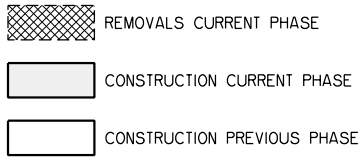
HYDRAULIC DATA			
DRAINAGE AREA (SQ. MI.)		87,464	
CONTROLLED DRAINAGE AREA (SQ. MI.)		615	
EFFECTIVE DRAINAGE AREA (SQ. MI.)		86,849	
FREQUENCY	Q (CFS)	CHW (FT.)	V (FPS)
2	120,000	451.94	6.73
5	145,000	454.36	7.10
10	205,000	459.09	8.00
25	320,000	466.34	9.41
50	495,000	474.53	11.10
100	625,000	479.01	12.54
0T+500	745,000	480.17	13.84
SCOUR DEPTH (FT.)			
FREQUENCY	CONTRACTION	PIER	TOTAL
100	11.19	28.58	39.77
0T+500	13.61	30.71	44.32

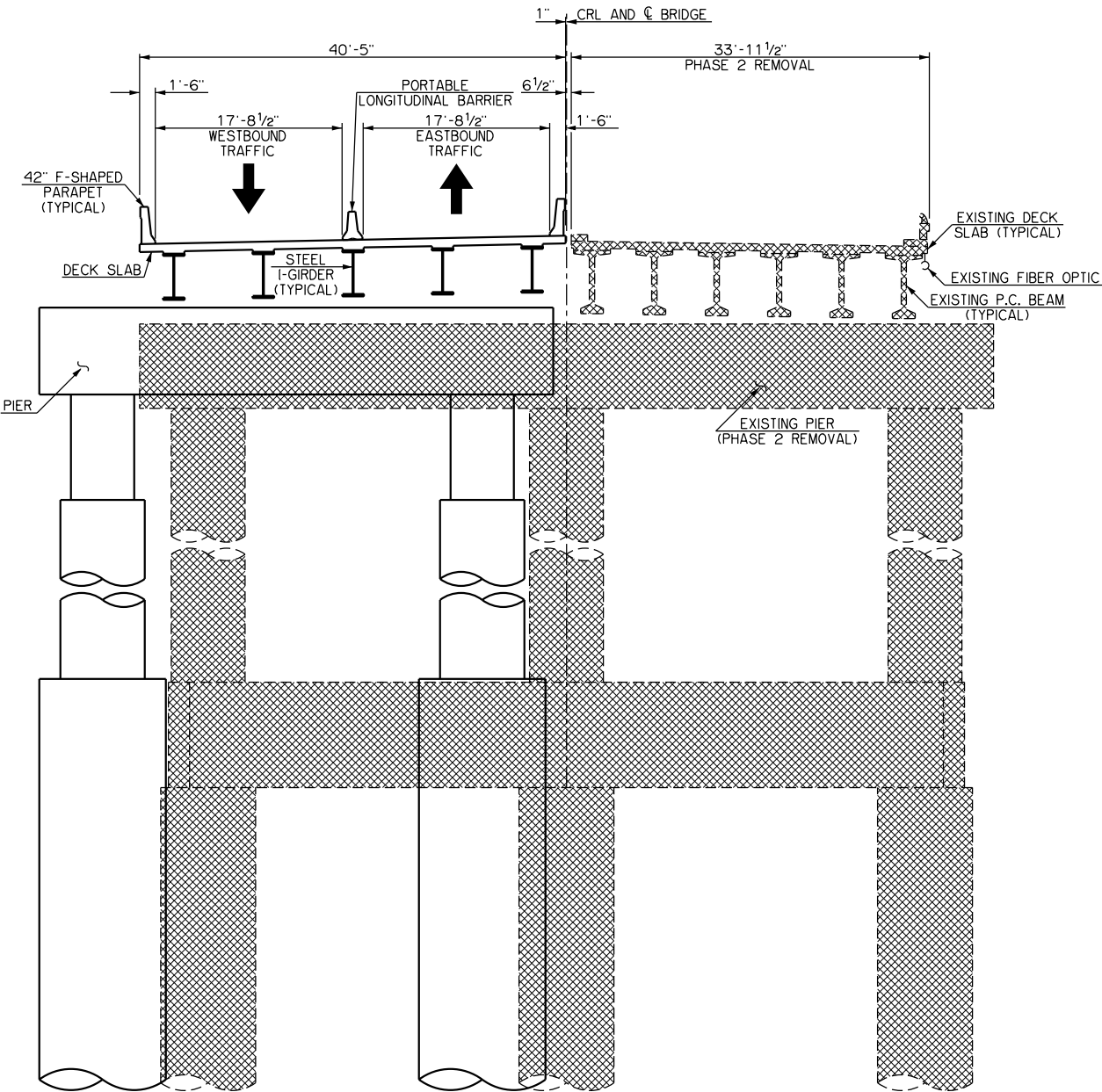


TYPICAL SECTION AT SPAN NOS. 1, 2 AND 3 - PHASE 1 REMOVAL

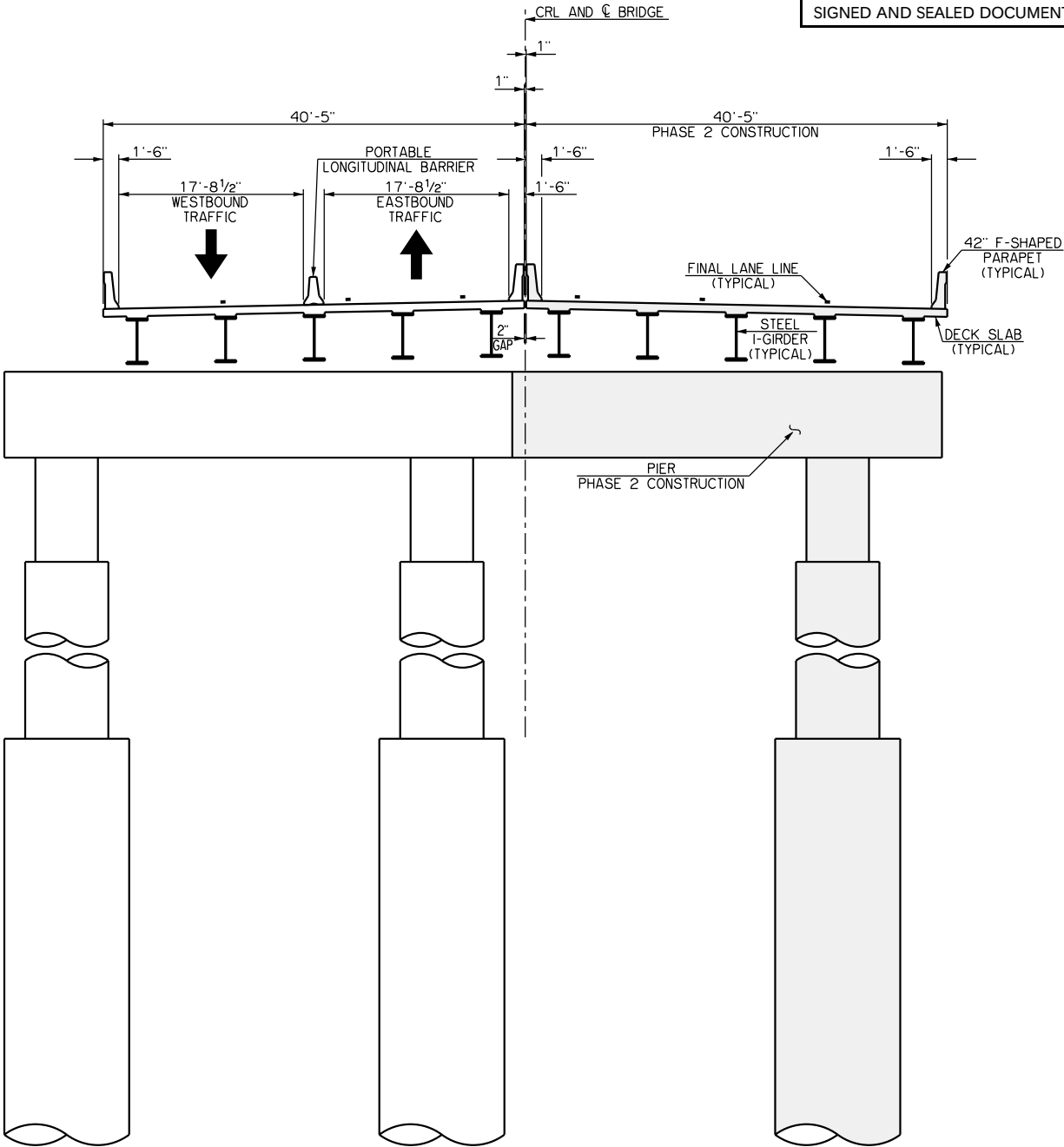


TYPICAL SECTION AT SPAN NOS. 1, 2 AND 3 - PHASE 1 CONSTRUCTION

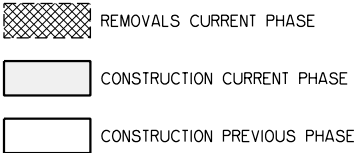


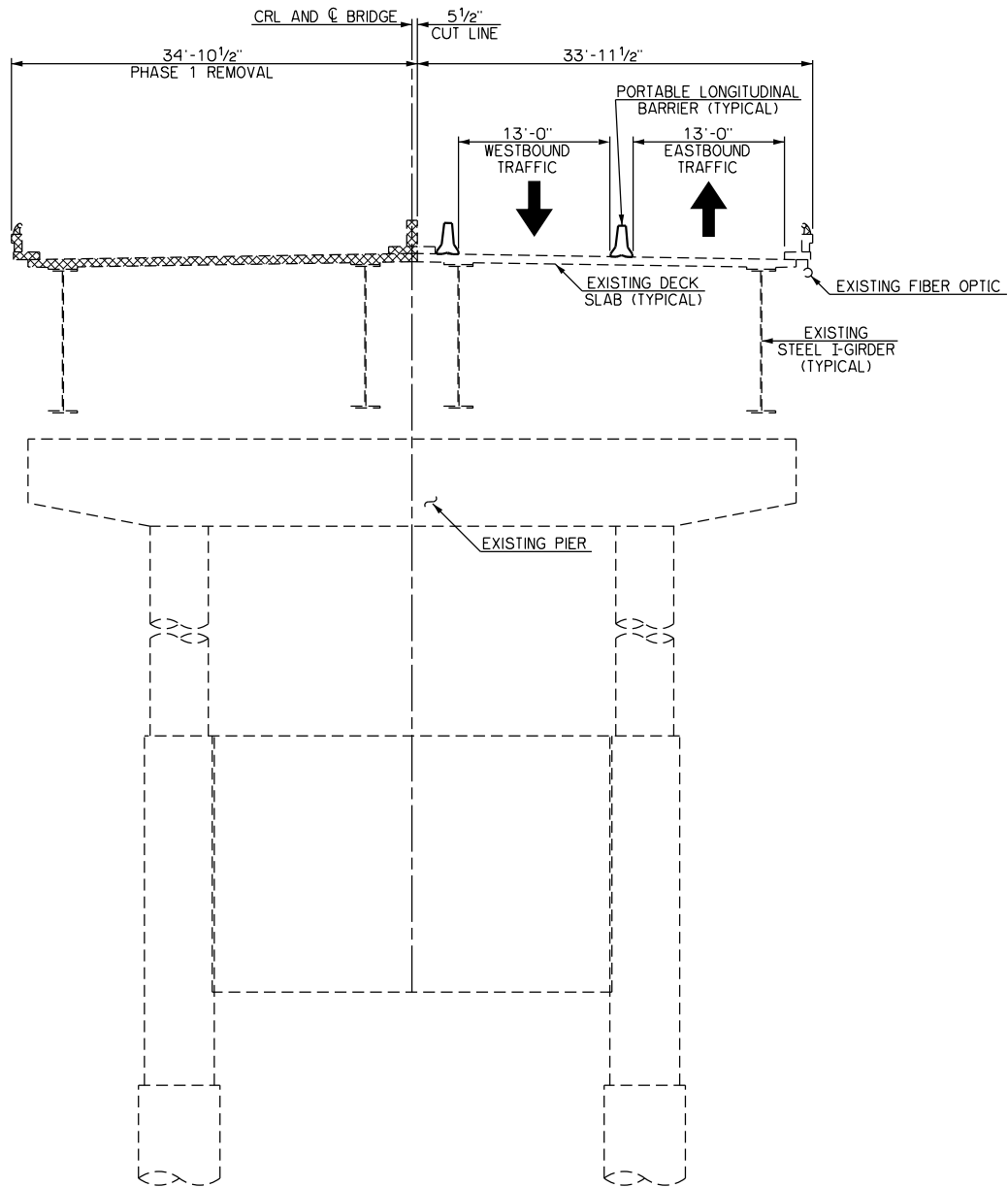


TYPICAL SECTION AT SPAN NOS. 1, 2 AND 3 - PHASE 2 REMOVAL

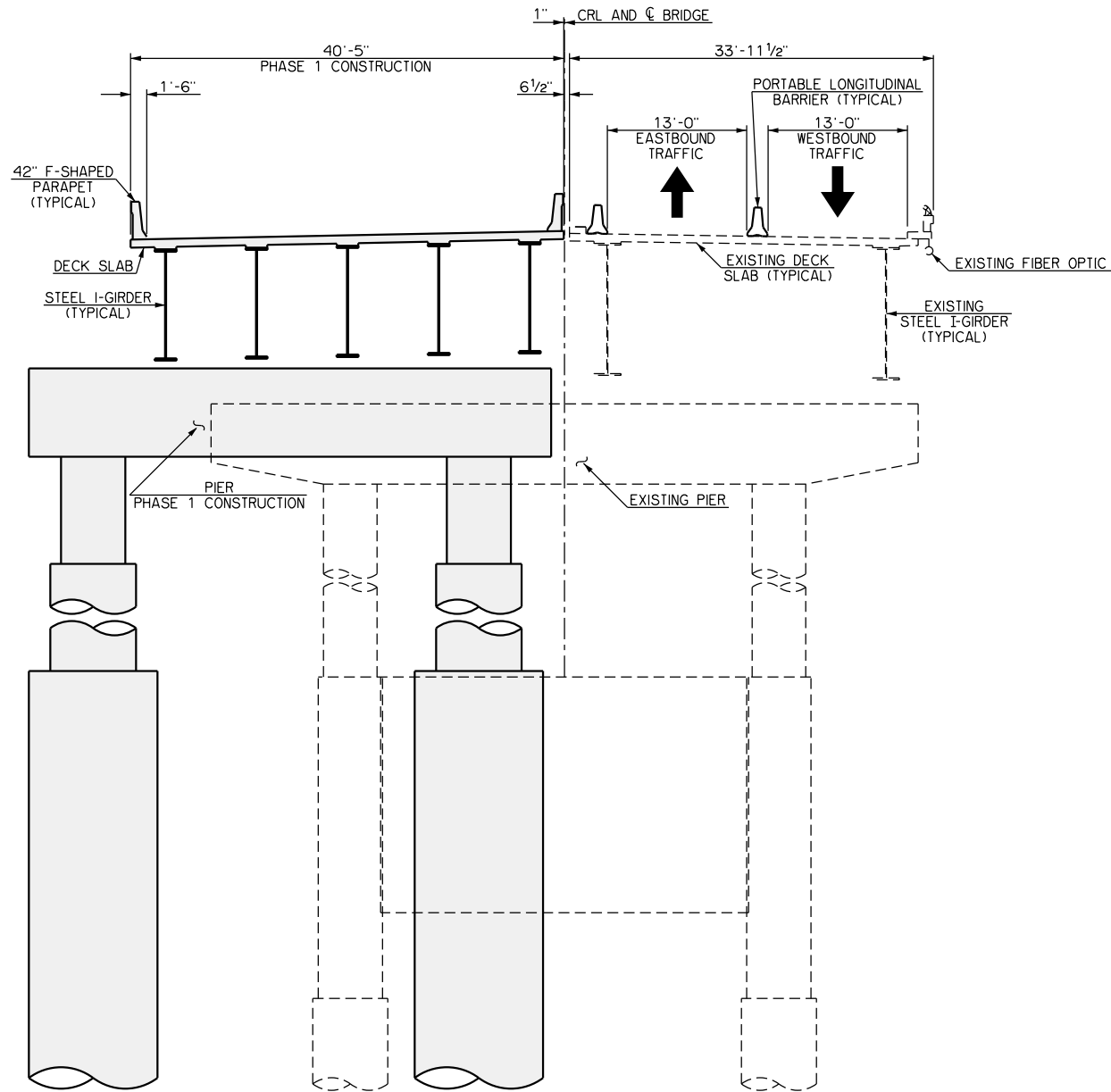


TYPICAL SECTION AT SPAN NOS. 1, 2 AND 3 - PHASE 2 CONSTRUCTION



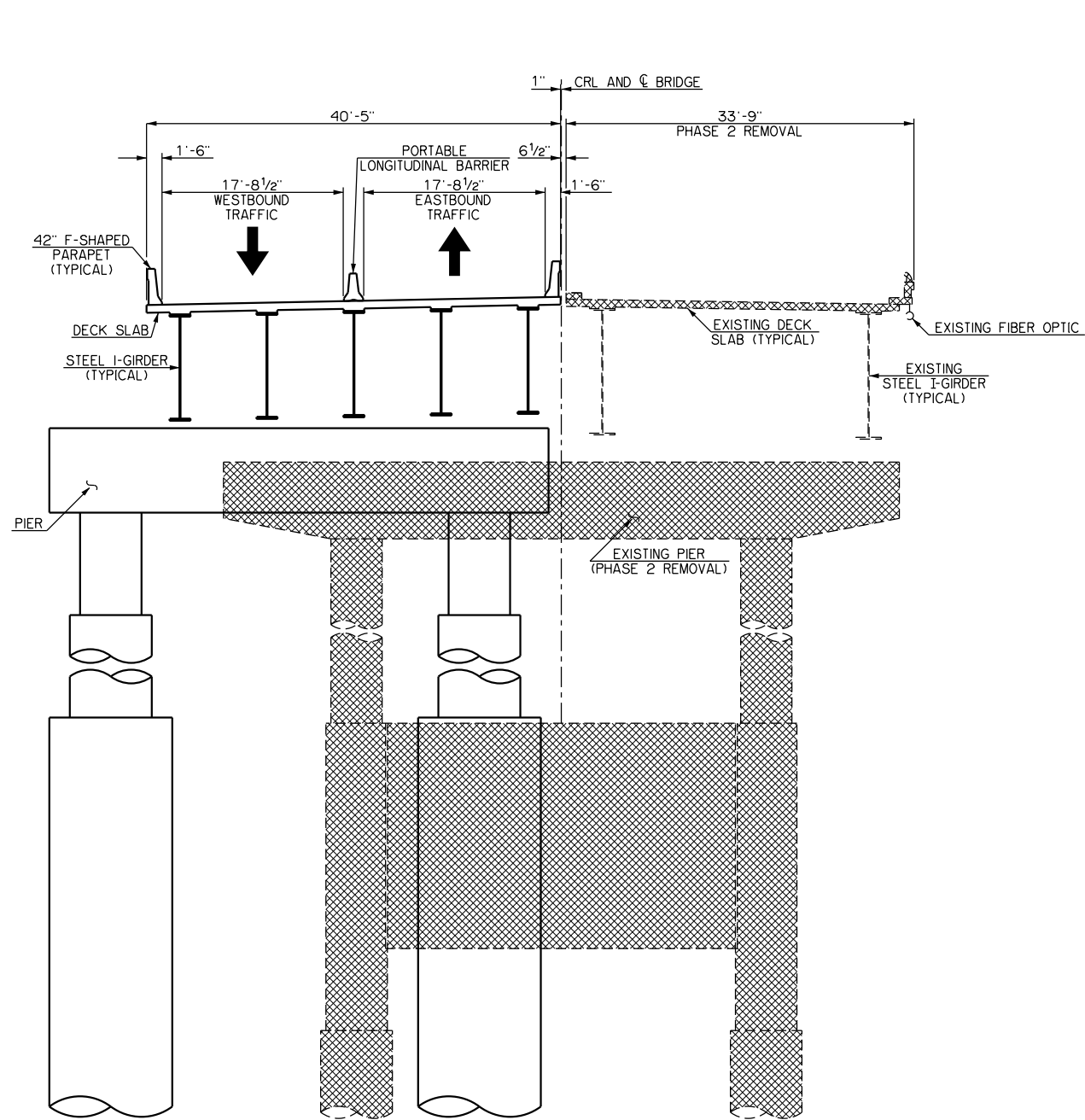


TYPICAL SECTION AT SPAN NOS. 4 THROUGH 13 - PHASE 1 REMOVAL

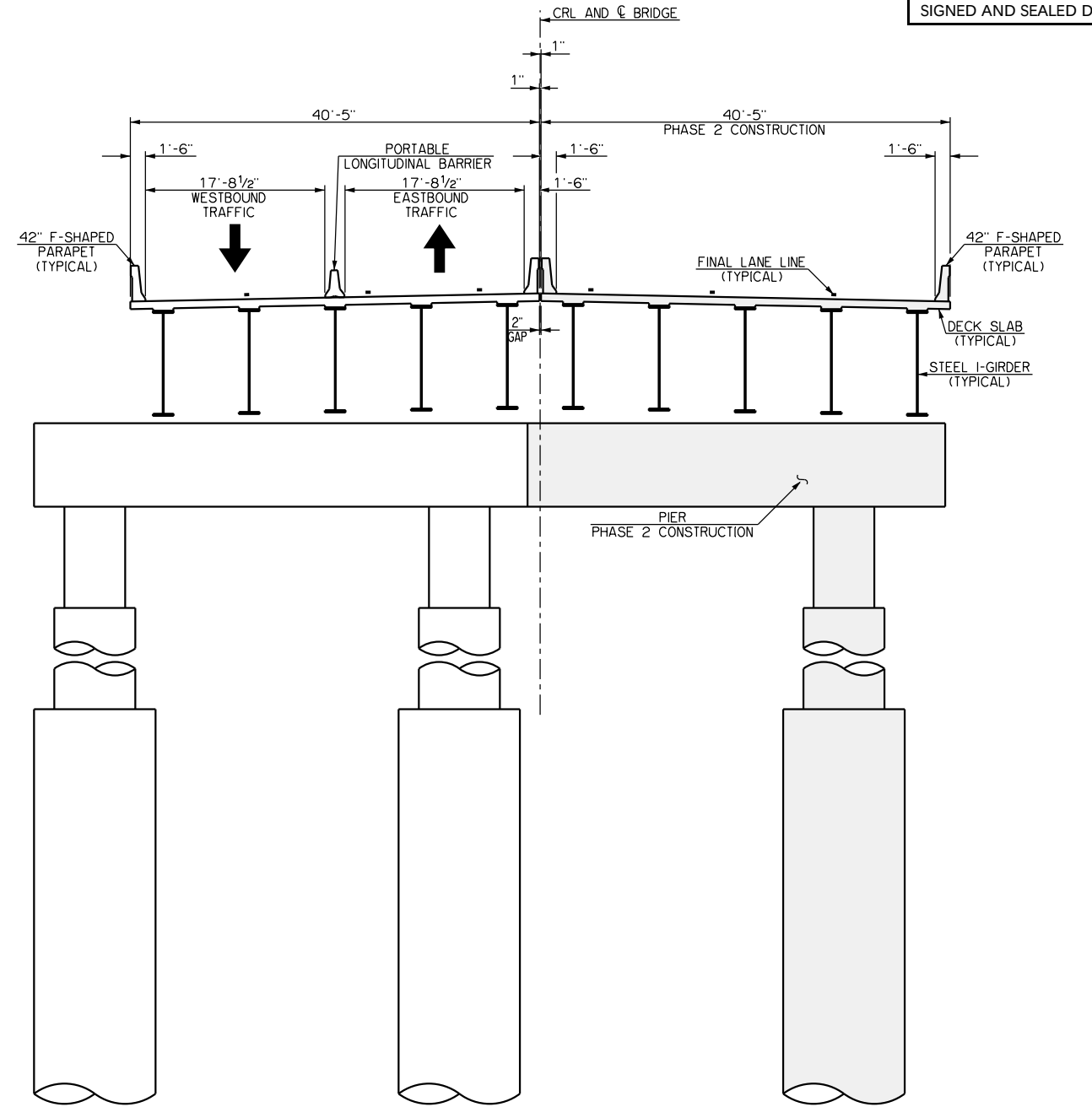


TYPICAL SECTION AT SPAN NOS. 4 THROUGH 13 - PHASE 1 CONSTRUCTION

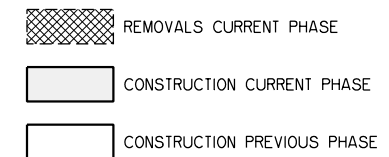
- REMOVALS CURRENT PHASE
- CONSTRUCTION CURRENT PHASE
- CONSTRUCTION PREVIOUS PHASE



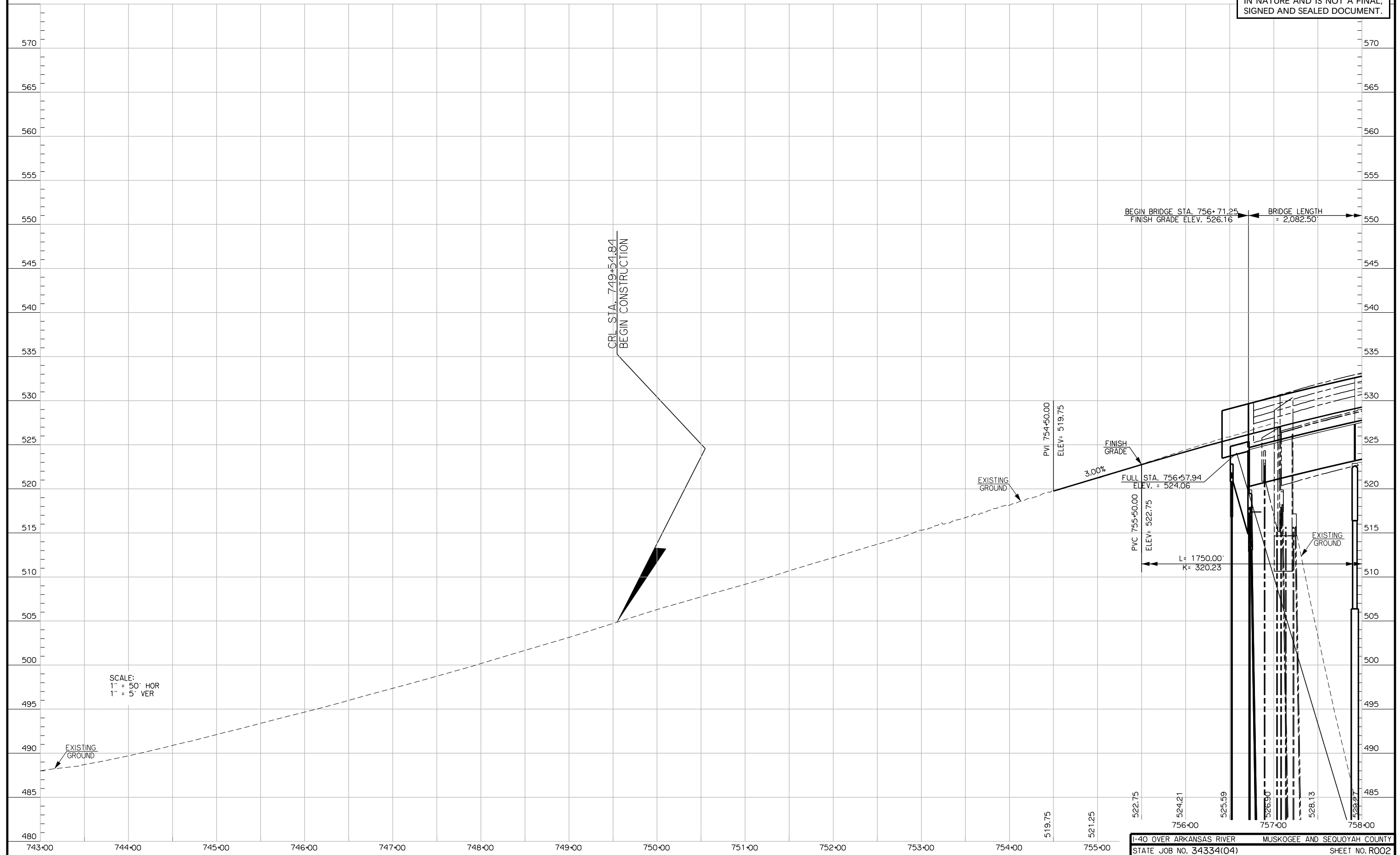
TYPICAL SECTION AT SPAN NOS. 4 THROUGH 13 - PHASE 2 REMOVAL



TYPICAL SECTION AT SPAN NOS. 4 THROUGH 13 - PHASE 2 CONSTRUCTION



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



SCALE:
1" = 50' HOR
1" = 5' VER



BLM 2011
338.58'

MATCHLINE STA. 758+00.00

MATCHLINE STA. 773+00.00

POT STA. 758+77.40 ON ADJUSTED RT. BANK
BLM DEPENDENT RE-SURVEY DATED 09/30/12
CALCULATED POSITION - NOTHING SET

POT STA. 767+17.41 A002
ON NS445 SECTION LINE
-POT STA. 767+17.24 ON
FAP 1-40-6-11001288 PLANS.
N 2191.32' TO SECTION CORNER
S. 456.77' TO 1/4 SECTION CORNER (IN R/W)
CALCULATED POSITION - NOTHING SET

POT STA. 769+75.14 ON MEANDER LINE
N 706.69' TO MEANDER COR.
S. 1369.13' TO MEANDER COR.
BLM DEPENDENT RE-SURVEY DATED 09/30/12
CALCULATED POSITION - NOTHING SET

**PROPOSED R/W
2024-12-04**

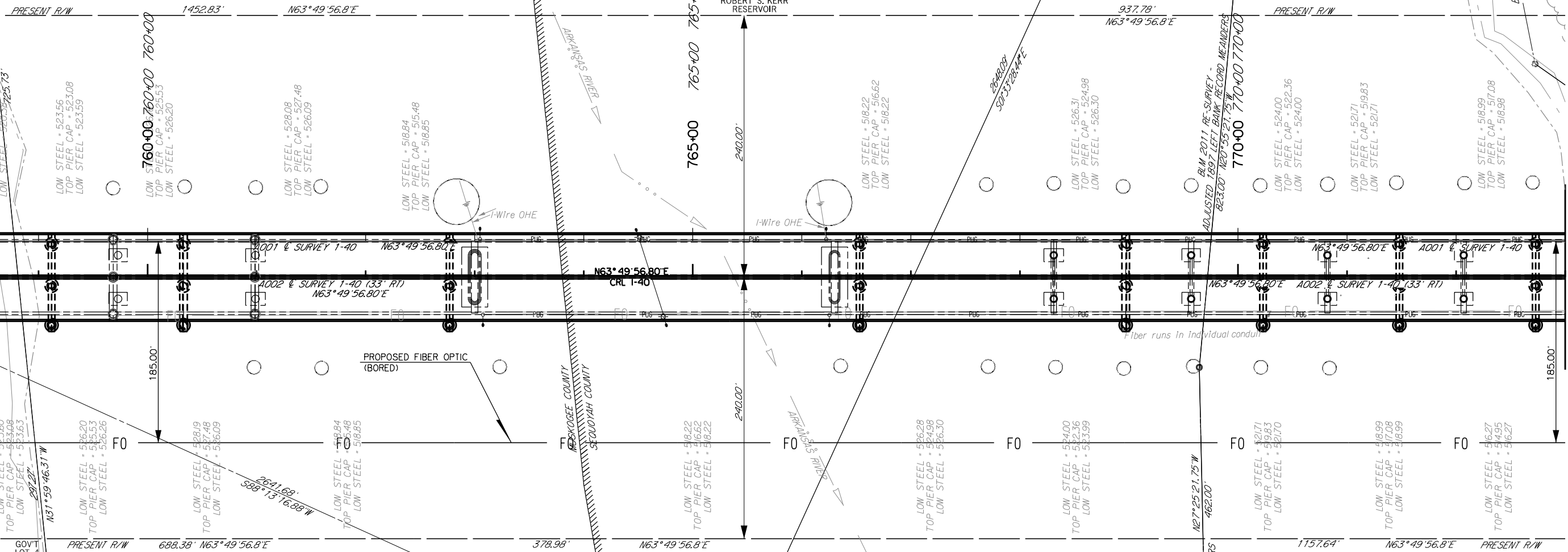
THIS DOCUMENT IS PRELIMINARY
IN NATURE AND IS NOT A FINAL,
SIGNED AND SEALED DOCUMENT.

SEC 29
T-12-N, R-19-W

SEC 28
T-12-N, R-21-E

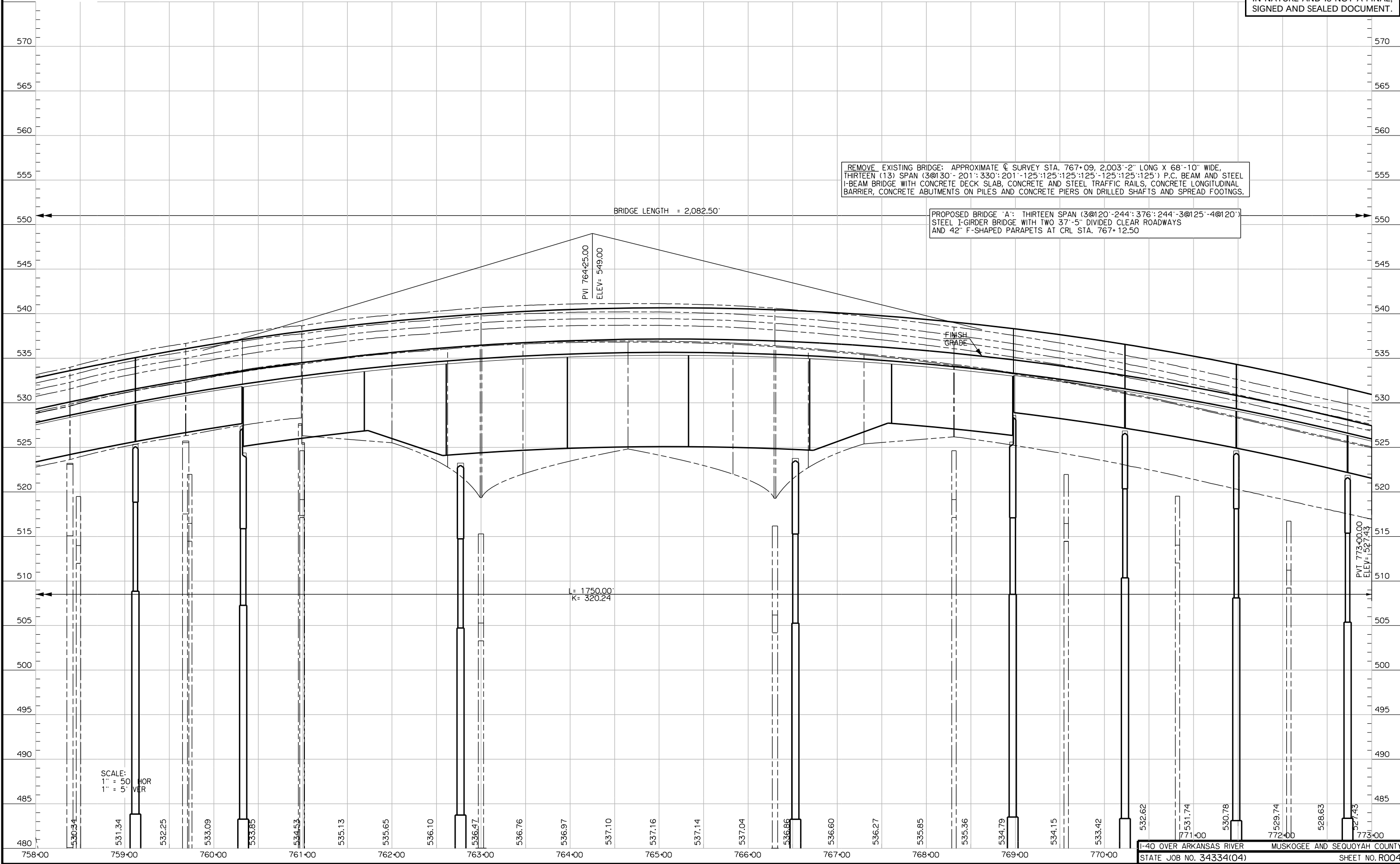
SEC 29
T-12-N, R-21-E

SEC 28
T-12-N, R-21-E

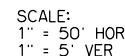


PROPOSED R/W
2024-12-04

THIS DOCUMENT IS PRELIMINARY
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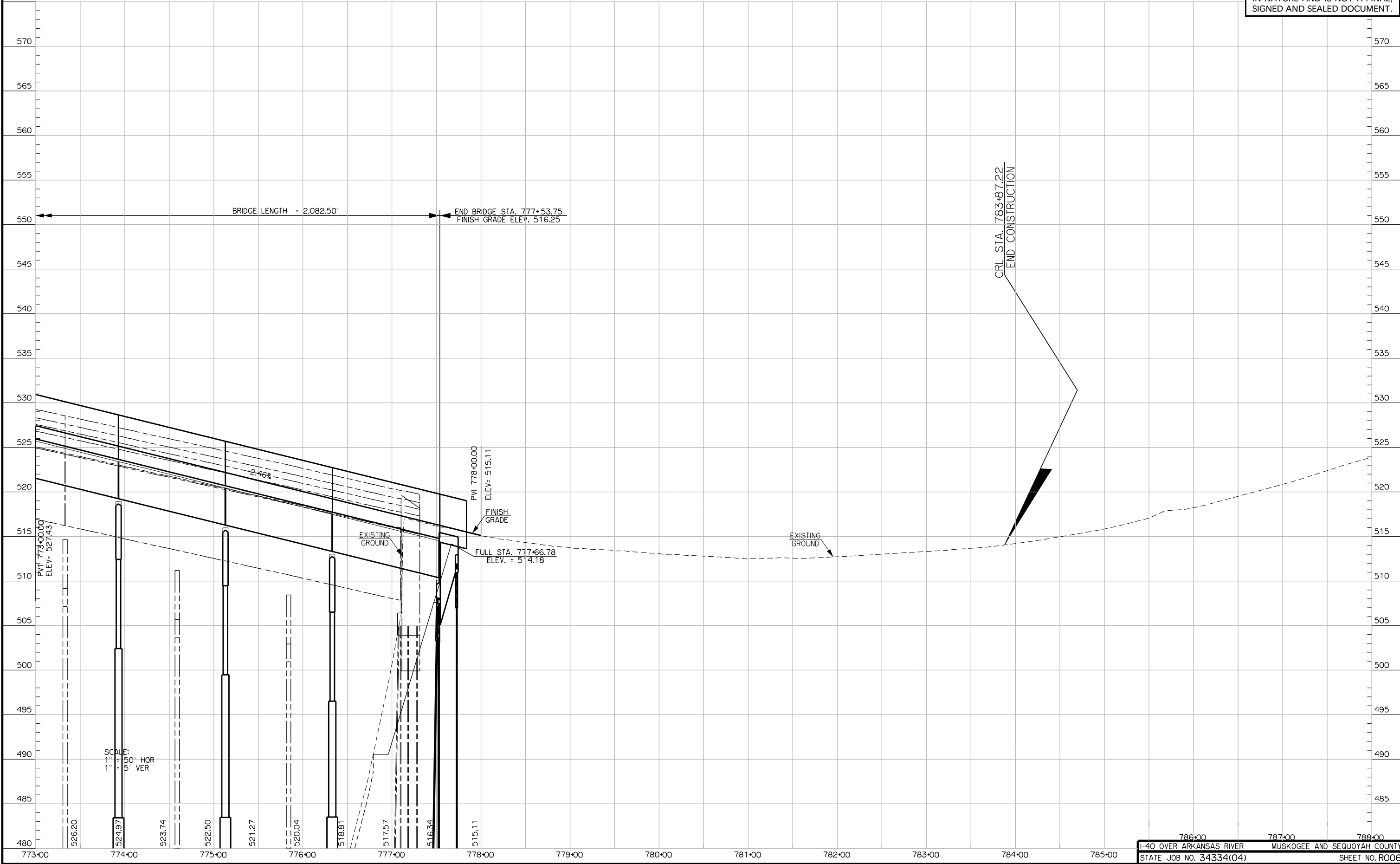
THIS DOCUMENT IS PRELIMINARY
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B.M. 10- X ON HEADWALL	I-40 OVER ARKANSAS RIVER	MUSKOGEE AND SEQUOYAH COUNTY
A003 SURVEY STA. 785+49.17, 36.54' RT ELEV.= 513.853	STATE JOB NO. 34334(04)	SHEET NO. R005

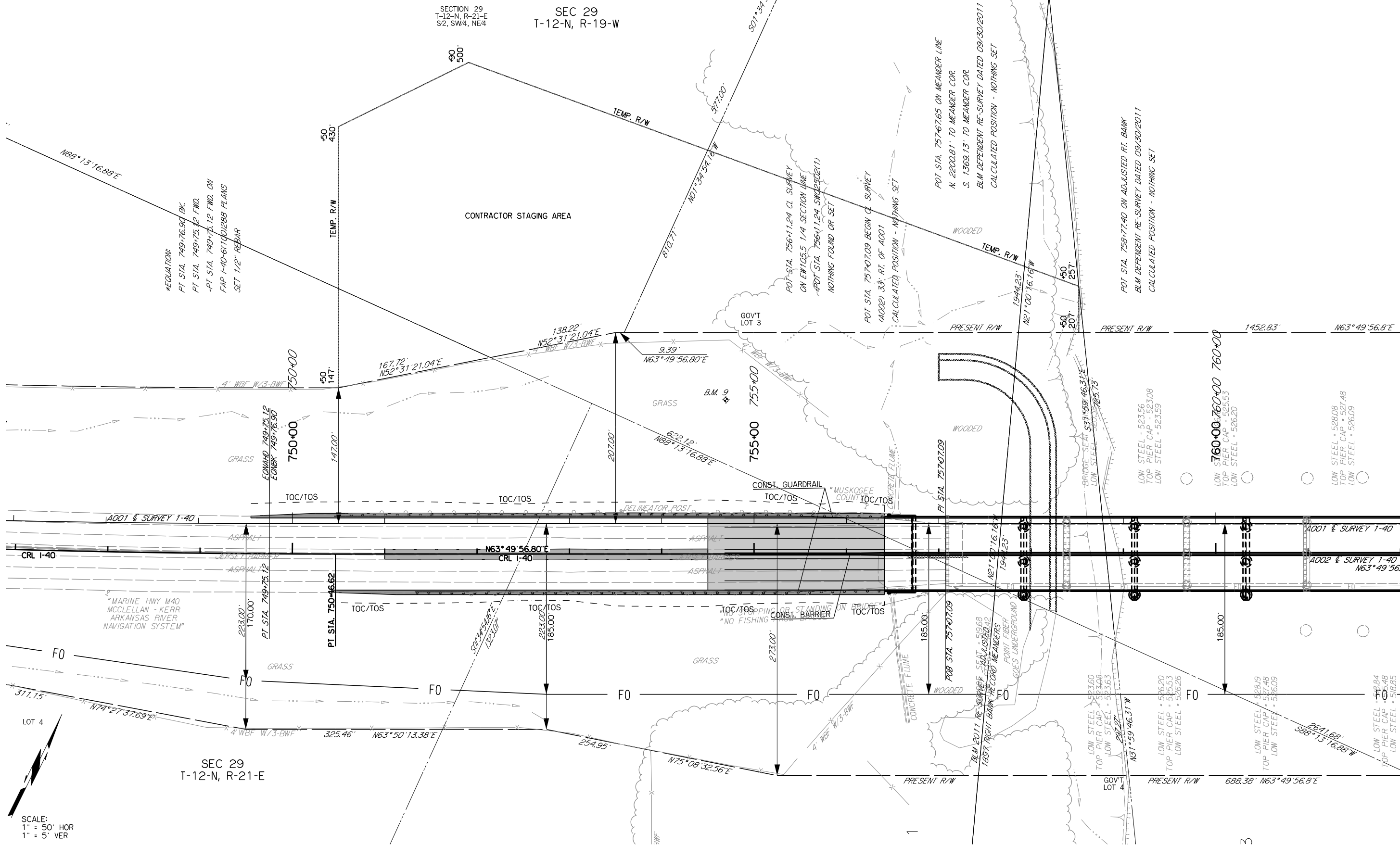
PROPOSED R/W
2024-12-04

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



PROPOSED R/W
2024-12-04

THIS DOCUMENT IS PRELIMINARY
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SIGNED AND SEALED DOCUMENT.



SCALE:
1" = 50' HOR
1" = 5' VER

PROPOSED R/W
2024-12-04

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

SURVEY CONTROL DATA

1. POSITIONAL CONTROL:

A. POSITIONAL CONTROL FOR THIS SURVEY IS THE NGS OKLAHOMA
STATE PLANE COORDINATE SYSTEM, NAD83 (2011), LAMBERT PROJECTION
(NORTH ZONE).

B. ACCURACY - THE POSITIONAL CONTROLS FOR THIS SURVEY MEETS
OR EXCEEDS THE FOLLOWING ACCURACY CRITERIA:

1. NETWORK ACCURACY: 0.10 FOOT
2. LOCAL ACCURACY: 0.05 FOOT

2. BEARINGS:

THE BEARINGS SHOWN HEREIN OR HEREON ARE GRID BEARINGS
DERIVED FROM THE NGS OKLAHOMA STATE PLANE COORDINATE SYSTEM
AND ARE NOT ASTRONOMICAL. THE ANGLE OF VARIANCE BETWEEN
GRID NORTH (GN) AND THE ASTRONOMICAL TRUE NORTH (TN) IS
DEPICTED DIAGRAMMATICALLY.

3. VERTICAL CONTROLS:

A. LEVEL DATUM IS NAVD 88 FROM STATIC GPS.

B. ACCURACY - VERTICAL CONTROL FOR THIS SURVEY MEETS
OR EXCEEDS THE FOLLOWING ACCURACY CRITERIA:

1. NETWORK ACCURACY (FROM GPS OR LEVELING): 0.10 FOOT
2. LOCAL ACCURACY (CONFIRMED BY LEVELING): 0.02 FOOT

SURVEY BEGAN: November 17, 2021
SURVEY COMPLETED: April 26, 2023

SURVEY CREW MEMBERS:

Edward Glen Painter,	Professional Land Surveyor
Darren Messick,	Senior Survey CAD Tech
Phillip Milligan,	Chief of Parties
Kerra Unal,	Survey CAD Tech
Kolbi Wilson,	Sr. Party Chief
Aubray Deskin,	Sr. Party Chief
Jace McKee,	Jr. Party Chief
Derance Pierce,	Instrument Operator
Quentin Myers,	Instrument Operator

EQUIPMENT:
LEICA TS-15 & TS-16 ROBOTIC TOTAL STATION
LEICA GS16 & GS18 GPS EQUIPMENT
LEICA CS20 DATA COLLECTOR

SURVEY DATA SHEETS

SURVEY OF MUSKOGEE & SEQUOYAH COUNTY I-40 OVER ARKANSAS RIVER

SWO 5486(1)
STATE JOB NO. 34334(04)

INDEX OF SURVEY SHEETS

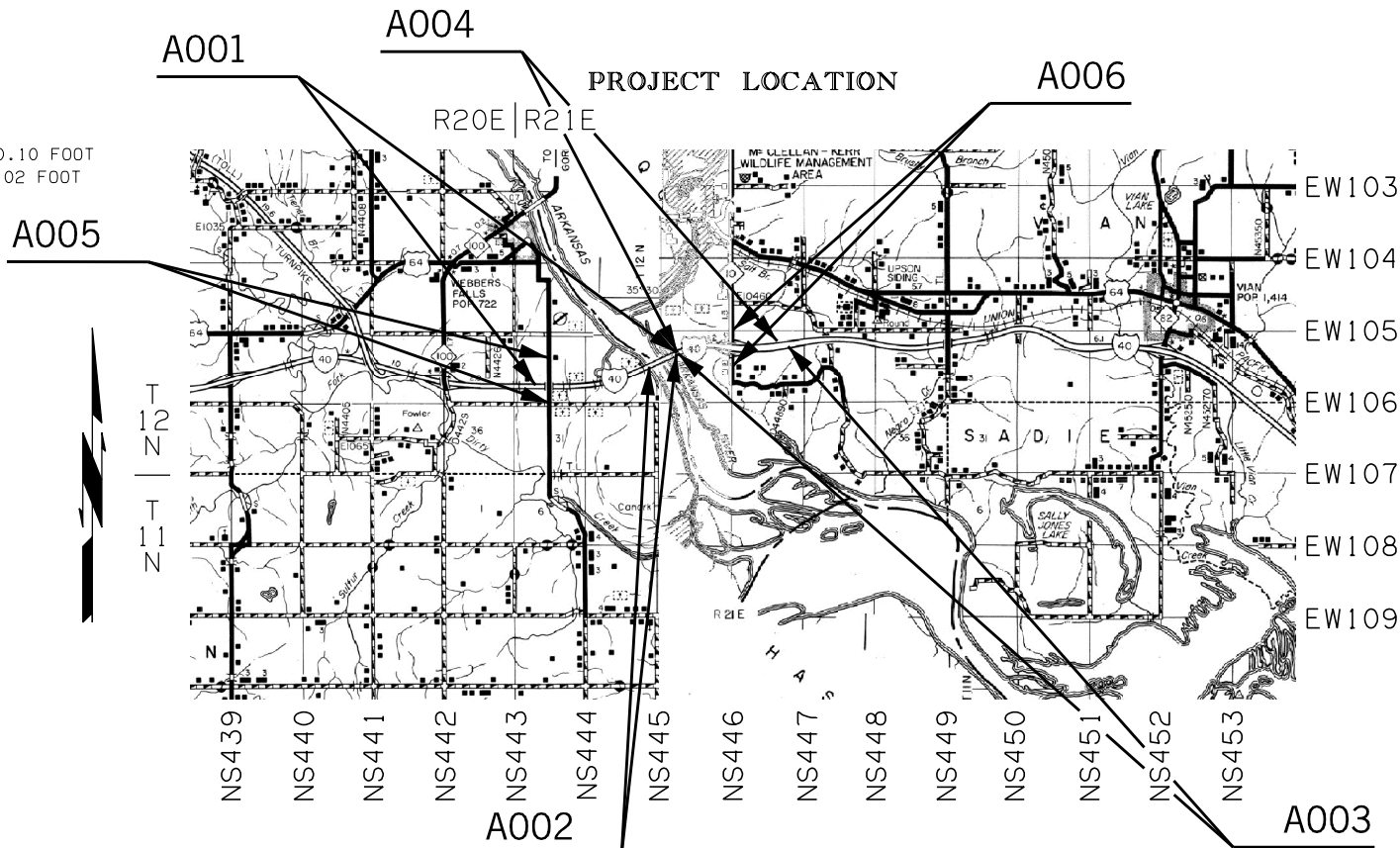
S001.	TITLE SHEET
S002-S008.	SURVEY REPORTS
S010-S016.	SURVEY DATA SHEETS
S017-S019.	LAND TIE DATA SHEETS

Utility Company Owner's List

Cookson Hills Electric	800-328-2368
Dobson Fiber	855-536-2766
MBO Video/Earlsboro	877-777-8941
Cross Telephone Company	800-828-6567
Century Link Internet	833-544-2540
ONEOK Gas Transport	405-756-2500
East Central Oklahoma Elec.	918-756-0833

"CALL BEFORE YOU DIG"
THE NEW NATIONAL LOCATE NUMBER

811



A004 PROJECT LENGTH 7,463.19 Ft. 1.414 MI.

BEGINNING STATION : 779+92.63
ENDING STATION : 854+55.82

A005 PROJECT LENGTH 2,643.84 Ft. 0.501 MI.

BEGINNING STATION : 0+00.83
ENDING STATION : 26+44.67

SCALES 1" = 100'

SURVEY DATA SHEETS 1" = 100'

GEOMETRIC DATA SHEETS 1" = 500'

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, SEPTEMBER 14, 2018.



SPECIFICATIONS FOR SURVEYS FOR PRIMARY AND SECONDARY HIGHWAYS DATED JANUARY, 2018 GOVERN.

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STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION

SWO 5486(1) Job/Piece 34334 (04) Engr. Contract No. 2324

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 Surveying Instructions";
- its supplement, "Restoration of Lost or Obliterated Corners and Subdivision of Sections";
- Oklahoma Minimum Standards for the Practice of Land Surveying" as adopted by the State Board of Registration 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 and that it is true, accurate and correct to the best of my knowledge and belief.

Dated this 26th day of MARCH, 2023

Land Surveyor

Signature

EDWARD GLEN PAINTER

Printed Name

Oklahoma Registered Land Surveyor No. 1782

Certificate of Authorization No. 3639 Exp. Date 06/2024



PLS	EDP	OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION	
DRAWN	DCM	SURVEY DATA SHEET SWO 5486(1)	
CHECKED	PPM		
APPROVED	DCM		
CREW	NORMAN		
COUNTY	MUSKOGEE	HIGHWAY	I-40
STATE JOB NO.	34334(04)	SHEET NO.	S001



April 26, 2023

To: Mr. Geoff King, PLS, Chief of Surveys
From: Edward Painter, Professional Land Surveyor
Subject: SWO 5486 – J/P Number 34334(04) – I-40, Beginning 2,000 feet southwest of the western end of the I-40 bridge over the Arkansas River in Muskogee County. Area runs 1.15 miles northeast along Interstate 40 centerline. Project limits run one hundred and fifty feet either side of the highway centerlines for the entire length of the project.

HISTORICAL LETTER AND WRITTEN REPORT

- General:**
Method of Survey: Field Conventional
Unit of Measurement: U.S. Survey Foot
Survey Began: November 17, 2021
Survey Completed: April 26, 2023

Previous Surveys and Plans pertinent to this project:
 - swo2638(1) Field Book No. 1 complete
 - swo2502(1) Survey
 - FAP I-40-6(99)(100)288 as-built 3-15-68 Plans
 - BLM 2011 Re-survey Meanders
 - Partial Boundary Survey – Robert S. Kerr Lock & Dam
- Purpose of Survey:**
The primary purpose of this project is to replace the I-40 over Arkansas River bridge located in Muskogee and Sequoyah Counties. The bridge replacement project is currently programmed by ODOT under State Job No. 34334(04).
- Assignment of Survey:**
This survey was assigned to EST via CI 2324.
- Survey Limits:**
From 4435 Road east to SH-10, as described on the ODOT Project Initiation Report (dated 02.17.2021) the survey project number is swo5486(1). The survey will be performed in accordance with the ODOT, Survey Division's "Specifications for Surveys for Primary and Secondary Highways", revised 2018. Ties will be made to swo2502(1), and the previous Surveys and Plans listed above.

The total area requiring topographic survey comprises approximately 175.47 Acres. Land ties are to include establishing/re-establishing all section corners and 1/4 section corners, including the center section corner establish, of each section through which the main line passes and any other quarter (1/4) section from which right-of-way may need to be acquired. All section corners and 1/4 section corners so established are to be monumented and referenced in accordance with the above-mentioned Survey Specifications. As a minimum, the following sections or partial sections are to be set up in Sections 28-30, T12N, R21E.

SWO 5486(1) – I-40 – Muskogee and Sequoyah Counties
Historical Letter and Written Report
Page 2 of 3

- Alignments:**
The Centerline of Survey (A001) for this project is along present Interstate 40 as shown on swo2502(1) & FAP I-40-6(99)(100)288 as-built plans. Stationing for the corridor of the project was held at the beginning/ending of the bridge (A002) and calculated outward holding swo2502(1) alignment & stationing.

Only two monuments that were sought after were recovered. The following found monuments were used to establish the extended portions: Master PI Sta. 797+95.13 (A003 Rt. Lane) – Found 5/8" Rebar; PI Sta. 840+05.60 (A003 Rt. Lane) – Found 5/8" Rebar. Using the PI's and Centerline of swo2502(1) the alignments were created holding the existing tangents, while maintaining degree of curve.
- Stationing:**
Stationing for this survey was taken from swo2502(1).
- Horizontal Control:**
Horizontal control for this survey is NAD 83(2011) Oklahoma State Plane, North Zone, derived from local C.O.R.S. in the area using OPUS Projects. Two primary control monuments were established for this survey, and an ODOT form SD-11 has been submitted for each.

Secondary control for this survey was established using GPS Real Time Kinematic methods, following accepted ODOT Survey Division methods and techniques.
- Vertical Control:**
Vertical control for this survey is NGS, NAVD88 Level Datum and was derived from the primary network adjustment using OPUS Projects and tied to National Geodetic Survey monument designation R_79.

A "BENCHMARKS AND CHECK LEVELS" list has been placed in the submitted design file and has been submitted with this survey, showing benchmark number, the differences of each run between benchmarks, and the elevation and full description of each benchmark.
- Topography:**
The topography for this project has been obtained by field conventional methods within the specified bandwidth.
- Digital Terrain Model:**
Breakline data for this project has been obtained 250 feet each side of highway centerlines), and has been used to create the Digital Terrain Model of the entire project.
- Land Ties:**
Land tie information was obtained in Sections 28-30, Township 12 North, Range 21 East. An Oklahoma Certified Corner Record has been prepared for each monument and has been filed with the Oklahoma Department of Libraries, Archives Division. A thorough search was made at each corner location for existing monuments and references, and an explanation of what was found and/or set at each corner location is detailed on the Land Tie Data Sheets.

SWO 5486(1) – I-40 – Muskogee and Sequoyah Counties
Historical Letter and Written Report
Page 3 of 3

- Property Ties:**
All property divisions adjacent to and/or crossing the Centerline of this Survey have been calculated and are shown in the submitted Design file and on the Survey Data Sheets. All property divisions are based on deeds obtained from the Muskogee and Sequoyah County Clerk's Office.
- Existing Right-of-Way:**
Existing Right-of-Way for this survey was taken FAP I-40-6(99)(100)288 as-built plans and were compared to deeds obtained from the Muskogee and Sequoyah County Clerk's office.
- Environmental Concerns:**
None observed.
- Utilities:**
Overhead and underground utility data has been obtained by field conventional methods and has been placed in the submitted design file and on the submitted "Public and Privately Owned Utilities List."
- Drainage:**
Drainage areas have been placed in the submitted swo5486_1_v1_dra.dgn file.
- Submission of Survey Data:**
All digital survey data has been submitted via the ODOT file transfer system, and a complete listing of all data files created and used in conjunction with this survey uploaded as "swo5486_index.pdf."

In addition to the digital survey data, PDF copies of the following information have also been submitted:
 - Historical Letter and Written Report of Survey
 - ODOT Form SD-1 – Transmittal Letter
 - ODOT Form SD-7 – Public and Privately Owned Utilities List
 - ODOT Form SD-41 – Surveyor's Certification
 - (2) ODOT Form SD-11 – Position and Description of Survey Monuments
 - COGO Data and Alignment Reports
 - Benchmarks and Check Levels List

Edward G. Painter
Professional Land Surveyor

PLS	EDP		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION	
DRAWN	DCM			
CHECKED	PPM		SURVEY DATA SHEET SWO 5486(1)	
APPROVED	DCM			
CREW	NORMAN			
COUNTY	MUSKOGEE	HIGHWAY	I-40	STATE JOB NO. 34334(04) SHEET NO. S002

SWO 5486(1)				COORDINATE POINT LIST				J/P 34334(04)			
Pt. #	Northing	Easting	Elevation	Pt. #	Northing	Easting	Elevation				
300	188127.0010	2824777.1951	0.000	412	188897.9262	2830038.4781	0.000				
301	188155.9060	2825965.9589	0.000	413	189691.1669	2831652.8630	0.000				
302	200429.9482	2825667.5135	0.000	414	189760.1364	2831793.2281	0.000				
303	189410.6383	2831081.9378	0.000	415	189808.7554	2831892.1764	0.000				
304	190744.6034	2833796.7925	0.000	416	190178.9821	2832645.6533	0.000				
305	189703.8176	2831753.4398	0.000	417	190292.6437	2832876.9746	0.000				
306	190714.9856	2833811.3454	0.000	418	191307.3097	2835255.5270	0.000				
307	190696.4427	2833812.4243	0.000	419	191180.9440	2835259.0237	0.000				
308	185554.0975	2836339.1559	0.000	420	191470.5993	2837891.8879	0.000				
309	191217.2159	2837209.3147	0.000	421	191462.6899	2837891.9494	0.000				
310	191177.3671	2837468.6564	0.000	422	191119.2426	2837901.8159	0.000				
311	202503.6000	2839208.9734	0.000	423	191110.7738	2837902.0551	0.000				
312	191362.2701	2841889.0896	0.000	424	190454.9312	2833207.2584	0.000				
313	190726.9583	2833797.4309	0.000	7600	187931.4418	2824139.4830	0.000				
314	190897.9860	2834145.5026	0.000	7601	187943.9275	2824652.9785	0.000				
315	185755.6408	2836672.2342	0.000	7602	187038.9725	2824759.1212	0.000				
316	191484.1482	2836783.0908	0.000	7603	187039.9553	2824792.6068	0.000				
317	191473.9709	2837309.0023	0.000	7604	186857.3739	2824797.9655	0.000				
318	212955.8689	2837724.7144	0.000	7605	186858.3338	2824830.9515	0.000				
319	191735.7891	2841094.1309	0.000	7606	187040.9234	2824825.5926	0.000				
320	191513.1886	2836832.9720	0.000	7607	187041.9062	2824859.0782	0.000				
321	194377.9738	2836838.1784	0.000	7608	187960.6316	2824928.5754	0.000				
322	191518.0502	2837005.0874	0.000	7609	187985.9563	2825970.0912	0.000				
323	192948.0070	2836921.6332	0.000	7610	187989.0644	2826078.4873	0.000				
324	191573.3271	2837324.1207	0.000	7611	187939.0917	2826080.1381	0.000				
325	191651.0361	2837589.5327	0.000	7612	187939.8732	2826103.1521	0.000				
326	190734.5796	2837857.8587	0.000	7613	187942.8667	2826181.8597	0.000				
327	191689.2076	2837833.8426	0.000	7614	187992.8244	2826179.8019	0.000				
328	191690.5115	2837885.6740	0.000	7615	188103.7634	2827402.3500	0.000				
329	191269.9557	2836479.4609	0.000	7616	186918.9265	2827436.5166	0.000				
330	191198.4225	2836972.7888	0.000	7617	186919.8777	2827469.5028	0.000				
331	189308.3291	2836698.7225	0.000	7618	188108.4357	2827435.2290	0.000				
332	191060.8675	2837457.7841	0.000	7619	188265.9893	2828309.9730	0.000				
333	190865.4418	2837908.9873	0.000	7620	188776.2224	2830041.8894	0.000				
400	188221.4543	2828661.7384	0.000	7621	189115.8807	2830857.5390	0.000				
401	191490.7659	2835429.0123	0.000	7622	189199.2384	2831157.3138	0.000				
402	190834.9644	2839697.0626	0.000	7623	189342.7403	2831449.4250	0.000				
403	191511.0453	2835393.1866	0.000	7624	189408.1144	2831695.8520	0.000				
404	191437.1220	2839213.1704	0.000	7625	189711.6872	2832313.6764	0.000				
405	191513.0320	2836919.1028	0.000	7626	189878.8179	2832653.8169	0.000				
406	191527.5433	2837167.7480	0.000	7627	190389.3342	2833692.8078	0.000				
407	191686.0718	2837709.1956	0.000	7628	190510.9998	2833866.6167	0.000				
408	191161.9321	2837224.4438	0.000	7629	190733.1502	2834183.9759	0.000				
409	188277.1106	2827413.8582	0.000	7630	191059.3639	2835262.3880	0.000				
410	188191.1722	2827416.3363	0.000	7631	191162.1423	2836470.3849	0.000				
411	188956.0608	2830036.8486	0.000	7632	191146.1741	2836580.5097	0.000				
Page 1 of 4,											

SWO 5486(1)				COORDINATE POINT LIST				J/P 34334(04)			
Pt. #	Northing	Easting	Elevation	Pt. #	Northing	Easting	Elevation				
7633	191091.5403	2836957.2907	0.000	7679	189133.7409	2824731.1550	0.000				
7634	190961.7638	2837414.8602	0.000	7680	189089.0729	2824732.4660	0.000				
7635	190903.6523	2837498.7077	0.000	7681	189088.0901	2824698.9804	0.000				
7636	190774.6299	2837796.5974	0.000	7682	188293.2355	2824620.2651	0.000				
7637	190531.5684	2837853.3953	0.000	7683	188265.6015	2823483.7700	0.000				
7638	190532.9350	2837901.8761	0.000	8000	189447.5252	2823440.9000	0.000				
7639	189873.2533	2837920.5162	0.000	8001	189475.8872	2824447.4955	0.000				
7640	192493.2990	2837772.9543	0.000	8002	189126.0378	2824457.7635	0.000				
7641	191815.5116	2837792.1060	0.000	8003	189134.2056	2824747.6484	0.000				
7642	191773.8791	2837553.5660	0.000	8004	189184.1841	2824746.1816	0.000				
7643	191696.1701	2837288.1540	0.000	8005	189192.6289	2825046.0627	0.000				
7644	191645.8328	2836997.6298	0.000	8006	189492.4997	2825037.2616	0.000				
7645	191641.1884	2836833.2046	0.000	8007	189502.6375	2825397.2631	0.000				
7646	191575.9407	2835648.8843	0.000	8008	190162.6960	2825377.9815	0.000				
7647	191491.6323	2835250.4264	0.000	8009	190822.7546	2825358.6999	0.000				
7648	191392.5734	2834897.9381	0.000	8010	190804.3622	2824698.6003	0.000				
7649	191261.0729	2834666.0201	0.000	8011	190181.1835	2826037.9726	0.000				
7650	191014.6621	2834088.1729	0.000	8012	189521.2200	2826057.1456	0.000				
7651	190937.2890	2833930.7051	0.000	8013	190841.1420	2826018.7923	0.000				
7652	190855.6820	2833617.5314	0.000	8014	190859.5369	2826678.8955	0.000				
7653	190820.1382	2833481.1289	0.000	8015	190199.6671	2826697.9582	0.000				
7654	190406.5792	2832639.4633	0.000	8016	190218.1584	2827357.9547	0.000				
7655	189765.8843	2831335.5360	0.000	8017	190238.9095	2828018.2525	0.000				
7656	189761.7437	2831327.1091	0.000	8018	190898.9332	2827999.4052	0.000				
7657	189677.6450	2831217.4203	0.000	8019	190919.9345	2828659.8117	0.000				
7658	189575.5939	2831084.3165	0.000	8020	190259.6607	2828678.5503	0.000				
7659	189542.5720	2831017.1111	0.000	8021	190280.4118	2829338.8481	0.000				
7660	189111.8124	2830032.4829	0.000	8022	190610.6738	2829329.5331	0.000				
7661	188623.5994	2828453.7805	0.000	8023	190631.5501	2829989.8853	0.000				
7662	188620.4534	2828338.0016	0.000	8024	189578.8859	2828037.0998	0.000				
7663	188450.5643	2827425.3632	0.000	8025	189599.3869	2828697.2889	0.000				
7664	189558.8605	2827393.4038	0.000	8026	189269.5190	2828706.6680	0.000				
7665	189557.9093	2827360.4176	0.000	8027	189310.5169	2830026.9133	0.000				
7666	188445.7862	2827392.4873	0.000	8028	189619.8878	2829357.4780	0.000				
7667	188330.6074	2826116.5392	0.000	8029	190301.1630	2829999.1459	0.000				
7668	188380.5730	2826114.6849	0.000	8030	190311.5375	2830329.2618	0.000				
7669	188379.6947	2826090.3563	0.000	8031	189991.3996	2830668.5730	0.000				
7670	188377.3305	2826016.5306	0.000	8032	190321.9121	2830659.3777	0.000				
7671	188327.3515	2826017.9779	0.000	8033	190652.4246	2830650.1824	0.000				
7672	188325.8558	2825961.8265	0.000	8034	190332.2866	2830989.4936	0.000				
7673	188300.5280	2824920.1803	0.000	8035	190342.6612	2831319.6095	0.000				
7674	189091.0238	2824798.9373	0.000	8036	190491.7845	2831315.4917	0.000				
7675	189090.0410	2824765.4518	0.000	8037	190297.0318	2831587.0850	0.000				
7676	189184.6486	2824762.6751	0.000	8038	190316.1770	2831575.1510	0.000				
7677	189484.5195	2824753.8740	0.000	8039	190558.3567	2831217.0557	0.000				
7678	189483.5709	2824720.8876	0.000	8040	191057.1744	2830324.6657	0.000				
Page 2 of 4,											

SWO 5486(1)				COORDINATE POINT LIST				J/P 34334(04)			
Pt. #	Northing	Easting	Elevation	Pt. #	Northing	Easting	Elevation				
8041	191087.5904	2830055.7803	0.000	8087	190882.6152	2832832.5693	0.000				
8042	192306.6108	2830654.0915	0.000	8088	191056.1441	2832792.0357	0.000				
8043	192145.5468	2830785.4477	0.000	8089	191145.1060	2832708.4044	0.000				
8044	191814.7285	2831004.4048	0.000	8090	191256.1700	2832676.7021	0.000				
8045	192355.9017	2832168.5189	0.000	8091	191312.7954	2832644.1003	0.000				
8046	191903.2264	2832315.5092	0.000	8092	191333.9105	2832614.5733	0.000				
8047	191540.7958	2832433.1957	0.000	8093	191393.4167	2832531.3609	0.000				
8048	190952.7380	2832624.6093	0.000	8094	186823.0644	2824175.8494	0.000				
8049	191735.0934	2833593.4576	0.000	8095	188777.0999	2832444.3147	0.000				
8050	191721.4040	2833098.7668	0.000	8096	188765.1236	2832413.5647	0.000				
8051	192378.4226	2832915.8599	0.000	8097	188693.7490	2832432.7956	0.000				
8052	189854.8003	2837277.0779	0.000	9019	192054.1681	2822102.2863	0.000				
8053	190514.7994	2837258.5274	0.000	9020	192197.4788	2827301.0868	0.000				
8054	189835.8813	2836617.1502	0.000	9021	192369.4922	2832586.0776	0.000				
8055	190423.1322	2833959.4945	0.000	9022	192512.1993	2837862.4562	0.000				
8056	190184.0017	2832918.5103	0.000	9027	187228.3687	2838010.9667	0.000				
8057	189773.9153	2833131.2851	0.000	9028	187075.2714	2832730.0654	0.000				
8058	189246.6614	2833404.8528	0.000	9029	186919.4021	2827453.0097	0.000				
8059	188285.3452	2834101.7369	0.000	9030	186768.2803	2822261.4234	0.000				
8060	187149.6588	2835295.9674	0.000	9127	189873.7193	2837937.0096	0.000				
8061	188684.8446	2832686.2840	0.000	9128	189722.3818	2832658.0715	0.000				
8062	188728.6994	2832666.3325	0.000	9129	189558.3849	2827376.9107	0.000				
8063	188993.4947	2832492.4197	0.000	9130	189412.0914	2822183.3152	0.000				
8064	189148.6968	2832338.6761	0.000	9219	192124.6694	2824659.8201	0.000				
8065	189433.2013	2832155.1179	0.000	9220	192283.4855	2829943.5822	0.000				
8066	189448.5878	2832117.2008	0.000	9221	192441.6185	2835224.1388	0.000				
8067	187080.8181	2832921.3932	0.000	9228	187151.8201	2835370.5161	0.000				
8068	187517.8658	2832718.0233	0.000	9229	186997.2307	2830091.7538	0.000				
8069	188481.9875	2832283.9784	0.000	9230	186841.3530	2824814.9428	0.000				
8070	188396.9847	2832633.3140	0.000	9328	189798.0434	2835297.2908	0.000				
8071	188378.8224	2832034.2290	0.000	9329	189640.3888	2830017.6671	0.000				
8072	187056.2553	2832070.7491	0.000	9330	189484.0550	2824737.3805	0.000				
8073	188318.8098	2830054.7105	0.000	9600	192089.4187	2823381.0532	0.000				
8074	188278.8516	2828734.8353	0.000	9601	190768.7415	2823420.5937	0.000				
8075	187618.5840	2828753.6085	0.000	9602	190733.1309	2822142.8016	0.000				
8076	187598.8659	2828093.7967	0.000	9603	188090.1870	2822222.3701	0.000				
8077	186938.8593	2828112.6957	0.000	9604	188126.1443	2823488.8283	0.000				
8078	186880.3776	2826133.3763	0.000	9605	186804.8167	2823538.1831	0.000				
8079	189911.9441	2833616.6060	0.000	9606	191131.9285	2829975.8599	0.000				
8080	190252.5211	2833889.7758	0.000	9607	190961.9372	2829980.5247	0.000				
8081	190233.4885	2833329.3420	0.000	9608	190977.4155	2830467.3552	0.000				
8082	190335.9802	2833298.8899	0.000	9609	189681.3853	2831337.8693	0.000				
8083	190372.0537	2833309.5655	0.000	9610	189700.6498	2831959.5902	0.000				
8084	190394.0633	2833217.7877	0.000	9611	188358.8182	2831374.3895	0.000				
8085	190550.7955	2833190.6751	0.000	9612	187036.2511	2831410.9096	0.000				
8086	190569.7294	2833072.0567	0.000	9613	187399.4935	2835033.2538	0.000				

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SWO 5486(1) COORDINATE POINT LIST J/P 34334(04)

9614	188336.0557	2834564.0309	0.000
9615	188450.7488	2834495.0774	0.000
9616	188474.9317	2835333.9034	0.000
9617	189289.8920	2833990.5841	0.000
9618	189760.2126	2833977.6811	0.000
9619	189752.6075	2833712.3993	0.000
9620	191050.7321	2832793.2999	0.000
9621	191082.8840	2833941.3947	0.000
M-51-1137	188297.5728	2827014.1983	482.602
S-66-890	191207.2685	2836339.0123	556.776
R_79	192112.3257	2824678.4582	478.346
BM1	188242.1675	2825197.1914	476.299
BM2	188266.4350	2826095.2022	476.232
BM3	188419.4600	2827772.2331	475.555
BM4	188508.2449	2828372.2570	482.841
BM5	188674.9699	2828937.1934	474.519
BM6	188881.1698	2829473.5447	479.881
BM7	188998.6829	2829955.5479	474.345
BM8	189374.3107	2830747.5609	478.785
BM9	189748.9346	2831466.6643	481.533
BM10	190883.0479	2834335.9041	513.853
BM11	191113.5364	2835094.8780	537.428
BM12	191215.1860	2835672.5545	552.563
BM13	191199.0309	2837107.9310	546.437

Project Name: swo5486_1_v1
Horizontal Alignment Name: a001
Description: CL Survey & I-40
Style: Centerline

	STATION	EASTING	NORTHING
Element: Linear			
POB (300)	684+78.92	2824777.2095	188127.0014
PC (301)	696+68.03	2825965.9589	188155.9060
Tangent Direction:	N 88°36'25.63" E		
Tangent Length:	1189.10		
Element: Circular			
PC (301)	696+68.03	2825965.9589	188155.9060
PI ()	723+64.60	2828661.7384	188221.4543
CC (302)	2825667.5135	200429.9482	
PT (303)	a 749+75.12	2831081.9378	189410.6383
Radius:	12277.67		
Delta:	24°46'28.83" Left		
Degree of Curvature(Arc):	0°28'00.00"		
Length:	5308.86		
Tangent:	2696.58		
Chord:	5267.60		
Middle Ordinate:	285.83		
External:	292.64		
Tangent Direction:	N 88°36'25.63" E		
Radial Direction:	S 1°23'34.37" E		
Chord Direction:	N 76°13'11.21" E		
Radial Direction:	S 26°10'03.20" E		
Tangent Direction:	N 63°49'56.80" E		
Element: Linear			
PT (303)	a 749+75.12	2831081.9378	189410.6383
EQNBK ()	749+76.89	2831081.9378	189410.6383
EQNAHD ()	a 749+75.12	2831081.9378	189410.6383
POE (304)	a 780+00.00	2833796.7925	190744.6034
Tangent Direction:	N 63°49'56.80" E		
Tangent Length:	3024.88		

Project Name: swo5486
Horizontal Alignment Name: a002
Description: CL Survey & I-40 Bridge
Style: Centerline

	STATION	EASTING	NORTHING
Element: Linear			
POB (305)	757+07.09	2831753.4398	189703.8176
POE (306)	780+00.00	2833811.3454	190714.9856
Tangent Direction:	N 63°49'56.80" E		
Tangent Length:	2292.91		

Project Name: swo5486
Horizontal Alignment Name: a003
Description: CL Survey & I-40 Rt. Lane
Style: Centerline

	STATION	EASTING	NORTHING
Element: Circular			
PC (307)	779+92.63	2833812.4243	190696.4427
PI ()	797+93.83	2835429.0123	191490.7659
CC (308)		2836339.1559	185554.0975
PT (309)	814+82.93	2837209.3147	191217.2159
Radius:	5729.58		
Delta:	34°54'10.59" Right		
Degree of Curvature(Arc):	1°00'00.00"		
Length:	3490.30		
Tangent:	1801.20		
Chord:	3436.58		
Middle Ordinate:	263.73		
External:	276.45		
Tangent Direction:	N 63°49'56.80" E		
Radial Direction:	S 26°10'03.20" E		
Chord Direction:	N 81°17'02.10" E		
Radial Direction:	S 8°44'07.39" W		
Tangent Direction:	S 81°15'52.61" E		

Element: Linear			
PT (309)	814+82.93	2837209.3147	191217.2159
EQNBK ()	814+82.93	2837209.3191	191217.2153
EQNAHD ()	a 814+88.66	2837209.3191	191217.2153
PC (310)	a 817+51.04	2837468.6564	191177.3671
Tangent Direction:	S 81°15'52.61" E		
Tangent Length:	262.39		

Element: Circular			
PC (310)	a 817+51.04	2837468.6564	191177.3671
PI ()	a 840+05.60	2839697.0626	190834.9644
CC (311)		2839208.9734	202503.6000
PT (312)	a 862+03.29	2841889.0896	191362.2701
Radius:	11459.16		
Delta:	22°15'40.50" Left		
Degree of Curvature(Arc):	0°30'00.00"		
Length:	4452.25		
Tangent:	2254.56		
Chord:	4424.30		
Middle Ordinate:	215.55		
External:	219.68		
Tangent Direction:	S 81°15'52.61" E		
Radial Direction:	S 8°44'07.39" W		
Chord Direction:	N 87°36'17.14" E		
Radial Direction:	S 13°31'33.11" E		
Tangent Direction:	N 76°28'26.89" E		

Project Name: swo5486
Horizontal Alignment Name: a004
Description: CL Survey & I-40 Lt. Lane
Style: Centerline

	STATION	EASTING	NORTHING
Element: Linear			
POB (313)	779+92.63	2833797.4309	190726.9583
PC (314)	783+80.45	2834145.5026	190897.9860
Tangent Direction:	N 63°49'56.80" E		
Tangent Length:	387.82		

Element: Circular			
PC (314)	783+80.45	2834145.5026	190897.9860
PI ()	797+70.61	2835393.1866	191511.0453
CC (315)		2836672.2342	185755.6408
EQNBK ()	811+08.07	2836783.0908	191484.1482
EQNAHD ()	a 811+30.69	2836783.0908	191484.1482
PT (316)	a 811+30.69	2836783.0908	191484.1482
Radius:	5729.58		
Delta:	27°16'34.28" Right		
Degree of Curvature(Arc):	1°00'00.00"		
Length:	2727.62		
Tangent:	1390.16		
Chord:	2701.94		
Middle Ordinate:	161.55		
External:	166.24		
Tangent Direction:	N 63°49'56.80" E		
Radial Direction:	S 26°10'03.20" E		
Chord Direction:	N 77°28'13.94" E		
Radial Direction:	S 1°06'31.08" W		
Tangent Direction:	S 88°53'28.92" E		

Element: Linear			
PT (316)	a 811+30.69	2836783.0908	191484.1482
PC (317)	a 816+56.70	2837309.0023	191473.9709
Tangent Direction:	S 88°53'28.92" E		
Tangent Length:	526.01		

Element: Circular			
PC (317)	a 816+56.70	2837309.0023	191473.9709
PI ()	a 835+61.22	2839213.1704	191437.1220
CC (318)		2837724.7144	212955.8689
PT (319)	a 854+55.82	2841094.1309	191735.7891
Radius:	21485.92		
Delta:	10°07'51.55" Left		
Degree of Curvature(Arc):	0°16'00.00"		
Length:	3799.12		
Tangent:	1904.52		
Chord:	3794.17		

Middle Ordinate:	83.91
External:	84.24
Tangent Direction:	S 88°53'28.92" E
Radial Direction:	S 1°06'31.08" W
Chord Direction:	N 86°02'35.31" E
Radial Direction:	S 9°01'20.46" E
Tangent Direction:	N 80°58'39.54" E

Project Name: swo5486
Horizontal Alignment Name: a005
Description: Conn. Survey & CL NS443.5
Style: Centerline

	STATION	EASTING	NORTHING
Element: Linear			
POB (9230)	0+00.83	2824814.9428	186841.3530
PI (300)	12+87.03	2824777.1951	188127.0010
Tangent Direction:	N 1°40'54.37" W		
Tangent Length:	1286.20		

Element: Linear			
PI (300)	12+87.03	2824777.1951	188127.0010
POE (9330)	26+44.67	2824737.3805	189484.0550
Tangent Direction:	N 1°40'49.86" W		
Tangent Length:	1357.64		

Project Name: swo5486
Horizontal Alignment Name: Ramp 'A'
Description: Ramp 'A'
Style: Centerline

	STATION	EASTING	NORTHING
Element: Circular			
PC (320)	811+80.00	2836832.9720	191513.1886
PI ()	812+66.13	2836919.1028	191513.0320
CC (321)	2836838.1784	194377.9738	
PCC (322)	813+52.21	2837005.0874	191518.0502

Radius:	2864.79
Delta:	3°26'39.12" Left
Degree of Curvature(Arc):	2°00'00.00"
Length:	172.21
Tangent:	86.13
Chord:	172.18
Middle Ordinate:	1.29
External:	1.29
Tangent Direction:	S 89°53'45.14" E
Radial Direction:	S 0°06'14.86" W
Chord Direction:	N 88°22'55.31" E
Radial Direction:	S 3°20'24.25" E
Tangent Direction:	N 86°39'35.75" E

Element: Circular			
PCC (322)	813+52.21	2837005.0874	191518.0502
PI ()	815+15.15	2837167.7480	191527.5433
CC (323)	2836921.6332	192948.0070	
PT (324)	816+76.69	2837324.1207	191573.3271

Radius:	1432.39
Delta:	12°58'45.27" Left
Degree of Curvature(Arc):	4°00'00.05"
Length:	324.48
Tangent:	162.94
Chord:	323.79
Middle Ordinate:	9.18
External:	9.24
Tangent Direction:	N 86°39'35.75" E
Radial Direction:	S 3°20'24.25" E
Chord Direction:	N 80°10'13.12" E
Radial Direction:	S 16°19'09.52" E
Tangent Direction:	N 73°40'50.48" E

Element: Linear			
PT (324)	816+76.69	2837324.1207	191573.3271
PC (325)	819+53.24	2837589.5327	191651.0361
Tangent Direction:	N 73°40'50.48" E		
Tangent Length:	276.55		

Element: Circular			
PC (325)	819+53.24	2837589.5327	191651.0361
PI ()	820+77.93	2837709.1956	191686.0718
CC (326)	2837857.8587	190734.5796	
PT (327)	822+01.21	2837833.8426	191689.2076

Radius:	954.93
Delta:	14°52'41.50" Right
Degree of Curvature(Arc):	5°59'59.99"
Length:	247.97
Tangent:	124.69
Chord:	247.27
Middle Ordinate:	8.04
External:	8.11
Tangent Direction:	N 73°40'50.48" E
Radial Direction:	S 16°19'09.52" E
Chord Direction:	N 81°07'11.23" E
Radial Direction:	S 1°26'28.02" E
Tangent Direction:	N 88°33'31.98" E

Element: Linear			
PT (327)	822+01.21	2837833.8426	191689.2076
POE (328)	822+53.06	2837885.6740	191690.5115
Tangent Direction:	N 88°33'31.98" E		
Tangent Length:	51.85		

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

Project Name: swo5486
Horizontal Alignment Name: Ramp 'B'
Description: Ramp 'B'
Style: Centerline

	STATION	EASTING	NORTHING
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Element: Linear
POB (329) 807+50.00 2836479.4609 191269.9557
PC (330) 812+48.49 2836972.7888 191198.4225
Tangent Direction: S 81°44'58.31" E
Tangent Length: 498.49

Element: Circular
PC (330) 812+48.49 2836972.7888 191198.4225
PI () 815+02.77 2837224.4438 191161.9321
CC (331) 2836698.7225 189308.3291
PT (332) 817+54.09 2837457.7841 191060.8675
Radius: 1909.86
Delta: 15°10'04.78" Right
Degree of Curvature(Arc): 3°00'00.00"
Length: 505.60
Tangent: 254.29
Chord: 504.12
Middle Ordinate: 16.71
External: 16.85
Tangent Direction: S 81°44'58.31" E
Radial Direction: S 8°15'01.69" W
Chord Direction: S 74°09'55.92" E
Radial Direction: S 23°25'06.47" W
Tangent Direction: S 66°34'53.53" E

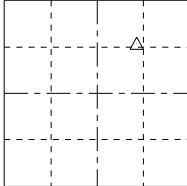
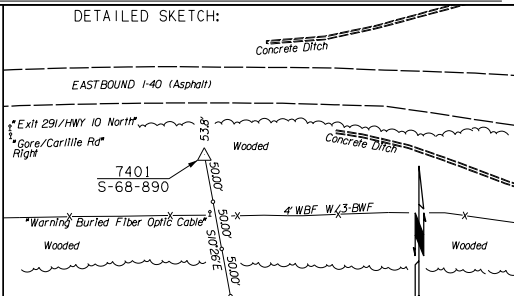
Element: Linear
PT (332) 817+54.09 2837457.7841 191060.8675
POE (333) 822+45.79 2837908.9873 190865.4418
Tangent Direction: S 66°34'53.53" E
Tangent Length: 491.71

BENCH MARK LIST				NAVD 88 DATUM				
BM NO.	RUN 1	RUN2	MEAN DIFF.	ADJ. DIFF	ADJ. ELEV.	PUBLISHED. ELEV.	BM DESCRIPTION	
R79						478.346	BCM Culvert Headwall R 79 1040	
TO	10.507	10.505	10.500	10.500				
G199						488.913	BCM North Face Of Bridge Pier 70.48' Rt. Sta. 684+87.80 (a001)	
TO	-12.014	-12.018	-12.010	-12.010				
BM1					476.299		X On Headwall 104.92' Lt. Sta. 689+01.60 (a001)	
TO	-0.064	-0.071	-0.068	-0.067				
BM2					476.232		X On Headwall 106.64' Lt. Sta. 698+01.09 (a001)	
TO	6.377	6.363	6.370	6.370				
7400					482.602		3/4" Rebar W/EST Aluminium Cap 70.78' Lt. Sta. 707+26.82 (a001)	
TO	-7.048	-7.046	-7.047	-7.047				
BM3					475.555		X On Headwall 84.16' Lt. Sta. 714+99.48 (a001)	
TO	7.283	7.289	7.286	7.286				
BM4					482.841		3/4" Rebar W/EST Aluminium Cap n 53.00' Lt. Sta. 721+08.70 (a001)	
TO	-8.324	-8.319	-8.322	-8.322				
BM5					474.519		X On Headwall 76.43' Lt. Sta. 727+00.44 (a001)	
TO	5.366	5.357	5.362	5.362				
BM6					479.881		3/4" Rebar W/EST Aluminium Cap 117.89' Lt. Sta. 732+78.19 (a001)	
TO	-5.532	-5.539	-5.536	-5.536				
BM7					474.345		X On Headwall 68.61' Lt. Sta. 737+75.67 (a001)	
TO	4.442	4.438	4.440	4.440				
BM8					478.785		3/4" Rebar W/EST Aluminium Cap 110.75' Lt. Sta. 746+57.86 (a001)	
TO	2.746	2.756	2.751	-2.748				

BENCH MARK LIST		NAVD 88 DATUM					
BM NO.	RUN 1	RUN2	MEAN DIFF.	ADJ. DIFF	UNADJ. ELEV.	ADJ. ELEV.	BM DESCRIPTION
BM9					481.533		3/4" Rebar W/EST Aluminium Cap 133.96 Lt. Sta. 754+09.00 (a001)
TO	32.278	32.284	32.281	32.284			
BM10					513.853		X On Headwall 36.54' Rt. 785+49.17 (a003)
TO	23.575	23.575	23.575	23.575			
BM11					537.428		3/4" Rebar W/EST Aluminium Cap 32.60' Rt. Sta. 783+47.82
TO	15.135	15.136	15.136	15.136			
BM12					552.563		3/4" Rebar W/EST Aluminium Cap 29.38' Rt. Sta. 799+37.81 (a003)
TO	4.215	4.214	4.215	4.215			
7401					556.776		3/4" Rebar W/EST Aluminium Cap 76.41' Rt. Sta. 806+09.24 (a003)
TO	-10.340	-10.341	10.341	10.341			
BM13					548.437		3/4" Rebar W/EST Aluminium Cap 32.54' Rt. Sta. 813+54.82 (a003)
TO	14.045	14.043	14.044	14.044			
J199					560.481		NGS BCM SE Cor Of East Bound I40 Retaining wall 22.27' Rt. 822+56.13 (a003)

PLS	EDP		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION	
DRAWN	DCM			
CHECKED	PPM		SURVEY DATA SHEET SWO 5486(1)	
APPROVED	DCM			
CREW	NORMAN			
COUNTY	MUSKOGEE	HIGHWAY	I-40	STATE JOB NO. 34334(04) SHEET NO. S007

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STATE OF OKLAHOMA DEPARTMENT OF HIGHWAYS SURVEY DIVISION POSITION AND DESCRIPTION OF SURVEY MONUMENTS		S.D. FORM NO. 11 REVISED 01/01/2015
COUNTY <u>SEQUOYAH</u> Monument Number <u>S-68-890</u> SWO <u>5486(1)</u> DATE <u>04.26.2023</u>		
TYPE OF MONUMENT <u>3/4" REBAR W/ALUMINUM CAP</u> MONUMENT SET FOR <u>VERT.& HORZ.CONTROL</u>		
WRITTEN DESCRIPTION OF LOCATION: <u>FROM THE CENTER OF I-40 EASTBOUND BRIDGE & NORTH STATE HWY.10.WEST ALONG WEST I-40 APPROX.1563 FEET & 54 FEET SOUTH OF THE SOUTH EDGE OF PAVEMENT OF THE I-40 EASTBOUND LANE.</u>		
ESTABLISHED BY: <u>EDWARD GLEN PAINTER</u>		
COORDINATE SYSTEM: <u>NAD83</u> ZONE: <u>NORTH</u>		
COORDINATES (FEET) X <u>2836339.0123</u> Y <u>191207.2685</u>		
GEODETIC POSITION		
LATITUDE <u>35°29'22.0814"</u> NORTH		
LONGITUDE <u>95°05'04.29493"</u> WEST		
ELLIPSOIDAL HEIGHT <u>458.625</u>		
METHOD USED TO ESTABLISHED: <u>STATIC - GPS</u>		
SOURCE: <u>NGS OPUS-PROJECTS</u>		
ORTHOMETRIC HEIGHT		
<u>556.776</u> FEET GEOID MODEL: <u>OKGeoid18 GRS80</u> GEOID SEPARATION: <u>-98.51</u> FEET		
METHOD USED TO ESTABLISHED: <u>STATIC - GPS</u>		
SOURCE: <u>NAVD88</u> <u>NGS OPUS-PROJECTS</u>		
GENERAL VICINITY: SEC <u>28</u> R <u>21</u> E  ☐ = CONTROL MONUMENT ☐ = LAND CORNER ☐ = OTHER	DETAILED SKETCH: 	

PLS	EDP		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION						
DRAWN	DCM		SURVEY DATA SHEET SWO <u>5486(1)</u>						
CHECKED	PPM								
APPROVED	DCM								
CREW	NORMAN								
COUNTY	MUSKOGEE		HIGHWAY	I-40		STATE JOB NO.	34334(04)	SHEET NO.	S008

PROPOSED R/W
2024-12-04

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SECTION 30
T-12-N, R-21-E
NW/4, SE/4

SECTION 30
T-12-N, R-21-E
E/2, SE/4

SECTION 30
T-12-N, R-21-E
SW/4, SE/4

BEARING EQUATION:

SWO 5486(1) J/P No. 34334(07)
N 88°36'25.63" E this survey =
N 88°36'55.51" E on FAP I-40-6(100)288 PLANS



SCALE 0 100 200 300 400 500 Feet

PLS	EDP	OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	DCM	
CHECKED	PPM	
APPROVED	DCM	
CREW	NORMAN	
		SURVEY DATA SHEET
		SWO 5486(1)
COUNTY	MUSKOGEE	HIGHWAY I-40 STATE JOB NO. 34334(04) SHEET NO. S009

PROPOSED R/W
2024-12-04

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SECTION 29
T-12-N, R-21-E
SE/4, SE/4, NW/4 &
S2, NE/4, SE/4, NW/4

SECTION 29
T-12-N, R-21-E
SW/4, SE/4, NW/4

SECTION 29
T-12-N, R-21-E
N2, SW/4, N. I-40

SECTION 29
T-12-N, R-21-E
N. 330', NE/4, SW/4

SECTION 29
T-12-N, R-21-E
N2, SW/4, S. I-40

SECTION 29
T-12-N, R-21-E
SE/4, SW/4

SECTION 29
T-12-N, R-21-E
N2, SW/4, SW/4 &
SW/4, SW/4, SW/4

SECTION 29
T-12-N, R-21-E
SE/4, SW/4, SW/4

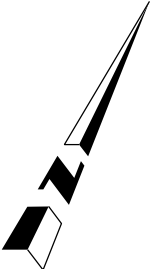
CURVE DATA - C1
P.I. STA. 723+64.62
X= 282866.17384
Y= 188221.4543
Δ= 24°46'28.83" L.
D= 0°28'00.00" L.
T= 2696.58'
L= 5308.86'
R= 12277.67'
E= 292.64'

PI STA. 723+64.62 THIS SURVEY
=PI STA. 723+64.62 ON SWO2502(1)
SET 1/2" REBAR

POST STA. 738+17.74 THIS SURVEY
ON NS444.5 1/4 SECTION LINE
N. 742.75' TO C 1/4 SECTION CORNER
S. 1901.44' TO 1/4 SECTION CORNER
NOTHING SET
POC STA. 738+36.82 CL SURVEY
=POC STA. 738+35.43 SWO2502(1)
N. 684.60' TO C 1/4 SECTION CORNER
S. 1959.59' TO 1/4 SECTION CORNER
NOTHING FOUND OR SET

BEARING EQUATION:

SWO 5486(1) J/P No. 34334(07)
N 88°36'25.63" E this survey =
N 88°36'55.51" E on FAP I-40-6(100)288 PLANS



SCALE		0 100 200 300 400 500 Feet	
PLS	EDP	OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION	
DRAWN	DCM		
CHECKED	PPM		
APPROVED	DCM		
CREW	NORMAN		
		SURVEY DATA SHEET	
		SWO 5486(1)	
COUNTY	MUSKOGEE	HIGHWAY	I-40
STATE JOB NO.	34334(04)	SHEET NO.	S010

PROPOSED R/W
2024-12-04

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SECTION 29
T-12-N, R-21-E
ROBERT S. KERR
RESERVOIR

POT STA. 767+17.41 A002
ON NS445 SECTION LINE
= POT STA. 767+17.24 ON
FAP I-40-6-(100)288 PLANS.
N. 2191.32' TO SECTION CORNER
S. 456.77' TO 1/4 SECTION CORNER (IN RIVER)
CALCULATED POSITION - NOTHING SET

POT STA. 769+75.14 ON MEANDER LINE
N. 706.69' TO MEANDER COR.
S. 1369.13' TO MEANDER COR.
BLM DEPENDENT RE-SURVEY DATED 09/30/2011
CALCULATED POSITION - NOTHING SET

GOV'T
LOT 4

SECTION 28
T-12-N, R-21-E
ROBERT S. KERR
RESERVOIR

SECTION 29
T-12-N, R-21-E
S2, SW/4, NE/4

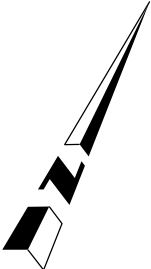
GOV'T
LOT 3

POT STA. 756+11.24 CL SURVEY
ON EW105.5 1/4 SECTION LINE
= POT STA. 756+11.24 SMO2502(1)
NOTHING FOUND OR SET
POT STA. 757+07.09 BEGIN CL SURVEY
(A002) 33' RT. OF A001
CALCULATED POSITION - NOTHING SET
POT STA. 757+67.65 ON MEANDER LINE
N. 2200.81' TO MEANDER COR.
S. 1369.13' TO MEANDER COR.
BLM DEPENDENT RE-SURVEY DATED 09/30/2011
CALCULATED POSITION - NOTHING SET

BEARING EQUATION:

SWO 5486(1) J/P No. 34334(07)
N 63°49'56.80" E this survey =
N 63°50'26.60" E on FAP I-40-6(100)288 PLANS

SCALE		0 100 200 300 400 500 Feet	
PLS	EDP	OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION	
DRAWN	DCM		
CHECKED	PPM		
APPROVED	DCM		
CREW	NORMAN		
		SURVEY DATA SHEET	
		SWO 5486(1)	
COUNTY	MUSKOGEE	HIGHWAY	I-40
STATE JOB NO.	34334(04)	SHEET NO	S011



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GOV'T
LOT 1

790+00
790+00

CURVE DATA - C
P.I. Sta. 797+70.61
X= 2835393.866
Y= 1915110.453
 $\Delta = 27^{\circ}16'34.28''$ Rt.
D= 100'00.00"
T= 1390.16'
L= 2727.62'
R= 5729.58'
E= 166.24'

795+00

800+00
800+00

SECTION 28
T-12-N, R-21-E
SE/4, NW/4

BEARING EQUATION:

SWO 5486(1) J/P No. 34334(07)
N 63°49'56.80" E this survey =
N 63°50'26.60" E on FAP 1-40-6(100)288 PLANS

0 100 200 300 400 500 Feet

PLS	EDP		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION SURVEY DATA SHEET SWO <u>5486(1)</u>
DRAWN	DCM		
CHECKED	PPM		
APPROVED	DCM		
CREW	NORMAN		

COUNTY SEQUOYAH HIGHWAY I-40 STATE JOB NO. 34334(04) SHEET NO. S012

PROPOSED R/W
2024-12-04

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SECTION 28
T-12-N, R-21-E
N2, N. I-40

830+00

805+00
805+00
803+00

803+00
803+00

SECTION 28
T-12-N, R-21-E
SW/4, NE/4

BEARING EQUATION:

SWO 5486(1) J/P No. 34334(07)
S 81°15'52.61" E this survey =
S 81°14'55.87" E on FAP I-40-6(100)288 PLANS

CURVE DATA - C6
P.J. Sta. 812+66.13
X= 2836919.1028
Y= 191513.0320
Δ= 03°26'39.12" Lt.
D= 2'00'00.00"
T= 86.13'
L= 172.21'
R= 2864.79'
E= 1.29'

CURVE DATA - C7
P.J. Sta. 815+15.15
X= 2837167.7480
Y= 191527.5433
Δ= 12°58'45.27" Lt.
D= 4'00'00.00"
T= 162.94'
L= 324.48'
R= 1432.39'
E= 9.24'

CURVE DATA - C8
P.J. Sta. 820+77.93
X= 2837709.1956
Y= 191686.0718
Δ= 14°52'41.50" Rt.
D= 6'00'00.00"
T= 124.69'
L= 247.97'
R= 954.93'
E= 8.11'

815+00

820+00

820+00

820+00

820+00

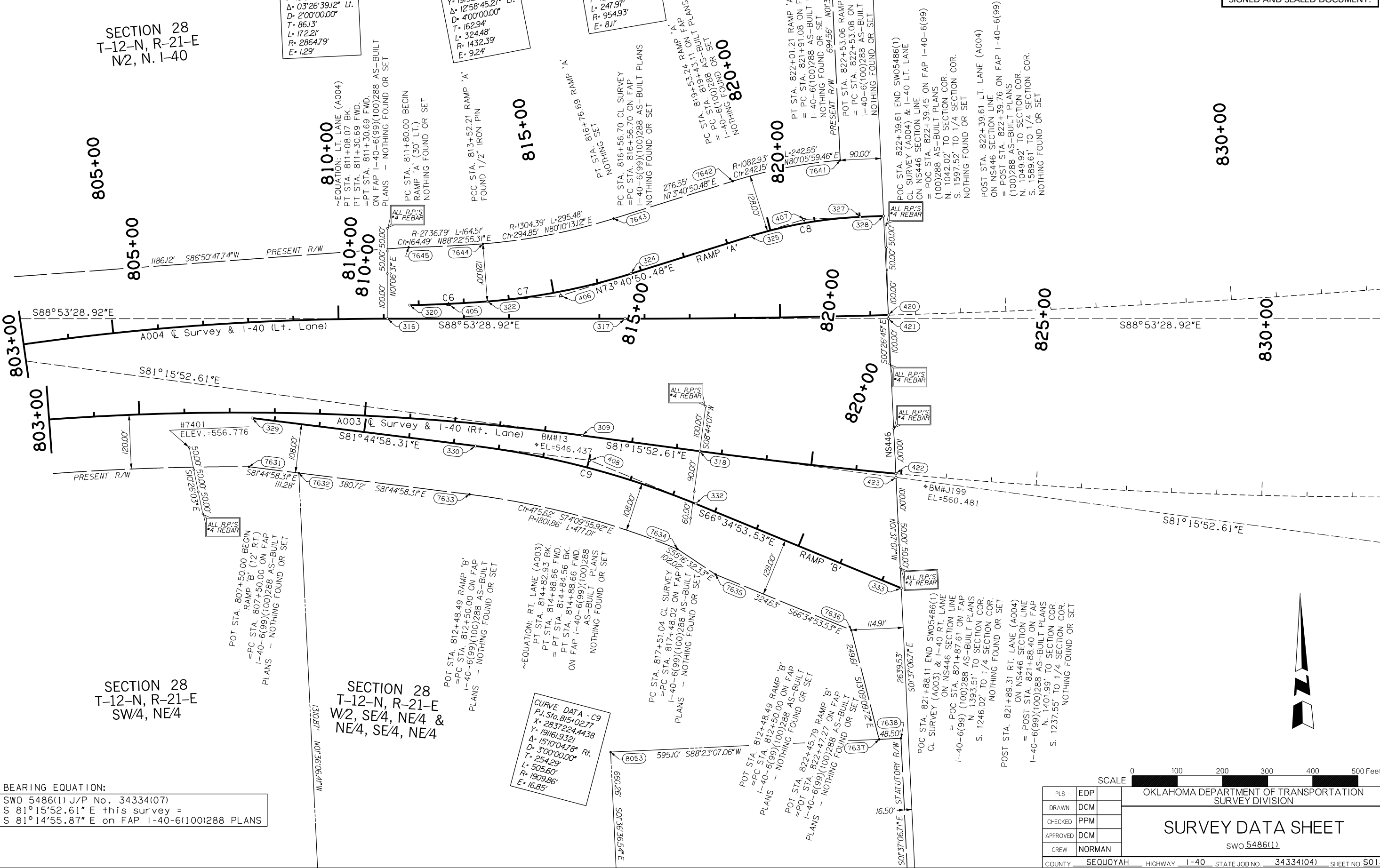
825+00

830+00



SCALE 0 100 200 300 400 500 Feet

PLS	EDP		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	DCM		
CHECKED	PPM		
APPROVED	DCM		
CREW	NORMAN		SURVEY DATA SHEET SWO 5486(1)
COUNTY	SEQUOYAH	HIGHWAY	
		STATE JOB NO.	34334(04)
		SHEET NO.	S013



PROPOSED R/W
2024-12-04

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835+00

PI STA. 835+61.22 LT. LANE (A004)
=PT STA. 835+61.21 ON FAP
I-40-6(99)(100)288 AS-BUILT PLANS
NOTHING FOUND

CURVE DATA - C5
P.I. Sta. 835+61.22
X= 2839213.704
Y= 1914371.220
Δ= 10°07'51.55" Lt.
D= 0°16'00.00"
T= 1904.52'
L= 3799.12'
R= 21485.92'
E= 84.24'

840+00

PI STA. 840+05.60 RT. LANE (A003)
=PI STA. 840+02.72 ON FAP
I-40-6(99)(100)288 AS-BUILT PLANS
FOUND 5/8" REBAR

845+00

845+00

850+00

850+00

PT STA. 854+55.82 LT. LANE (A004)
=PT STA. 854+55.82 ON FAP
I-40-6(99)(100)288 AS-BUILT PLANS
NOTHING FOUND

855+00

860+00

PT STA. 862+03.29 RT. LANE (A003)
=PT STA. 862+00.27 ON FAP
I-40-6(99)(100)288 AS-BUILT PLANS
NOTHING FOUND

S88°53'28.92"E

N80°58'39.54"E

S81°15'52.61"E

N76°28'26.89"E

CURVE DATA - C3
P.I. Sta. 840+05.60
X= 2839697.0626
Y= 190834.9644
Δ= 22°15'40.50" Rt.
D= 0°30'00.00"
T= 2254.56'
L= 4452.25'
R= 11459.16'
E= 219.68'

BEARING EQUATION:

SWO 5486(1) J/P No. 34334(07)
S 81°15'52.61" E this survey =
S 81°14'55.87" E on FAP I-40-6(100)288 PLANS



SCALE			0 100 200 300 400 500 Feet	
PLS	EDP		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION	
DRAWN	DCM			
CHECKED	PPM			
APPROVED	DCM			
CREW	NORMAN			
			SURVEY DATA SHEET	
			SWO 5486(1)	
COUNTY			SEQUOYAH	
HIGHWAY			I-40	
STATE JOB NO.			34334(04)	
SHEET NO.			S014	

POT STA. 26+40.08 BEGIN CONN. SURVEY
(A006) & CL SH10 (NS446) SECTION LINE
FOUND 3/8" REBAR

N88°21'28.38"E

7639

16.50'

STATUTORY R/W 659.95' S01°37'06.71"E

30+00

660.26' S01°36'36.54"E

CURVE DATA - C9
P.I. Sta. 815+02.77
X= 2837224.4438
Y= 191619321
Δ= 151°04'48" Rt.
D= 300'00.00"
T= 254.29'
L= 505.60'
R= 1909.86'
E= 16.85'

~EQUATION: RT. LANE (A003)
PT STA. 814+82.93 BK.
= PT STA. 814+88.66 FWD.
PT STA. 814+84.56 BK.
PT STA. 814+88.66 FWD.
ON FAP I-40-6(99)(100)288
AS-BUILT PLANS
NOTHING FOUND OR SET

PC STA. 817+51.04 CL SURVEY
=PC STA. 817+48.02 ON FAP
I-40-6(99)(100)288 AS-BUILT PLANS
NOTHING FOUND OR SET

35+00

PC STA. 817+51.04 CL SURVEY
=PC STA. 817+48.02 ON FAP
I-40-6(99)(100)288 AS-BUILT PLANS
NOTHING FOUND OR SET

40+00

POT STA. 44+57.60 END RAMP 'A' ON
(A006) & CL SH10 (NS446) SECTION LINE
=POT STA. 44+57.60 FAS S-941(3)'S
AS-BUILT PLANS
NOTHING FOUND OR SET

S88°53'28.92"E

45+00

PC STA. 816+56.70 CL SURVEY
=PC STA. 816+56.70 ON FAP
I-40-6(99)(100)288 AS-BUILT PLANS
NOTHING FOUND OR SET

CURVE DATA - C7
P.I. Sta. 815+15.15
X= 2837167.7480
Y= 191527.5433
Δ= 12°58'45.27" Lt.
D= 400'00.00"
T= 162.94'
L= 324.48'
R= 1432.39'
E= 9.24'

CURVE DATA - C8
P.I. Sta. 820+77.93
X= 2837709.1956
Y= 191686.0718
Δ= 14°52'41.50" Rt.
D= 600'00.00"
T= 124.69'
L= 247.97'
R= 954.93'
E= 8.11'

50+00

POT STA. 52+79.62 END A006
=POT STA. 52+80.00 FAS S-941(3)'S
AS-BUILT PLANS
FOUND MAG NAIL

PROPOSED R/W
2024-12-04

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BEARING EQUATION:

SWO 5486(1) J/P No. 34334(07)
N 01°37'06.71" W this survey =
N 01°34'26" W on FAP I-40-6(100)288 PLANS

825+00

830+00

830+00

820+00

PRESENT R/W 694.56' N01°37'06.71"W

A006 Conn. Survey & SH10
POC STA. 822+39.61 END SW05486(1)
CL SURVEY (A004) & I-40 LT. LANE
ON NS446 SECTION LINE
= POC STA. 822+39.45 ON FAP I-40-6(99)
(100)288 AS-BUILT PLANS
N. 1042.02' TO SECTION COR.
S. 1597.52' TO 1/4 SECTION COR.
NOTHING FOUND OR SET

POST STA. 822+39.61 LT. LANE (A004)
ON NS446 SECTION LINE
= POST STA. 822+39.76 ON FAP I-40-6(99)
(100)288 AS-BUILT PLANS
N. 1049.92' TO SECTION COR.
S. 1589.61' TO 1/4 SECTION COR.
NOTHING FOUND OR SET

SCALE 0 100 200 300 400 500 Feet

PLS	EDP	OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	DCM	
CHECKED	PPM	
APPROVED	DCM	
CREW	NORMAN	
		SURVEY DATA SHEET
		SWO 5486(1)

COUNTY: SEQUOYAH HIGHWAY: I-40 STATE JOB NO. 34334(04) SHEET NO. S016

PROPOSED R/W
2024-12-04

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Northwest Corner Of Section 30, T-12-N, R-21-E, I.M.
ODOT Monument No. M-51-1136
Found And Accepted 5/8" Rebar And Three (3) Accessories
Shown On Corner Record Filed By Kevin E. Singleton,
LS 1461, Along With Two (2) References And Matching
Monument From Corner Record Filed By Jerry L. Headrick,
LS 873.

West Quarter Corner Of Section 30, T-12-N, R-21-E, I.M.
ODOT Monument No. M-51-1132
Found And Accepted 5/8" Rebar Shown On Filed CCR By
Edward R. Seaton, LS 1353, Dated December 31, 2013.
Set Three (3) Accessories To Perpetuate Found Corner

Southwest Corner Of Section 30, T-12-N, R-21-E, I.M.
ODOT Monument No. M-51-1130
Found 5/8" Rebar And All Three (3) References Set By
Edward R. Seaton, LS 1353, Dated September 5, 2013.

North Quarter Corner of Section 30, T-12-N, R-21-E, I.M.
ODOT Monument No. M-51-1135
Found Two (2) 1/2" Rebars, 3.3' Apart From each Other.
Also Found A NGS Brass Cap On Culvert Headwall (R79 1940)
No Corner Records Had Been Filed At This Corner. Set
Mag Nail With "EST CA3639" Washer At Prorated Distance
Shown On Dependent Resurvey Executed In The Field
Between March 1990 And March 1994.

Northeast Corner Of Section 30, T-12-N, R-21-E, I.M.
ODOT Monument No. M-51-829
Found BLM Monument (2" Aluminum Cap) And Three (2)
Remaining Reference Points Shown On Corner Record Filed
By Darin Stratton, LS 1504, Dated April 21, 2005. Set One
(1) Additional Reference Point To Perpetuate Said Corner.

East Quarter Corner Of Section 30, T-12-N, R-21-E, I.M.
ODOT Monument No. M-51-830
Found 2" Aluminum Monument Set By Unknown Parties.
Location Fits Ties to SWO 2502(1) Survey. Set Three (3)
Accessories To Perpetuate Found Monument.

Southeast Corner Of Section 30, T-12-N, R-21-E, I.M.
ODOT Monument No. M-51-831
Found Mag Nail And One (1) Reference Point Which Fits
Positionally With Corner Record Filed By Darin Stratton, LS
1504, Dated April 21, 2005. Set Three (3) Additional
Reference Points To Perpetuate Said Corner.

South Quarter Corner Of Section 30, T-12-N, R-21-E, I.M.
ODOT Monument No. M-51-1131
Found And Accepted 3/8" Rebar And All Three (3) Accessories
Shown On Filed CCR By Edward R. Seaton, LS 1353, Dated
December 31, 2013. Also Found A 3/8" Rebar Set By Unknown
Parties, And Is Shown As An Accessory.

NOTE: REFERENCE'S SHOWN ARE NOT TO SCALE.

SCALE		0	100	200	300	400	500 Feet
PLS	EDP	OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION					
DRAWN	DCM						
CHECKED	PPM						
APPROVED	DCM						
CREW	NORMAN						
		SURVEY DATA SHEET					
		SWO.5486(1)					
COUNTY	SEQUOYAH	HIGHWAY	I-40	STATE JOB NO.	34334(04)	SHEET NO.	S017

PROPOSED R/W
2024-12-04

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

Northwest Corner Of Section 29, T-12-N, R-21-E, I.M.
ODOT Monument No. M-51-829
Found BLM Monument (2" Aluminum Cap) And Three (2)
Remaining Reference Points Shown On Corner Record Filed
By Darin Stratton, LS 1504, Dated April 21, 2005. Set One
(1) Additional Reference Point To Perpetuate Said Corner.

West Quarter Corner Of Section 29, T-12-N, R-21-E, I.M.
ODOT Monument No. M-51-830
Found 2" Aluminum Monument Set By Unknown Parties.
Location Fits Ties to SWO 2502(1) Survey. Set Three (3)
Accessories To Perpetuate Found Monument.

Southwest Corner Of Section 29, T-12-N, R-21-E, I.M.
ODOT Monument No. M-51-831
Found Mag Nail And One (1) Reference Point Which Fits
Positionally With Corner Record Filed By Darin Stratton, LS
1504, Dated April 21, 2005. Set Three (3) Additional
Reference Points To Perpetuate Said Corner.

North Quarter Corner Of Section 29, T-12-N, R-21-E, I.M.
Unable To Set Corner, Falls In Arkansas River. Calculated
Position Only.

Northeast Corner Of Section 29, T-12-N, R-21-E, I.M.
ODOT Monument No. S-68-529
Found 1/2" Iron Pin And A BLM Aluminum Cap. The 1/2" Iron
Pin Fits Several Ties To SWO 2502(1) And The Corps. Of
Engineers Partial Boundary Plat. The 1/2" Iron Pin Fits Positionally
With The Corner Record Filed By Darin Stratton, LS 1504, And
Fits Well With Surrounding Section Corners. Held The 1/2" Iron Pin.
Also Found One (1) Remaining Accessory From Corner Record Filed
By Darin Stratton, LS 1504, And Two (2) Other Accessories Set By
Unknown Surveyor.

East Quarter Corner Of Section 29, T-12-N, R-21-E, I.M.
Unable To Set Corner, Falls In Arkansas River. Calculated
Position Only.

Southeast Corner Of Section 29, T-12-N, R-21-E, I.M.
ODOT Monument No. M-51-833
Found 1/2" Iron Pin And Two (2) Remaining Reference Points
Which Fit Positionally With Corner Record Filed By Darin Stratton,
LS 1504, Dated April 21, 2005. Set One (1) Additional Reference
Point To Perpetuate Said Corner.

South Quarter Corner Of Section 29, T-12-N, R-21-E, I.M.
ODOT Monument No. M-51-832
Found 1/2" Iron Pin Which Fits Positionally With Corner Record
Filed By Darin Stratton, LS 1504, Dated April 21, 2005 And
Was Also Used And Filed By Roy Entz, LS 319, Dated
January 11, 2005. Set Three (3) Reference Points To Perpetuate
Said Corner Location.

NOTE: REFERENCE'S SHOWN ARE NOT TO SCALE.

SCALE		0	100	200	300	400	500 Feet
PLS	EDP						
DRAWN	DCM						
CHECKED	PPM						
APPROVED	DCM						
CREW	NORMAN						
		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION					
		SURVEY DATA SHEET					
		SWO.5486(1)					
COUNTY	SEQUOYAH	HIGHWAY	I-40	STATE JOB NO.	34334(04)	SHEET NO.	S018

PROPOSED R/W
2024-12-04

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

North Quarter Corner Of Section 28, T-12-N, R-21-E, I.M.
ODOT Monument No. S-68-530
Found 1/2" Rebar Which Fits Reasonably Well With SWO 2502(1)
Survey, Corps Of Engineers Partial Boundary Plat 1968, And The
BLM Dependent Resurvey Done In The Field Between March 1990
And March 1994. (Approved September 30, 2011). Found Monument
Also Agrees Positionally With Corner Record Filed By Darin Stratton,
LS 1504, Dated April 21, 2005, Also Set Three (3) Accessories
To Perpetuate Said Found Quarter Corner

Northwest Corner Of Section 28, T-12-N, R-21-E, I.M.
ODOT Monument No. S-68-529
Found 1/2" Iron Pin And A BLM Aluminum Cap. The 1/2" Iron
Pin Fits Several Ties To SWO 2502(1) And The Corps. Of
Engineers Partial Boundary Plat. The 1/2" Iron Pin Fits Positionally
With The Corner Record Filed By Darin Stratton, LS 1504, And
Fits Well With Surrounding Section Corners. Held The 1/2" Iron Pin.
Also Found One (1) Remaining Accessory From Corner Record Filed
By Darin Stratton, LS 1504, And Two (2) Other Accessories Set By
Unknown Surveyor.

Northeast Corner Of Section 28, T-12-N, R-21-E, I.M.
ODOT Monument No. S-68-531
Found Mag Nail And Two (2) References That Match Filed Corner
Records By Darin Stratton, LS 1504, And Ron Huffman, LS 1020.
Set An Additional One (1) Reference Point To Perpetuate Section
Corner.

East Quarter Corner Of Section 28, T-12-N, R-21-E, I.M.
ODOT Monument No. S-68-532
Found 3/8" Rebar And All Three (3) References As Shown On
Corner Record Filed By Roy W. Entz, LS 319, Dated January 11,
2005. This Corner Fits Reasonably Well With The Dependent
Resurvey And Survey Executed In The Field Between 1990 And
1994.

Southwest Corner Of Section 28, T-12-N, R-21-E, I.M.
ODOT Monument No. M-51-833
Found 1/2" Iron Pin And Two (2) Remaining Reference Points
Which Fit Positionally With Corner Record Filed By
Darin Stratton, LS 1504, Dated April, 2005.
Set One (1) Additional Reference Point To Perpetuate Said Corner.

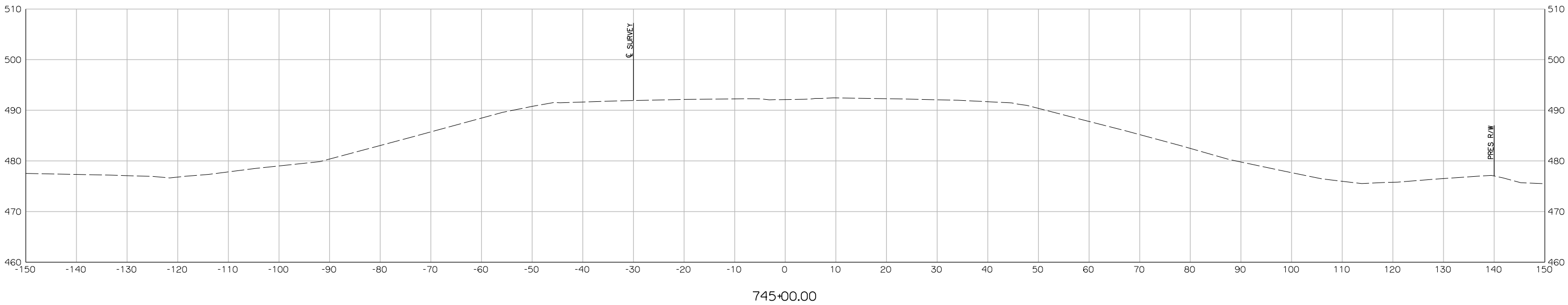
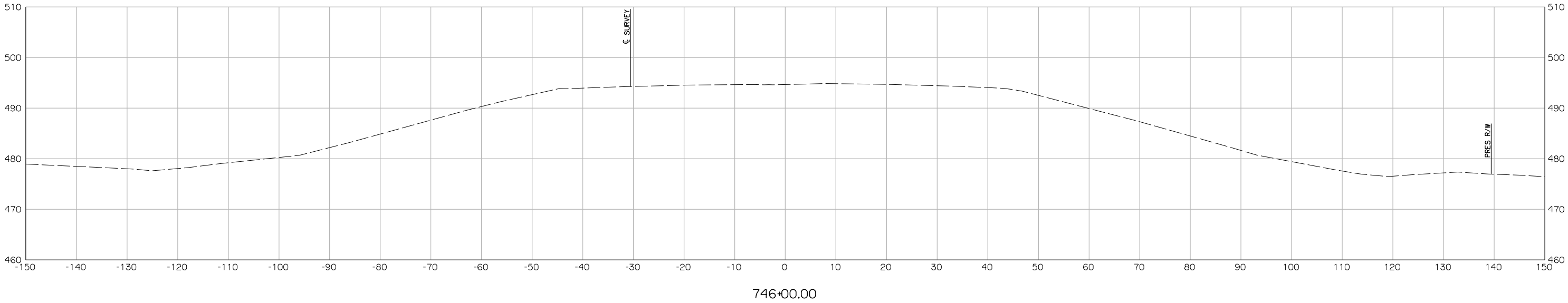
Southeast Corner Of Section 28, T-12-N, R-21-E, I.M.
ODOT Monument No. S-68-888
Found 2" BLM Aluminum Cap And Three (3) Reference Points
Found On CCR Filed By Roy Entz, LS 319, Dated January 11, 2005.
Also Found One (1) Additional Reference Point Set By Unknown Party.

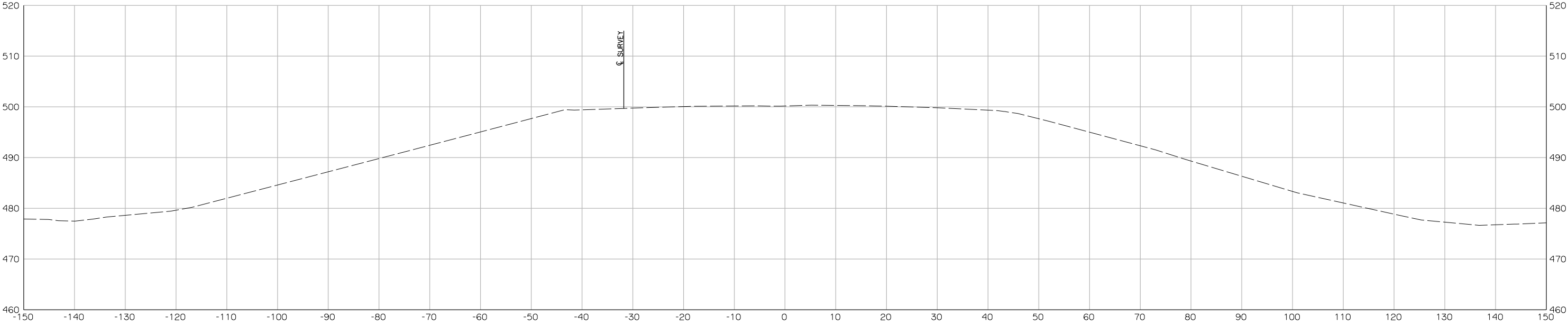
South Quarter Corner Of Section 28, T-12-N, R-21-E, I.M.
ODOT Monument No. S-68-887
Nothing Found. Set 1/2" Rebar Using Proportional Distances
From Located Southwest And Southeast Corners.
Also Set Three (3) Accessories To Perpetuate Said Quarter Corner.

NOTE: CENTER SEC. CALCULATED POSITION.

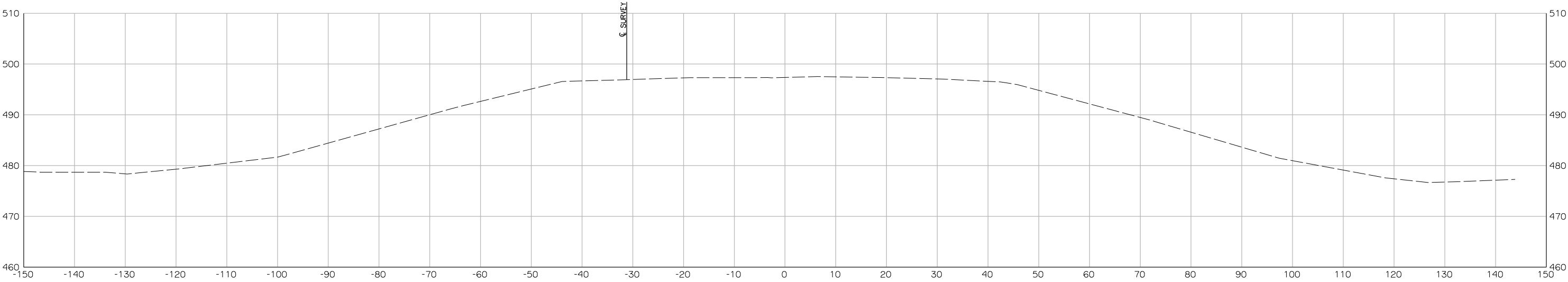
NOTE: REFERENCE'S SHOWN ARE NOT TO SCALE.

SCALE		0	100	200	300	400	500 Feet
PLS	EDP						
DRAWN	DCM						
CHECKED	PPM						
APPROVED	DCM						
CREW	NORMAN						
		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION					
		SURVEY DATA SHEET					
		SWO.5486(1)					
COUNTY	SEQUOYAH	HIGHWAY	I-40	STATE JOB NO.	34334(04)	SHEET NO.	S019

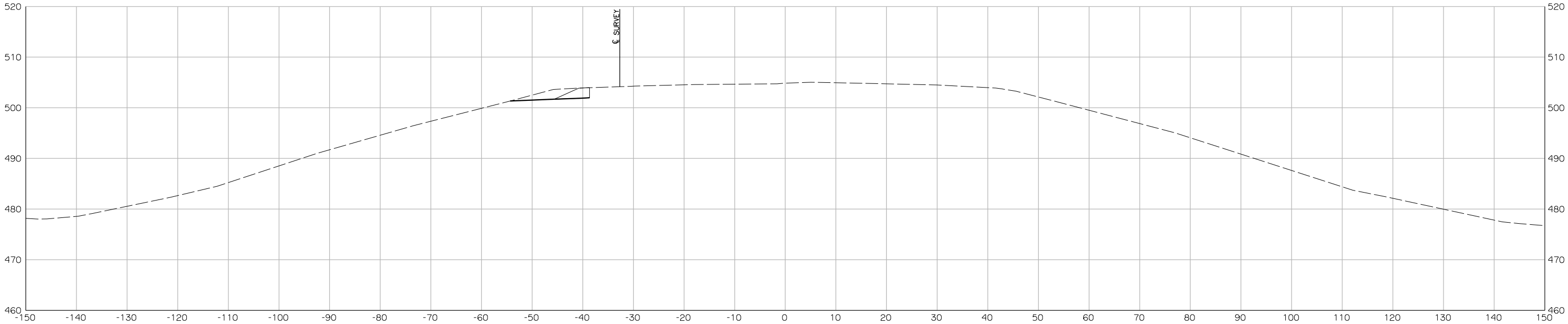




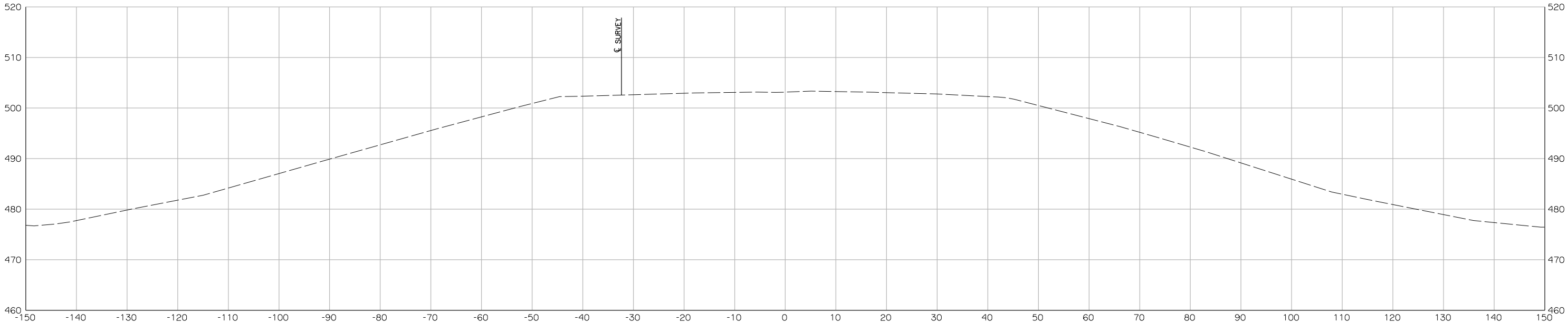
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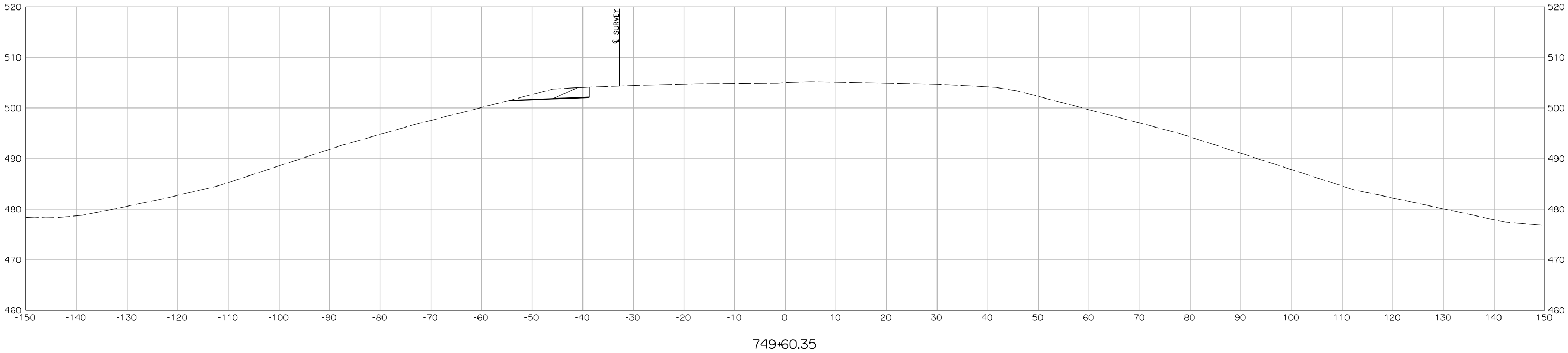
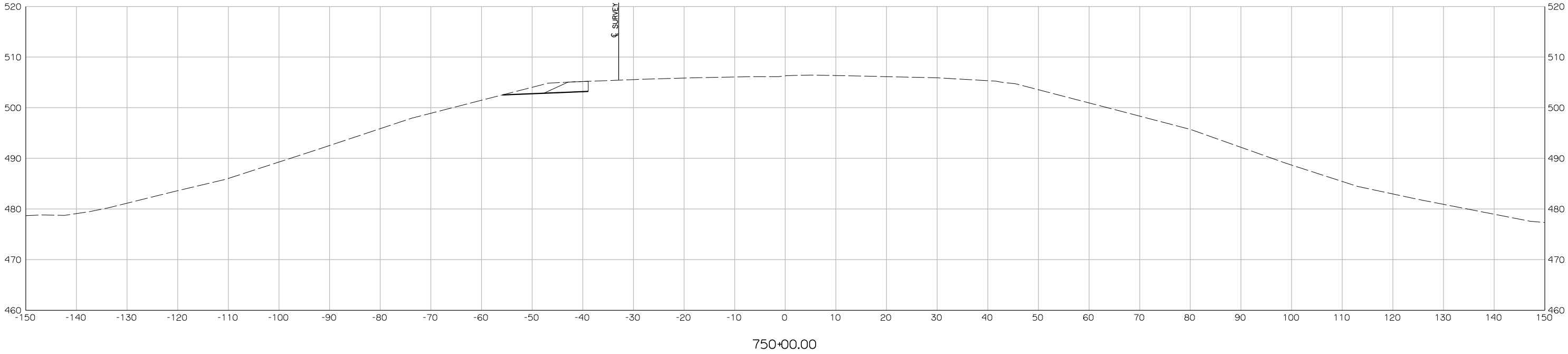
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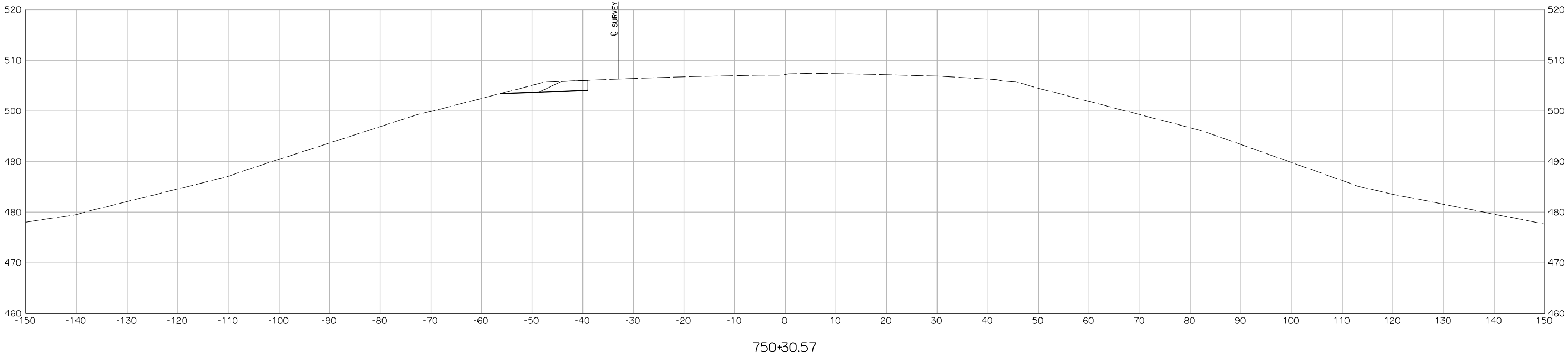


749+54.84
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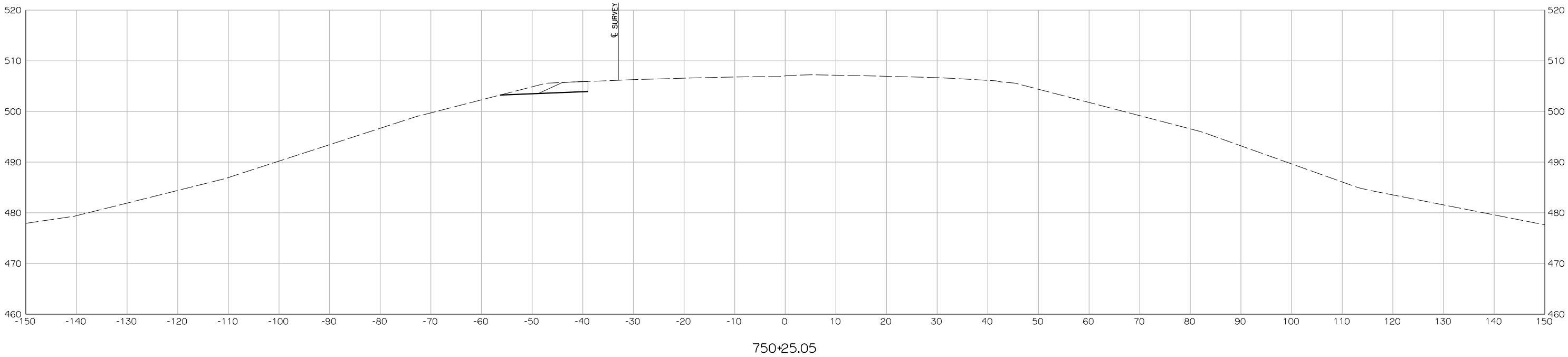


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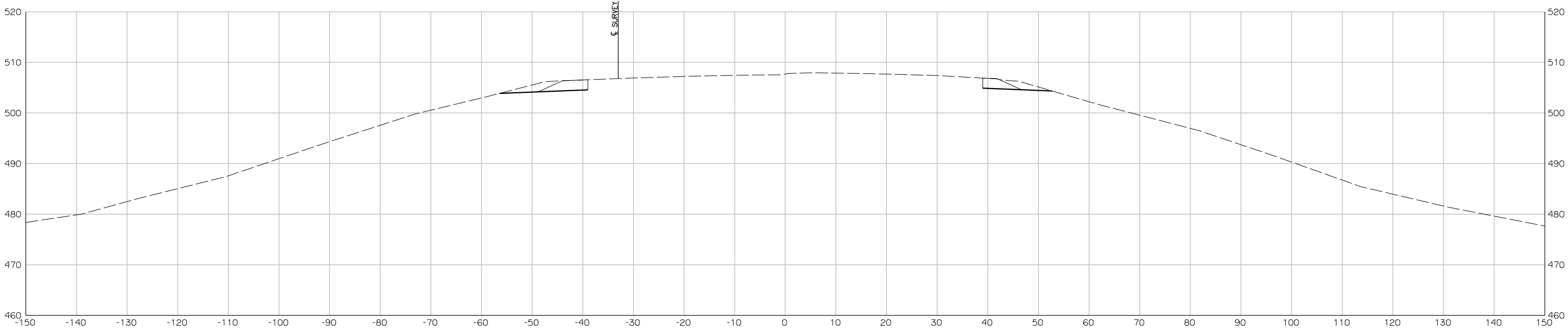




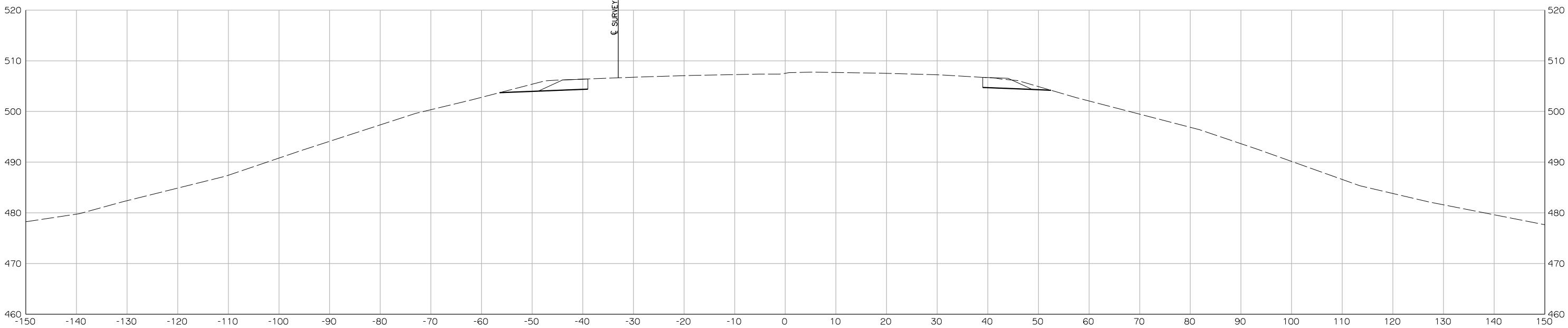
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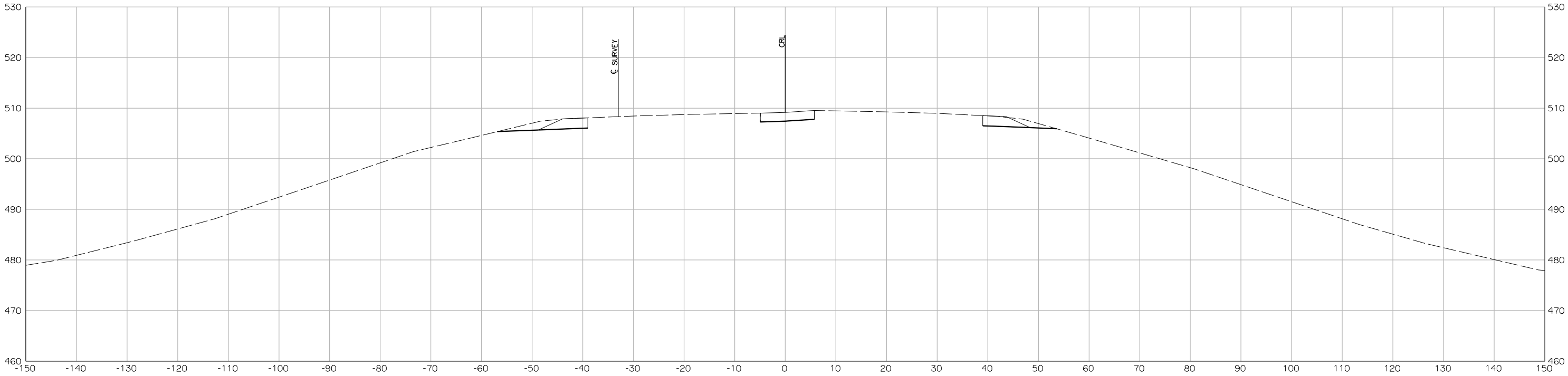
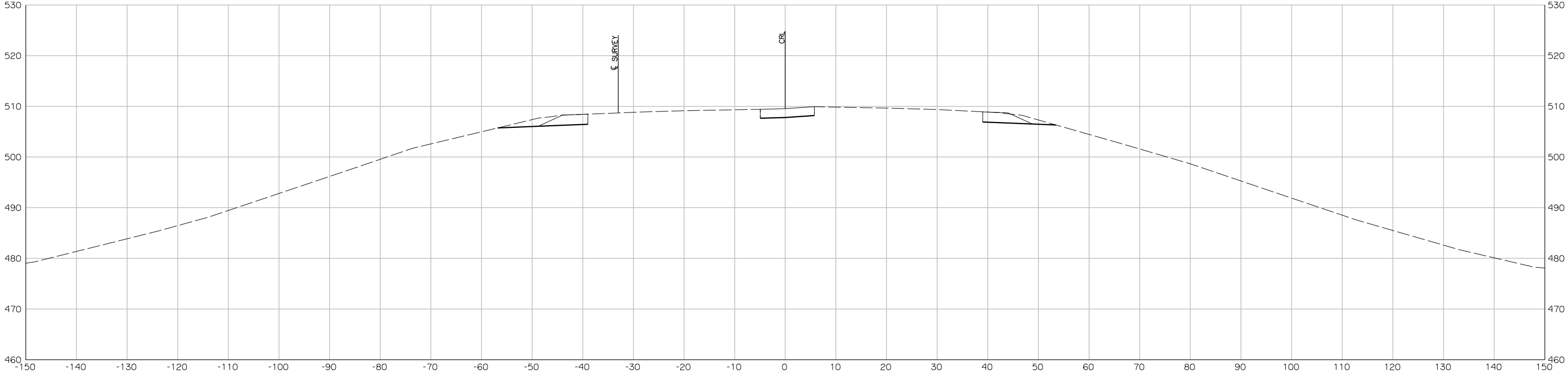
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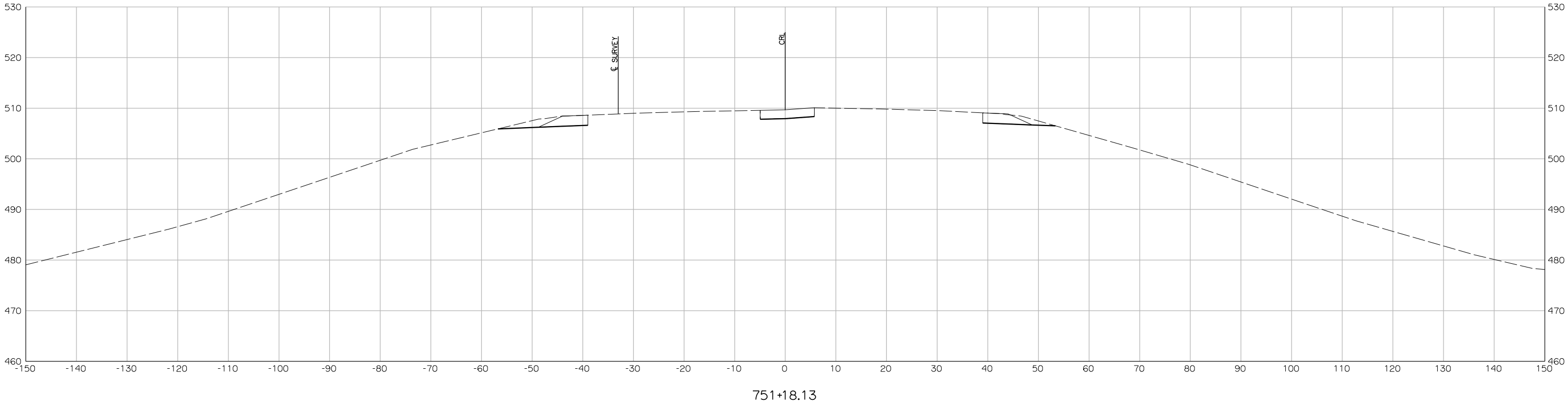
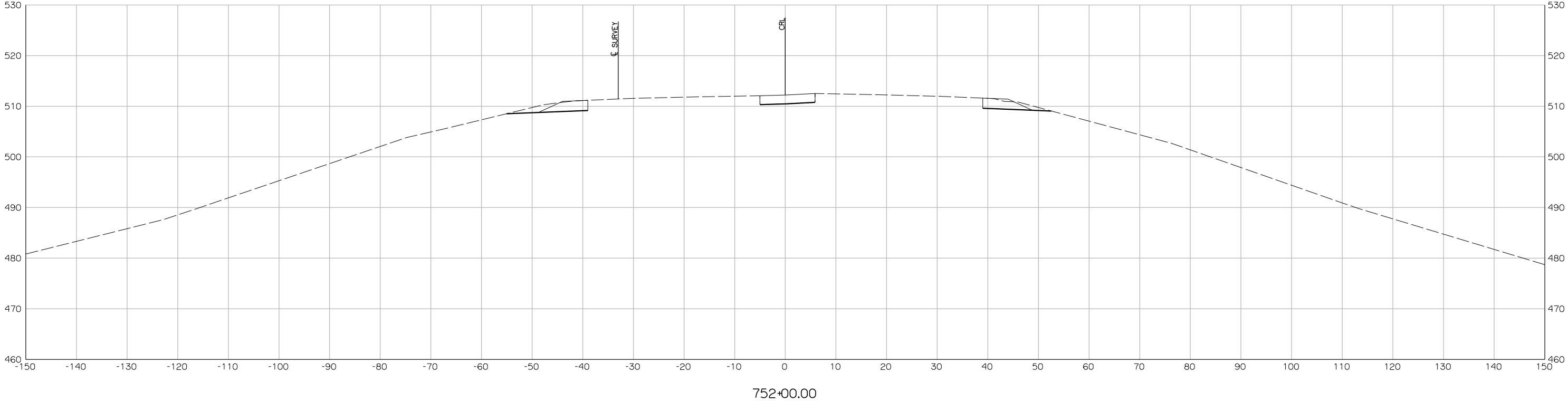


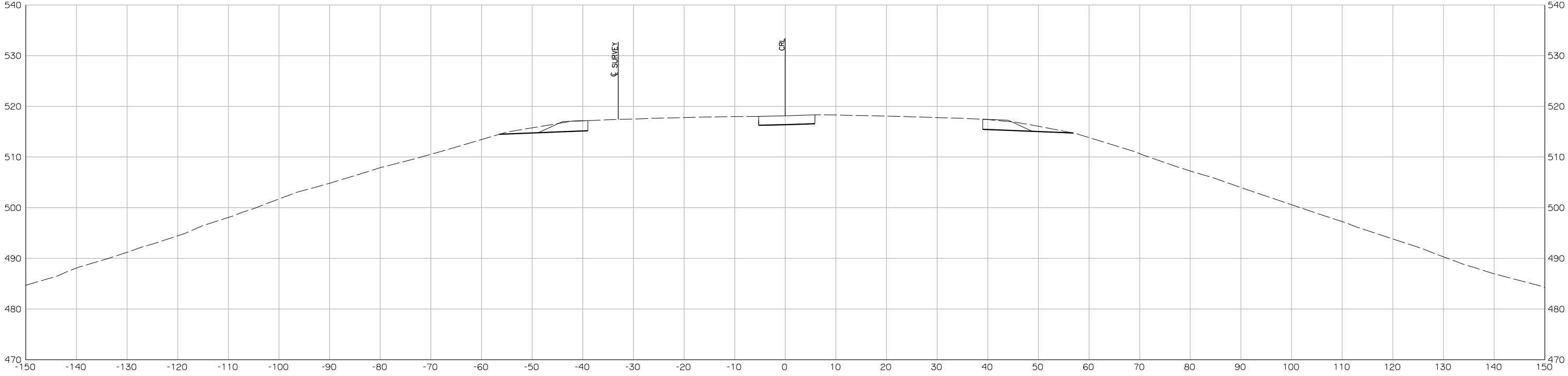
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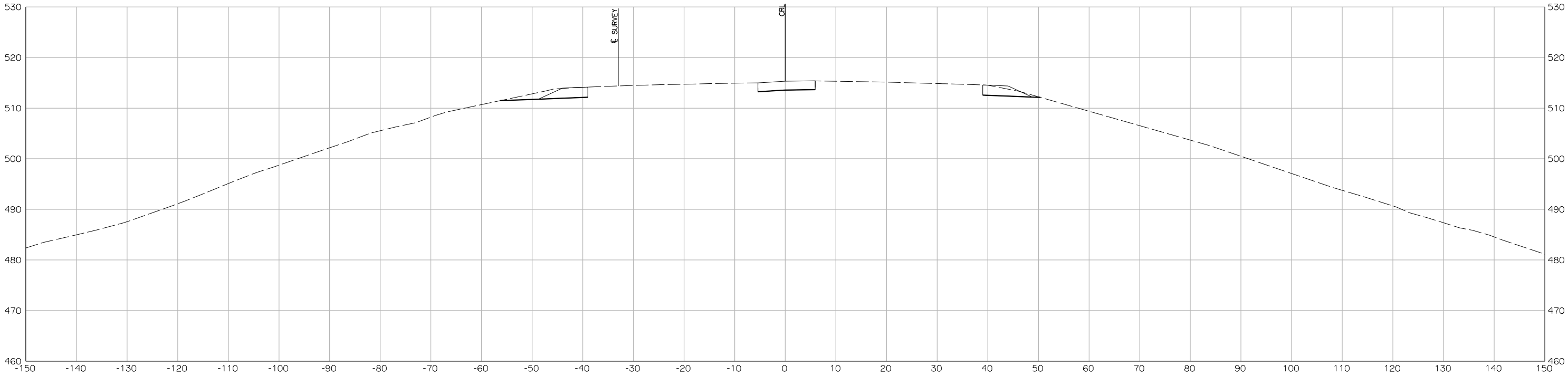
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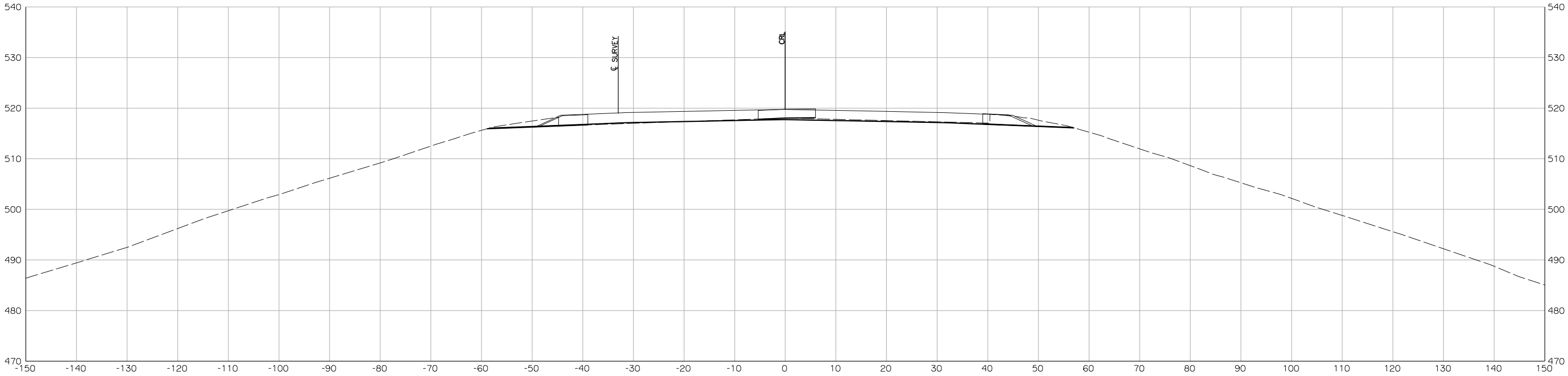
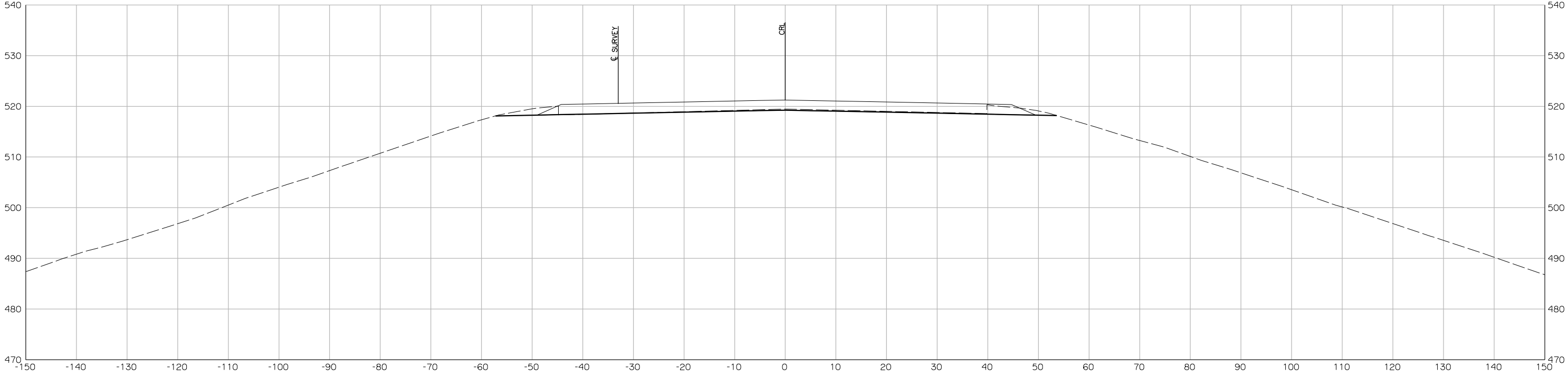


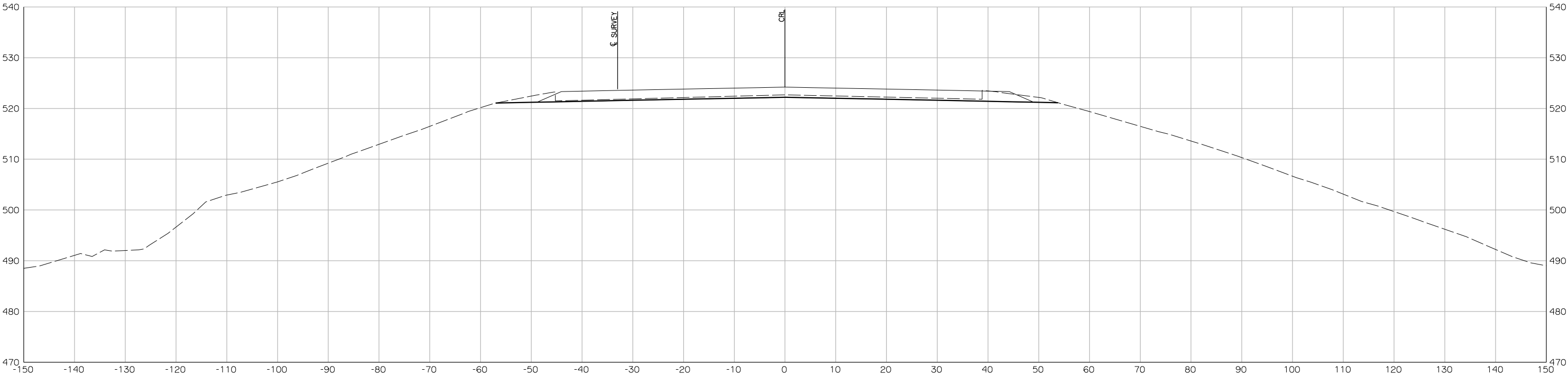
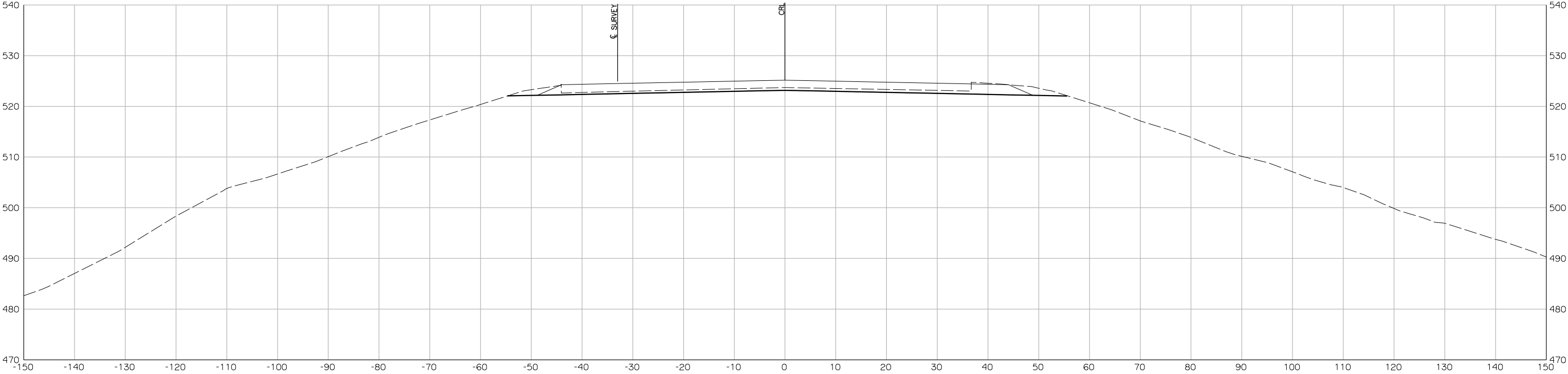


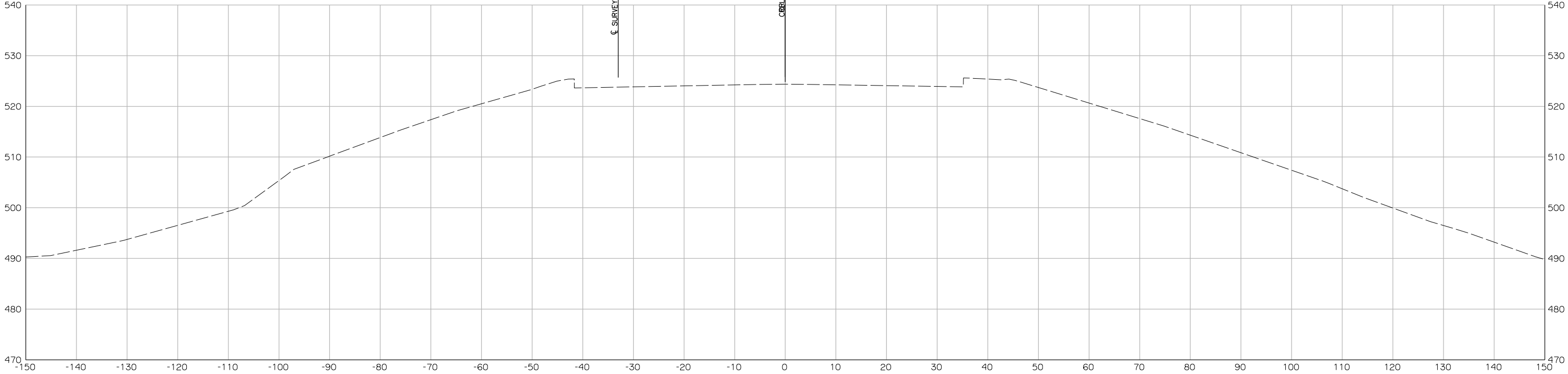
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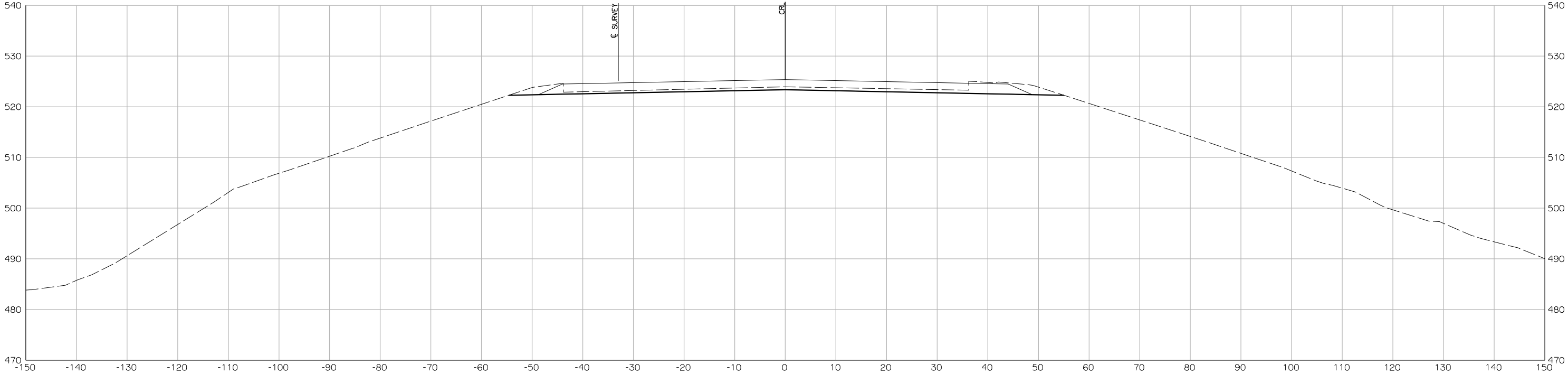
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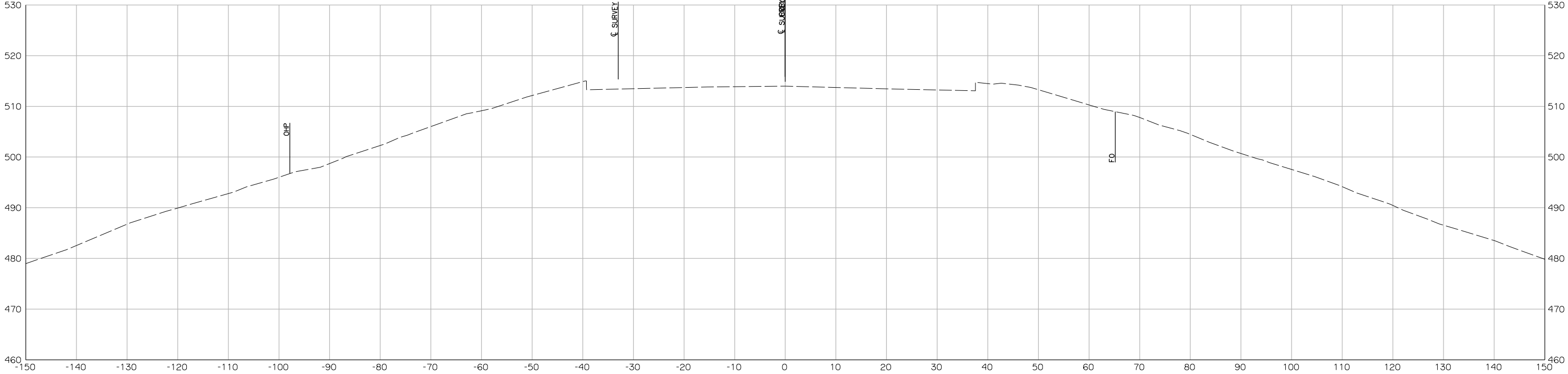




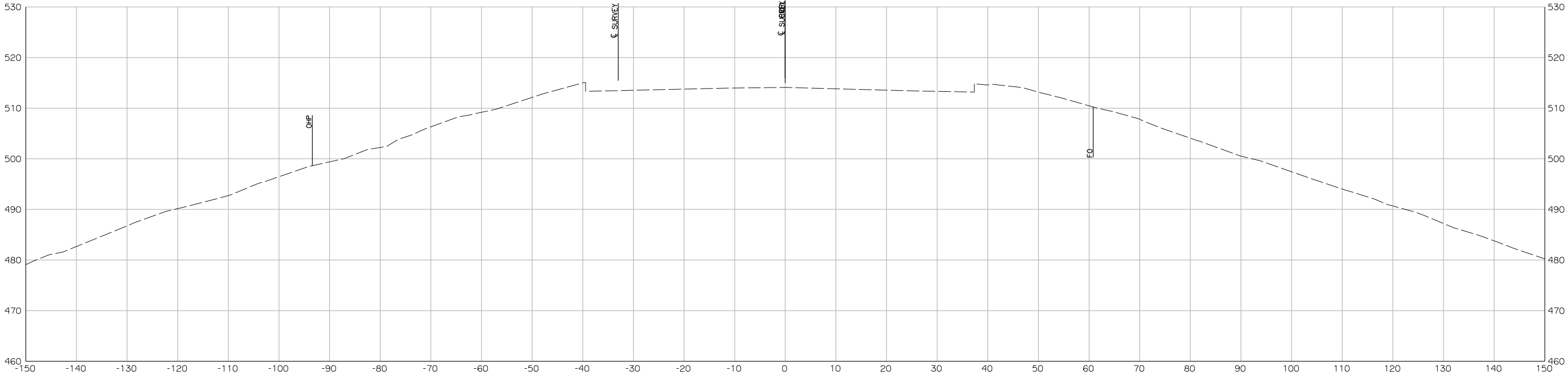
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BEGIN
BRIDGE EXCEPTION



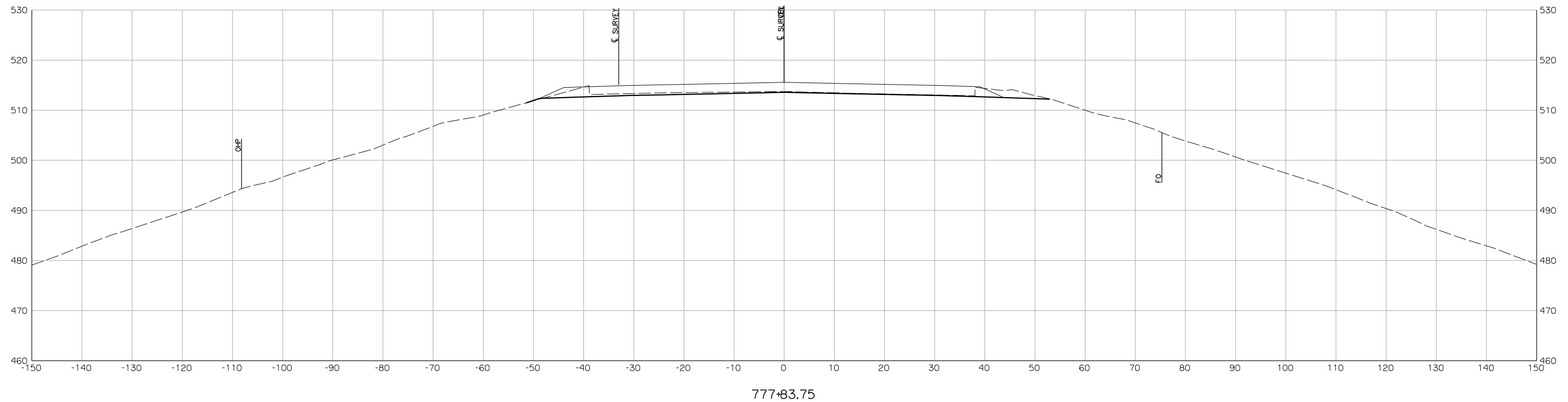
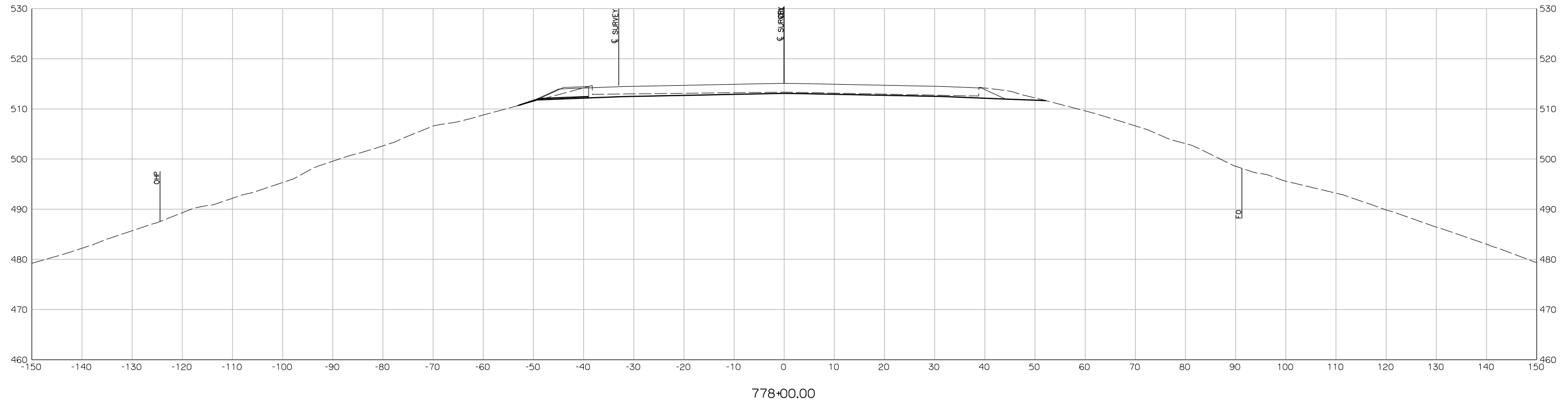
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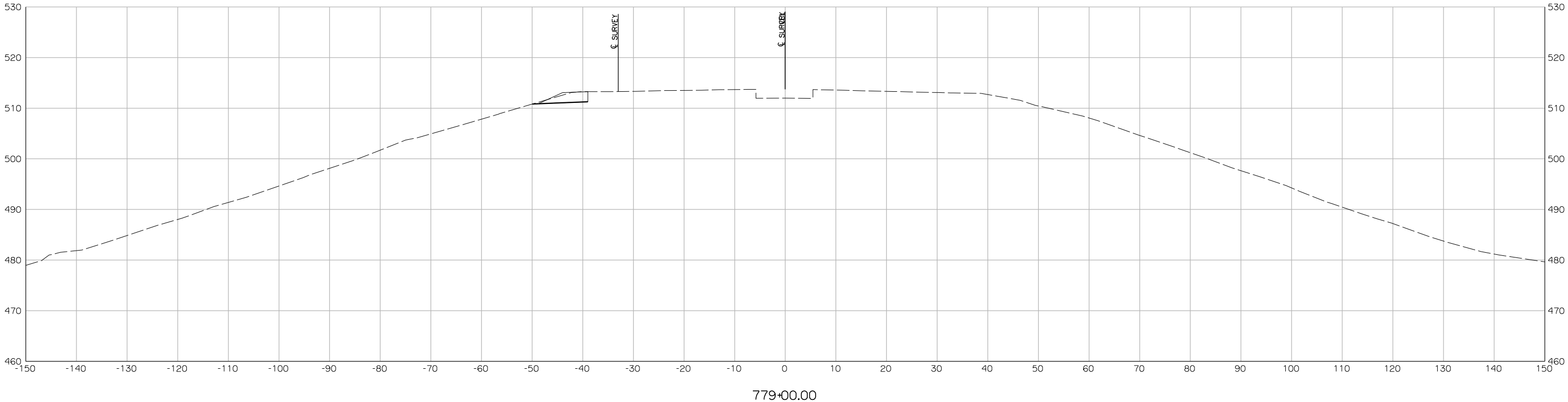
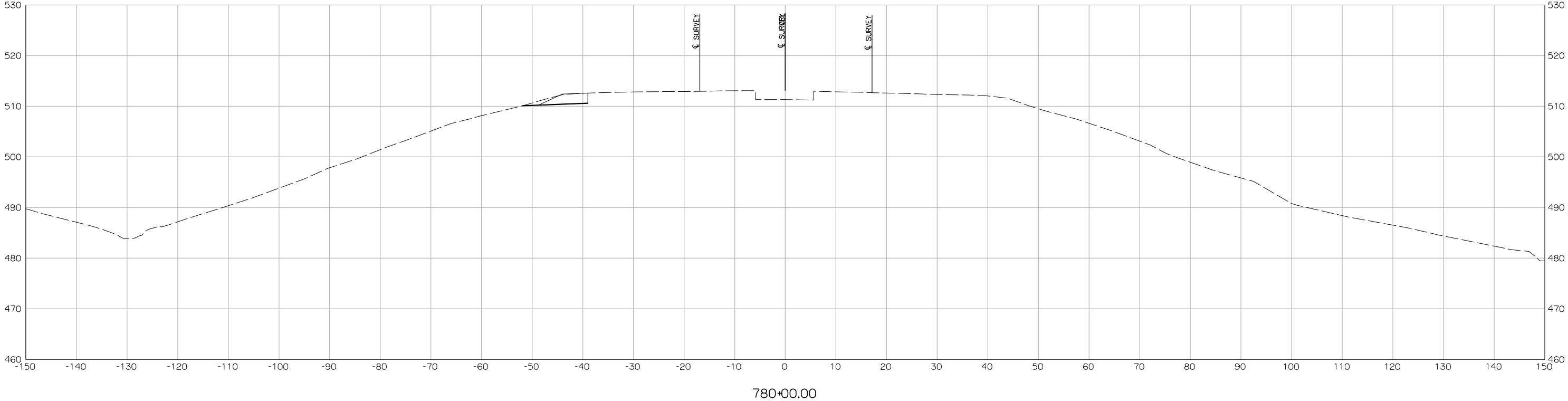


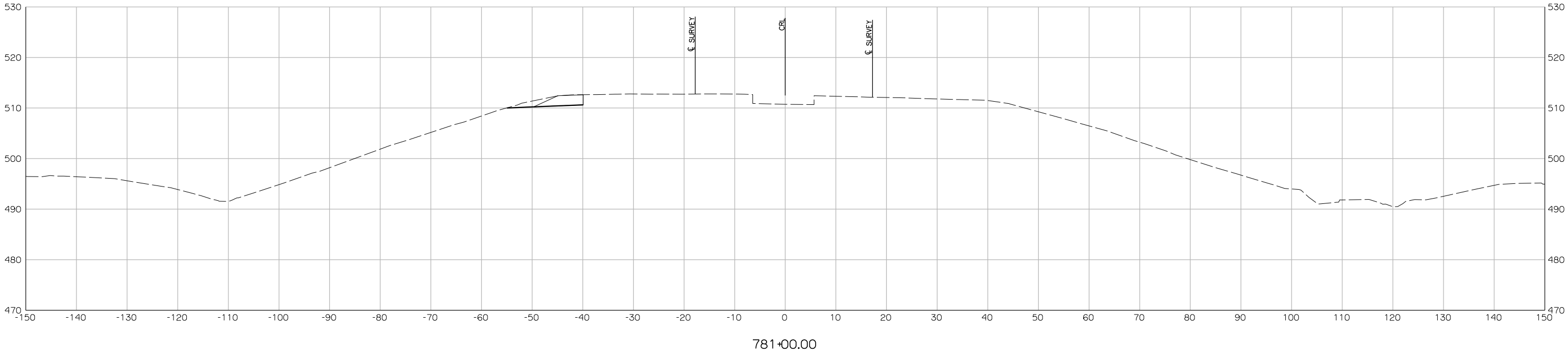
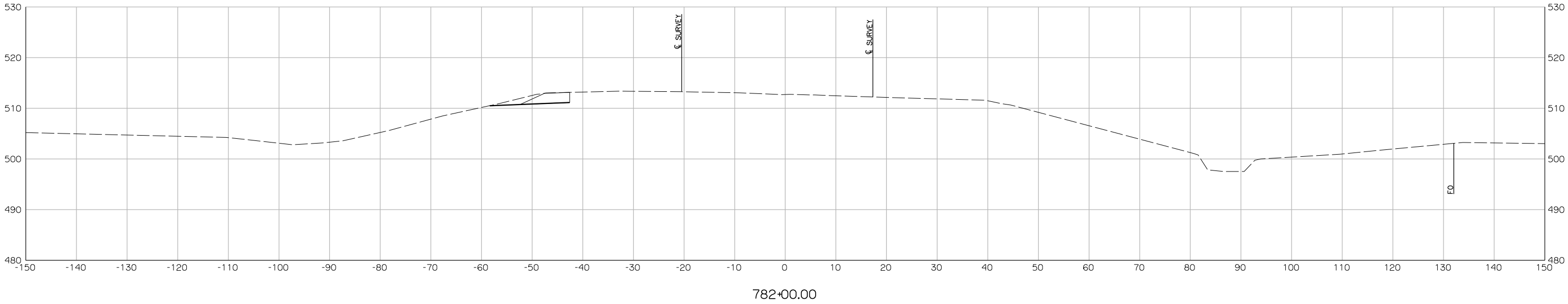
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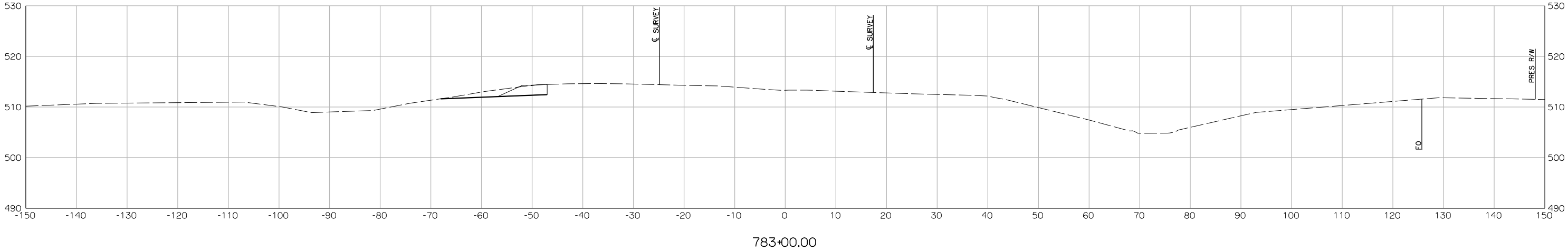
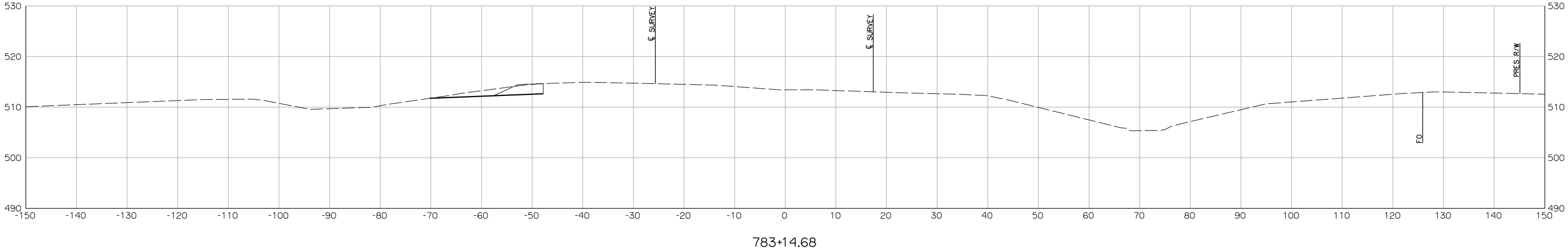
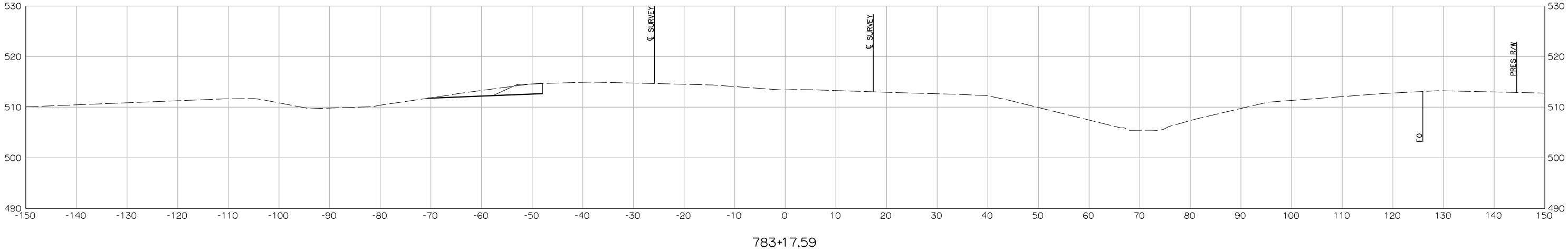


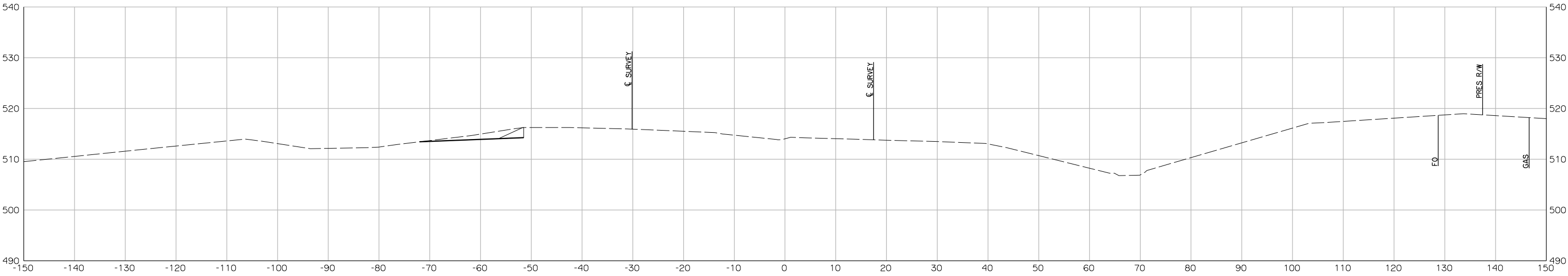
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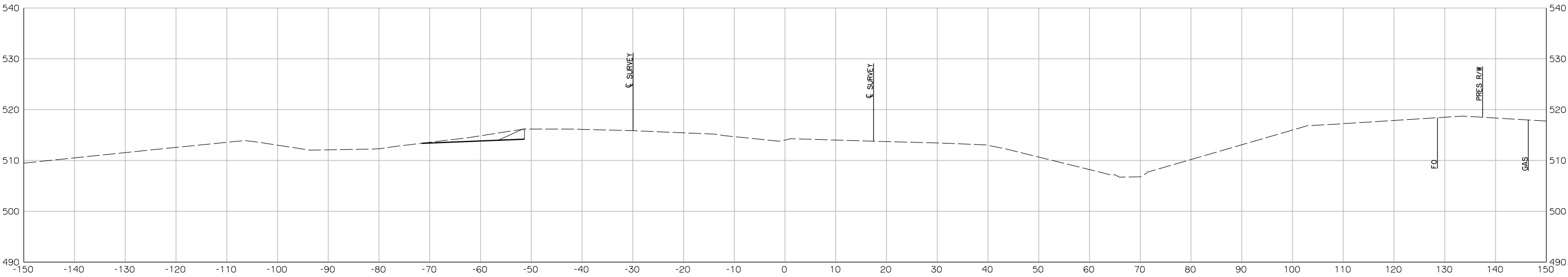








783+87.22
END CONSTRUCTION



783+84.21

