

STATE OF OKLAHOMA  
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED  
**U.S. HIGHWAY**  
FEDERAL AID PROJECT NO. J2-7108(004)  
GRADE, DRAIN, SURFACE, AND BRIDGE PLANS  
U.S. HIGHWAY NO. 69

**MUSKOGEE COUNTY**

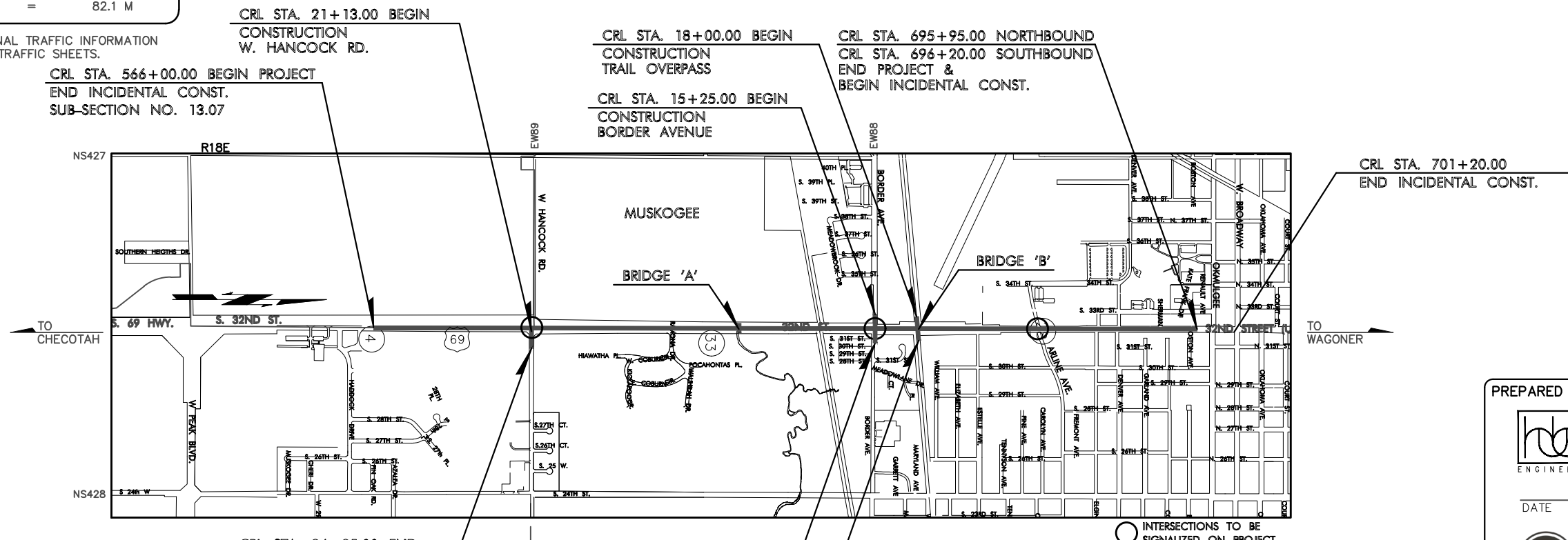
STATE JOB NO. 27108(04)  
CONTROL SECTION NO. 69-51-56

BRIDGE "B"  
BEGIN BRIDGE STA. 18+99.83  
BRIDGE LENGTH = 200.33'  
END BRIDGE STA. 21+00.17  
OLD NBI NO. 12806  
NEW NBI NO. \_\_\_\_\_  
LOCATION 5156 1470X

BRIDGE "A"  
BEGIN BRIDGE STA 624+76.54  
BRIDGE LENGTH = 42.33'  
END BRIDGE STA 625+18.87  
NBI NO. 12788  
LOCATION 5156 1418X

DESIGN DATA	US-69
ADT 2015	= 23,710
ADT 2040	= 33,870
K (DHV/ADT)	= 9%
D	= 54%
T(%DHV)	= 22%
T(%ADT)	= 25%
T3(%ADT)	= 20%
V	= 35 MPH & 55 MPH
FLEX ESALS (20 YR.)	= 82.1 M

FOR ADDITIONAL TRAFFIC INFORMATION SEE DESIGN TRAFFIC SHEETS.

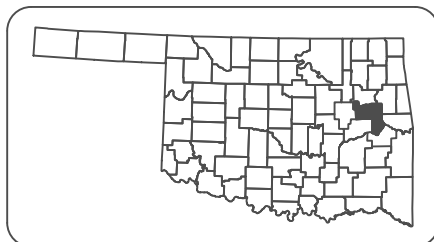


**CONVENTIONAL SYMBOLS**

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

**SURVEY CONTROL DATA**

SEE SURVEY DATA SHEETS



LOCATION MAP

**PROJECT LENGTH BASED ON C.R.L. STATIONING**  
STATE JOB NO. 27108(04)

NORTHBOUND ROADWAY LENGTH	12995.00 FT.	2.461 MILES
SOUTHBOUND ROADWAY LENGTH	13020.00 FT.	2.465 MILES
BRIDGE LENGTH	42.33 FT.	0.008 MILES
PROJECT LENGTH		2.463 MILES

SCALES 1" = 20' & 1" = 50'

PLAN 1" = 20' & 1" = 50'  
PROFILE HOR. 1" = 20' & 1" = 50'  
VER. 1" = 5'

W. HANCOCK RD. INCIDENTAL CONSTRUCTION		
ROADWAY LENGTH	382.00 FT.	0.072 MILES
BRIDGE LENGTH	0.00 FT.	0.000 MILES
PROJECT LENGTH		0.072 MILES

EQUATIONS : NONE  
EXCEPTIONS : NONE

BORDER AVE. INCIDENTAL CONSTRUCTION		
ROADWAY LENGTH	925.00 FT.	0.175 MILES
BRIDGE LENGTH	0.00 FT.	0.000 MILES
PROJECT LENGTH		0.175 MILES

EQUATIONS : NONE  
EXCEPTIONS : NONE

CENTENNIAL TRAIL INCIDENTAL CONSTRUCTION		
TRAIL LENGTH	249.67 FT.	0.047 MILES
BRIDGE LENGTH	200.33 FT.	0.038 MILES
PROJECT LENGTH		0.085 MILES

EQUATIONS : NONE  
EXCEPTIONS : NONE

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

THE ENTIRE PROJECT IS LOCATED WITHIN THE CORPORATE LIMITS OF THE CITY OF MUSKOGEE



PREPARED AND SUBMITTED BY



**HOLLOWAY, UPDIKE & BELLEN, Inc.**  
818 East Side Boulevard  
Post Office Box 1543  
Muskogee, Oklahoma 74402  
(918) 682-7811  
SHEET NOS.: 0001-0005, AE01, AR01, AR02, R001-R053, R056-R062, S001-S017, X001-X081

NO. CA 219  
EXPIRES 06/23

DATE \_\_\_\_\_  
WESLEY M. STEWART  
P.E. NO. 24031



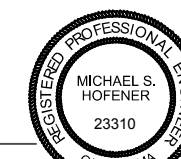
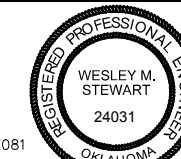
**CEC**  
SHEET NOS.: AB01, B001-B013, R054, R055

DATE \_\_\_\_\_  
AUGUSTINE F. WUERTZ  
P.E. NO. 29197



SHEET NOS.: T001-T073

DATE \_\_\_\_\_  
MICHAEL S. HOFENER  
P.E. NO. 23310



OKLAHOMA DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION
DATE APPROVED _____	DATE APPROVED _____
BY _____ CHIEF ENGINEER	BY _____ DIVISION ADMINISTRATOR
SWO 4933(1)	PROJECT NO. J2-7108(004) SHEET NO. 1

**FINAL FIELD MEETING**

October 2023

THE FOLLOWING STANDARD DRAWINGS WILL BE REQUIRED TO CONSTRUCT THIS JOB

THE FOLLOWING SHEETS WILL BE REQUIRED TO COMPLETE THIS JOB

2019 ROADWAY	2009 TRAFFIC CONTROL	2009 TRAFFIC SIGNING & STRIPING	2009 TRAFFIC SIGNALS	2009 TRAFFIC LIGHTING	2009 BRIDGE
BMPR-0	TCS1-1-01	PM1-1-03	PMAP1-2-01	CCD1-1-00	HP1-2-01E
TESCA-0	TCS2-1-00	PM2-1-01	SPBP1-1-01	PBD1-1-00	RCB-C1-3&4&5(2-20)-01E
IPD-0	TCS3-1-01	PM3-1-02	SA1-1-02	GMF1-2-01	RCB-C1-8(2-14)-01E
RSF-0	TCS4-1-01	PM4-1-02	ID1-1-00	HLBP1-1-01	RCB-C2-6(12-20)-01E
TSD-0	TCS5-1-00	PM6-1-00	SNS1-1-02	HLGN1-1-01	RCB-CW1-D4-30-01E
SSS-2-1	TCS6-1-02	RSD1-1-00	TSSS1-1-00	HLPD1-1-00	RCB-CW1-D4-0-01E
ASCD-6-1	TCS7-1-02	RSD2-1-00	PWD1-2-00	PPD1-2-00	RCB-CW2-D4-0-01E
CSCD-6-2	TCS8-1-00	WSD1-1-00	CFD1-2-01	HLD1-2-01	RCB-E1-H2-30-1-01E
LECS-5-2	TCS9-1-01	WSD2-1-00	CC1-1-00	HLD2-2-01	RCB-E1-H2-30-2-01E
LTU-5-1	TCS10-1-00	MSD1-1-00	TSSP1-1-00	HLMA2-1-01	RCB-E1-H2-30-3-01E
PED-4-1	TCS11-1-01	MSD2-1-00	MAD1-1-01	HLMA3-1-01	RCB-E1-H2-0-1-01E
WCR-4-2	TCS13-1-00	MSD3-1-01	RPMAD1-1-01	SPD1-1-00	
TWD-2-2	TCS14-1-00	MSD4-1-00	MPMAD1-1-01	SCD1-1-00	
PSMD-2-2	TCS15-1-00	MSD5-1-00	MDL1-1-00	TEWD1-2-00	
SMD-4-2	TCS17-1-00	SBS1-1-00	MDL2-1-00		
CET4S-4-2	TCS18-1-01	SBS2-1-00			
PCES-5-1	TCS19-1-01	SBS3-1-00			
CDIP30-2-2	TCS20-1-00	SBS4-1-00			
SSCD-4-1	TCS21-1-02	SBS5-1-00			
SSIF-5-1	TCS22-1-00	GMS1-1-00			
CIG-4-1	TCS24-1-02	SSP1-1-02			
MFC-5-1	TCS25-1-00	SSA1-1-00			
MJB-4-2	SWD2-1-00	FGS2-1-01			
PRM-1-2					
PMD-1-1					
SPI-5-2					
PBB-1-2					
FHTMPP-2-1					
FHTCP-4-1					
SBI-5-2					
PUD-4-1					
MI-4-2					
RDI-4-1					
DC-4-1					
PDT-2-2					
RWF1-3-1					
RWF2-3-1					
RWF3-3-2					

**INDEX OF SHEETS**

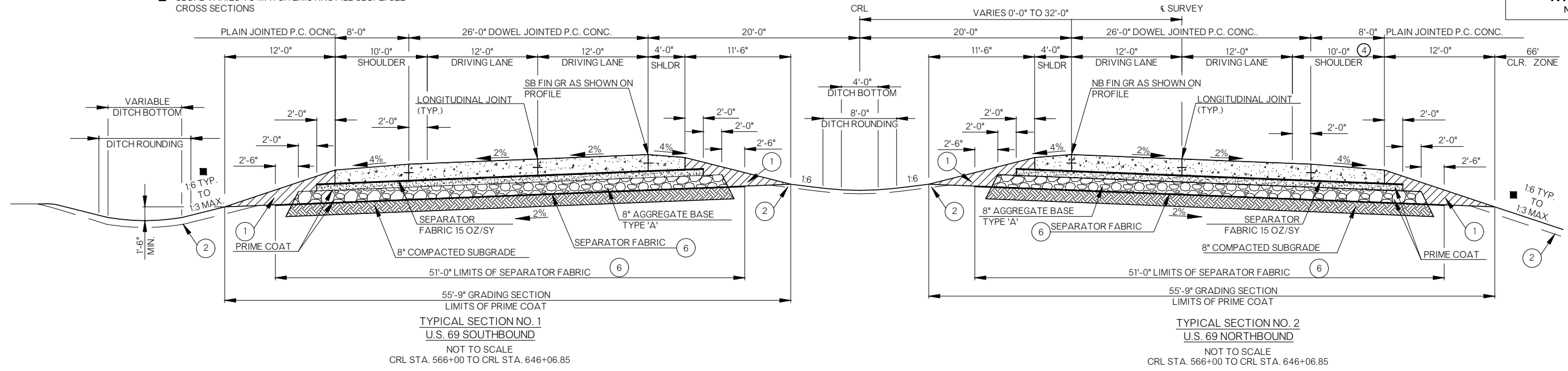
SHEET NO.	DESCRIPTION
0001	TITLE SHEET
0002	INDEX OF SHEETS
0003-0004	TYPICAL SECTIONS
0005	MISCELLANEOUS DETAILS
AB01	SUMMARY OF PAY QUANTITIES & NOTES (BRIDGE)
AE01	ENVIRONMENTAL NOTES
AR01-AR02	SUMMARY OF PAY QUANTITIES & NOTES (ROADWAY)
AT01-AT04	TRAFFIC CONTROL PAY QUANTITIES & NOTES
AX01-AX06	SUMMARY SHEETS
B001-B006	GENERAL PLAN AND ELEVATION - BRIDGE "A"
B007-B008	GENERAL PLAN AND ELEVATION - BRIDGE "B"
B009	SUBSURFACE PROFILE
B010	SUBSTRUCTURE LAYOUT
B011-B012	ABUTMENT DETAILS
B013	SLOPEWALL DETAILS
R001	MANHOLE DETAILS
R002-R007	DRAINAGE DETAILS
R008	BOX EXTENSION DETAILS
R009	CICI-JUNCTION BOX DETAILS
R010-R010B	DRAINAGE MAP
R010C-R010D	DRAINAGE DESIGN RECORD
R011	STORMWATER MANAGEMENT PLAN
R012-R018	EROSION CONTROL
R019-R024	REMOVAL DETAILS
R025-R031	GEOMETRIC LAYOUT
R032-R033	MASS HAUL
R034-R050	PLAN AND PROFILES
R051	SIDEWALK SITE PLAN
R052-R053	JOINT LAYOUT
R054-R055	RETAINING WALL PLAN AND ELEVATION
R056-R062	MEDIAN LAYOUT
S001-S017	SURVEY DATA SHEETS
T001-T009	SIGNAL PLAN & DETAILS
T010-T011	SIGN SUMMARY
T012	SPECIAL SIGN DETAILS
T013-T023	SIGNING & STRIPING PLAN
T024	LIGHTING SCHEDULES
T025-T026	LIGHTING PLAN
T027	TYPICAL ADVANCE WARNING SIGNS (PHASE 1)
T028-T038	TRAFFIC CONTROL PLAN (PHASE 1)
T039	TYPICAL ADVANCE WARNING SIGNS (PHASE 2)
T040-T045	TRAFFIC CONTROL PLAN (PHASE 2)
T046	TYPICAL ADVANCE WARNING SIGNS (PHASE 3)
T047-T052	TRAFFIC CONTROL PLAN (PHASE 3)
T053-T054	TYPICAL ADVANCE WARNING SIGNS (PHASE 4)
T055-T057	TRAFFIC CONTROL PLAN (PHASE 4)
T058	TYPICAL ADVANCE WARNING SIGNS (PHASE 5)
T059-T061	TRAFFIC CONTROL PLAN (PHASE 5)
T062	TYPICAL ADVANCE WARNING SIGNS (PHASE 6)
T063-T065	TRAFFIC CONTROL PLAN (PHASE 6)
T066	TYPICAL ADVANCE WARNING SIGNS (PHASE 7)
T067-T069	TRAFFIC CONTROL PLAN (PHASE 7)
T070	TYPICAL ADVANCE WARNING SIGNS (PHASE 8)
T071-T073	TRAFFIC CONTROL PLAN (PHASE 8)
X001-X081	CROSS SECTIONS



**U.S. HIGHWAY 69**

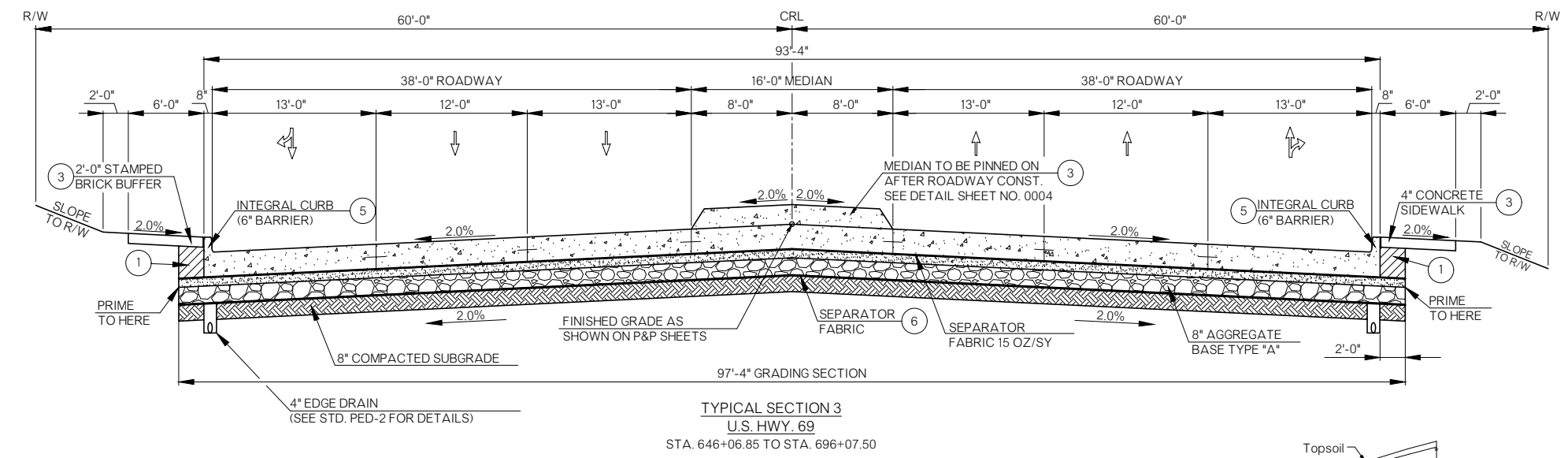
**INDEX OF SHEETS**

■ SLOPE VARIES TO MATCH EXISTING FILL SLOPE. SEE CROSS SECTIONS

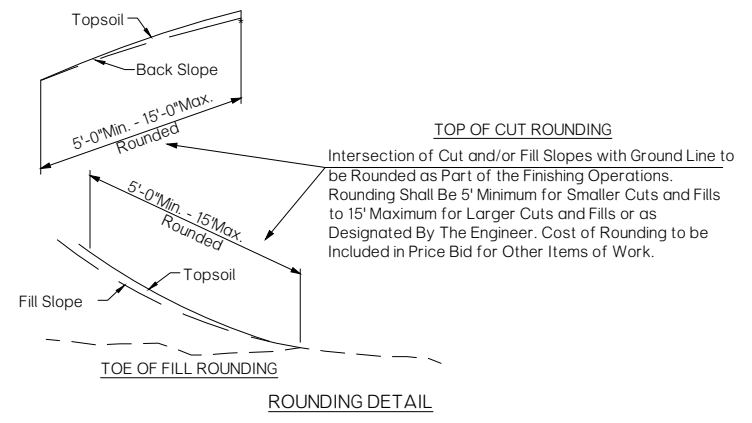


PAVEMENT REQUIREMENTS			
MAINLINE			
16.5\"/>			

- ① TO BE BACKFILLED WITH T.B.S.C. AND COMPACTED AS PART OF THE FINISHING OPERATIONS.
- ② THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL WITHIN THE LIMITS OF CONSTRUCTION, APPROXIMATELY 5\"/>

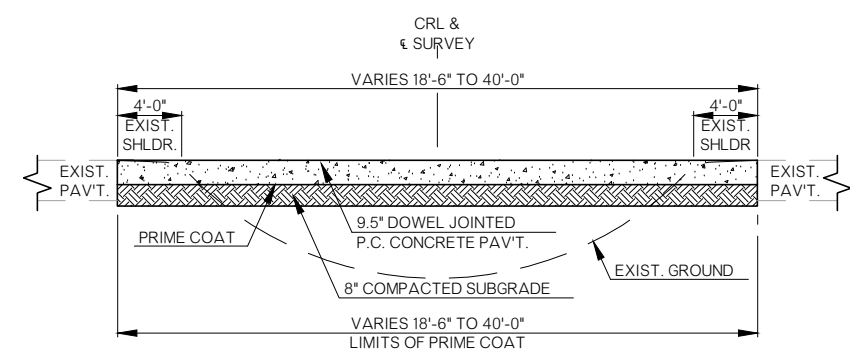


PAVEMENT REQUIREMENTS			
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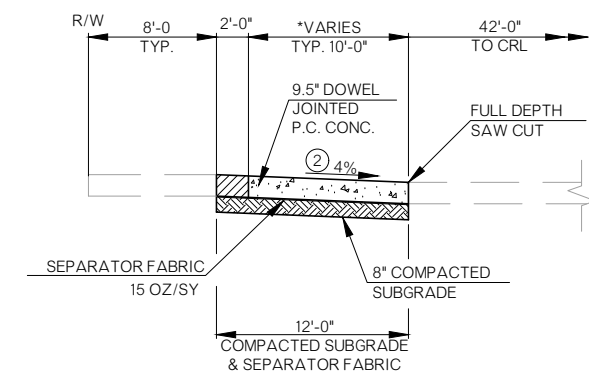


**U.S. HIGHWAY 69**  
**TYPICAL SECTION**

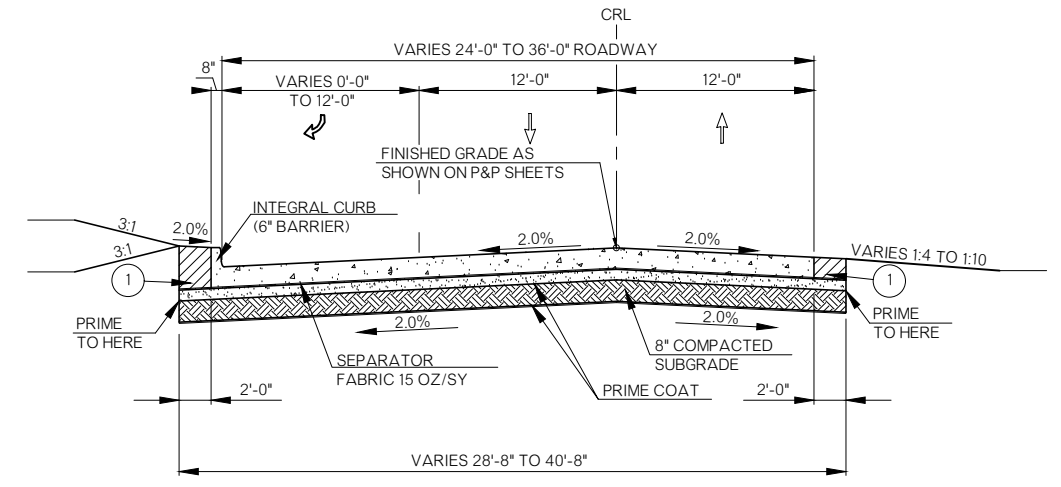
HUB ENGINEERING, P.C. 0077090178  
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**TYPICAL SECTION NO. 4**  
**MEDIAN CROSSOVER 'A'**  
NOT TO SCALE  
CRL STA. 562+00 TO CRL STA. 566+50

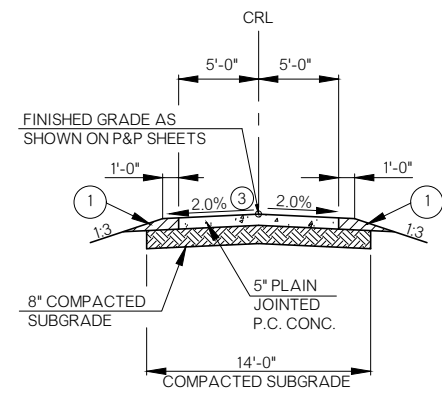


**TYPICAL SECTION NO. 5**  
**DETOUR**  
NOT TO SCALE  
\*CRL STA. 656+00 TO CRL STA. 691+57.18 WIDTH=10'-0"  
\*CRL STA. 691+57.18 TO CRL STA. 696+.31 WIDTH VARIES 1'-8" TO 10'-0"

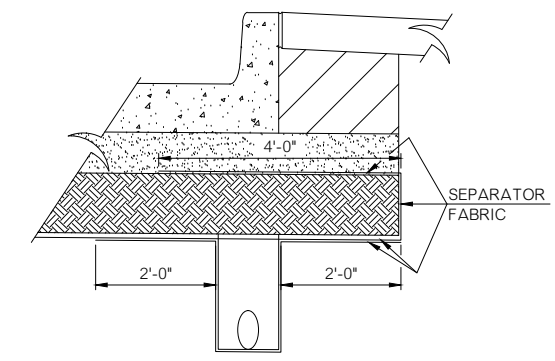


**TYPICAL SECTION 6**  
**HANCOCK RD. & BORDER AVE. & STREET RETURNS**  
STA. 21+13 TO STA. 24+95 (HANCOCK RD.)  
STA. 15+25 TO STA. 24+50 (BORDER AVE.)  
EXCEPT U.S. 69

PAVEMENT REQUIREMENTS		
HANCOCK & BORDER		
12" PAVT. STRUCTURE	0' TO 12' TURN LANE	12' DRIVING LANES
SURFACE COURSE	8" PLAIN JOINTED P.C. CONC.	8" PLAIN JOINTED P.C. CONC.
BASE COURSE	4" CEMENT TREATED BASE	4" CEMENT TREATED BASE



**CENTENNIAL TRAIL TYPICAL SECTION**  
NOT TO SCALE  
STA. 18+00 TO STA. 22+50  
EXCEPT BRIDGE "B"

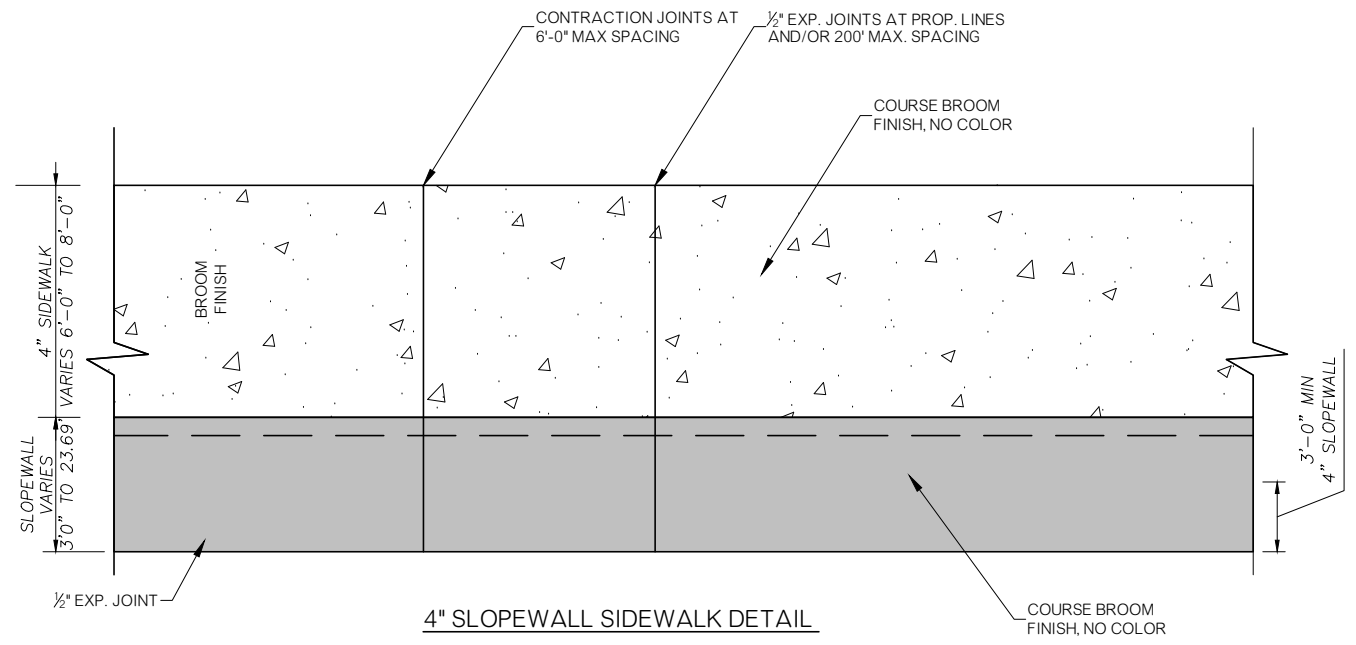


**DETAIL OF SEPARATOR FABRIC AND EDGE DRAIN**

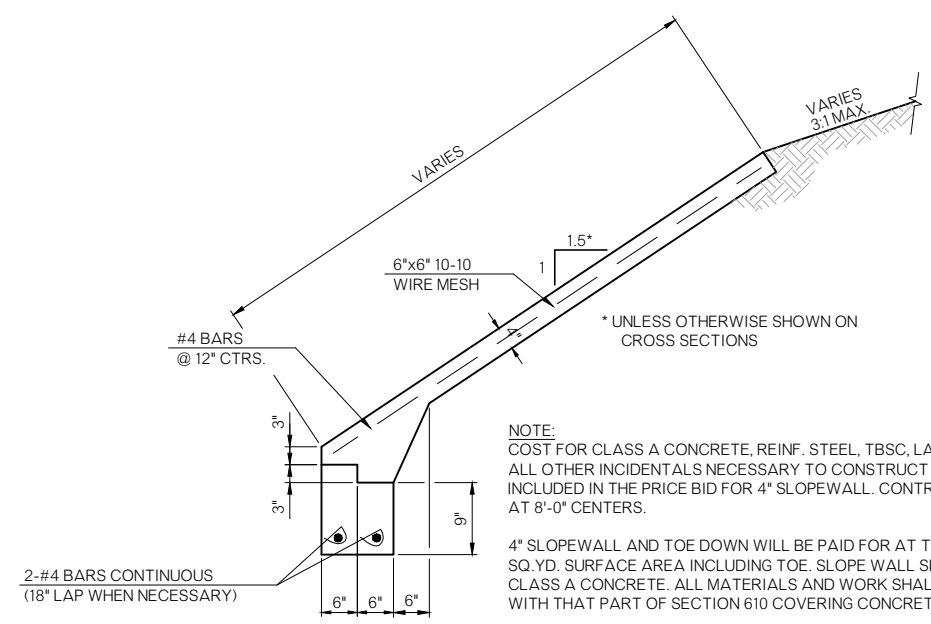
- ① TO BE BACKFILLED AND COMPACTED AS PART OF THE FINISHING OPERATIONS. COST TO BE INCLUDED IN PRICE BID FOR UNCLASSIFIED BORROW.
- ② SLOPE VARIES AS REQUIRED TO MATCH EXISTING GROUND LINE.
- ③ TRANSITION TO MATCH BRIDGE "B" CROSS SLOPE.

**U.S. HIGHWAY 69**  
**TYPICAL SECTION**

HUB ENGINEERING, P.C. 1000 N. W. 100th St., Suite 100, Oklahoma City, Oklahoma 73154  
 PROJECT: U.S. HIGHWAY 69, TYPICAL SECTION  
 DATE: 11/29/23

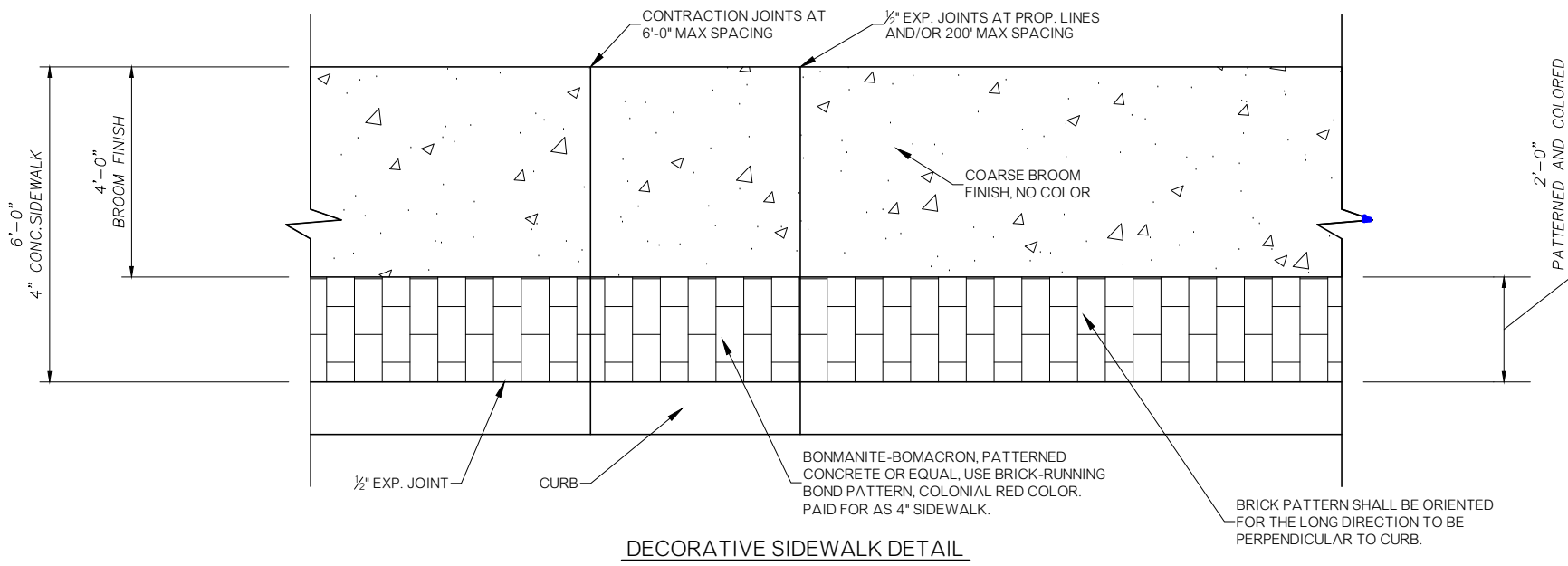


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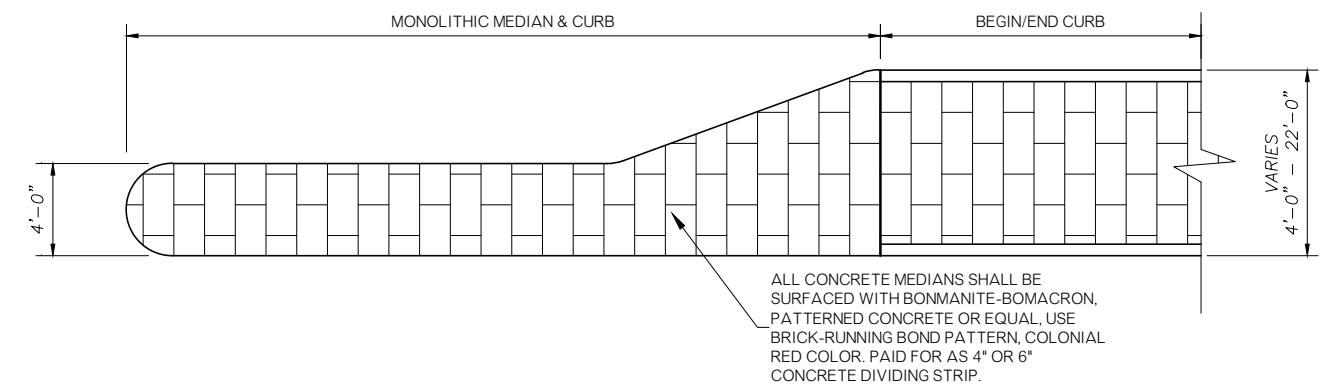


**SLOPE WALL SECTION VIEW**

- STA. 593+00 RT.
- STA. 672+36 RT.
- STA. 672+78 TO 674+12 RT.
- STA. 690+90 TO 691+70 RT.
- STA. 696+50 TO 698+06.5 RT.
- STA. 698+24 RT.
- STA. 698+45 RT.



**DECORATIVE SIDEWALK DETAIL**



**DECORATIVE MEDIAN DETAIL**

**SIDEWALK NOTES:**

1. EXCAVATION, BACKFILL, EXPANSION JOINT MATERIAL, SEALERS, TEXTURES, PATTERNS, COLORS AND OTHER RELATED MISCELLANEOUS ITEMS WILL NOT BE PAID FOR SEPARATELY BUT THE COST SHALL BE INCLUDED IN THE PRICE FOR 4 INCH CONCRETE SIDEWALK.
2. JOINT SEALER SHALL MEET THE REQUIREMENTS OF SECTIONS 701.08b AND 701.08e.
3. WHEREVER PRACTICABLE, TRANSVERSE SIDEWALK JOINTS SHALL BE ALIGNED WITH PAVING JOINTS AND/OR BRICK PATTERN.

HUB ENGINEERING, INC. 2625 N. W. 107th ST., SUITE 100, OKLAHOMA CITY, OK 73154  
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GENERAL NOTES

SPECIFICATIONS -

COMPLY WITH THE REQUIREMENTS OF THE 2019 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EXCEPT AS MODIFIED BY THE PLANS AND SPECIAL PROVISIONS.

VERIFICATION OF EXISTING CONDITIONS -

THE CONTRACTOR IS RESPONSIBLE FOR FULLY UNDERSTANDING THE NATURE OF THE WORK AND CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED.

ALL DIMENSIONS OF THE EXISTING BRIDGE COMPONENTS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS NECESSARY TO CONNECT THE NEW MATERIAL AND SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY THEREOF.

USE METHODS CONSISTENT WITH GOOD CONSTRUCTION PRACTICE AND TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO THE EXISTING BRIDGE AND ATTACHMENTS. ANY DAMAGE TO THE EXISTING BRIDGE STRUCTURE OR ROADWAY DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED, AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE ENGINEER.

EXISTING PLANS -

CONSTRUCTION PLANS FOR THE EXISTING STRUCTURE(S) MAY BE OBTAINED FROM THE OFFICE SERVICES DIVISION OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION.

PHYSICAL ADDRESS:

OKLAHOMA DEPARTMENT OF TRANSPORTATION
200 N.E. 21ST STREET
OKLAHOMA CITY, OKLAHOMA, 73105
405-521-2586

CONSTRUCTION PLANS ARE AVAILABLE FOR DIGITAL DELIVERY THROUGH THE URL LISTED BELOW:
https://oklahoma.gov/odot/about/contact-us/divisions/office-services-division/plans-library.html
FOR QUESTIONS AND CONCERNS REGARDING AS-BUILT PLANS, PLEASE EMAIL: ODOT-PlansLibrary@odot.org
THE EXISTING STRUCTURE WAS ORIGINALLY CONSTRUCTED AS PART OF FEDERAL AID PROJECT NOS. U-593(13) & FAGH-593(14).

PILE DRIVING -

USE A PILE DRIVING HAMMER OF THE SIZE AND TYPE CAPABLE OF CONSISTENTLY DELIVERING THE EFFECTIVE DYNAMIC ENERGY TO DRIVE THE PILES TO THE REQUIRED TIP ELEVATION AND TO ACHIEVE AN AXIAL LOAD RESISTANCE EQUAL TO OR GREATER THAN THE FACTORED PILE REACTION WITHOUT EXCEEDING THE LIMITATIONS SET ON THE ALLOWABLE DRIVING STRESSES IN ACCORDANCE WITH SUBSECTION 514.03.A.(2) OF THE SPECIFICATIONS.

PILE CAPACITY -

THE REQUIRED PILE SIZE AND THE FACTORED PILE REACTION ARE SHOWN IN THE PLANS WITH THE FOUNDATION DATA. THE FOLLOWING FORMULA (GATES EQUATION) WILL BE USED TO DETERMINE THE AXIAL LOAD RESISTANCE OF THE DRIVEN FOUNDATION PILES:

AXIAL LOAD RESISTANCE = PHI \* [SQRT (E)] \* 0.875 \* LG (10 \* N) - 50] (TONS)

WHERE: PHI = RESISTANCE FACTOR OF 0.4

E = ENERGY PRODUCED BY THE HAMMER PER BLOW IN FOOT-POUNDS. FOR GRAVITY AND SINGLE ACTING DIESEL HAMMERS, THE VALUE IS BASED ON THE ACTUAL RAM STROKE OBSERVED IN THE FIELD AND MEASURED IN FEET MULTIPLIED BY THE RAM WEIGHT IN POUNDS.

N = AVERAGE NUMBER OF HAMMER BLOWS PER INCH OF PILE PENETRATION FOR THE LAST 10 TO 20 BLOWS DELIVERED TO THE PILE HEAD.

SQRT = SQUARE ROOT

LG = LOGARITHM TO THE BASE 10

THE ABOVE FORMULA IS ONLY APPLICABLE WHEN CERTAIN CONDITIONS APPLY: THE PILE DRIVING HAMMER HAS A FREE FALL (GRAVITY & SINGLE ACTING HAMMERS ONLY); THE HEAD OF THE PILE IS NOT BROOMED, CRUSHED OR OTHERWISE DAMAGED; THE PENETRATION IS QUICK AND UNIFORM; THERE IS NO APPRECIABLE REBOUND OF THE HAMMER; AND A FOLLOWER IS NOT USED.

THE NUMBER OF BLOWS PER INCH OF PILE PENETRATION MAY BE MEASURED EITHER DURING INITIAL DRIVING OR BY RE-DRIVING WITH A WARM HAMMER OPERATED AT FULL ENERGY AFTER A PILE SET PERIOD, AS DETERMINED BY THE ENGINEER.

IF WATER JETS ARE USED IN CONNECTION WITH THE DRIVING, DETERMINE THE AXIAL LOAD RESISTANCE BY THE FORMULA SHOWN ONLY AFTER THE JETS HAVE BEEN WITHDRAWN.

CONCRETE -

PROVIDE ALL PEDESTAL CONCRETE EDGES WITH A 3/4" CHAMFER. PROVIDE ALL OTHER EXPOSED CONCRETE EDGES OF THE SUBSTRUCTURE WITH A 1 1/2" CHAMFER UNLESS OTHERWISE SHOWN OR NOTED. PROVIDE ALL EXPOSED CONCRETE EDGES OF THE SUPERSTRUCTURE WITH A 3/4" CHAMFER UNLESS OTHERWISE SHOWN OR NOTED. USE SIZED LUMBER FOR ALL CHAMFER STRIPS.

PEDESTRIAN BRIDGE SUPERSTRUCTURE -

PROVIDE AND INSTALL PEDESTRIAN BRIDGE SUPERSTRUCTURE IN ACCORDANCE WITH CONTRACT DOCUMENTS TO FURNISH A FUNCTIONALLY COMPLETE BRIDGE UPON COMPLETION. SELECT A SUPERSTRUCTURE SYSTEM AND SUPPLIER APPROVED BY THE BRIDGE ENGINEER. PROVIDE ALL CONTACT AND COORDINATION WITH THE SELECTED SUPPLIER ON THE DEPARTMENT'S BEHALF.

FURNISH SUPERSTRUCTURE DESIGN IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, AND THE 2009 LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF OKLAHOMA. SUBMIT DESIGN CALCULATIONS AND WORKING DRAWINGS TO THE BRIDGE ENGINEER FOR APPROVAL. DO NOT BEGIN FABRICATION UNTIL APPROVAL BY THE ENGINEER IS RECEIVED. ADDITIONAL WEIGHT OF ATTACHED SIGNAGE TO BE ACCOUNTED FOR IN DESIGN OF SUPERSTRUCTURE.

ENSURE THE SUBSTRUCTURE DETAILED IN THE PLANS CONFORMS AND CONNECTS TO THE SELECTED SUPERSTRUCTURE, INCLUDING ANY FIELD VERIFICATION AND/OR SURVEYING/STAKING. PROVIDE A WRITTEN SUMMARY TO THE ENGINEER OF ALL PROPOSED ADJUSTMENTS NECESSARY TO PROVIDE FOR PROPER FIT BETWEEN THE SELECTED SUPERSTRUCTURE AND SUBSTRUCTURE. DO NOT BEGIN SUBSTRUCTURE CONSTRUCTION UNTIL APPROVAL BY THE ENGINEER IS RECEIVED. PERFORM ALL MODIFICATIONS TO THE SUPERSTRUCTURE AND SUBSTRUCTURE AT NO ADDITIONAL COST TO THE DEPARTMENT, INCLUDING ANY NECESSARY CHANGES RESULTING FROM AS-BUILT CONDITIONS FOLLOWING SUBSTRUCTURE CONSTRUCTION.

SUBMIT ERECTION AND FALSEWORK DRAWINGS IN ACCORDANCE WITH SUBSECTION 502.04 OF THE SPECIFICATIONS TO THE ENGINEER FOR APPROVAL. DO NOT BEGIN ANY LIFTING AND ERECTION OPERATIONS UNTIL APPROVAL BY THE ENGINEER IS RECEIVED. PROVIDE LIFTING WEIGHTS, ATTACHMENT POINTS AND ALL OTHER NECESSARY INFORMATION AS PRESCRIBED BY THE SUPPLIER ON THE DRAWINGS. EXERCISE CARE TO ENSURE THAT NO DAMAGE IS CAUSED TO TRAFFIC DURING ERECTION.

DECK SLAB -

IN THE EVENT OF AN EMERGENCY, HALT THE PLACEMENT OF CONCRETE BY FORMING A CONSTRUCTION JOINT MADE PERPENDICULAR TO THE DIRECTION OF TRAFFIC OR AS DIRECTED BY THE ENGINEER. DO NOT PLACE ANY HEAVY EQUIPMENT ON THE FINISHED DECK SLAB WITHIN 5 FEET OF ANY CONSTRUCTION JOINT UNTIL CONCRETE IS IN PLACE ON BOTH SIDES OF THE RESPECTIVE JOINT AND AT LEAST 48 HOURS HAS ELAPSED SINCE CONCRETE PLACEMENT.

STAY-IN-PLACE DECK FORMS -

THE CONTRACTOR MAY USE STAY-IN-PLACE STEEL DECK FORMS. THE DEPARTMENT CONSIDERS ALL COSTS OF STAY-IN-PLACE STEEL DECK FORMS TO BE INCLUDED IN THE CONTRACT UNIT PRICE OF (PL) INSTALLATION OF BRIDGE ITEMS. STAY-IN-PLACE PRESTRESSED CONCRETE DECK FORMS WILL NOT BE ALLOWED.

SOFTWARE -

THE FOLLOWING COMPUTER SOFTWARE WAS USED IN THE ANALYSIS AND DESIGN OF THE STRUCTURE(S) DETAILED IN THE PLANS:
(1) SMART BRIDGE TECH CULVERT BRIDGE SUITE (VERSION 1.1, BUILD: 1960, 2017)
(2) WHITE ENGINEERING ASSOCIATES, INC. ABUTMENT/RETAINING WALL DESIGN (VERSION 2.00, 10-19-07)

PAY ITEM NOTES

- (BR-1) PAYMENT TO THE CONTRACTOR WILL BE BASED ON PLAN QUANTITIES.
(BR-2) PLACE CLSM BACKFILL BETWEEN NEW R.C.B. BARREL AND WINGS OF EXISTING R.C.B. IN LIFTS NOT EXCEEDING 4'-0" IN DEPTH. QUANTITY SHOWN IS FOR BIDDING PURPOSES ONLY. ACTUAL QUANTITY TO BE DETERMINED IN THE FIELD.
(BR-3) THE CONTRACTOR MAY PLACE CONCRETE AGAINST THE LIMITS OF EXCAVATION IF THE MATERIAL IS EXCAVATED TO THE NEAT LINES OF THE SUBSTRUCTURE AND APPROVED BY THE ENGINEER. IF NECESSARY, USE FORMS AT VERTICAL FACES AND REMOVE THE FORMS AFTER CONCRETE HARDENS. IF THE CONTRACTOR CHOOSES TO PLACE CONCRETE AGAINST THE SOIL, THE DEPARTMENT WILL PAY FOR SUBSTRUCTURE EXCAVATION COMMON IN ACCORDANCE WITH THE DIAGRAMS SHOWN IN THE PLANS.
(BR-4) PAYMENT TO THE CONTRACTOR WILL BE BASED ON PLAN QUANTITIES UNLESS ADDITIONAL PILING LENGTH IS REQUIRED. ADDITIONAL PILES, FURNISHED, AS AUTHORIZED BY THE ENGINEER, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE.
(BR-5) ITEM "(PL) INSTALLATION OF BRIDGE ITEMS" CONSISTS OF PROVIDING AND INSTALLING PEDESTRIAN BRIDGE SUPERSTRUCTURE IN GENERAL ACCORDANCE WITH THE PLANS AND IN A MANNER APPROVED BY THE ENGINEER. SELECT THE SUPERSTRUCTURE SUPPLIER AND SYSTEM FOR USE. PAINT ALL EXPOSED SURFACES OF THE STEEL TRUSS MEMBERS IN ACCORDANCE WITH SECTION 512 OF THE SPECIFICATIONS USING A CATEGORY "N" APPLICATION. BLAST-CLEAN SURFACES TO BE PAINTED TO THE REQUIREMENTS OF SSPC-SP6. PROVIDE #XXXXX OP/COAT, FEDERAL STANDARD 595B, COLOR #XXXXX. INCLUDE ALL COSTS OF FABRICATION, PAINTING, DELIVERY, ERECTION, FALSEWORK, ENGINEERING SERVICES, CONCRETE DECK, AND FENCING IN THE CONTRACT UNIT PRICE OF "(PL) INSTALLATION OF BRIDGE ITEMS".
(BR-6) INCLUDE THE COST OF PIPE UNDERDRAIN COVER MATERIAL (BOTH FILTER SAND AND COARSE) AND FILTER FABRIC IN THE CONTRACT UNIT PRICE OF "6" PERFORATED PIPE UNDERDRAIN ROUND". INSTALL AS SHOWN IN THE PLANS AND ON STD. PUD-4.
(BR-7) THE ENGINEER MAY ADJUST THE EXTENT, LOCATION AND DEPTH OF NON-PERFORATED PIPE UNDERDRAIN DURING CONSTRUCTION. INCLUDE THE COST OF TRENCH EXCAVATION AND STANDARD BEDDING MATERIAL IN THE CONTRACT UNIT PRICE OF "6" NON-PERF. PIPE UNDERDRAIN RND". INSTALL AS SHOWN IN THE PLANS AND ON STD. PUD-4.
(BR-8) ITEM "REMOVAL OF EXISTING BRIDGE STRUCTURE" CONSISTS OF REMOVING AND DISPOSING OF THE SUPERSTRUCTURE AND SUBSTRUCTURE OF THE EXISTING BRIDGE IN ACCORDANCE WITH SUBSECTION 619.04.B OF THE SPECIFICATIONS AND APPROVED BY THE ENGINEER. ALL REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE EXISTING BRIDGE IS ARE DESCRIBED AS 46'-46' CONCRETE SLAB SPANS WITH 15' CLEAR ROADWAY.
(BR-9) ITEM "SPECIAL SIGNS" CONSISTS OF PROVIDING AND INSTALLING LETTERING SIGN PANELS TO THE PEDESTRIAN BRIDGE SUPERSTRUCTURE AS SHOWN IN THE PLANS. INCLUDE ALL COST FOR MOUNTING HARDWARE IN THE CONTRACT UNIT PRICE FOR "SPECIAL SIGNS".

FINAL REVIEW PLANS

OCTOBER 2023

Table with 4 columns: ITEM NO., ITEM, UNIT, TOTAL. Title: PAY QUANTITIES. Project: U.S.69 OVER COODY CREEK. Items include UNCLASSIFIED EXCAVATION, STRUCTURAL EXCAVATION UNCLASSIFIED, CLSM BACKFILL, CLASS AA CONCRETE, and REINFORCING STEEL.

Table with 4 columns: ITEM NO., ITEM, UNIT, TOTAL. Title: PAY QUANTITIES. Project: CENTENNIAL TRAIL OVER U.S.69. Items include SUBSTRUCTURE EXCAVATION COMMON, GRANULAR BACKFILL, CLASS A CONCRETE, SLOPE WALL (5"), REINFORCING STEEL, PILES, FURNISHED (HP 10x42), PILES, DRIVEN (HP 10x42), PILE SPLICE, H-PILE (NON-BIDDABLE), (PL)INSTALLATION OF BRIDGE ITEMS, 6" PERFORATED PIPE UNDERDRAIN ROUND, 6" NON-PERF. PIPE UNDERDRAIN RND., and REMOVAL OF EXISTING BRIDGE STRUCTURE.

Table with 4 columns: ITEM NO., ITEM, UNIT, TOTAL. Title: PAY QUANTITIES. Project: 0900 NON-PARTICIPATING ITEMS. Item: SPECIAL SIGNS.

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Summary of Pay Quantities and General Notes (Bridge). Includes project details, design/ceg, detail/dr, and check/afw information. State of Oklahoma Department of Transportation logo and sheet information.

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\$\$\$\$DATE\$\$\$

**FINAL FIELD  
MEETING**  
\$\$\$\$DATE\$\$\$

**ENVIRONMENTAL MITIGATION NOTES**

SWALLOW PLAN NOTE FOR BRIDGE REPLACEMENT PROJECTS:

**ENVIRONMENTAL MITIGATION NOTES**

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Time of Plot: 11/21/2023 4:00 PM Plot Size: -HUB-HALF.CTB  
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DESIGN	WS	12/19	OKLAHOMA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION
DRAWN	RR	12/19	
CHECKED	WS	12/19	
APPROVED			
SQUAD		ENGINEERS	
COUNTY MUSKOGEE HIGHWAY U.S. 69 STATE JOB NO. 27108(04) SHEET NO. AE01			<b>ENVIRONMENTAL NOTES</b>

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**FINAL FIELD MEETING**  
November 2023

JP27108(04) 0100 SUMMARY OF PAY QUANTITIES (ROADWAY)				
ITEM NUMBER	DESCRIPTION		UNIT	QUANTITY
201(A)1200	CLEARING AND GRUBBING	(R-1)(R-2)	LSUM	1.00
202(A)2200	UNCLASSIFIED EXCAVATION	(R-1)(2)	CY	64230.00
205(A)6200	TYPE A-SALVAGED TOPSOIL	(R-4)(R-6)	LSUM	1.00
221(B)2300	TEMPORARY SILT FENCE	(R-8)	LF	5970.00
221(C)2410	REINFORCED SILT FENCE	(R-8)	LF	2880.00
221(E)2600	TEMPORARY SILT DIKE	(R-8)	LF	1175.00
221(H)2900	(PL)TEMPORARY INLET SEDIMENT FILTER	(R-8)	EA	35.00
230(A)7200	SOLID SLAB SODDING	(R-6)(R-7)	SY	24096.00
233(A)0200	VEGETATIVE MULCHING	(R-11)	AC	30.00
241 3100	MOWING	(R-15)	AC	30.00
303(A)1200	AGGREGATE BASE TYPE A	(R-16)(1)	CY	33483.00
317 7100	CEMENT TREATED BASE		SY	141679.00
325 0100	SEPARATOR FABRIC		SY	173391.00
402(E)2600	TRAFFIC BOUND SURFACE COURSE TYPE E	(R-20)	TON	25528.00
408 8100	PRIME COAT	(R-23)	GAL	93730.00
414(A)5200	P.C.CONCRETE PAVEMENT(PLACEMENT)		SY	32060.00
414(B)5300	DOWEL JOINTED P.C.C. PAVT.,(PLACEMENT)		SY	105987.00
414(G)5800	P.C.CONCRETE FOR PAVEMENT		CY	46515.90
501(A)1200	STRUCTURAL EXCAVATION UNCLASSIFIED		CY	12.00
509(A)0200	CLASS AA CONCRETE		CY	223.00
509(D)0500	CLASS C CONCRETE	(R-33)	CY	39.00
510(C)1420	SLOPE WALL (4")		SY	300.00
510(D)1510	MSE RETAINING WALL		SY	604.50
511(B)2300	EPOXY COATED REINFORCING STEEL		LB	26488.00
601(B) 1220	TYPE 1-A PLAIN RIPRAP		TON	80.00
601(C) 1300	TYPE 1-A FILTER BLANKET		TON	20.00
609(A)4230	CONC. CURB(6" BARRIER-INTEGRAL)		LF	7722.00
610(A)5200	4" CONCRETE SIDEWALK		SY	5207.00
610(B)5300	6" CONC. DRIVE (H.E.S.)		SY	11962.00
610(B)5320	8" CONC. DRIVE		SY	1180.00
610(C)5430	DECORATIVE MEDIAN CONCRETE		SY	2347.00
611(A)7210	MANHOLE (4' DIA.)	(R-35)	EA	1.00
611(A)7215	MANHOLE (5' DIA.)	(R-35)	EA	2.00
611(A)7230	MANHOLE (8' DIA.)	(R-35)	EA	3.00
611(B)7320	ADD'L DEPTH IN MANHOLE (8' DIA.)	(R-35)	VF	7.00
611(G)0354	INLET (SMD-TYPE 2)	(R-35)	EA	12.00
611(G)0358	INLET (SMD-TYPE 2A)	(R-35)	EA	4.00
611(G)0610	PRECAST INLET PJB 6' WIDE (DES. 2 STD)	(R-34)	EA	5.00
611(G)0614	PRECAST INLET PJB 6' WIDE (DES. 2 B)	(R-34)	EA	14.00
611(G)0622	PRECAST INLET PJB 6' WIDE (DES. 2 D)	(R-34)	EA	1.00
611(G)0630	PRECAST INLET PJB 6' WIDE (DES. 2 2C)	(R-34)	EA	1.00
611(G)0638	PRECAST INLET PJB 6' WIDE (DES. 2 2D)	(R-34)	EA	1.00
611(G)0650	PRECAST INLET PJB 6' WIDE (DES. 3 D)	(R-34)	EA	1.00
611(G)7700	SPECIAL INLET DESIGN	(R-34)	EA	7.00
611(G)7864	PRECAST INLET CI DES. 2 (STD)	(R-34)	EA	2.00
611(G)7868	PRECAST INLET CI DES. 2 (B)	(R-34)	EA	6.00
611(G)7888	PRECAST INLET CI DES. 2 (2C)	(R-34)	EA	2.00
611(G)7892	PRECAST INLET CI DES. 2 (2D)	(R-34)	EA	1.00
611(G)7900	PRECAST INLET CI DES. 3 (B)	(R-34)	EA	1.00
611(G)9020	INLET CDI RCP (DES. 6)		EA	1.00
611(H)0414	ADD'L DEPTH IN INLET CI DES. 2		VF	19.00
611(H)0458	ADD'L DEPTH IN PRECAST INLET PJB 6' WIDE		VF	66.00
611(L)1610	SPECIAL JUNCTION BOXES	(R-35)	EA	4.00
613(A)5204	15" R.C.PIPE CLASS III	(3)	LF	288.00
613(A)5208	18" R.C.PIPE CLASS III	(3)	LF	1791.00
613(A)5216	24" R.C.PIPE CLASS III	(3)	LF	450.00
613(A)5220	30" R.C.PIPE CLASS III	(3)	LF	132.00
613(A)5224	36" R.C.PIPE CLASS III	(3)	LF	1129.00
613(A)5228	42" R.C.PIPE CLASS III	(3)	LF	1082.00
613(A)5232	48" R.C.PIPE CLASS III	(3)	LF	1290.00
613(A)5400	14" X 23" R.C.PIPE ELL. CLASS HE-III	(3)	LF	90.00
613(B)5600	17" X 13" CORR. GALV. STEEL PIPE ARCH	(3)	LF	144.00
613(B)5604	21" X 15" CORR. GALV. STEEL PIPE ARCH	(3)	LF	160.00
613(B)5612	28" X 20" CORR. GALV. STEEL PIPE ARCH	(3)	LF	214.00
613(B)5616	35" X 24" CORR. GALV. STEEL PIPE ARCH	(3)	LF	58.00
613(B)5620	42" X 29" CORR. GALV. STEEL PIPE ARCH	(3)	LF	56.00
613(B)5624	49" X 33" CORR. GALV. STEEL PIPE ARCH	(3)	LF	66.00
613(J)6400	EDGE DRAIN CONDUIT-PERFORATED	(4)	LF	7570.00
613(K)6500	EDGE DRAIN OUTLET LATERAL-NONPERFORATED	(4)	LF	720.00
613(L)6608	21" X 15" PREFAB. CULVERT END SEC., ARCH	(3)	EA	6.00
613(L)6624	28" X 20" PREFAB. CULVERT END SEC., ARCH	(3)	EA	8.00
613(L)6632	35" X 24" PREFAB. CULVERT END SEC., ARCH	(3)	EA	2.00
613(L)6644	42" X 29" PREFAB. CULVERT END SEC., ARCH	(3)	EA	2.00
613(L)6652	49" X 33" PREFAB. CULVERT END SEC., ARCH	(3)	EA	2.00
613(L)6708	18" PREFAB. CULVERT END SEC., ROUND	(3)	EA	24.00
613(L)6716	24" PREFAB. CULVERT END SEC., ROUND	(3)	EA	2.00
613(L)6724	30" PREFAB. CULVERT END SEC., ROUND	(3)	EA	2.00
613(L)6728	36" PREFAB. CULVERT END SEC., ROUND	(3)	EA	2.00
613(M)6960	TYPE A4 CULVERT END TREATMENT		EA	18.00
613(V)8000	TRENCH EXCAVATION UNCLASSIFIED		CY	3840.00
619(A)6200	REMOVAL OF STRUCTURES & OBSTRUCTIONS	(R-39),(R-40)(R-41)	LSUM	1.00
619(B)6300	REMOVAL OF HEADWALL		EA	10.00
619(B)6360	REMOVAL OF CONCRETE PAVEMENT	(R-39),(R-40)(R-41)	SY	25528.00
619(B)6376	REMOVAL OF CONC.PAV.W/ASPH.OVERLAY	(R-39),(R-40)(R-41)	SY	70485.00

JP27108(04) 0100 SUMMARY OF PAY QUANTITIES (ROADWAY CONT.)				
ITEM NUMBER	DESCRIPTION		UNIT	QUANTITY
619(B)6380	REMOVAL OF CONCRETE DRIVEWAY	(R-39),(R-40)(R-41)	SY	10869.00
619(B)6384	REMOVAL OF ASPHALT DRIVEWAY	(R-39),(R-40)(R-41)	SY	2251.00
619(B)6386	REMOVAL OF GRAVEL DRIVEWAY	(R-39),(R-40)(R-41)	SY	1079.00
619(C)6600	SAWING PAVEMENT		LF	13195.00
624 3100	(PL) ORNAMENTAL FENCE	(R-43)	LF	913.00
624 3110	(PL) WOOD PRIVACY FENCE	(R-43)	LF	298.00
624(A)3 200	FENCE-STYLE WWF	(R-43)	LF	1004.00
624(C)3400	FENCE-STYLE SWF (4 BARBED WIRE)	(R-43)	LF	600.00
624(C)3405	FENCE-STYLE SWF (5 BARBED WIRE)	(R-43)	LF	1108.00
624(C)3410	FENCE-STYLE SWF (6 BARBED WIRE)	(R-43)	LF	298.00
624(E)3600	FENCE-STYLE CLF (4'HIGH, CLASS A)	(R-43)	LF	935.00
624(E)3610	FENCE-STYLE CLF (5'HIGH, CLASS A)	(R-43)	LF	1014.00
624(E)3620	FENCE-STYLE CLF (6'HIGH, CLASS A)	(R-43)	LF	455.00
626(A)5 210	REMOVE AND RESET MONUMENT	(6)	EA	1.00
629(A)7200	MAILBOX INSTALLATION-SINGLE		EA	10.00

JP27108(04) 600 SUMMARY OF PAY QUANTITIES (STAKING)				
ITEM NUMBER	DESCRIPTION	ITEM NOTES	UNIT	QUANTITY
642(B)3 300	CONSTRUCTION STAKING LEVEL II	(5)	LSUM	1.00

JP27108(04) 0640 SUMMARY OF PAY QUANTITIES (CONSTRUCTION)				
ITEM NUMBER	DESCRIPTION	ITEM NOTES	UNIT	QUANTITY
220 1100	SWPPP DOCUMENTATION AND MANAGEMENT		LSUM	1.00
640(A)1 210	FIELD OFFICE		EA	1.00
641 2110	MOBILIZATION		LSUM	1.00

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DESIGN	WS	12/19	OKLAHOMA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION
DRAWN	RR	12/19	
CHECKED	WS	12/19	
APPROVED			
SQUAD		ENGINEERS	
COUNTY	MUSKOGEE	HIGHWAY U.S.69 STATE JOB NO. 27108(04) SHEET NO AR01	

**SUMMARY OF PAY QUANTITIES (ROADWAY)**



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November 2023

**FINAL FIELD  
MEETING**  
November 2023

GENERAL CONSTRUCTION NOTES

IN ACCORDANCE WITH THE OKLAHOMA UNDERGROUND FACILITIES DAMAGE PREVENTION ACT THE CONTRACTOR SHALL NOTIFY THE OKLAHOMA ONE-CALL SYSTEM, INC. 48 HOURS PRIOR TO BEGINNING EXCAVATION. OKLAHOMA ONE-CALL SYSTEM, INC. "CALL OKIE" 1-800-522-6543 OR 811.

THIS PROJECT SHALL BE CONSTRUCTED WITHOUT CLOSING THE EXISTING ROAD TO LOCAL AND THROUGH TRAFFIC. SEE STANDARD SPECIFICATIONS FOR MAINTENANCE OF LOCAL AND THROUGH TRAFFIC.

MAINTENANCE OF THROUGH TRAFFIC INCLUDES THE MAINTENANCE OF THE EXISTING ROAD IN CLOSE PROXIMITY TO THE NEW CONSTRUCTION AS SHOWN ON THE PLANS.

THIS PROJECT SHALL BE CONSTRUCTED WITHOUT CLOSING THE EXISTING SECTION LINE ROADS TO LOCAL AND THROUGH TRAFFIC. SEE STANDARD SPECIFICATIONS FOR MAINTENANCE OF LOCAL AND THROUGH TRAFFIC.

FOR PROJECTS THAT INCLUDE WIDENING AND/OR RESURFACING, THE CONTRACTOR SHALL SCHEDULE OPERATIONS TO MINIMIZE POTENTIAL DROP-OFF HAZARDS AND SHALL SUBMIT A SEQUENCE OF CONSTRUCTION OPERATIONS TO THE RESIDENT ENGINEER FOR APPROVAL BEFORE OPERATIONS BEGIN. ANY PORTION OF THE CONSTRUCTION OPERATIONS, SUCH AS SUPERPAVE LAYING OPERATIONS, EXCAVATION FOR PAVEMENT WIDENING, OR EXTENSION OF ROADWAY STRUCTURES, SHALL BE LIMITED TO ONE SIDE AT A TIME, AND THE PROCEDURES OUTLINED IN THE PAVEMENT DROP-OFF TREATMENT STANDARD PDT-2 (LATEST REVISION) SHALL BE IMPLEMENTED. ONLY THAT AMOUNT OF OPEN TRENCH WILL BE ALLOWED THAT CAN BE SURFACED IN 1 (ONE) DAY'S TIME WITHOUT APPROVAL BY THE ENGINEER. LIGHTS, SIGNS AND BARRICADES SHALL BE MOVED AS WORK PROGRESSES.

ALL TREES, BRUSH, AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER SHALL BE CLEANED OUT TO THE RIGHT-OF-WAY LINE, AT EACH STRUCTURE AND BRIDGE, IN A MANNER APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY RIGHT-OF-WAY FENCE AS REQUIRED. WHEN THE PORTION OF THE PROJECT THAT REQUIRED THIS FENCE IS COMPLETED, THE TEMPORARY FENCE SHALL BE REMOVED, AND PERMANENT RIGHT-OF-WAY FENCING SHALL BE RESTORED OR INSTALLED IN A MANNER APPROVED BY THE ENGINEER. ALL COST OF TEMPORARY FENCING SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

ALL FLOWLINES THAT ARE TO BE FILLED SHALL BE THOROUGHLY TAMPED BEFORE CONSTRUCTION OR EXTENSION OF DRAINAGE STRUCTURES. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

IN ORDER TO ALLEVIATE DUST CONDITIONS DURING GRADING OPERATIONS AND BEFORE PAVEMENT WORK IS COMPLETED, THE CONTRACTOR SHALL SPRINKLE GRADING AT INTERVALS APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

THE CONTRACTOR SHALL NOT WASTE ANY EXCESS EXCAVATION UNTIL ALL PLANNED EMBANKMENTS AND BACKFILLS ARE COMPLETED. EXCESS UNCLASSIFIED EXCAVATION MATERIAL DETERMINED BY THE ENGINEER TO BE SUITABLE FOR BACKFILL SHALL BE USED TO REDUCE ANY UNCLASSIFIED BORROW NEEDED. COST OF SECOND HANDLING SHALL BE INCLUDED IN OTHER ITEMS OF WORK. ANY REMAINING EXCESS EXCAVATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

PRIME COAT SHALL BE APPLIED TO THE SUBGRADE IMMEDIATELY AFTER FINAL COMPACTION AND SHAPING TO RETAIN MOISTURE FOR PROPER CHEMICAL REACTION OF THE SOIL ADDITIVE.

THE CONTRACTOR SHALL KEEP THE OPEN TRENCH DRAINED. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

VEGETATIVE MULCHING: THE VEGETATIVE MULCH SHALL BE ANCHORED IN ACCORDANCE WITH THE "ADHESIVE SPRAY METHOD", AS SPECIFIED IN 233.04B(1) OF THE STANDARD SPECIFICATIONS.

THE PLANTING OF MULCH SOD SHALL BE RESTRICTED TO THE PERIOD FROM MARCH TO OCTOBER.

AREAS ON WHICH SALVAGED TOPSOIL IS TO BE REPLACED SHALL HAVE 18-46-0 FERTILIZER APPLIED, AT THE RATE OF 150 POUNDS PER ACRE, JUST PRIOR TO THE REPLACEMENT OF SALVAGED TOPSOIL.

AT THE BEGINNING OF TURFING OPERATIONS, ANY AREAS INCLUDED IN PLANNED QUANTITIES THAT HAVE GROWN A SATISFACTORY VOLUNTEER TURF OF PERENNIAL GRASS, AS DETERMINED BY THE ENGINEER, SHALL BE FERTILIZED AND WATERED AS CALLED FOR ON THE PLANS, BUT SHALL NOT BE SEEDED, SODDED, OR SPRIGGED.

PIPE UNDERDRAIN QUANTITIES ESTIMATED ONLY. LOCATION, IF AND WHERE REQUIRED, TO BE DETERMINED BY THE ENGINEER.

AGGREGATE BASE ON DETOUR ROADS, REMOVED AND RELAID FOR SHOULDERS, DRIVEWAYS AND/OR RETURNS ON MAIN ROADWAY, SHALL MEET THE SPECIFICATIONS FOR "AGGREGATE BASE" WHEN RELAID. NO PLANT MIXING WILL BE REQUIRED FOR THIS MATERIAL.

BITUMINOUS SURFACING ON AGGREGATE BASE WHICH IS TO BE RELAID SHALL BE SCARIFIED AND INCORPORATED INTO THE AGGREGATE BASE MATERIAL. IN ALL OTHER RESPECTS, THE MATERIAL TO BE RELAID SHALL MEET THE SPECIFICATIONS FOR "AGGREGATE BASE".

SURFACING OF RETURNS, UNLESS OTHERWISE SHOWN ON THE PLANS, SHALL BE OF THE SAME MATERIAL (BASE AND SURFACE) AS THAT OF THE ABUTTING SHOULDER OF THE MAINLINE. BASE AND SURFACE THICKNESS SHALL BE THE THICKNESS SHOWN ON PLANS.

T.B.S.C. SURFACES SHALL BE SPRINKLED WITH WATER AND ROLLED WITH A PNEUMATIC ROLLER IN A MANNER APPROVED BY THE ENGINEER.

THE ENGINEER SHALL CHECK GRADES AT RAMP TERMINALS, AND MAKE ANY ADJUSTMENTS OF THE GRADES AND SUPERELEVATIONS, WHICH ARE REQUIRED TO OBTAIN SMOOTH PROFILES FOR BOTH EDGES OF THE RAMP PAVEMENT. CROSS SLOPE BREAKOVER SHALL NOT EXCEED 5%(FIVE PERCENT).

PRIOR TO FINAL ACCEPTANCE, ALL EXPOSED CURB SURFACES SHALL BE CLEANED OF ALL DISCOLORATION SUCH AS ASPHALT STAIN, TIRE MARKS, OR OTHER DISFIGUREMENT.

ALL FEATURES OF THIS PROJECT INCLUDING, BUT NOT LIMITED TO, PATHS, SIDEWALKS, CURB RAMPS, AND CROSSWALK MARKINGS WILL COMPLY WITH PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG), PUBLISHED JULY 26, 2011. WHERE SPECIAL LIMITATIONS OF EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH PROWAG, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURES. THE CONTRACTOR WILL NOT PROCEED WITH ANY OF THE WORK, WHICH IS NOT IN FULL COMPLIANCE WITH PROWAG, WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. ANY WORK WHICH IS NOT PERFORMED WITHIN THE GUIDELINES OF PROWAG FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

THE CROSS SLOPE FOR PATHS, SIDEWALKS, AND RAMPS WITHIN THE LIMITS OF AN ACCESSIBLE ROUTE WILL NOT EXCEED 1:50 OR 2%.

RAMP LONGITUDINAL SLOPES WILL NOT EXCEED 1:12 OR 8.33%.

THE CONTINUOUS PATH'S CROSS SLOPE WILL NOT EXCEED 2% THROUGH DRIVEWAYS. SEE DRIVEWAY DETAIL ON ODOT ROADWAY DESIGN STANDARD DRAWING WCR-4 AND SPECIAL DRIVEWAY DETAILS.

SIDEWALK AND RAMP LOCATIONS HAVE BEEN DEPICTED WITHOUT KNOWLEDGE OF ULTIMATE UTILITY STRUCTURE LOCATIONS. LOCATIONS WILL BE ADJUSTED TO AVOID ABOVE GRADE UTILITY STRUCTURES SUCH AS UTILITY POLES, RISERS, GUY ANCHORS, AND OTHER ABOVE GRADE APPURTENANCES. NO SUCH STRUCTURES WILL BE ALLOWED WITHIN THE "PEDESTRIAN ACCESS ROUTE" AS DEFINED BY PROWAG.

PAY ITEM NOTES

- (R-1) PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITY ONLY. SEE SECTION 109.01B OF THE STANDARD SPECIFICATIONS.
- (R-4) AN ESTIMATED QUANTITY OF 3500 C.Y. TOPSOIL TO BE RESERVED FOR REPLACEMENT OF APPROXIMATELY 5' ON COMPLETED FORESLOPES, DITCHES, AND BACKSLOPES. THIS QUANTITY IS INCLUDED IN THE EARTHWORK BALANCE. ANY ADDITIONAL EXCAVATION REQUIRED IN CUT SECTIONS TO ALLOW FOR PLACEMENT OF TOPSOIL TO FINAL GRADE, SHALL BE INCLUDED IN THE PRICE BID.
- (R-6) FOR ITEM 205(A) AND 230(A) PRICE BID TO INCLUDE COST OF 10-20-10 FERTILIZER, ESTIMATED AT 200 POUNDS PER 1000 SY.
- (R-7) FOR ITEM 205(A) AND 230(A) PRICE BID TO INCLUDE COST OF WATERING, ESTIMATED AT 60 GALLONS PER SY.
- (R-8) PRICE BID TO INCLUDE COST OF ALL NECESSARY MAINTENANCE, MAINTAINING DEVICE IN PROPER UPRIGHT POSITION, REMOVAL OF DEVICE, AND REMOVAL OF SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE DEVICE.
- (R-11) THE QUANTITIES ESTIMATED FOR TEMPORARY EROSION AND SEDIMENT CONTROL IS 15 ACRES.
- (R-15) QUANTITY BASED ON TWO APPLICATIONS.
- (R-16) PAYMENT FOR THIS ITEM WILL BE THE THEORETICAL CROSS SECTION MULTIPLIED BY THE INSTALLED LENGTH.
- (R-20) ESTIMATED AT 165 LBS. PER CU. FT.
- (R-23) PRIME COAT SHALL BE APPLIED AT AN ESTIMATED RATE OF 0.35 GAL. PER SQ. YD. WHEN APPLIED TO SUBGRADE, AND 0.25 GAL. PER SQ. YD. WHEN APPLIED TO AGGREGATE BASE. THE ACTUAL CUTBACK PRIME COAT REQUIRED FOR PLACEMENT OPERATIONS WILL BE DETERMINED BY THE CONTRACTOR, AND SHALL CONSIDER THE RESIDUE FROM DISTILLATION PERCENTAGE SHOWN IN SECTION 708.03 OF THE STANDARD SPECIFICATIONS.
- (R-33) QUANTITY INCLUDES AN ESTIMATED 20.6 C.Y. TO BE USED AS DIRECTED BY THE ENGINEER.
- (R-34) PRICE BID TO INCLUDE COST OF 42 - 6" BARRIER CURB HOODS.
- (R-35) THE PRECAST CONCRETE OPTION MAY BE USED INSTEAD, PER DIRECTION OF THE ENGINEER.
- (R-39) INCLUDES REMOVAL OF ALL EXISTING ROADWAY DRAINAGE STRUCTURES, HEADWALLS (UNLESS OTHERWISE SPECIFIED), INLETS, FENCES, AND OTHER STRUCTURES WITHIN THE RIGHT OF WAY.
- (R-40) TO BECOME THE PROPERTY OF AND BE DISPOSED OF BY THE CONTRACTOR IN A MANNER APPROVED BY THE ENGINEER.
- (R-41) MATERIALS REMOVED SHALL NOT BE MEASURED FOR PAYMENT UNDER SECTION 202.06 UNCLASSIFIED EXCAVATION.
- (R-43) INCLUDES 2% FOR GROUND MEASUREMENT.
- (1) EXISTING P.C. PAVEMENT MAY BE RECYCLED. PROCESSED CONCRETE AS AGGREGATE BASE SHALL MEET REQUIREMENTS AS DEFINED IN SECTION 703.01 OF THE STANDARD SPECIFICATIONS. COST INCLUDED IN OTHER ITEMS OF WORK.
- (2) QUANTITY INCLUDES 10,000 CY. ESTIMATED FOR UNDERCUTTING PURPOSES, AND 1502 CY FOR DRAINAGE STRUCTURES.
- (3) INCLUDES COST OF STANDARD BEDDING MATERIAL.
- (4) INCLUDES COST OF TRENCH EXCAVATION & STANDARD BEDDING MATERIAL.
- (5) PRICE BID SHALL INCLUDE ALL STAKING FOR ROADWAY & SIGNS.
- (6) INCLUDES REMOVAL AND RESETTING OF "STATES EARLIEST OIL REFINERY" SIGN LOCATED AT STA. 601+60.

HUB E n g i n e e r s  
 Time of Plot: 11/30/2023 1:29 PM Plot Style: MONOCHROME.STB  
 C:\2014\1400070569\DESIGN\Production\Plans\27108\_PAY\_QUANTITY (ROADWAY).dwg

DESIGN	WS	12/19	OKLAHOMA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION
DRAWN	RR	12/19	
CHECKED	WS	12/19	
APPROVED			
SQUAD		ENGINEERS	
COUNTY	MUSKOGEE	HIGHWAY U.S.-69 STATE JOB NO. 27108(04) SHEET NO. AR02	

**SUMMARY OF PAY  
QUANTITIES (ROADWAY)**

**GENERAL CONSTRUCTION NOTES**

SYMBOLS AND LEGENDS ARE DIAGRAMMATIC ONLY AND LOCATIONS SHALL BE ADJUSTED FOR EXISTING FIELD CONDITIONS, BUT NO MAJOR ALTERATIONS OR RELOCATIONS WILL BE MADE WITHOUT FIRST CONSULTING WITH THE CITY OF MUSKOGEE AT (918) 684-6330.

THIS PROJECT SHALL BE CONSTRUCTED WITHOUT CLOSING THE EXISTING ROAD TO LOCAL AND THROUGH TRAFFIC. SEE STANDARD SPECIFICATIONS FOR MAINTENANCE OF LOCAL AND THROUGH TRAFFIC.

ALL BROKEN CONCRETE, WASTE MATERIAL, AND DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF IN AN AREA APPROVED BY THE ENGINEER. NO PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE HE MAY INFLICT TO THE EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA AS A RESULT OF HIS DIGGING, TRENCHING, BORING, ETC.... PRIOR TO DIGGING NEAR THE UTILITIES, THE CONTRACTOR SHALL CALL FOR A LIST OF ALL UNDERGROUND FACILITIES REGISTERED IN THE AREA OF CONSTRUCTION LISTED WITH THE FOLLOWING AGENCIES:  
THE "OKIE" NOTIFICATION CENTER 811 OR (405)522-6543 OR WWW.CALLOKIE.COM OR THE LOCAL COUNTY CLERK'S OFFICE.

CONCRETE WASH OUT FROM THE CONCRETE TRUCK AND CLEAN UP OF CONCRETE EQUIPMENT MUST BE CAPTURED IN A PIT OR A VESSEL AND NOT ALLOWED TO BE DISCHARGED TO THE STORM SEWER.

PAINTS AND OTHER CHEMICAL MUST BE USED AND STORED IN SUCH A MANNER AS NOT TO ALLOW CHEMICALS TO BE DISCHARGED TO THE STORM SEWER, THIS INCLUDES ANY CLEAN UP WATER OR SOLVENTS.

BEST MANAGEMENT PRACTICES MUST BE USED WHERE APPROPRIATE TO PREVENT DIRT OR OTHER SEDIMENTS FROM ENTERING THE SANITARY SEWER.

**PAY QUANTITY NOTES**

(TP-1) PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITY. SEE THE 2019 SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

(TR-24) ALL TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CITY. THE CONTRACTOR SHALL NEATLY STACK SUCH REMOVED MATERIAL AT A LOCATION ON THE JOB SITE AS DIRECTED BY THE ENGINEER. THE PRICE BID SHALL INCLUDE THE REMOVAL OF ALL FOOTINGS BELOW GROUND LEVEL OR AS DIRECTED BY THE ENGINEER. FOOTINGS TO BECOME THE PROPERTY OF THE CONTRACTOR.

(TL-35) FOR ADDITIONAL INFORMATION CONCERNING THE SERVICE POLE, CONTACT THE FOLLOWING PRIOR TO INSTALLATION:  
WITH THE COMPANY OF.....OG&E  
COMPANY'S/CITY'S TELEPHONE NO.....800-272-9741.

- (1) POLYMER CONCRETE PULL BOXES SHALL BE USED.
- (2) THE HAND HOLES AT THE BASE OF THE POLES SHALL BE PLACED AT 135 DEGREES CLOCKWISE FROM THE MAST ARMS IN ORDER TO AVOID CONFLICTS WITH THE PEDESTRIAN PUSH BUTTONS AND SIGNS BEING INSTALLED ON THIS PROJECT.
- (3) THIS PAY ITEM IS TO BRING POWER TO THE CONTROLLER CABINET FROM THE SERVICE POLE.
- (4) THE CONTROLLER(S) TO BE FURNISHED ON THIS PROJECT SHALL BE VEHICLE ACTUATED SOLID STATE DIGITAL ECONOLITE CONTROLLERS AND HAVE A NATURAL ALUMINUM FINISH CABINET WITH VOLUME DENSITY FEATURES. THE CONTRACTOR SHALL FURNISH THE CONTROLLER(S) AND MOUNTING FRAMES AT THE INTERSECTIONS OF S. 32ND STREET WITH HANCOCK ST., BORDER AVE. AND ARLINE STREETS. THESE CONTROLLERS SHALL BE 8 PHASE WITH ALL RED CONFLICT AND USER FLASH.

THE CONTROLLER(S) WITH 2P - 4P CAPABILITY SHALL BE FURNISHED WITH 8 LOAD RECEPTACLE BAYS. CONTROLLER(S) WITH 5P - 8P CAPABILITY SHALL BE FURNISHED WITH 16 LOAD SWITCH RECEPTACLE BAYS. ALL CORRESPONDING RECEPTACLE WIRING IN THE CABINET AND FIELD WIRING SHALL BE INSTALLED FOR THE CONTROLLER AS REQUIRED EXCEPT FOR ADDITIONAL DETECTOR CONNECTING CABLES WHEN THE CONTROLLER IS EXPANDED. THE CONTROLLER(S) SHALL BE CAPABLE OF PERFORMING AS SHOWN ON PHASE & SEQUENCE DIAGRAMS. PEDESTRIAN ISOLATION SHALL BE PROVIDED IN THE CONTROLLER CABINET. ALL N.E.M.A. FUNCTIONS SHALL TERMINATE IN THE CONTROLLER CABINET.

CABINET SHALL HAVE A 120V RECEPTACLE INSTALLED INSIDE OF THE CABINET IN ADDITION TO OR IN LIEU OF A RECEPTACLE INSTALLED ON THE DOOR. ALSO, ALL CABINETS THAT ARE TO BE INSTALLED IN A SIGNAL INTERCONNECT SYSTEM SHALL HAVE A PULL- OUT COMPUTER SHELF AND DRAWER INSTALLED FOR LAPTOP USE AT THE CONTROLLER CABINET.

(5) CONTROLLERS SHALL BE EQUIPPED WITH TESCO CONTROLS, INC. CONTINUOUS POWER UNIT. THIS UNIT SHALL PROVIDE 400 WATTS OF CONTINUOUS POWER FOR A MINIMUM OF 8 HOURS. THIS UNIT SHALL ALSO INCLUDE BATTERIES, CABINET, WIRING AND PAD IF NECESSARY. THIS POWER UNIT SHALL INCLUDE AN INTERCHANGEABLE HARD DISK THAT IS CAPABLE OF STORING AND RETRIEVING ALL ACTIVITY DATA, SUCH AS TIME, DATE, AND DURATION OF EVENTS. ALSO THE SURGE PROTECTORS TO BE SUPPLIED ON THIS PROJECT FOR THE TRAFFIC SIGNALS SHALL BE INNOVATIVE TECHNOLOGY, INC. SURGE PROTECTORS, MODEL NO. HS-P-SP-120A-60A-RJ, OR APPROVED EQUAL.

(6) THIS PROJECT INVOLVES THE INSTALLATION OF A VIDEO VEHICLE DETECTION SYSTEM FOR THREE (3) INTERSECTIONS. THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING EQUIPMENT AT EACH INTERSECTION:

A. AN ECONOLITE AUTOSCOPE SOLO TERRA 8 CHANNEL PROCESSOR (OR APPROVED EQUAL) VEHICLE DETECTION SYSTEM UNIT INCLUDING A LAPTOP COMPUTER WITH ALL NECESSARY CABLES, HARNESSES, MATERIALS, FITTINGS AND MISCELLANEOUS COMPONENTS NECESSARY TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM AT THREE (3) INTERSECTIONS ON THIS PROJECT. THE MINIMUM SPECIFICATIONS FOR THE COMPUTER SYSTEM - INTEL 4TH GENERATION CORE I7 2.3 GHZ PROCESSOR, 16 GB RAM, 1 TB HARD DRIVE, DIGITAL MEDIA READER AND USB 2.0 PORTS.

B. FOUR (4) CAMERA(S) AT EACH INTERSECTION WITH ZOOM LENSE CAPABILITY AND CAN DETECT THE AREAS SHOWN ON THE PLANS AT EACH APPROACH.

C. HARNESSES TO CONNECT AND OPERATE THE NEW SYSTEM IN THE LOCAL MAINTAINING AGENCY OFFICE.

**PAY QUANTITIES**

ITEM	DESCRIPTION	UNIT	HANCOCK	BORDER	ARLINE	TOTAL
802(B) 8342	2" PVC SCH. 40 PLASTIC CONDUIT TRENCHED (TP-1)	LF	260.00	200.00	200.00	660.00
802(B) 8344	3" PVC SCH. 40 PLASTIC CONDUIT BORED (TP-1)	LF	370.00	375.00	290.00	1035.00
802(B) 8346	3" PVC SCH. 40 PLASTIC CONDUIT TRENCHED (TP-1)	LF	60.00	60.00	60.00	180.00
803(A) 8065	PULL BOX (SIZE I)	(1) EA	3.00	3.00	3.00	9.00
803(A) 8066	PULL BOX (SIZE II)	(1) EA	1.00	1.00	1.00	3.00
804(A) 2915	STRUCTURAL CONCRETE (TP-1)	CY	19.80	21.40	24.80	66.00
804(B) 2916	REINFORCING STEEL (TP-1)	LB	2855.20	3121.80	3562.00	9539.00
805(A) 8726	(PL) REMOVAL OF TRAFFIC SIGNAL EQUIPMENT (TR-24)	LSUM	1.00	1.00	1.00	1.00
806(A) 8311	32' MH POLE 35' TS & 10' LMA (G.STL.) (2,13)	EA	1.00	1.00		2.00
806(A) 8312	32' MH POLE 40' TS & 10' LMA (G.STL.) (2,13)	EA		1.00		1.00
806(A) 8313	32' MH POLE 45' TS & 10' LMA (G.STL.) (2,13)	EA	2.00	1.00		3.00
806(A) 8314	32' MH POLE 50' TS & 10' LMA (G.STL.) (2,13)	EA			1.00	1.00
806(A) 8350	32' MH POLE, 30' TS & 10' LMA (G.STL.) (2,13)	EA			1.00	1.00
806(A) 8353	32' MH POLE, 55' TS & 10' LMA (G.STL.) (2,13)	EA			1.00	1.00
806(A) 8728	POLE & 30' TS MST. ARM (G.STL.) (2,13)	EA	1.00	1.00	1.00	3.00
806(B) 8894	10' MTG. HT. TS PED. POLE (G.STL.)	EA		2.00	4.00	6.00
809(A) 8090	ROADWAY LUMINAIRE	EA	3.00	3.00	3.00	9.00
810(A) 3118	SERVICE POLE (TL-35)	EA	1.00	1.00	1.00	3.00
811 8040	1/C NO. 6 ELECTRICAL CONDUCTOR (TP-1)(3)	LF	200.00	200.00	200.00	600.00
811 8044	1/C NO. 10 ELECTRICAL CONDUCTOR (TP-1)	LF	2200.00	2080.00	1895.00	6175.00
825 8550	TRAFFIC SIGNAL CONTROLLER ASSEMBLY (4,5)	EA	1.00	1.00	1.00	3.00
828 0100	(PL) DETECTION SYSTEM (VIDEO) (6)	LSUM	1.00	1.00	1.00	1.00
830 8000	PEDESTRIAN PUSH BUTTON (7)	EA		2.00	8.00	10.00
831 8231	1WAY 3SEC. ADJ. SIG. HD. S-6 (8)	EA	8.00	8.00	10.00	26.00
831 8252	1WAY 3SEC. ADJ. SIG. HD. S-9 (8)	EA	2.00			2.00
831 8280	1WAY 3SEC. ADJ. SIG. HD. S-13 (8)	EA	1.00	4.00	4.00	9.00
831 8295	1WAY 2SEC. ADJ. PED. SIG. HD. S-20 (9)	EA		2.00	8.00	10.00
833 3030	BACKPLATE (10)	EA	11.00	13.00	14.00	38.00
834(A) 8207	5/C TRAFFIC SIGNAL ELECTRICAL CABLE (TP-1)	LF	450.00	380.00	535.00	1365.00
834(A) 8208	7/C TRAFFIC SIGNAL ELECTRICAL CABLE (TP-1)	LF	120.00	240.00	260.00	620.00
834(A) 8213	21/C TRAFFIC SIGNAL ELECTRICAL CABLE (TP-1)	LF	945.00	905.00	825.00	2675.00
834(B) 6300	2/C SHIELDED LOOP DETECTOR LEAD-IN CABLE (TP-1)(11)	LF		20.00	80.00	100.00
840(B) 8593	E.P.S. OPTICAL DETECTOR (12)	EA	4.00	4.00	4.00	12.00
840(C) 8594	E.P.S. OPTICAL DETECTOR CABLE (TP-1)(12)	LF	1175.00	1145.00	1085.00	3405.00
840(D) 0510	E.P.S. 4 CHANNEL PHASE SELECTOR (12)	EA	1.00	1.00	1.00	3.00
850(C) 8118	MAST ARM MOUNTED SIGNS (ALUMINUM) (TP-1)	SF	61.50	84.00	82.00	227.50

D. VIDEO POWER CABLE SHALL BE AS PER THE MANUFACTURER SPECIFICATIONS.

E. VIDEO COAXIAL CABLE SHALL BE LOW LOSS PRECISION CABLE SUITED FOR OUTDOOR APPLICATION. VIDEO CABLE SHALL BE BELDON 8281, WEST PENN P 806, OR APPROVED EQUAL.

F. THE VIDEO FEEDBACK TO THE LOCAL MAINTAINING AGENCY OFFICE SHALL OCCUR OVER LOCAL TELEPHONE LINES.

G. ONE DAY OF TRAINING FOR CITY PERSONNEL IN THE USE AND MAINTENANCE OF THE SYSTEM SHALL BE PROVIDED BY A MANUFACTURERS REPRESENTATIVE. DOCUMENTATION OF THE TRAINING PROVIDED SHALL BE PROVIDED FOR THE ENGINEER.

(7) CONTRACTOR SHALL PROVIDE POLARA 2-WIRE NAVIGATOR ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON OR APPROVED EQUAL. R10-3E PEDESTRIAN PUSH BUTTON SIGNS SHALL BE USED.

(8) RED, YELLOW AND GREEN LED TRAFFIC SIGNAL HEADS SHALL BE FURNISHED AND INSTALLED ON THIS PROJECT. THE LED TRAFFIC MODULES, LENSES, AND ALL ASSOCIATED MATERIAL AND EQUIPMENT SHALL CONFORM TO I.T.E. VEHICLE TRAFFIC CONTROL SIGNAL HEAD (VTCSH) STANDARDS IN EFFECT AT THE TIME THAT THE ORDER IS PLACED. LED HEADS SHALL BE CAPABLE OF OPERATING WITHOUT A REFLECTOR.

(9) LED INTERNATIONAL HEADS DISPLAYING INCANDESCENT LOOKING FULLY-ILLUMINATED SYMBOLS (WALKING PERSON AND UPRAISED HAND) SHALL BE REQUIRED ON THIS PROJECT.

THESE PEDESTRIAN HEADS SHALL ALSO BE COUNTDOWN TYPE HEADS.

(10) REFLECTORIZED BACKPLATES SHALL BE SUPPLIED ON THIS PROJECT FOR ALL SIGNAL HEADS.

(11) PAY ITEM IS TO RUN FROM THE PEDESTRIAN PUSH BUTTONS TO THE TERMINAL STRIP AT THE BASE OF THE POLES.

(12) THE PREEMPTION CONTROL SYSTEM SHALL INTERFACE WITH THE TRAFFIC CONTROLLER TO GIVE EMERGENCY VEHICLES APPROACHING THE INTERSECTION A GREEN WITH ALL OTHER INDICATIONS BEING RED. THE SYSTEM SHALL BE CAPABLE OF TWO PRIORITY LEVELS AND LOG THE LAST 100 EVENTS WITH TIME DATE STAMP. EMITTER SHALL BE SELECTABLE TO TRANSMIT UP TO 9999 VEHICLE CODES. ALL EQUIPMENT IN THE SYSTEM SHALL MEET NEMA ENVIRONMENTAL STANDARDS.

THE MANUFACTURER OR MANUFACTURER'S REPRESENTATIVES SHALL PROVIDE ASSISTANCE TO THE CONTRACTOR OR AGENCY INSTALLING THE EQUIPMENT AS TO THE BEST LOCATION FOR THE DETECTOR PLACEMENT AT EACH INTERSECTION INVOLVED WITH THE PROJECT. ALL EQUIPMENT MUST BE PLAINLY MARKED AS TO THE MANUFACTURER OF THE EQUIPMENT TO PROVIDE CLEAR IDENTIFICATION AS TO THE MANUFACTURER'S MODEL AND SERIAL NUMBER OF EACH UNIT. NEMA CERTIFICATION, TEST REPORTS SHALL BE PROVIDED UPON REQUEST BY THE ENGINEER.

REVISIONS		
NO.	DESCRIPTION	DATE

Design	RWR	08-14-23
Drawn	SB	08-14-23
<b>TEC</b> A CLEAR DIRECTION		

**SIGNAL  
PAY QUANTITIES & NOTES**

REVISIONS		
NO.	DESCRIPTION	DATE

**GENERAL CONSTRUCTION NOTES**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE HE MAY INFLICT TO THE EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA AS A RESULT OF HIS DIGGING, TRENCHING, BORING, ETC.... PRIOR TO DIGGING NEAR THE UTILITIES, THE CONTRACTOR SHALL CALL FOR A LIST OF ALL UNDERGROUND FACILITIES REGISTERED IN THE AREA OF CONSTRUCTION LISTED WITH THE FOLLOWING AGENCIES:

THE "OKIE" NOTIFICATION CENTER 811 OR (405) 522-6543 OR WWW.CALLOKIE.COM OR THE LOCAL COUNTY CLERK'S OFFICE.

ANY SIGNS AND/OR DELINEATORS WHICH ARE TO BE REMOVED DURING THIS PROJECT WILL BE STORED IN A PROTECTED AREA DESIGNATED BY THE RESIDENT ENGINEER UNTIL SUCH TIME THAT THEY ARE TO BE RESET BY THE CONTRACTOR. COST OF THIS WORK TO BE INCLUDED IN OTHER ITEMS OF WORK.

ALL BROKEN CONCRETE, WASTE MATERIAL, AND DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF IN AN AREA APPROVED BY THE ENGINEER. NO PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.

ANY DAMAGE CAUSED BY THE CONTRACTOR TO ANY STRUCTURES, ROADWAY SURFACES, STRIPING, RAISED PAVEMENT MARKERS, GUARDRAIL, SLOPES, AND SIGNS SHALL BE REPAIRED AT CONTRACTORS EXPENSE TO THE SATISFACTION OF THE ENGINEER.

THIS PROJECT SHALL BE CONSTRUCTED WITHOUT CLOSING TRAFFIC ON CROSS STREETS. A MINIMUM OF ONE LANE IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES. SEE O.D.O.T. STANDARDS AND DETAIL DRAWINGS FOR MAINTENANCE OF LOCAL AND THROUGH TRAFFIC.

ALL REMOVED SIGNS, SIGN POSTS, BOLTS, MISCELLANEOUS HARDWARE, AND DELINEATORS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AS APPROVED BY THE ENGINEER.

AFTER REMOVAL OF ANY SIGN FOOTINGS, THE HOLES SHALL BE FILLED WITH SOIL, TAMPED, AND SHAPED IN A MANNER APPROVED BY THE ENGINEER.

**PAY QUANTITY NOTES**

- (1) REMOVAL AND RESETTING OF EXISTING SIGNS ARE SHOWN IN THE PLANS AND INCLUDED IN THE SIGN SUMMARY AND SHALL INCLUDE THE REMOVAL OF EXISTING SIGNS, FOOTINGS, AND ANY FOOTINGS ADJACENT TO THE SIGNS AND THE REINSTALLATION OF THE SIGN WITH POSTS IN KIND AND IN ACCORDANCE WITH ODOT STANDARD DRAWINGS. WHEN APPROVED BY THE ENGINEER, FOOTINGS MAY BE OBLITERATED TO A POINT BELOW GROUND LEVEL IN LIEU OF BEING COMPLETELY REMOVED. SEE GENERAL CONSTRUCTION NOTES FOR DISPOSAL OF OLD CONCRETE FOOTING MATERIAL.
- (TP-1) PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITY. SEE THE 2019 SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- (TS-24) QUANTITY SHOWN INCLUDES 1,855 L.F. TRAFFIC STRIPE (MULTI-POLYMER) (WHITE), 6,050 L.F. TRAFFIC STRIPE (MULTI-POLYMER) (YELLOW) AND 4,100 L.F. TRAFFIC STRIPE (MULTI-POLYMER) (BLACK) AND WILL BE MEASURED BY THE LINEAR FOOT OF FOUR INCH (4") WIDE TRAFFIC STRIPE.
- (TS-25) QUANTITY SHOWN INCLUDES 27,385 L.F. TRAFFIC STRIPE (MULTI-POLYMER) (WHITE), 16,505 L.F. TRAFFIC STRIPE (MULTI-POLYMER) (YELLOW) AND 7,660 L.F. TRAFFIC STRIPE (MULTI-POLYMER) (BLACK) AND WILL BE MEASURED BY THE LINEAR FOOT OF SIX INCH (6") WIDE TRAFFIC STRIPE.
- (TS-26) QUANTITY SHOWN INCLUDES 855 L.F. TRAFFIC STRIPE (MULTI-POLYMER) (WHITE) AND 0 L.F. TRAFFIC STRIPE (MULTI-POLYMER) (YELLOW) AND 0 L.F. TRAFFIC STRIPE (MULTI-POLYMER) (BLACK) AND WILL BE MEASURED BY THE LINEAR FOOT OF EIGHT INCH (8") WIDE TRAFFIC STRIPE.
- (TS-28) QUANTITY SHOWN INCLUDES 1,550 L.F. TRAFFIC STRIPE (MULTI-POLYMER) (WHITE) AND WILL BE MEASURED BY THE LINEAR FOOT OF TWENTY-FOUR INCH (24") WIDE TRAFFIC STRIPE.
- (TS-32) THE AMOUNT SHOWN IS AN APPROXIMATION AND THE ACTUAL AMOUNT OF REMOVAL, IF NECESSARY, SHALL BE DETERMINED BY THE ENGINEER. PRICE BID FOR PAVEMENT MARKING REMOVAL (TRAFFIC STRIPE) SHALL INCLUDE COST OF REMOVAL OF ARROWS, WORDS, AND SYMBOLS. THE PAVEMENT MARKING TO BE REMOVED SHALL BE CONSIDERED THERMOPLASTIC AND BID ACCORDINGLY.  
  
DURING REMOVAL OF EXISTING STRIPING AND REPLACEMENT WITH NEW STRIPING, PERMANENT STRIPING SHALL BE REPLACED WITHIN 48 HOURS AFTER OLD STRIPING IS REMOVED.
- (TS-33) INCLUDED IN THIS PAY ITEM IS ALL HARDWARE ASSOCIATED WITH PROPERLY ANCHORING AND MOUNTING THE HIGHWAY SIGN IN ACCORDANCE WITH O.D.O.T. PLANS AND STANDARD DRAWINGS SSA1-1 AND SSP1-1- (LATEST REVISION).

PAY QUANTITIES			
JP 27108(04)			
0301 TRAFFIC SIGNING & STRIPING			
ITEM	DESCRIPTION	UNIT	TOTAL
804(A) 2200	STRUCTURAL CONCRETE (TP-1)	CY	1.20
804(B) 2300	REINFORCING STEEL (TP-1)	LB	168.00
805(D) 3528	(PL)REMOVE & RESET EXISTING SIGNS (1)	EA	3.00
850(A) 1200	SHEET ALUMINUM SIGNS	SF	739.40
851(B) 2325	4"@10.79 GALV. STEEL PIPE POST	LF	80.00
851(C) 2415	2" SQUARE TUBE POST (TS-33)	LF	1352.00
856(A) 8200	TRAFFIC STRIPE (MULTI-POLY)(4" WIDE) (TS-24)	LF	12005.00
856(A) 8204	TRAFFIC STRIPE (MULTI-POLY)(6" WIDE) (TS-25)	LF	51550.00
856(A) 8208	TRAFFIC STRIPE (MULTI-POLY)(8" WIDE) (TS-26)	LF	855.00
856(A) 8216	TRAFFIC STRIPE (MULTI-POLY)(24" WIDE) (TS-28)	LF	1550.00
856(B) 8304	TRAFFIC STRIPE (MULTI-POLY)(ARROWS)	EA	68.00
857(F) 9700	PAVEMENT MRKNG.REMOVAL(TRAF.STRP) (TS-32)	LF	10000.00

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Design	RWR	08-14-23
Drawn	SB	08-14-23

**SIGNING & STRIPING  
PAY QUANTITIES & NOTES**

State Job No. 27108(04) Sheet No. AT02

REVISIONS		
NO.	DESCRIPTION	DATE

**GENERAL CONSTRUCTION NOTES**

SYMBOLS AND LEGENDS ARE DIAGRAMMATIC ONLY AND LOCATIONS SHALL BE ADJUSTED FOR EXISTING FIELD CONDITIONS, BUT NO MAJOR ALTERATIONS OR RELOCATIONS WILL BE MADE WITHOUT FIRST CONSULTING WITH THE TRAFFIC ENGINEERING DIVISION AT (405)521-2861.

ALL BROKEN CONCRETE, WASTE MATERIAL, AND DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF IN AN AREA APPROVED BY THE ENGINEER. NO PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE HE MAY INFLICT TO THE EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA AS A RESULT OF HIS DIGGING, TRENCHING, BORING, ETC.... PRIOR TO DIGGING NEAR THE UTILITIES, THE CONTRACTOR SHALL CALL FOR A LIST OF ALL UNDERGROUND FACILITIES REGISTERED IN THE AREA OF CONSTRUCTION LISTED WITH THE FOLLOWING AGENCIES:

THE "OKIE" NOTIFICATION CENTER 811 OR (405)522-6543 OR WWW.CALLOKIE.COM OR THE LOCAL COUNTY CLERK'S OFFICE.

(TL-35) SEE SERVICE POLE SCHEDULE. FOR ADDITIONAL INFORMATION CONCERNING THE SERVICE POLE, CONTACT THE FOLLOWING PRIOR TO INSTALLATION:  
PERSON'S NAME .....JACQUE HANNA  
WITH THE COMPANY/CITY OF .....OG&E IN MUSKOGEE  
COMPANY'S/CITY'S TELEPHONE NO... (918) 688-0234.

(TP-1) PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITY. SEE THE 2019 SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

(1) POLYMER CONCRETE PULL BOXES SHALL BE USED.

(2) THE ROADWAY LIGHT FIXTURES TO BE USED ON THIS PROJECT SHALL BE HOLOPHANE ATBM P30 MVOLT R3 4B P7 PCLL FIXTURES OR AN APPROVED EQUAL.

(3) THIS WIRE SHALL BE ALUMINUM WIRE ONLY. ALL ASSOCIATED HARDWARE (CONNECTORS, SPLICES, BREAKERS, ETC.) NECESSARY TO ASSURE PROPER INSTALLATION AND PERFORMANCE OF THIS ALUMINUM WIRE IN ACCORDANCE WITH CURRENT SPECIFICATIONS, STANDARDS AND PRACTICE SHALL BE INCLUDED IN THE PRICE BID FOR THIS ITEM.

PAY QUANTITY INCLUDES SUFFICIENT QUANTITY TO RUN TWO (2) NO. 4 ELECTRICAL ALUMINUM WIRES FOR THESE CIRCUITS. ONE (1) NO. 4 BLACK WIRE FOR THE LOAD AND ONE (1) NO. 4 WHITE WIRE FOR NEUTRAL TO ALL LIGHT POLES ON THIS PROJECT, IN ACCORDANCE WITH CURRENT STANDARDS AND PRACTICE. COLORED TAPE OR PAINT WILL NOT BE ACCEPTABLE FOR COLORING THESE ELECTRICAL WIRES.

**PAY QUANTITIES**

JP#27108(04)

0302 TRAFFIC LIGHTING

ITEM	DESCRIPTION	UNIT	TOTAL
802(B) 0320	2" PVC SCH. 40 PLASTIC CONDUIT BORED	(TP-1) LF	3785.00
802(B) 0324	2" PVC SCH. 40 PLASTIC CONDUIT TRENCHED	(TP-1) LF	8540.00
803(A) 1210	PULL BOX (SIZE I)	(1) EA	5.00
804(A) 2200	STRUCTURAL CONCRETE	(TP-1) CY	82.00
804(B) 2300	REINFORCING STEEL	(TP-1) LB	14200.00
806(C) 4512	40' MTG & 10' HLMA (G.STL.)	EA	40.00
806(C) 4524	40' MHP & TWIN H.L. MST. ARM (G.STL.)	EA	10.00
807 5120	BREAKAWAY BASE (DES. B)	EA	12.00
809(A) 7200	ROADWAY LUMINAIRE	(2) EA	60.00
810(A) 8200	SERVICE POLE	(TL-35) EA	1.00
811 9115	1/C NO.4 ELECT.COND.	(TP-1)(3) LF	25885.00
811 9135	1/C NO.12 ELECT.COND.	(TP-1) LF	6000.00

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Design	RWR	08-14-23
Drawn	SB	08-14-23



**LIGHTING  
PAY QUANTITIES & NOTES**

State Job No. 27108(04) Sheet No. AT03

REVISIONS		
NO.	DESCRIPTION	DATE

**GENERAL CONSTRUCTION NOTES**

ANY SIGNS AND/OR DELINEATORS WHICH ARE TO BE REMOVED DURING THIS PROJECT WILL BE STORED IN A PROTECTED AREA DESIGNATED BY THE RESIDENT ENGINEER UNTIL SUCH A TIME THAT THEY ARE TO BE RESET BY THE CONTRACTOR. COST OF THIS WORK TO BE INCLUDED IN OTHER ITEMS OF WORK.

EXISTING ROADWAY SHALL REMAIN OPEN DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER BARRICADES, LIGHTS, AND SIGNING WITHIN THE LIMITS OF CONSTRUCTION. ALL CONSTRUCTION SIGNING WILL BE IMPLEMENTED ACCORDING TO CONSTRUCTION PLANS. CONSTRUCTION TRAFFIC CONTROL WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (CURRENT EDITION), AND COMPLIANT WITH APPLICABLE O.D.O.T. STANDARD DRAWINGS.

FIVE (5) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION ON THIS PROJECT, THE RESIDENT ENGINEER SHALL CONTACT THE OKLAHOMA HIGHWAY PATROL, SIZE AND WEIGHTS SECTION (405) 425-2210 AND ADVISE THE OFFICE WHEN SAID DETOURING WILL BEGIN AND THAT WIDE LOADS OVER 10 FT. SHOULD BE ADVISED AND RESTRICTED. UPON COMPLETION OF THE PROJECT, THE RESIDENT ENGINEER SHALL CONTACT THE OKLAHOMA HIGHWAY PATROL AND ADVISE THE OFFICE THAT THE PROJECT IS COMPLETE.

FIVE (5) WORKING DAYS PRIOR TO DETOURING WIDE LOAD VEHICLES, FOR THE CONSTRUCTION OF THE PROJECT, THE RESIDENT ENGINEER SHALL CONTACT THE OKLAHOMA HIGHWAY PATROL, SIZE AND WEIGHTS SECTION (405) 425-2210 AND ADVISE THE OFFICE WHEN SAID DETOURING WILL BEGIN AND THAT WIDE LOADS OVER 10 FT. SHOULD BE ADVISED AND RESTRICTED (SEE PLANS FOR PROPOSED WIDE LOAD DETOUR ROUTE). UPON COMPLETION OF THE PROJECT THE RESIDENT ENGINEER SHALL CONTACT THE OKLAHOMA HIGHWAY PATROL AND ADVISE THE OFFICE THAT THE WIDE LOAD DETOUR IS NO LONGER IN EFFECT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE HE MAY INFLICT TO THE EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA AS A RESULT OF HIS DIGGING, TRENCHING, BORING, ETC.... PRIOR TO DIGGING NEAR THE UTILITIES, THE CONTRACTOR SHALL CALL FOR A LIST OF ALL UNDERGROUND FACILITIES REGISTERED IN THE AREA OF CONSTRUCTION LISTED WITH THE FOLLOWING AGENCIES:  
THE "OKIE" NOTIFICATION CENTER 811 OR (405) 522-6543 OR WWW.CALLOKIE.COM OR THE LOCAL COUNTY CLERK'S OFFICE.

**PAY QUANTITY NOTES**

- (TC-16) PAINT SHALL CONFORM TO SECTION 711 "TRAFFIC STRIPE", OF THE O.D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION). IF CONSTRUCTION TRAFFIC STRIPE PAINT IS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND FAILS DURING THE FIRST SIX MONTHS OF SERVICE, REPLACEMENT WILL BE MADE AT THE CONTRACTORS EXPENSE AND SHALL BE ACCOMPLISHED IN A TIMELY MANNER UPON NOTIFICATION BY THE ENGINEER OF SUCH FAILURE.
- (TC-17) INCLUDES AN ESTIMATED 126,580 L.F. (PAINT) (4" WIDE) WHITE 194,960 L.F. (PAINT) (4" WIDE) YELLOW STRIPE.
- (TC-19) THIS ITEM INCLUDES AN ESTIMATED 156,700 L.F. (4" WIDE) WHITE AND 127,300 L.F. (4" WIDE) YELLOW STRIPE. THE CONTRACTOR SHALL PROVIDE AND INSTALL AN O.D.O.T. APPROVED REMOVABLE PAVEMENT MARKING TAPE. COST FOR REMOVAL OF THIS TAPE SHALL BE INCLUDED IN THE PRICE BID FOR THIS ITEM. NON-REMOVABLE MARKING TAPE (FOIL BACK) SHALL NOT BE CONSIDERED AN APPROVED EQUAL FOR THIS ITEM.
- (TC-20) ALL STRIPING TO BE PLACED ON TEMPORARY SURFACES OR ON SURFACES SCHEDULED TO BE REMOVED SHALL BE DONE WITH PAINT UNLESS OTHERWISE NOTED ON THE PLANS OR STANDARD DRAWINGS. TEMPORARY PAVEMENT MARKINGS PLACED ON FINISHED PAVEMENT OR EXISTING PAVEMENT TO REMAIN IN PLACE SHALL USE ONE OF THE FOLLOWING METHODS:  
- REMOVABLE PAVEMENT MARKING TAPE  
- CLASS A PAVEMENT MARKERS
- (TC-22) AMOUNT SHOWN IS AN APPROXIMATION AND THE ACTUAL AMOUNT OF REMOVAL, IF NECESSARY, SHALL BE DETERMINED BY THE ENGINEER. PRICE BID FOR PAVEMENT MARKING REMOVAL SHALL INCLUDE THE COST OF REMOVING STRIPE, ARROWS, WORDS AND SYMBOLS, AS SHOWN IN THE PLANS. THESE ITEMS MAY CONSIST OF PLASTIC, PAINT OR NON-REMOVABLE MARKING TAPE.
- (TC-26) ALL CONSTRUCTION TRAFFIC CONTROL WILL BE IMPLEMENTED ACCORDING TO CONSTRUCTION PLANS, AND INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (CURRENT EDITION), AND COMPLIANT WITH APPLICABLE O.D.O.T. STANDARD DRAWINGS. PRICE BID FOR THIS ITEM SHALL BE PAYMENT IN FULL FOR THE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL DEVICES REQUIRED FOR COMPLETION OF THE PROJECT.  
  
ALL SIGNS AND BARRICADES WHICH ARE SHOWN WITH TYPE 'B' LIGHTS IN THE STANDARD DRAWINGS SHALL HAVE THE CORRESPONDING LIGHT ATTACHED DURING NON-DAYLIGHT HOURS.
- (TC-28) INCLUDED IN THIS ITEM ARE ALL S.C.S. (SPECIAL CONSTRUCTION SIGNING) SIGNS WHICH ARE BETWEEN 0.00 S.F. AND 6.25 S.F. ALSO INCLUDED IN THIS ITEM SHALL BE THE COST OF INSTALLATION, MAINTENANCE, AND REMOVAL OF THESE SIGNS.
- (TC-29) INCLUDED IN THIS ITEM ARE ALL S.C.S. (SPECIAL CONSTRUCTION SIGNING) SIGNS WHICH ARE BETWEEN 6.26 S.F. AND 15.99 S.F. ALSO INCLUDED IN THIS ITEM SHALL BE THE COST OF INSTALLATION, MAINTENANCE, AND REMOVAL OF THESE SIGNS.
- (TC-30) INCLUDED IN THIS ITEM ARE ALL S.C.S. (SPECIAL CONSTRUCTION SIGNING) SIGNS WHICH ARE BETWEEN 16.00 S.F. AND 32.99 S.F. ALSO INCLUDED IN THIS ITEM SHALL BE THE COST OF INSTALLATION, MAINTENANCE, AND REMOVAL OF THESE SIGNS.
- (TC-33) ALL CONSTRUCTION WORK ZONE SIGNS SHALL HAVE FLUORESCENT SHEETING. THE FLUORESCENT SHEETING SHALL MEET THE REQUIREMENTS OF ASTM D4956 (LATEST REVISION).  
  
THE MANUFACTURER SHALL FURNISH A TYPE 'D' CERTIFICATION IN ACCORDANCE WITH O.D.O.T. STANDARD SPECIFICATIONS (CURRENT EDITION) SUBSECTION 106.04. THE CERTIFICATION SHALL INCLUDE TEST RESULTS ON MATERIAL SUBMITTED FOR APPROVAL.
- (TC-52) ANY USED CHANGEABLE MESSAGE SIGNS, TRUCK MOUNTED ATTENUATORS OR CONSTRUCTION ZONE IMPACT ATTENUATORS TO BE PLACED ON THIS PROJECT SHALL BE SUBJECT TO INSPECTION AND APPROVAL, BY THE OKLAHOMA DEPARTMENT OF TRANSPORTATION, TO ASSURE THAT THEY ARE IN GOOD WORKING CONDITION, PRIOR TO PLACEMENT ON THE PROJECT.

- (TC-61) ANY DAMAGE TO A FINISHED OR EXISTING SURFACE RESULTING FROM THE CONTRACTORS NEGLIGENCE IN THE REMOVAL OF CONSTRUCTION ZONE PAVEMENT MARKERS OR CHANNELIZING DEVICES AND THE BITUMINOUS ADHESIVE USED IN THEIR INSTALLATION, SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE AND TO THE SATISFACTION OF THE ENGINEER.
- (TC-70) THIS ITEM IS AN ESTIMATED QUANTITY TO BE USED AS DEEMED NECESSARY BY THE ENGINEER.
- (TC-73) QUANTITY SHOWN INCLUDES 15,000 EA. (WHITE) AND 20,000 EA. (YELLOW) CONSTRUCTION ZONE PAVEMENT MARKERS (FLEX TABS). THESE CONSTRUCTION ZONE PAVEMENT MARKERS SHALL BE EITHER "DAVIDSON PLASTICS: MODEL TOM", OR AN APPROVED EQUAL. PRICE BID FOR THIS ITEM SHALL INCLUDE THE INITIAL PLACEMENT, SUBSEQUENT REPLACEMENT, AND REMOVAL. THE CONSTRUCTION ZONE PAVEMENT MARKERS (FLEX TABS) SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AS SHOWN ON STANDARD DRAWING TCS21-1-(LATEST REVISION).
- (TC-75) TEMPORARY PAVEMENT MARKINGS SHALL BE IN PLACE THE SAME DAY THAT EXISTING PAVEMENT MARKINGS ARE REMOVED FROM ANY ROADWAY OPEN TO TRAFFIC. ALSO, ALL TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED PRIOR TO THE INSTALLATION OF FINAL STRIPING.
- (TC-84) 675 CONSTRUCTION CALENDAR DAYS WERE USED TO COMPUTE THE SIGN DAY PAY ITEMS. THE AMOUNT OF CALENDAR DAYS USED TO COMPUTE THE SIGN DAY PAY ITEMS IS AN ESTIMATED QUANTITY ONLY, BASED ON THE CURRENT O.D.O.T. STANDARDS AND SUGGESTED CONSTRUCTION SEQUENCE FOR THIS PROJECT. THESE ESTIMATED SIGN DAY QUANTITIES MAY CHANGE AS THE PROJECT'S CONSTRUCTION TRAFFIC CONTROL IS MODIFIED DURING CONSTRUCTION.
- (TC-85) THESE SIGNS MUST BE ON THE OKLAHOMA DEPARTMENT OF TRANSPORTATION LIST OF APPROVED CHANGEABLE MESSAGE SIGNS. FOR A LIST OF THE APPROVED SIGNS GO TO THE OKLAHOMA DEPARTMENT OF TRANSPORTATION WEBSITE AT:  
<http://www.okladot.state.ok.us/traffic/qpl/index.php>.
- (1) THE QUANTITY PROVIDES FOR TWO (2) MESSAGE BOARDS FOR THE DURATION OF THE PROJECT TO BE USED AT THE DISCRETION OF THE ENGINEER.
- (2) PAY QUANTITY REFLECTS THE AMOUNT OF 4" TAPE OR THE EQUIVALENT AMOUNT OF 4" TAPE FOR STRIPING THAT IS WIDER THAN 4 INCHES.
- (4) TYPE "D" WARNING LIGHTS SHALL BE USED ON ALL DRUMS USED ON THIS PROJECT.
- (5) REMOVABLE PAVE. MARKING TAPE SHALL BE USED AS TEMPORARY STRIPE WHENEVER TRAFFIC IS PLACED ON FINAL SURFACE AND SHALL BE PLACED IN THE SAME LAYOUT AS FINAL STRIPING BETWEEN FINAL SURFACING AND FINAL STRIPING.
- (6) THE CONTRACTOR SHALL MAINTAIN ALL TEMPORARY STRIPE AND RAISED PAVE. MARKERS. IF THE CONTRACTOR DOES NOT ADEQUATELY MAINTAIN THE TEMPORARY STRIPE AND RAISED PAVE. MARKERS THEN ODOT TRAFFIC DIVISION, ODOT ROADWAY DIVISION, AND ODOT FIELD DISTRICT SHALL ALL HAVE THE AUTHORITY TO REQUIRE THE CONTRACTOR TO REPLACE ALL OR PORTIONS OF THE TEMPORARY STRIPE AND RAISED PAVE. MARKERS.

PAY QUANTITIES			
JP#27108(04)			
0303 TRAFFIC CONTROL			
ITEM	DESCRIPTION	UNIT	TOTAL
857(A) 9200	CONSTRUCTION TRAFFIC STR.(PAINT)(4" WIDE) (TC-16,17,26,75)(6)	LF	190,000.00
857(C) 9400	REMOVABLE PAVEMENT MARKING TAPE (4" WIDE) (TC-19,20,26,75)(2,5,6)	LF	321,540.00
857(C) 9420	REMOVABLE PAVEMENT MARKING TAPE (ARROWS) (TC-70,75)	EA	50.00
857(E) 9620	(PL)CONST.ZONE PAV.MKRS(FLEX TAB)TYP 2-1 (TC-61,70,73,75)	EA	35,000.00
857(F) 9700	PAVEMENT MRKNG.REMOVAL(TRAF.STRP) (TC-22,70)	LF	80,400.00
880(B) 6300	CONSTRUCTION SIGNS 0 TO 6.25 SF (TC-26,28,33,84)	SD	9,357.00
880(B) 6310	CONSTRUCTION SIGNS 6.26 SF TO 15.99 SF (TC-26,29,33,84)	SD	23,182.00
880(B) 6320	CONSTRUCTION SIGNS 16.0 SF TO 32.99 SF (TC-26,30,33,84)	SD	7,997.00
880(C) 6410	CONSTRUCTION BARRICADES (TYPE III) (TC-26,84)	SD	16,760.00
880(D) 6500	VERTICAL PANELS (TC-26,84)	SD	33,750.00
880(E) 6607	WARNING LIGHTS (TYPE B) (TC-26,84)	SD	108,262.00
880(E) 6616	WARNING LIGHTS (TYPE D) (TC-26,84)	SD	54,297.00
880(F) 6700	DRUMS (TC-26,84)(4)	SD	54,297.00
880(G) 6800	TUBE CHANNELIZERS (TC-26,84)	SD	66,070.00
880(G) 6805	CHANNELIZER CONES (TC-26,84)	SD	25,616.00
882(A) 8210	PORT. CHANGEABLE MESSAGE SIGN (TC-52,70,84,85)(1)	SD	1,350.00

Design	RWR	08-14-23
Drawn	SB	08-14-23



**TRAFFIC CONTROL  
PAY QUANTITIES & NOTES**

State Job No. 27108(04) Sheet No. AT04

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SUMMARY OF SURFACING AND RELATED QUANTITIES																
SHEET NUMBER	LOCATION  C.R.L STATION TO C.R.L STATION (CTR. LINE OR REF. LINE)	303(A) 1200	317 7100	325 0100	402(E)	408 8774	414(B)5300	414(A)5200	414(G)5800	609(A)4230	610(A)5200	610(A)5410	613(J)6400	619(B)6360	619(B)6376	619 (C) 0924
		8" AGG. BASE TYPE A	CEMENT TREATED BASE	SEPARATOR FABRIC (SPECIAL)	T.B.S.C. TYPE E	PRIME COAT	DOWEL JOINTED P.C.C. PAVT. (PLACEMENT)	P.C. CONCRETE PAVEMENT (PLACEMENT)	P.C. CONCRETE FOR PAVEMENT	CONC. CURB (6" BARRIER-INTEGRAL)	4" CONCRETE SIDEWALK	6" DECORATIVE MEDIAN CONCRETE	EDGE DRAIN CONDUIT-PERFORATED	REMOVAL OF CONCRETE PAVEMENT	REMOVAL OF CONC.PAV. W/ASPH.OVERLAY	SAWING PAVEMENT
		CY	SY	SY	TON	GAL	SY	SY	CY	LF	SY	SY	SY	SY	SY	LF
R001	CRL STA. 561+00 TO STA.568+00	530	2,234	2,549	1,441	1,430	1,485	574	697.10					819	1,247	
R002	CRL STA. 568+00 TO STA. 583+00	3,610	14,962	17,860	3,088	9,746	9,038	4,607	3,208.40					4,756	7,592	
R003	CRL STA. 583+00 TO STA. 598+00	3,700	15,372	18,235	3,088	9,988	9,359	4,729	3,320.90					3,507	6,062	
R004	CRL STA. 598+00 TO STA. 613+00	3,667	15,195	18,123	3,088	9,899	9,890	4,979	3,133.30					7,139	6,212	
R005	CRL STA. 613+00 TO STA.628+00	3,529	14,575	17,505	3,088	9,528	8,645	4,623	4,455.60						11,451	
R006	CRL STA. 628+00 TO STA.643+00	3,406	13,996	16,998	3,088	9,194	8,001	4,653	3,310.20						10,181	
R007	CRL STA. 643+00 TO STA.658+00	3,511	15,979	17,174	3,088	9,478	14,521	678	5,574.20	2,482		1,267		201	8,091	
R008	CRL STA.658+00 TO STA.664+00	1,446	6,505	6,505	248	3,903	6,187		2,537.80	729	1,475		1,200	595	3,453	
R009	CRL STA.664+00 TO STA.670+00	1,443	6,490	6,490	248	3,894	6,196		3,644.60	701	719	119	1,200	1,095	3,064	
R010	CRL STA.670+00 TO STA.676+00	1,443	6,490	6,490	248	3,894	6,199		2,684.80	469	623	262	1,200	1,450	2,774	
R011	CRL STA.676+00 TO STA.682+00	1,443	6,490	6,490	248	3,894	6,217		2,740.90	384	683	220	1,200	1,410	3,388	
R012	CRL STA.682+00 TO STA.688+00	1,445	6,500	6,500	248	3,900	6,202		2,531.90	456	529	273	1,200	1,380	3,680	
R013	CRL STA.688+00 TO STA.694+00	1,467	6,602	6,602	248	3,961	6,316		3,765.30	503	654	32	1,200	1,359	3,290	
R014	CRL STA.694+00 TO STA.695+95	492	2,210	2,210	80	1,326	2,113		1,266.10	121	524	174	370	1,817		
<b>SUB TOTALS</b>		<b>31,132</b>	<b>133,600</b>	<b>149,731</b>	<b>21,532</b>	<b>84,035</b>	<b>99,389</b>	<b>24,843</b>	<b>42,871.1</b>	<b>5,879</b>	<b>5,207</b>	<b>2,347</b>	<b>7,570</b>	<b>25,528</b>	<b>70,485</b>	
<b>STREETS</b>																
	CRL STA. 566+68.86 HADDOCK DR.		233	466	46	280		221	58.4	151						
	CRL STA. 593+31.89 W HANCOCK ST.		2291	4581	143	2749		2035	537.0	474						
	CRL STA 615+23.69 RAMONA DR.		218	435	30	261		188	49.5							
	CRL STA 646+06.85 BORDER AVE.		4075	8149	118	4890		3678	970.5	390						
	CRL STA 662+53.97 ESTELLE AVE.		125	250	22	150		104	27.5	74						
	CRL STA 671+71.94 ARLINE ST.		451	901	64	541		405	106.8	212						
	CRL STA 680+85.74 ELGIN ST.		379	757	59	455		330	86.9	196						
	CRL STA 684+08.84 DENVER ST.		240	479	45	288		205	53.9	150						
	CRL STA 690+13.80 KATE FRANK DR.		67	134	59	81		51	13.4	196						
	<b>SUB TOTALS</b>		<b>8079</b>	<b>16152</b>	<b>588</b>	<b>9695</b>		<b>7217</b>	<b>1903.9</b>	<b>1843</b>						
<b>TEMPORARY PAVEMENT - DETOURS</b>																
	CRL STA 563+00 TO 566+50 CROSSOVER DETOUR			1426			1426		376.10							
	CRL STA 656+00 TO 696+95 - DETOUR			6082					1,364.80							13,195
<b>TOTALS</b>		<b>31,132</b>	<b>141,679</b>	<b>173,391</b>	<b>22,119</b>	<b>93,730</b>	<b>105,987</b>	<b>32,060</b>	<b>46,516</b>	<b>7,722</b>	<b>5,207</b>	<b>2,347</b>	<b>7,570</b>	<b>25,528</b>	<b>70,485</b>	<b>13,195</b>

SUMMARY OF EARTHWORK				
LOCATION  STATION (CTR. LINE OR REF. LINE)	202(A)	EMBANKMENT (+20%)	EXCESS EXCAVATION	WASTE
	UNCLASSIFIED EXCAVATION			
<b>PHASE - 1</b>				
CRL STA. 642+00 TO STA.643+00	113	188		
CRL STA. 643+00 TO STA.656+00	6,495	5,034		
Bridge "B" Pedestrian Bridge & Trail	60	660		
<b>SUB-TOTAL</b>	<b>6,668</b>	<b>5,882</b>	<b>786</b>	
<b>PHASE - 2</b>				
CRL STA. 566+00 TO STA.568+00	549	38		
CRL STA. 568+00 TO STA. 583+00	2,444	630		
CRL STA. 583+00 TO STA. 598+00	1,070	2,161		
CRL STA. 598+00 TO STA. 613+00	1,665	1,836		
CRL STA. 613+00 TO STA.628+00	1,388	3,345		
CRL STA. 628+00 TO STA.642+00	3,148	1,287		
<b>SUB-TOTAL</b>	<b>10,264</b>	<b>9,297</b>	<b>967</b>	
<b>PHASE - 3</b>				
CRL STA. 566+00 TO STA.568+00	477	20		
CRL STA. 568+00 TO STA. 583+00	2,611	617		
CRL STA. 583+00 TO STA. 598+00	4,764	1,116		
CRL STA. 598+00 TO STA. 613+00	1,602	2,885		
CRL STA. 613+00 TO STA.628+00	2,189	3,301		
CRL STA. 628+00 TO STA.642+00	1,940	2,492		
<b>SUB-TOTAL</b>	<b>13,583</b>	<b>10,431</b>	<b>3,152</b>	
<b>PHASE - 4 DETOUR WIDENING</b>				
CRL STA. 656+00 TO 696+95.31	1,214			1,214
<b>PHASE - 5</b>				
CRL STA. 656+00 TO STA.658+00	292			
CRL STA. 658+00 TO STA.664+00	883			
CRL STA.664+00 TO STA.670+00	752			
CRL STA.670+00 TO STA.676+00	559			
CRL STA.676+00 TO STA.682+00	692			
CRL STA.682+00 TO STA.688+00	549			
CRL STA.688+00 TO STA.694+00	805			
CRL STA.694+00 TO STA.695+62	220			
<b>SUB-TOTAL</b>	<b>4,752</b>			<b>4,752</b>
<b>PHASE - 6</b>				
CRL STA. 656+00 TO STA.658+00	444	5		
CRL STA.658+00 TO STA.664+00	1,508	30		
CRL STA.664+00 TO STA.670+00	1,187	2		
CRL STA.670+00 TO STA.676+00	1,194	9		
CRL STA.676+00 TO STA.682+00	1,203	14		
CRL STA.682+00 TO STA.688+00	883	20		
CRL STA.688+00 TO STA.694+00	930	22		
CRL STA.694+00 TO STA.695+62	249	4		
<b>SUB-TOTAL</b>	<b>7,598</b>	<b>106</b>	<b>7,492</b>	
<b>PHASE - 7</b>				
CRL STA. 656+00 TO STA.658+00	691			
CRL STA.658+00 TO STA.664+00	1,305	60		
CRL STA.664+00 TO STA.670+00	1,014	1		
CRL STA.670+00 TO STA.676+00	897	54		
CRL STA.676+00 TO STA.682+00	888	99		
CRL STA.682+00 TO STA.688+00	672	67		
CRL STA.688+00 TO STA.694+00	682	59		
CRL STA.694+00 TO STA.695+62	152	26		
<b>SUB-TOTAL</b>	<b>6,301</b>	<b>366</b>	<b>5,935</b>	
Border Avenue	2,823	27	2,796	
Hancock Street	739		739	
<b>SUB-TOTALS</b>	<b>52,728</b>	<b>26,109</b>	<b>27,833</b>	
<b>TOTALS</b>	<b>52,728</b>	<b>26,109</b>	<b>-</b>	<b>27,833</b>

OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
 October 2023

**U.S. HIGHWAY 69**  
**SUMMARY SHEET (1 OF 6)**







HUB ENGINEERING  
 Time of Plot: 11/28/2023 3:42 PM Plot Style: MNCORHOLELISTB  
 (S:\2023\14000188\Design\Production\Plan\Z\102\_SUMSHEET.dwg)



**SUMMARY OF REINFORCED CROSS DRAINAGE CONCRETE STRUCTURES**

STR. NO.	CRL STATION	DESCRIPTION	STRUCT. TYPE	DESIGN STANDARD	RCB SPAN	RCB HEIGHT	2021(A)2200 UNCLASSIFIED EXCAVATION		509(A) 0200 CLASS AA CONC.	511(B)2300 EPOXY COATED REINFORCING STEEL		619(B)6300 REMOVAL OF 3'X2' HEADWALL*		619(B)6300 REMOVAL OF 4'X2' HEADWALL*		619(B)6300 REMOVAL OF 6'X3' HEADWALL*		611(G)0384 PRECAST INLET (SMD TYPE 2A)		613(A)6220 30" R.C. PIPE CLASS III (ROUND)		613(A)6724 30" PREFAB. CULVERT END SECTION, ROUND	
							LF	LF		CY	CY	CY	LBS	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
CD1	592+97	EXT. EX. 2- 4'X2'X138.6' LG RCB, SK 0 °RF, 22.5' LT SK 30 °B2 RT	RCB	SBI-5-2, RCB-C1-384&5(2-20)-01E, RCB-CW1-D4-30-01E & RCB-E1-H2-30-(1-3)-01E	4	3	85.00	3.00	46.20	4184.00	-	2	-	-	-	-	-	-	-	-	-	-	
CD2	597+32	EXT. EX. 8'X3'X126.9' LG RCB, SK 0 °RF, 14' LT & 16' RT SK 0 °	RCB	SBI-5-2, RCB-C1-8(2-14)-01E, RCB-CW1-D4-0-01E & RCB-E1-H2-0-1-01E	8	4	80.00	3.00	63.00	6204.00	-	-	-	2	-	-	-	-	-	-	-	-	
CD3	606+34	EXT. EX. 3'X2'X109.5' LG RCB, SK 0 °RF, 9' LT & 17' RT	RCB	SBI-5-2, RCB-C1-384&5(2-20)-01E, RCB-CW1-D4-0-01E & RCB-E1-H2-0-1-01E	3	3	38.00	1.00	23.20	2280.00	2	-	-	-	-	-	-	-	-	-	-	-	
CD4	638+25	CONST. SMD TYPE 2A w/ 30"x64" LG RCP LT w/ PCES & 30"x68" LG RCP RT w/ PCES	CD MEDIAN INLET	PSMD-2-2, PCES-5-1, FHTCP-4-1, PBB-1-2, FHTCP-4-1	0	3	-	-	-	-	-	-	-	-	-	-	-	1	132	2	-	-	
CD5	659+66	EXT. EX. 2- 6'X3'X108.5' LG RCB, SK 0 °RF, 10' LT & 8' RT w/WING WALLS	RCB	SBI-5-2, RCB-C2-6(12-20)-01E, RCB-CW2-D4-0-01E & RCB-E1-H2-0-1-01E	6	4	42.00	2.00	42.80	5662.00	-	2	2	-	-	-	-	-	-	-	-	-	
10A	664+69 RT	CONST. 5'X5'X42" LG RCB CONNECT TO STR. 10 & EXIST. 6'X6'X247" LG RCB SK 30 °RT	RCB	SBI-5-2, RCB-C1-384&5(2-20)-01E, RCB-CW1-D4-30-01E & RCB-E1-H2-0-1-01E	5	5	112.00	3.00	45.50	4079.00	-	-	-	-	-	-	-	-	-	-	-	-	
							TOTAL	357	12	221	22409	2	4	2	2	1	132	2					

\* FOR INFORMATION PURPOSES ONLY. COST INCLUDED IN OTHER ITEMS OF WORK

**SUMMARY OF STORM SEWERS AND DRAINAGE STRUCTURES**

STR. NO.	STATION LOCATION	DESCRIPTION	PROPOSED PIPES						613(V) 8000 TRENCH EXCAV. UNCL. CY
			ROUND					ELLIP.	
			18"	24"	36"	42"	48"	14"X23"	
			LF	LF	LF	LF	LF	LF	CY
1	651+00	LT CICI W/ 90 LF OF 18" RCP INTO STR. 2	90						107.67
2	651+00	RT CICI W/ PJB INTO EXIST. 30" RCP							
3	652+80	LT CICI W/ 90 LF OF 14"X23" RCPE INTO STR 4					90		32.30
4	652+80	RT CICI W/ PJB W/ 54 LF OF 36" RCP INTO STR 5			54				28.00
5	652+50	RT 6'X6' JCT BOX W/ 412 LF OF 36" RCP W/ PCES RT			412				792.26
6	661+00	LT CICI W/ 90 LF OF 18" RCP INTO STR J2	90						32.25
7	661+00	RT CICI W/ PJB W/ 130 LF OF 24" RCP INTO STR CD5		130					59.66
8	663+54	RT CICI W/ PJB W/ 252 LF OF 24" RCP INTO STR 7		252					88.76
9	664+93	RT CICI W/ 4 LF OF 18" RCP INTO STR 10	4						0.99
10	664+93	RT CICI W/ PJB CONNECT TO STR 10A							
11	664+93	LT CICI W/ 90 LF OF 18" RCP INTO STR. 10	90						30.58
12	667+10	RT CICI W/ PJB W/ 212 LF OF 48" RCP INTO STR 10					212		259.50
13	668+05	RT CICI W/ 4 LF OF 18" RCP INTO STR 14	4						0.99
14	668+05	RT CICI W/ PJB W/ 90 LF OF 48" RCP INTO STR. 12					90		104.33
15	668+05	LT CICI W/90 LF OF 18" RCP INTO STR J3	90						26.42
16	669+48	LT CICI W/90 LF OF 18" RCP INTO STR J3-A	90						26.42
17	669+48	RT CICI W PJB W/ 138 LF OF 48" RCP INTO STR 14					138		146.18
18	669+72	RT SPC. INLET W/ 18 LF OF 48" RCP INTO STR 17					18		18.67
19	670+11	RT CICI W/ PJB W/ 34 LF OF 48" RCP INTO STR 18					34		34.50
20	671+25	RT CICI W/ PJB W/ 108 LF OF 48" INTO STR 19					108		103.60
21	671+85	RT SPC. INLET W/ 32 LF 18" RCP INTO STR 23	32						9.01
22	672+30	RT CICI W/ PJB W/ 14 LF OF 18" RCP INTO STR J23	14						6.52
23	672+22	RT CICI W/ 18 LF OF 48" RCP INTO STR J23					18		16.93
24	672+30	LT CICI W/ 92 LF OF 18" RCP INTO STR J4	92						28.71
25	673+88	RT CICI W/ PJB W/ ACC MH W/ 150 LF OF 48" RCP INTO STR 22					150		143.61
26	675+04	RT SPC. INLET W/ 110 LF OF 48" RCP INTO STR 25					110		112.04
27	677+09	RT CICI W/ PJB W/ 195 LF OF 48" RCP INTO STR 26					195		211.97
28	677+65	RT SPC. INLET W/ 50 LF OF 48" RCP INTO STR 27					50		52.97
29	679+12	RT CICI W/ PJB W/ 141 LF OF 48" RCP INTO STR 28					141		135.26
30	680+78	RT SPC. INLET W/ 18 LF OF 24" RCP INTO STR J30		18					8.20
32	681+17.5	RT CICI W/ PJB W/ 26 LF OF 48" RCP INTO STR J30					26		24.89
33	681+27	LT CICI W/ 92 LF OF 18" RCP INTO STR J5	92						29.39
34	683+46	RT CICI W/ PJB W/ 100 LF OF 42" RCP INTO STR J38 & STR 32				220			
36	684+08	RT SPC. INLET W/ 20 LF OF 36" RCP INTO STR J35			20				
37	684+20	RT CICI W/ 44 LF OF 36" RCP INTO STR J6			44				
38	684+55	LT CICI W/ PJB W/ 104 LF OF 42" RCP INTO STR J35				104			
39	686+67	RT CICI W/ PJB W/ 251 LF OF 42" RCP INTO STR 38				251			
40	688+38	RT CICI W/ PJB W/161 LF OF 42" RCP INTO STR 39				161			
41	689+84	RT SPC. CICI W/141 LF OF 42" RCP INTO STR 40				141			
42	691+95	RT CICI W/ PJB W/ 205 LF OF 42" RCP INTO STR 41				205			
43	692+76	RT CICI W/ PJB W/74 LF OF 36" RCP INTO STR 42			74				
44	693+80	RT CICI W/ PJB W/ 96 LF OF 36" RCP INTO STR 43			96				
45	694+84	RT CICI W/ACC MH W/101 LF OF 36" RCP INTO STR 44			101				
TOTALS			688	400	801	1082	1290	90	2672.57

OKLAHOMA DEPARTMENT OF TRANSPORTATION

**FINAL FIELD MEETING**  
October 2023

**U.S. HIGHWAY 69**  
**SUMMARY SHEET (4 OF 6)**  
 MUSKOGEE COUNTY PROJECT NO. 27108(04) SHEET NO. AX04



SUMMARY OF MANHOLE AND JUNCTION BOX DRAINAGE STRUCTURES																
STRUCTURE NUMBER	C.R.L. STATION	DESCRIPTION	DESIGN STANDARD	STRUCTURE TYPE	T.GRIM ELEV.	FLOW LINE ELEV.	FILL HEIGHT	509(A)0200 CLASS "AA" CONCRETE	611(B)2300 EPOXY COATED REINFORCING STEEL	611(A)7210 MANHOLE (4' DIA.)	611(A)7215 MANHOLE (6' DIA.)	611(A)7230 MANHOLE (8' DIA.)	611(B)7320 ADD'L DEPTH IN MANHOLE (8' DIA.)	611(L)1610 SPECIAL JUNCTION BOXES		
							LF	CY	LBS	EA	EA	EA	VF	EA		
J1	661+00	CONST. 4' DIA. MH W/ 40 LF OF 18" RCP INTO STR 7	PRM-1-2, MFC-5-1, PMD-1-1	MH	584.85	579.89	4.96			1						
10A	664+69 RT	CONST. 5'5"x42" LG RCB CONNECT INTO EXIST. 6'X6"x24" LG RCB SK 30 °STR	RCB-C1-38485(2-20)-01E	RCB	583.6	578.6	5	2.604	4078.2							
J2	668+05	CONST. 8' DIA. MH W/ 40 LF OF 18" RCP INTO STR 14 CONNECT EXIST. 48" RCP N	PRM-1-2, MFC-5-1, PMD-1-1	MH	589.05	582.89	6.16					1	0.16			
J3	669+58	CONST. 8' DIA. MH W/ 40 LF OF 18" RCP INTO STR 17 CONNECT EXIST. 48" RCP N-S	PRM-1-2, MFC-5-1, PMD-1-2	MH	589.96	583.32	6.64					1	0.64			
J4	672+10	CONST. 8' DIA. MH W/ 44 LF OF 18" RCP INTO STR J23 CONNECT EXIST. 48" RCP N-S	PRM-1-2, MFC-5-1, PMD-1-1	MH	592.34	587.84	4.5					1	1.5			
J23	672+10	CONST. 6'5"x12" SKW 30 JCT BOX INTO STR. 20 (S), CONN. STR 22 (N), STR 23 (SE) & STR J4	MFC-5-1	JNCT BX	591.04	586.25	4.79									1
J30	680+78	CONST. 6'5"x6" JCT BOX W/ACCESS MH, W/48" RCP N-S AND 24" RCP E	MFC-5-1	JNCT BX	598.17	593.13	5.04									1
J5	681+27	CONST. 5' DIA. MH W/ 44 FT OF 18" RCP INTO STR 32 CONNECT 36" RCP S-N	PRM-1-2, MFC-5-1, PMD-1-1	MH	599.77	594.86	4.91			1						
J38	682+20	CONST. 6'5"x6" JCT BOX W/ACCESS MH, W/42" RCP N-S	MFC-5-1	JNCT BX	602.43	597.68	4.75									1
J35	683+48	CONST. 6'5"x10" JCT BOX W/ACCESS MH, W/42" RCP N-S 18" RCP (NE) & 24" RCP E	MFC-5-1	JNCT BX	604.09	599.51	4.58									1
J6	684+26	CONST. 5' DIA. MH W/ 52 LF OF 18" RCP INTO STR J35 (SW) CONNECT EXIST 36" RCP (N-S)	PRM-1-2, MFC-5-1, PMD-1-1	MH	605.57	600.92	4.65				1					
J45	695+87	CONST. 5'X6" JCT BOX W/ 50 LF OF 24" RCP INTO STR 45 CONNECT EXIST 30" RCP	PRM-1-2, MFC-5-1, PMD-1-1	JNCT BX	609.13	605.01	4.12									1
TOTAL								3	4079	1	2	3	3		5	

SUMMARY OF SLOPEWALL				
C.R. L. STA. TO C.R.L. STA.	SIDE	PLAN AREA (SF)	PLAN AREA (SY)	
593+00.00	RT	1363.93	151.55	
672+36.00	RT	46.92	5.21	
672+78.00 TO 64+12.00	RT	434.02	48.22	
690+90.00 TO 691+70.00	RT	327.60	36.40	
696+50.00 TO 698+06.5	RT	422.96	47.00	
698+24.00	RT	30.19	3.35	
698+45.00	RT	66.69	7.41	
TOTAL		2693.00	300.00	

SUMMARY OF FENCE INSTALLATION												
C.R.L. STA. TO C.R.L. STA.	LOCATION		624 3100 (PL) ORNAMENTAL FENCE	624 3110 (PL) WOOD PRIVACY FENCE	624(A) 3200 FENCE-STYLE WWF	624(C) 3400 FENCE-STYLE SWF (4 BARBED WIRE)	624(C) 3405 FENCE-STYLE SWF (5 BARBED WIRE)	624(C) 3410 FENCE-STYLE SWF (6 BARBED WIRE)	624(E) 3600 FENCE-STYLE CLF (4' HIGH, CLASS A)	624(E) 3610 FENCE-STYLE CLF (5' HIGH, CLASS A)	624(E) 3620 FENCE-STYLE CLF (6' HIGH, CLASS A)	REMARKS
	LEFT	RIGHT	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	
567+12.62 TO 573+35.72	X							623				BASED ON PROP. ROW
580+08.42 TO 580+23.12		X			15							BASED ON PROP. ROW
580+57.60 TO 584+1.76		X			345							BASED ON PROP. ROW
583+36.10 TO 584+58.31	X										122	BASED ON PROP. ROW
584+43.00 TO 585+38.46		X			96							BASED ON PROP. ROW
584+88 TO 588+21	X										333	BASED ON PROP. ROW
585+82 TO 586+67.89		X			86							BASED ON PROP. ROW
586+70.53 TO 587+12.48		X					42					BASED ON PROP. ROW
588+39.50 TO 593+01	X				462							BASED ON PROP. ROW
593+59.36 TO 596+42.45	X		283									BASED ON PROP. ROW
607+96 TO 609+98		X									202	BASED ON PROP. ROW
610+10 TO 610+75		X		65								BASED ON PROP. ROW
615+65 TO 619+73		X	411									BASED ON PROP. ROW
619+71 TO 621+56	X						183					BASED ON PROP. ROW
619+79 TO 638+51		X				600	280	298	502			BASED ON PROP. ROW
649+40 TO 652+50		X							433			BASED ON PROP. ROW & INCLUDES SIDE FENCE
655+44 TO 660+02	X									517		BASED ON PROP. ROW & INCLUDES SIDE FENCE
656+07 TO 656+53		X		70								BASED ON PROP. ROW
659+01 TO 659+73		X		163								BASED ON PROP. ROW & INCLUDES SIDE FENCE
659+73 TO 662+04		X								295		BASED ON PROP. ROW
679+11 TO 680+62		X	219									BASED ON PROP. ROW
TOTAL			913	298	1004	600	1108	298	935	1014	455	

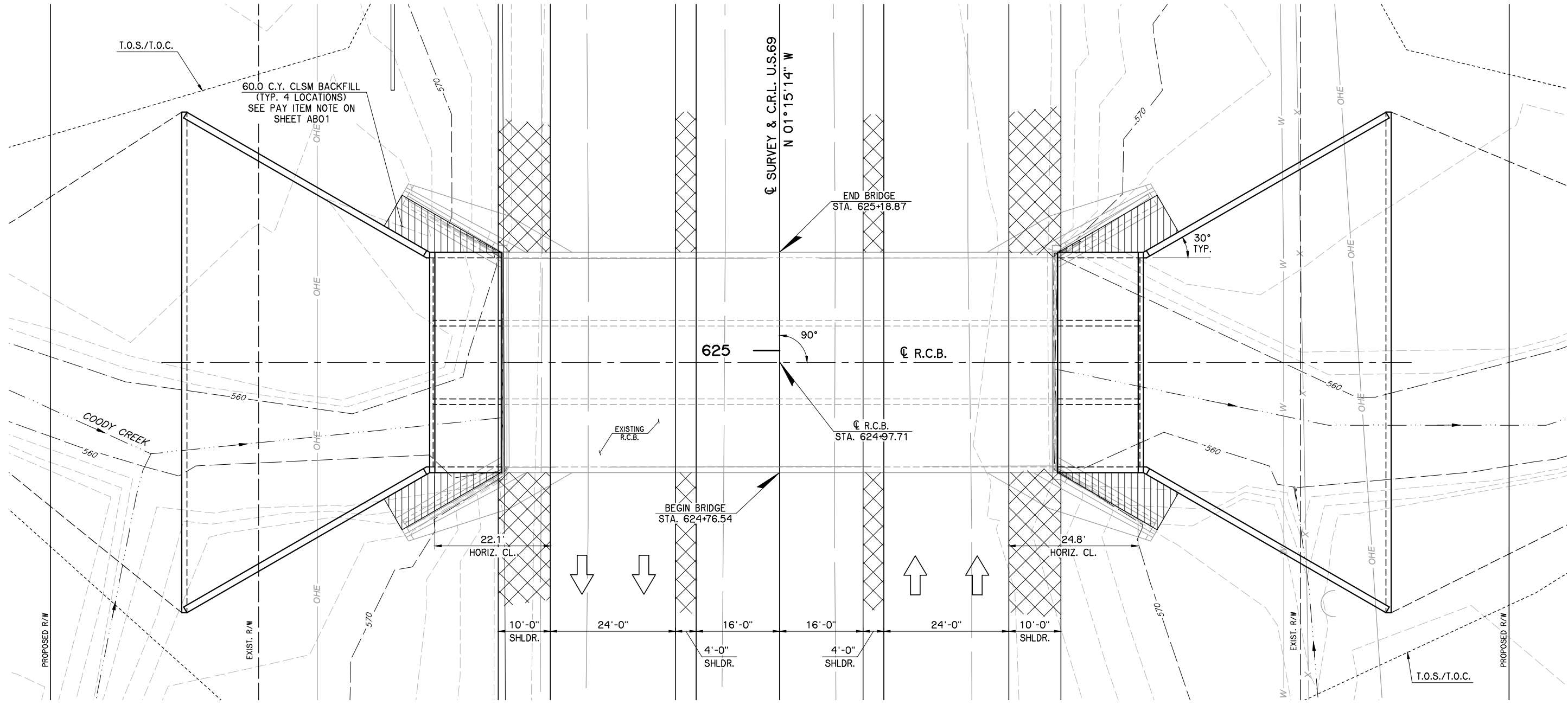
SUMMARY OF PERMANENT EROSION CONTROL			
C.R.L. STA. TO C.R.L. STA.	205(A)6210 SALVAGED TOP SOIL TYPE A	230(A)7200 SOLID SLAB SODDING	233(A)0200 VEGETATIVE MULCHING
	CY	SY	AC
566+00 TO 568+00	33.74	241	0.22
568+00 TO 583+00	174.3	1245	2.61
583+00 TO 598+00	142.24	1016	2.52
598+00 TO 613+00	161.84	1156	2.18
613+00 TO 628+00	150.92	1078	1.93
628+00 TO 643+00	168.84	1206	2.33
643+00 TO 658+00	170.66	1219	1.79
658+00 TO 664+00	61.6	440	0.23
664+00 TO 670+00	56	400	0.13
670+00 TO 676+00	42.14	301	0.08
676+00 TO 682+00	41.3	295	0.08
682+00 TO 688+00	42.28	302	0.00
688+00 TO 694+00	39.76	284	0.00
694+00 TO 698+86	10.92	78	0.00
BORDER	67.62	483	0.00
HANCOCK	38.92	278	0.00
PED. BRIDGE	667.52	4768	0.00
SUB-TOTAL	2071	14790	15
MISCELLANEOUS	1429	9306	0.00
TOTAL	3500	14790	15.00

SUMMARY OF TEMPORARY EROSION CONTROL					
STA. TO STA.	LOCATION AND PLACEMENT DESCRIPTION	221(B)2300 TEMPORARY SILT FENCE	221(C)2410 REINFORCED SILT FENCE	221(E)2600 TEMPORARY SILT DIKE	221(H)2900 TEMPORARY INLET SEDIMENT FILTER
		LF	LF	LF	EA
533+00 TO 568+00	LT. & RT DITCH BOTTOM & ALONG FORESLOPE	217			217
568+00 TO 583+00	LT. & RT DITCH BOTTOM & ALONG FORESLOPE	509			132
583+00 TO 598+00	LT. & RT DITCH BOTTOM & ALONG FORESLOPE	1255			193
598+00 TO 613+00	LT. & RT DITCH BOTTOM & ALONG FORESLOPE	185			227
613+00 TO 628+00	LT. & RT DITCH BOTTOM & ALONG FORESLOPE	1189			311
628+00 TO 643+00	LT. & RT DITCH BOTTOM & ALONG FORESLOPE	725			96
643+00 TO 658+00	LT. & RT DITCH BOTTOM & ALONG SLOPES & INLETS	130	160	84	2
658+00 TO 664+00	LT. & RT DITCH BOTTOM & ALONG SLOPES & INLETS	213	80	36	2
664+00 TO 670+00	TEMP PROTECTION LT/RT PROP. STRUCT. & INLETS	288	500		7
670+00 TO 676+00	TEMP PROTECTION LT/RT PROP. STRUCT. & INLETS	252	800		8
676+00 TO 682+00	TEMP PROTECTION LT/RT PROP. STRUCT. & INLETS	465	620		5
682+00 TO 688+00	TEMP PROTECTION LT/RT PROP. STRUCT. & INLETS	271	400		3
688+00 TO 694+00	TEMP PROTECTION LT/RT PROP. STRUCT. & INLETS	179	200		5
694+00 TO 698+86	TEMP.PROTECTION LT/RT PROP. STRUCT. & INLETS	92	120		3
TOTAL		5970	2880	1175	35

HUB Engineering  
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OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
 October 2023

**U.S. HIGHWAY 69**  
**SUMMARY SHEET (6 OF 6)**  
 MUSKOGEE COUNTY PROJECT NO. 27108(04) SHEET NO. AX06



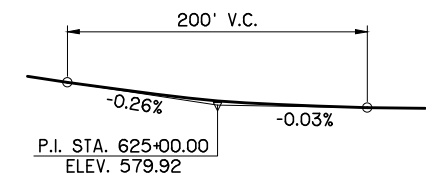
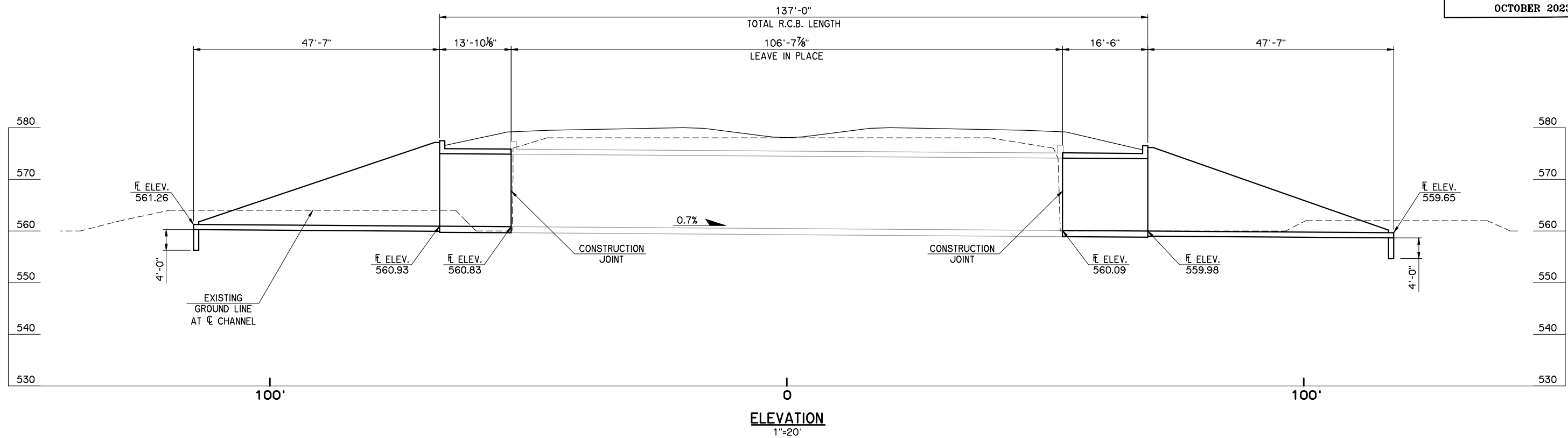
**PLAN**  
1"=10'

BM #10  
CL SURVEY STA. 625+18.3, 52.6' LT.  
CHISELED "X" WEST HDWL.  
ELEV. 576.07

THIS DOCUMENT  
IS PRELIMINARY  
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IS NOT A FINAL,  
SIGNED AND  
SEALED  
DOCUMENT

U.S.69 OVER COODY CREEK		MUSKOGEE COUNTY	
BRIDGE "A"		Design	CEG
GENERAL PLAN AND ELEVATION (1 OF 2)		Detail	DRB
12'-14'-12' x 14' x 137' R.C.B.		Check	AFW
CL STA. 624+76.71, 0° SKEW		CEC	
<b>STATE OF OKLAHOMA</b>		DEPARTMENT OF TRANSPORTATION	
JOB PIECE NO. 27108(O4)		SHEET NO. BOO1	

L:\Active\1454\Drawings\Bridges\PE.dwg, 10/10/2023 8:53:00 AM, Deanne Brittan



**VERTICAL CURVE DATA**  
U.S.69

**DESIGN DATA**

CONCRETE CLASS AA  $f'_c = 4$  K.S.I.  
REINFORCING STEEL (GRADE 60)  $f_y = 60$  K.S.I.

LOADING:  
HL-93 OR OKLAHOMA OVERLOAD TRUCK

DESIGN:  
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION

HL-93 INVENTORY RATING FACTOR: 1.36  
HL-93 OPERATING RATING FACTOR: 1.81

**INDEX OF SHEETS**

AB01 SUMMARY OF PAY QUANTITIES & GENERAL NOTES (BRIDGE)  
B001-B002 GENERAL PLAN AND ELEVATION  
B003-B004 BARREL DETAILS  
B005-B006 END SECTION DETAILS

**STANDARDS**

SBI-5-1

**HYDRAULIC DATA**

TOTAL DRAINAGE AREA = 5.86 SQ. MILES  
CONTROLLED DRAINAGE AREA = 0.00 SQ. MILES  
EFFECTIVE DRAINAGE AREA = 5.86 SQ. MILES

Q2 = 882 C.F.S.  
V2 = 2.56 F.P.S.  
Q2 COMPUTED HIGHWATER ELEVATION = 567.74 FT.

Q5 = 1700 C.F.S.  
V5 = 4.10 F.P.S.  
Q5 COMPUTED HIGHWATER ELEVATION = 569.27 FT.

Q10 = 2470 C.F.S.  
V10 = 5.41 F.P.S.  
Q10 COMPUTED HIGHWATER ELEVATION = 570.40 FT.

Q25 = 3750 C.F.S.  
V25 = 7.39 F.P.S.  
Q25 COMPUTED HIGHWATER ELEVATION = 572.20 FT.

Q50 = 4580 C.F.S.  
V50 = 8.59 F.P.S.  
Q50 COMPUTED HIGHWATER ELEVATION = 573.50 FT.

Q100 = 5600 C.F.S.  
V100 = 10.03 F.P.S.  
Q100 COMPUTED HIGHWATER ELEVATION = 575.30 FT.

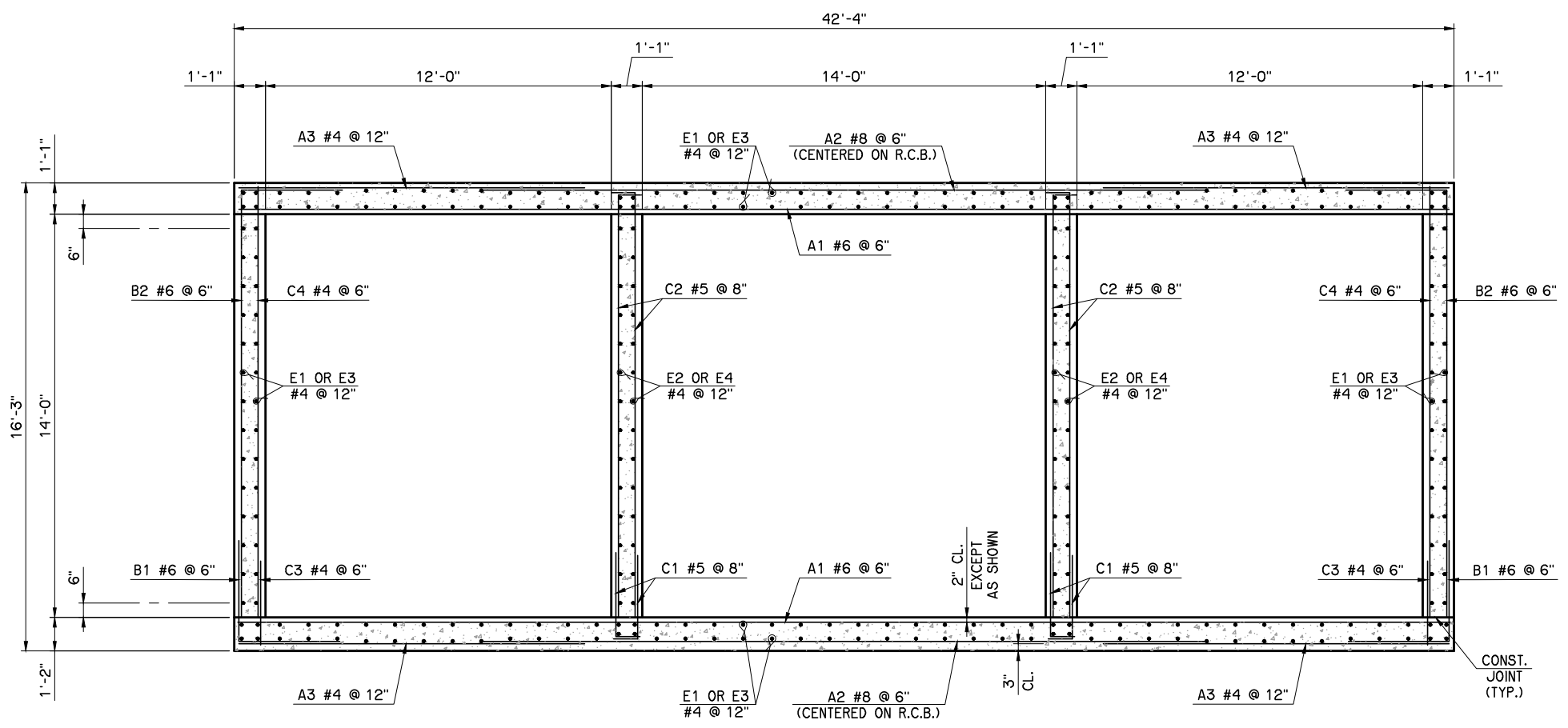
Q500 = 8320 C.F.S.  
V500 = 13.67 F.P.S.  
Q500 COMPUTED HIGHWATER ELEVATION = 580.01 FT.

Q0T = Q400  
Q400 = 7645 C.F.S.  
V400 = 12.77 F.P.S.  
Q400 COMPUTED HIGHWATER ELEVATION = 579.56 FT.

SUMMARY OF QUANTITIES - BRIDGE "A"		
ITEM	UNIT	TOTAL
UNCLASSIFIED EXCAVATION	C.Y.	1,160
STRUCTURAL EXCAVATION UNCLASSIFIED	C.Y.	255
CLSM BACKFILL	C.Y.	235.7
CLASS AA CONCRETE	C.Y.	622.9
REINFORCING STEEL	LB.	88,860

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U.S.69 OVER COODY CREEK		MUSKOGEE COUNTY	
BRIDGE "A"		Design	CEG
GENERAL PLAN AND ELEVATION (2 OF 2)		Detail	DRB
12'-14'-12' x 14' x 137' R.C.B.		Check	AFW
CL. STA. 624+7.71, 0° SKEW		CEC	
STATE OF OKLAHOMA		DEPARTMENT OF TRANSPORTATION	
JOB PIECE NO. 27108(O4)		SHEET NO. B002	



**TYPICAL CROSS SECTION**

PLACE WD, AD1, AND AL1 BARS FROM APRON AND WINGS TIED TO BARREL REINFORCING BEFORE PLACING BARREL CONCRETE. SEE APRON AND WING DETAILS ON SHEET B005-B006.

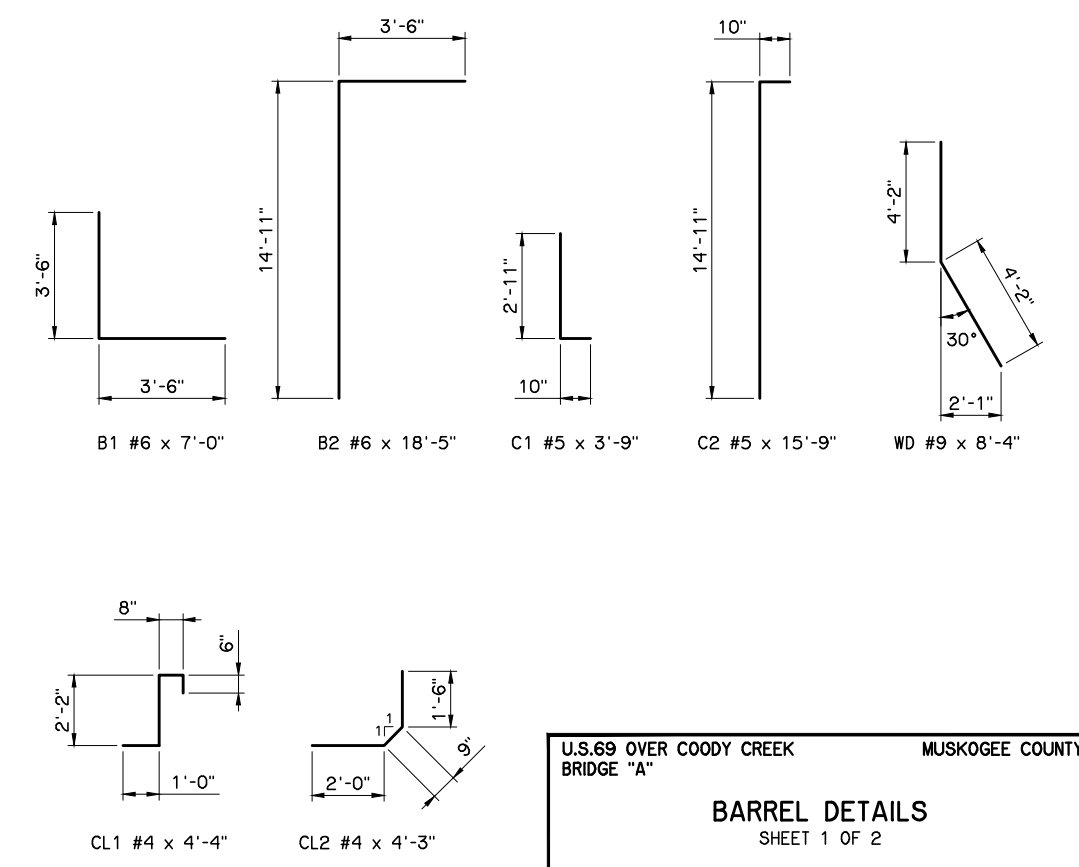
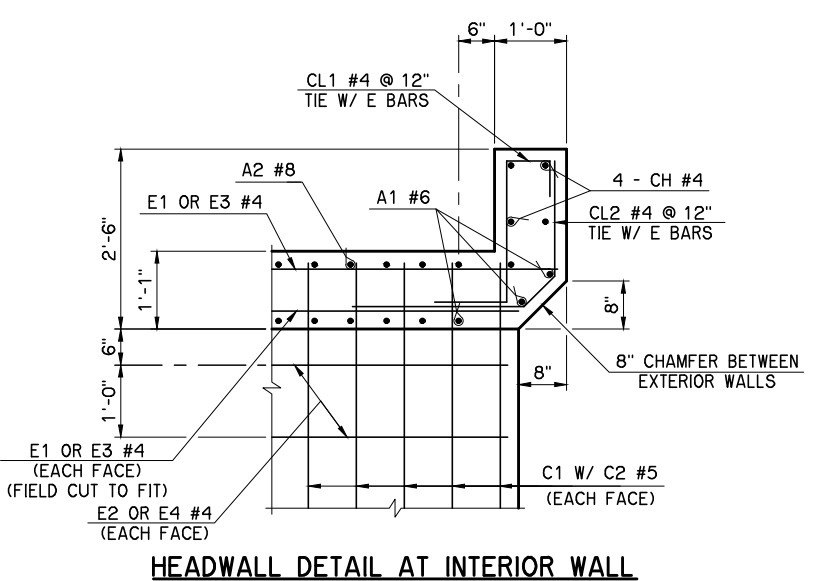
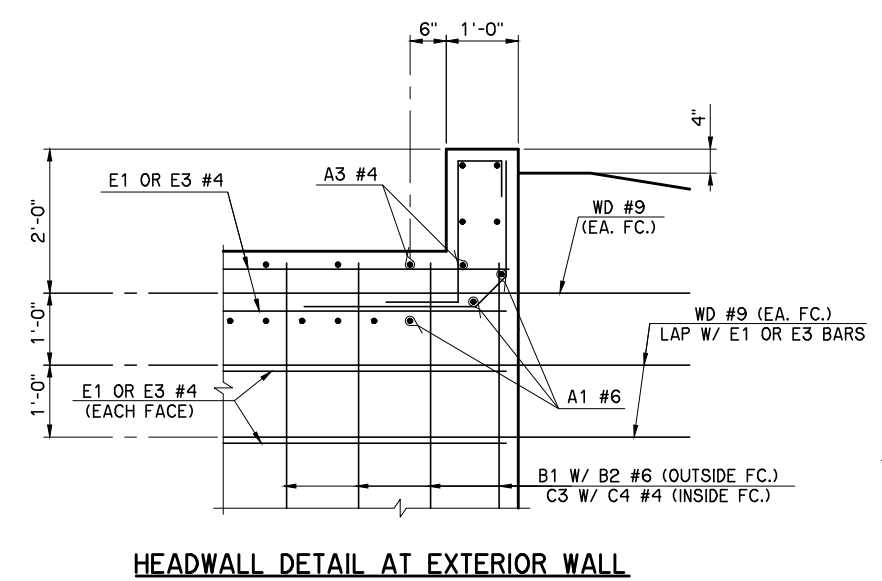
NOTE: SEE SHEET B004 FOR ADDITIONAL SLAB REINFORCING DETAIL, BARREL CONNECTION DETAIL, AND BARREL TRANSITION DETAILS.

**WEST BARREL AND HEADWALL  
BAR LIST**

MARK	SIZE	NO.	FORM	LENGTH
PLAIN REINFORCING				
A1	#6	42	STR.	42'-0"
A2	#8	40	STR.	25'-0"
A3	#4	40	STR.	12'-0"
A4	#9	14	STR.	42'-0"
A5	#6	8	STR.	12'-0"
A6	#9	22	STR.	25'-0"
B1	#6	56	BNT.	7'-0"
B2	#6	56	BNT.	18'-5"
C1	#5	84	BNT.	3'-9"
C2	#5	84	BNT.	15'-9"
C3	#4	56	STR.	2'-11"
C4	#4	56	STR.	14'-11"
CH	#4	4	STR.	42'-0"
CL1	#4	43	BNT.	4'-4"
CL2	#4	43	BNT.	4'-3"
D	#4	296	STR.	2'-9"
E1	#4	240	STR.	13'-6"
E2	#4	56	STR.	12'-10"
WD	#9	60	STR.	8'-4"

**EAST BARREL AND HEADWALL  
BAR LIST**

MARK	SIZE	NO.	FORM	LENGTH
PLAIN REINFORCING				
A1	#6	54	STR.	42'-0"
A2	#8	50	STR.	25'-0"
A3	#4	52	STR.	12'-0"
A4	#9	14	STR.	42'-0"
A5	#6	8	STR.	12'-0"
A6	#9	22	STR.	25'-0"
B1	#6	68	BNT.	7'-0"
B2	#6	68	BNT.	18'-5"
C1	#5	100	BNT.	3'-9"
C2	#5	100	BNT.	15'-9"
C3	#4	68	STR.	2'-11"
C4	#4	68	STR.	14'-11"
CH	#4	4	STR.	42'-0"
CL1	#4	43	BNT.	4'-4"
CL2	#4	43	BNT.	4'-3"
D	#4	296	STR.	2'-9"
E1	#4	240	STR.	16'-2"
E2	#4	56	STR.	15'-6"
WD	#9	60	STR.	8'-4"



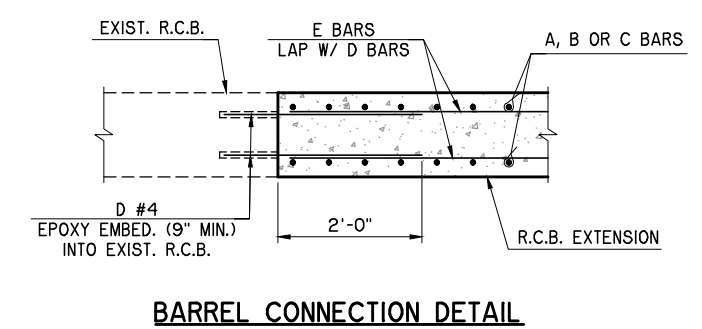
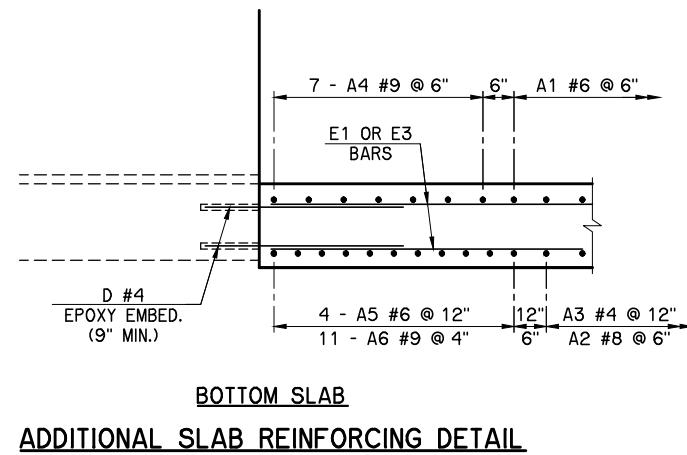
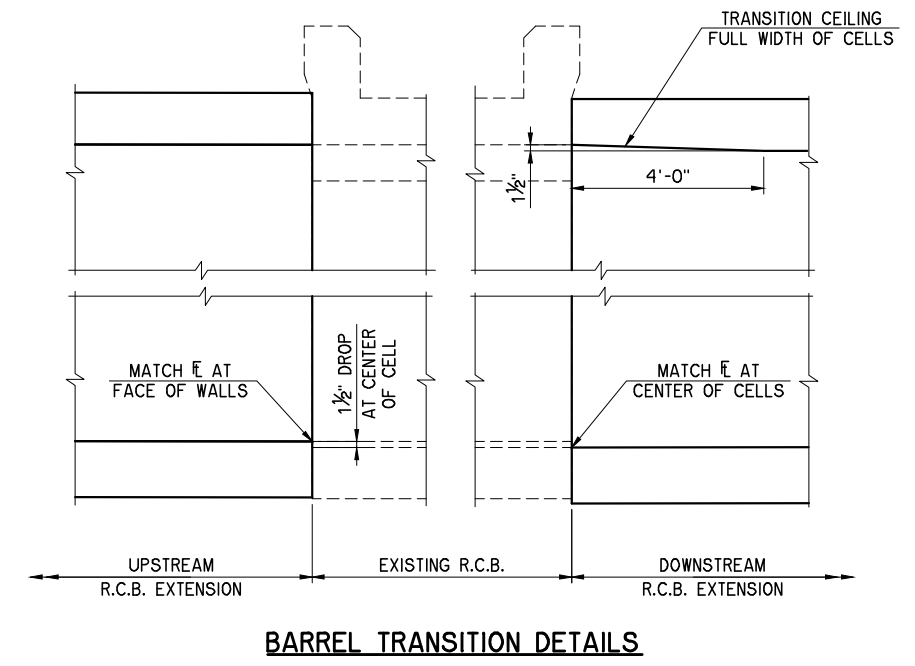
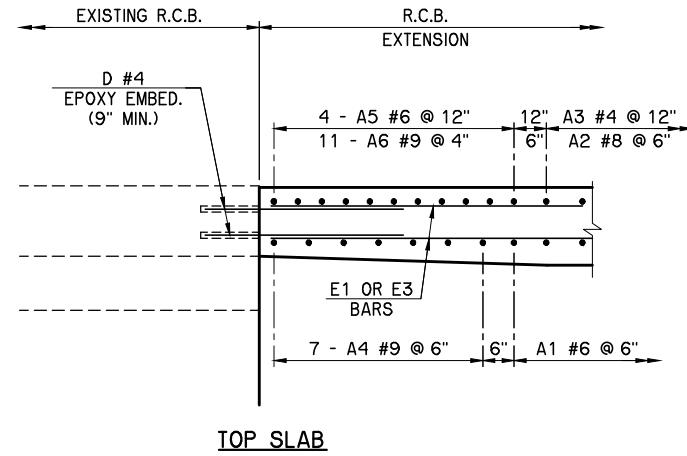
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U.S. 69 OVER COODY CREEK BRIDGE "A" MUSKOGEE COUNTY

Design AFW  
Detail DRB  
Check AFW

**BARREL DETAILS**  
SHEET 1 OF 2

STATE OF OKLAHOMA DEPARTMENT OF TRANSPORTATION  
JOB PIECE NO. 27108(O4) SHEET NO. B003

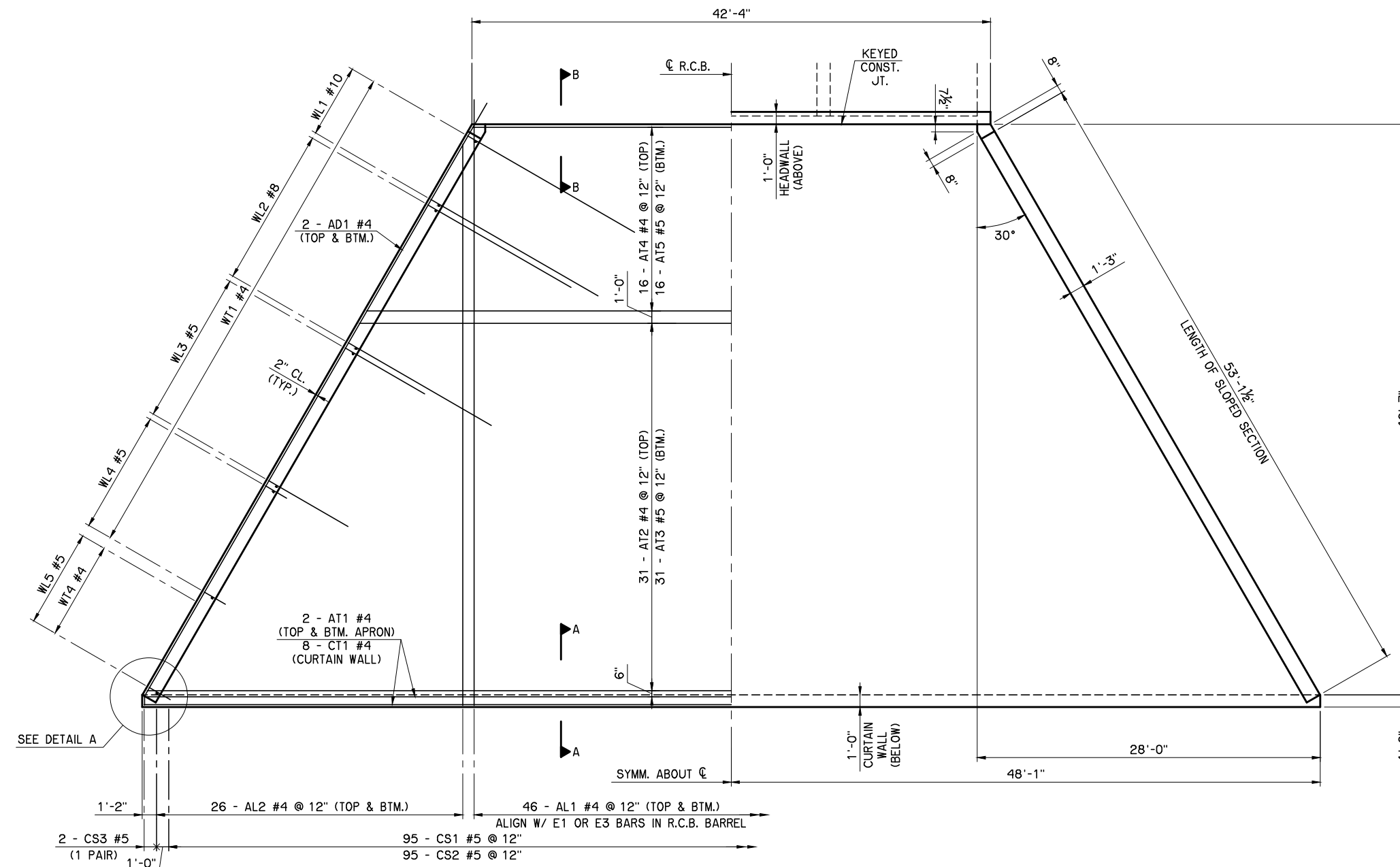


THIS DOCUMENT IS PRELIMINARY IN NATURE AND IS NOT A FINAL, SIGNED AND SEALED DOCUMENT

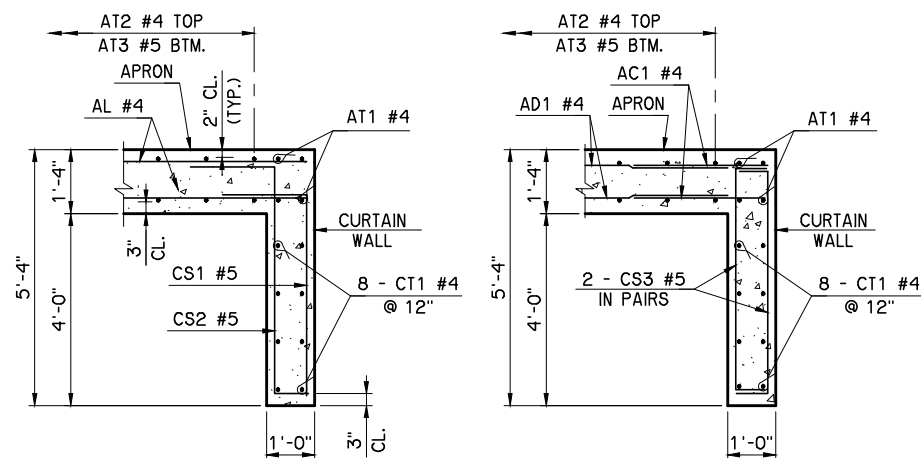
U.S.69 OVER COODY CREEK		MUSKOGEE COUNTY	
BRIDGE "A"		Design	AFW
<b>BARREL DETAILS</b> SHEET 2 OF 2		Detail	DRB
		Check	AFW
<b>STATE OF OKLAHOMA</b>		DEPARTMENT OF TRANSPORTATION	
SHEET NO. B004		SHEET NO. B004	

L:\Active\1454\Drawings\Bridges\A\B004 Barrel 2.dwg, 10/10/2023 8:51:20 AM, Deanne Brittan

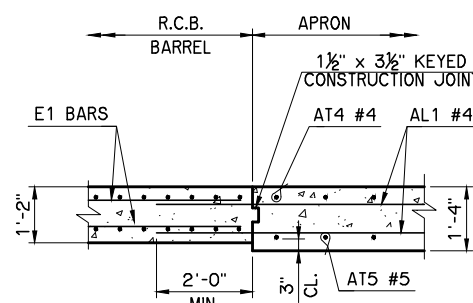
NOTE:  
SEE SHEET B006 FOR WINGWALL  
REINFORCING AND DETAILS, BAR LIST AND  
BAR BENDS.



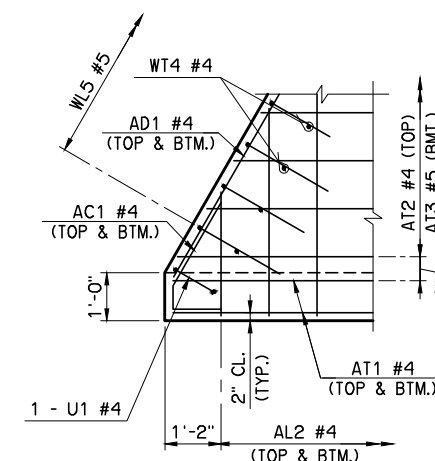
**APRON & CURTAIN WALL PLAN**



**SECTION A-A**



**SECTION B-B**



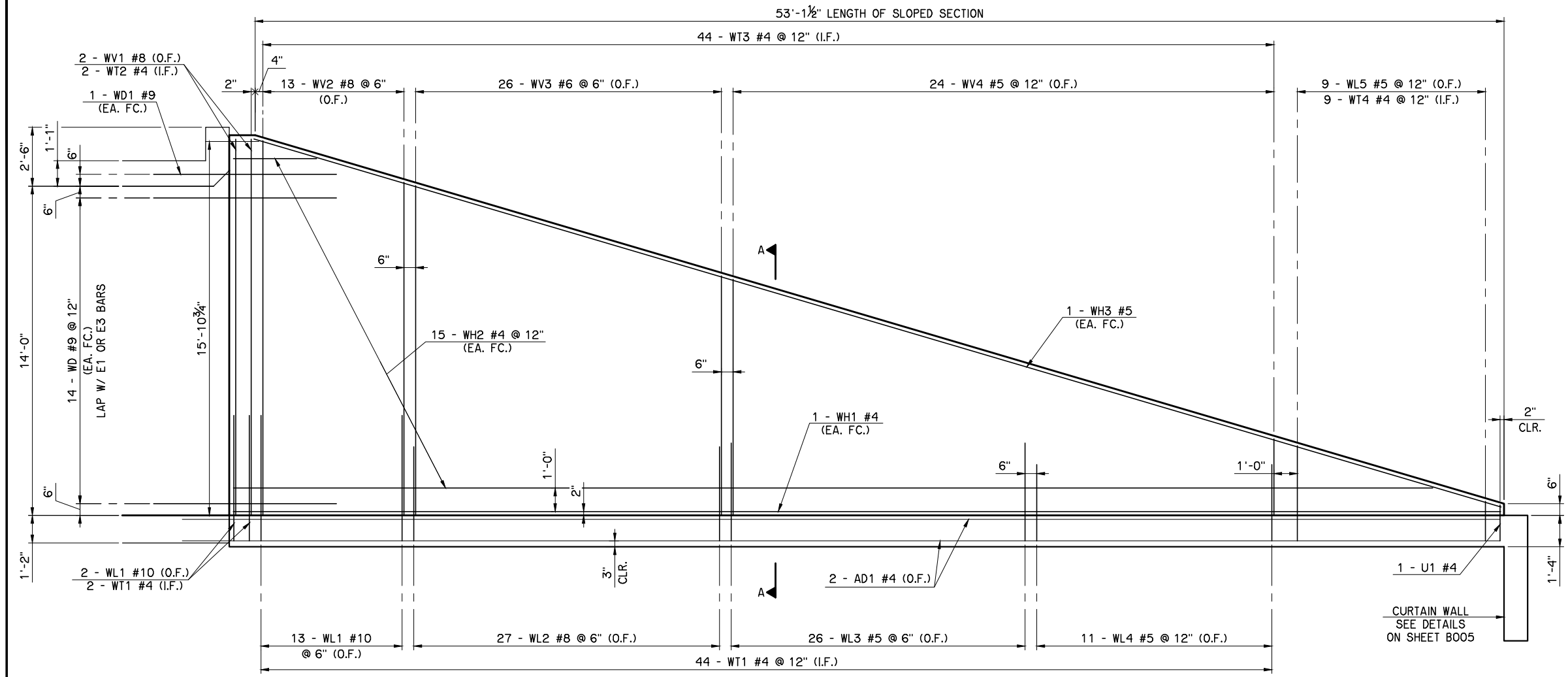
**DETAIL A**

NOTE:  
CURTAIN WALL REINFORCING  
NOT SHOWN FOR CLARITY.

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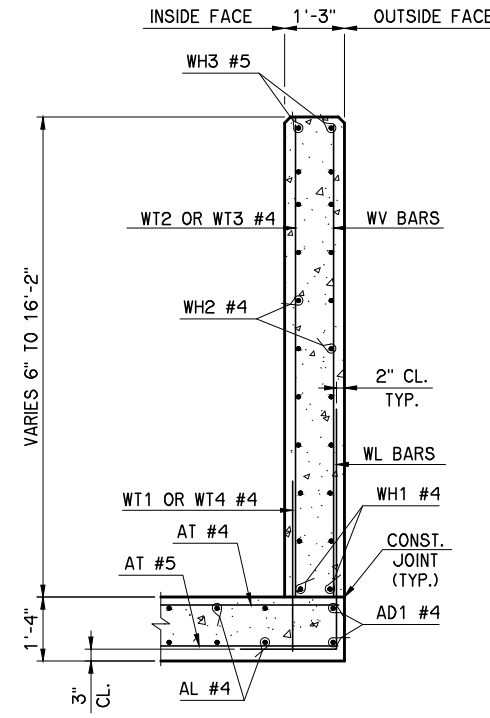
U.S.69 OVER COODY CREEK BRIDGE "A"		MUSKOGEE COUNTY	
Design	AFW	Detail	DRB
<b>END SECTION DETAILS</b>		Check	AFW
SHEET 1 OF 2 APRON & CURTAIN WALL DETAILS		CEC	
<b>STATE OF OKLAHOMA</b>		DEPARTMENT OF TRANSPORTATION	
JOB PIECE NO. 27108(O4)		SHEET NO. B005	



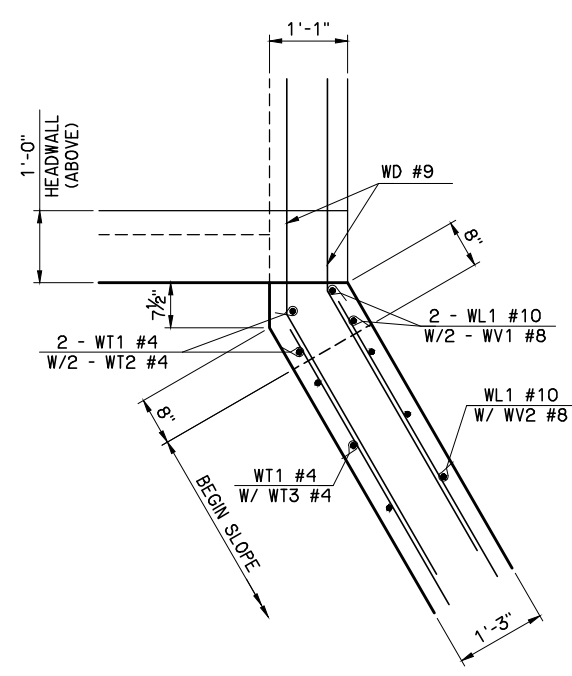


**NOTE:**  
I.F. INDICATES INSIDE FACE OF WING.  
O.F. INDICATES OUTSIDE FACE OF WING.

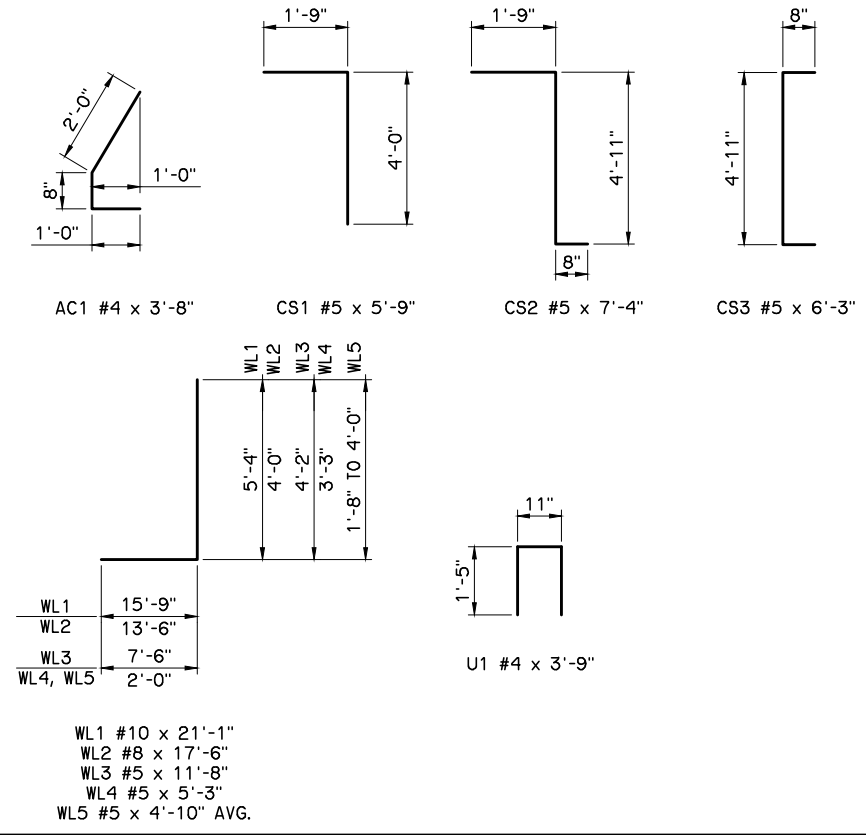
**WING ELEVATION**



**SECTION A-A**



**PLAN OF WING AT BARREL**



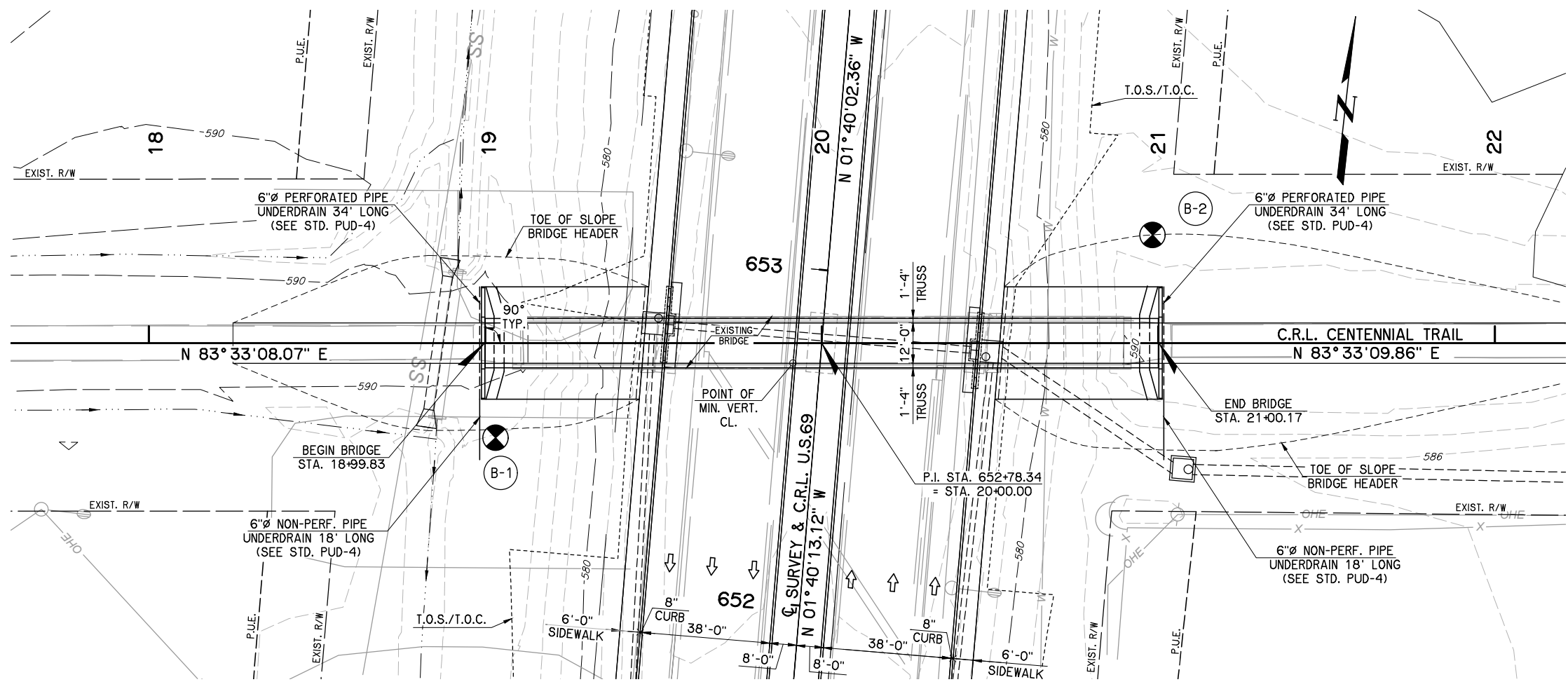
END SECTION BAR LIST					
ONE SHOWN, TWO REQUIRED					
MARK	SIZE	NO.	FORM	LENGTH	LENGTH VARIATION
PLAIN REINFORCING					
AC1	#4	4	BNT.	3'-8"	
AD1	#4	4	STR.	55'-10"	
AL1	#4	92	STR.	49'-5"	
AL2	#4	104	STR.	24'-1" AVG.	2'-5" TO 45'-9"
AT1	#4	4	STR.	98'-4"	
AT2	#4	31	STR.	80'-6" AVG.	63'-2" TO 97'-10"
AT3	#5	31	STR.	80'-6" AVG.	63'-2" TO 97'-10"
AT4	#4	16	STR.	50'-10" AVG.	42'-2" TO 59'-6"
AT5	#5	16	STR.	50'-10" AVG.	42'-2" TO 59'-6"
CS1	#5	95	BNT.	5'-9"	
CS2	#5	95	BNT.	7'-4"	
CS3	#5	4	BNT.	6'-3"	
CT1	#4	8	STR.	98'-4"	
U1	#4	2	BNT.	3'-9"	
WH1	#4	4	STR.	53'-6"	
WH2	#4	60	STR.	26'-11" AVG.	3'-2" TO 50'-8"
WH3	#5	4	STR.	55'-3"	
WL1	#10	30	BNT.	21'-1"	
WL2	#8	54	BNT.	17'-6"	
WL3	#5	52	BNT.	11'-8"	
WL4	#5	22	BNT.	5'-3"	
WL5	#5	18	BNT.	4'-10" AVG.	3'-8" TO 6'-0"
WT1	#4	92	STR.	3'-6"	
WT2	#4	4	STR.	16'-0"	
WT3	#4	88	STR.	9'-6" AVG.	3'-2" TO 15'-10"
WT4	#4	18	STR.	2'-10" AVG.	1'-8" TO 4'-0"
WV1	#8	4	STR.	16'-0"	
WV2	#8	26	STR.	15'-0" AVG.	14'-2" TO 15'-10"
WV3	#6	52	STR.	12'-1" AVG.	10'-2" TO 14'-0"
WV4	#5	48	STR.	6'-8" AVG.	3'-2" TO 10'-2"

- ① 4 SETS OF 26 BARS
- ② INCLUDES 1 - 2'-6" LAP
- ③ 4 SETS OF 15 BARS
- ④ 2 SETS OF 9 BARS
- ⑤ 2 SETS OF 44 BARS
- ⑥ 2 SETS OF 13 BARS
- ⑦ 2 SETS OF 26 BARS
- ⑧ 2 SETS OF 24 BARS

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U.S.69 OVER COODY CREEK BRIDGE "A"	MUSKOGEE COUNTY	Design	AFW
<b>END SECTION DETAILS</b>		Detail	DRB
SHEET 2 OF 2 WINGWALL DETAILS		Check	AFW
<b>STATE OF OKLAHOMA</b>		<b>DEPARTMENT OF TRANSPORTATION</b>	
JOB PIECE NO. 27108(O4)		SHEET NO. B006	

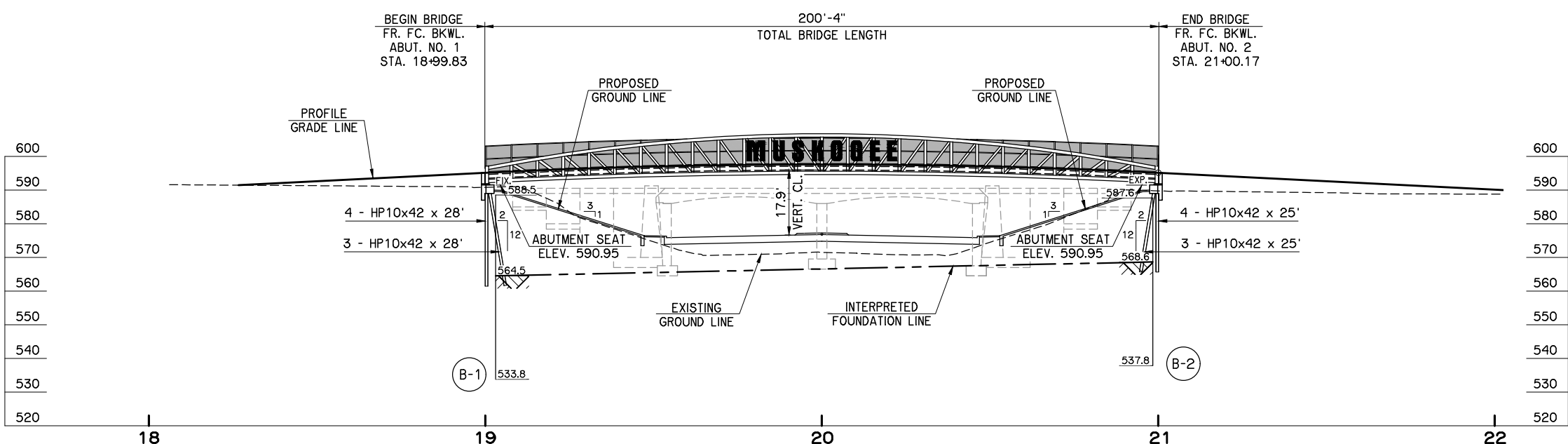
L:\Active\1454\Drawings\Bridges\B006 Wing.dwg, 10/10/2023 8:52:22 AM, Deanne Brittan



BM #10  
CL. SURVEY STA. 646+25, 134.4' LT.  
3" BRASS MON.-CITY OF MUSKOGEE NETWORK STA. V-19  
ELEV. 590.88

**PLAN**  
1"=20'

BM #13  
CL. SURVEY STA. 656+67.8, 116.4' RT.  
CHISELED "X" SW COR. SIDEWALK  
ELEV. 583.06



**ELEVATION**  
1"=20'

USE INTERPRETED FOUNDATION LINE  
FOR ESTIMATING PURPOSES ONLY.

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SIGNED AND  
SEALED  
DOCUMENT

CENTENNIAL TRAIL OVER U.S.69		MUSKOGEE COUNTY	
BRIDGE "B"		Design	CEG
GENERAL PLAN AND ELEVATION (1 OF 2)		Detail	DRB
200' LONG x 12' WIDE STEEL THRU-TRUSS SPAN		Check	AFW
CL. STA. 652+78.34, 5° TURN RT. RWD.		CEC	
<b>STATE OF OKLAHOMA</b>		DEPARTMENT OF TRANSPORTATION	
JOB PIECE NO. 27108(O4)		SHEET NO. 8007	

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**FINAL REVIEW  
PLANS**

OCTOBER 2023

SUMMARY OF BRIDGE QUANTITIES				
ITEM DESCRIPTION	UNIT	ABUTMENTS	SLOPE WALL	TOTAL
SUBSTRUCTURE EXCAVATION COMMON	C.Y.	80		80
GRANULAR BACKFILL	C.Y.	82		82
CLASS A CONCRETE	C.Y.	32.4		32.4
SLOPE WALL (5")	S.Y.		404	404
REINFORCING STEEL	LB.	3,800		3,800
PILES, FURNISHED (HP 10x42)	L.F.	371		371
PILES, DRIVEN (HP 10x42)	L.F.	371		371
PILE SPLICE, H-PILE (NON-BIDDABLE)	EA.	1		1
(PL)INSTALLATION OF BRIDGE ITEMS	L.SUM			1
6" PERFORATED PIPE UNDERDRAIN ROUND	L.F.	68		68
6" NON-PERF. PIPE UNDERDRAIN RND.	L.F.	36		36
REMOVAL OF EXISTING BRIDGE STRUCTURE	L.SUM			1

**DESIGN DATA**

CONCRETE CLASS A f'c = 3 K.S.I.  
 REINFORCING STEEL (GRADE 60) fy = 60 K.S.I.

DESIGN:  
 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, 2014  
 AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF  
 PEDESTRIAN BRIDGES, 2009  
 ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE

**INDEX OF SHEETS**

AB01 SUMMARY OF PAY QUANTITIES & GENERAL NOTES (BRIDGE)  
 B007 - B008 GENERAL PLAN AND ELEVATION  
 B009 SUBSURFACE PROFILE  
 B010 SUBSTRUCTURE LAYOUT  
 B011 - B012 ABUTMENT DETAILS  
 B013 SLOPE WALL DETAILS

**STANDARDS**

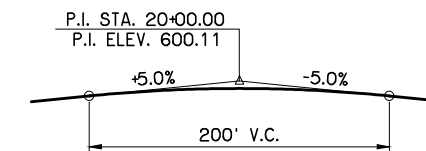
HP1-2-01E  
 PUD-4-0

**FOUNDATION DATA**

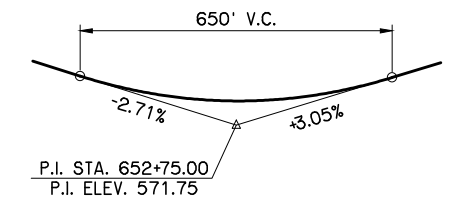
ABUTMENTS (HP 10X42 PILING)

FACTORED PILE REACTION = 49.4 TON / PILE

FACTORED PILE RESISTANCE:  
 DRIVE PILING THROUGH THE COMPACTED FILL AND TO A POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN ON THE PLANS. IF A FACTORED AXIAL LOAD RESISTANCE EQUAL TO OR GREATER THAN THE FACTORED PILE REACTION IS NOT OBTAINED AT THIS ELEVATION, CONTINUE DRIVING UNTIL SUCH IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY.



**VERTICAL CURVE DATA**  
CENTENNIAL TRAIL



**VERTICAL CURVE DATA**  
U.S.69

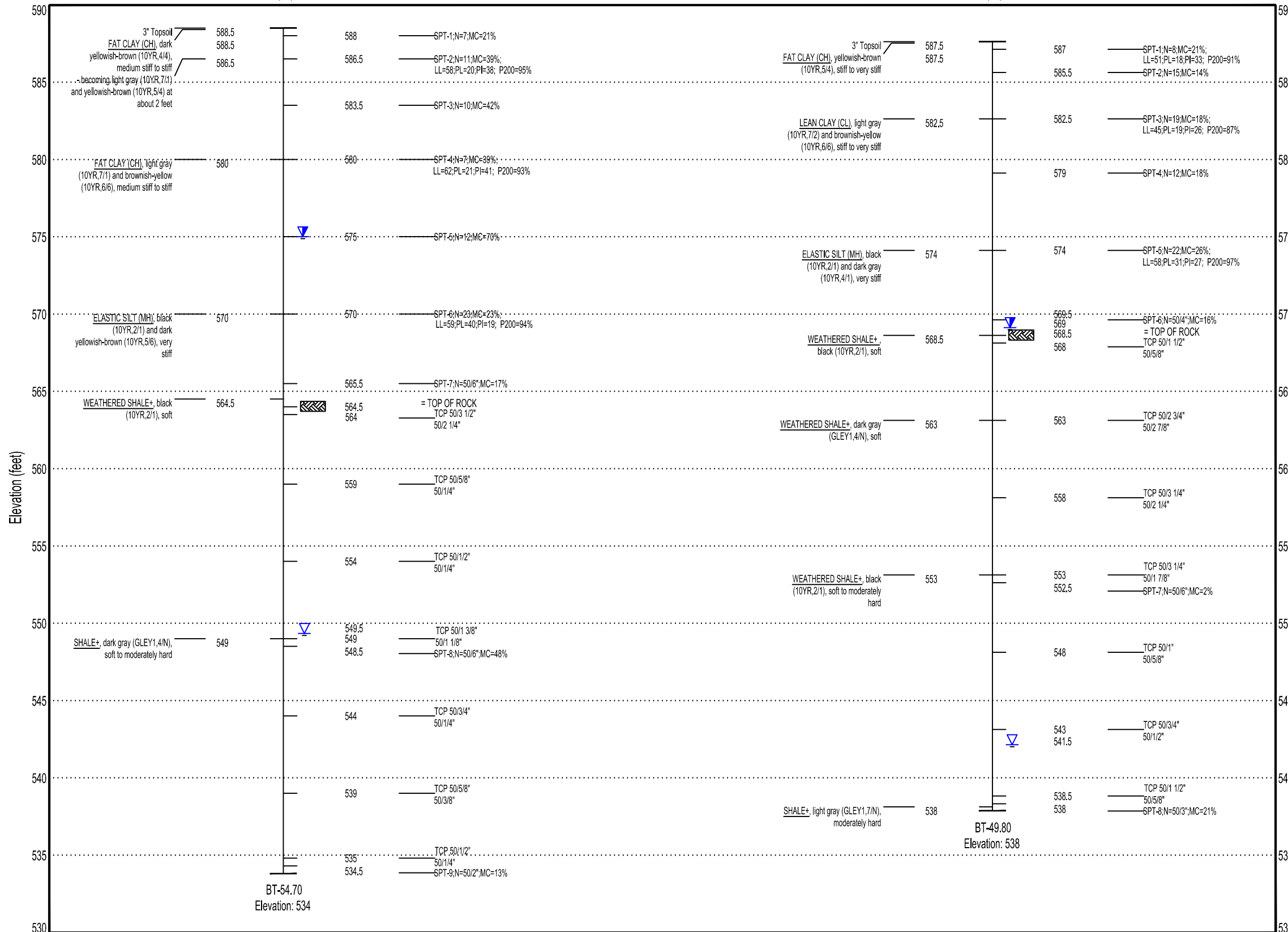
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CENTENNIAL TRAIL OVER U.S.69		MUSKOGEE COUNTY	
Design	CEG	Detail	DRB
Check	AFW		
<b>GENERAL PLAN AND ELEVATION (2 OF 2)</b> 200' LONG x 12' WIDE STEEL THRU-TRUSS SPAN @ STA. 652+78.34, 5° TURN RT. RWD.			
		<b>STATE OF OKLAHOMA</b>	
DEPARTMENT OF TRANSPORTATION		JOB PIECE NO. 27108(O4)	
		SHEET NO. B008	

Boring No. B-1  
STATION 652+42.22 94.3' LT  
Surface Elev. (Ft.): 588.52

Boring No. B-2  
STATION 653+18.55 95.30' RT  
Surface Elev. (Ft.): 587.64

REVISIONS		
REV. NO.	DESCRIPTION	DATE
		2/3/2017



**LEGEND**

- DCD = DIAMOND CORE DRILLING, ASTM D2113-83
- SPT = STANDARD PENETRATION TEST, ASTM D1586
- SS = SPLIT SPOON SAMPLER
- N = NUMBER OF BLOWS PER 12 INCHES
- MC = MOISTURE CONTENT
- LL = LIQUID LIMIT (NV=NO VALUE)
- PI = PLASTICITY INDEX (NP=NO PLASTICITY)
- #200 = PERCENT PASSING #200 SIEVE
- UCS = UNCONFINED COMPRESSIVE STRENGTH (psi)
- TCP = TEXAS CONE PENETROMETER
- ▽ = WET CAVE IN
- ▽ = WATER LEVEL WHILE DRILLING OR SAMPLING
- ▽ = WATER LEVEL AFTER DRILLING
- ▽ = WATER LEVEL 24 HOURS AFTER DRILLING
- ▨ = TOP OF ROCK

NOTE: WATER LEVEL ELEVATIONS SHOWN WERE OBTAINED AT THE TIME THE BORINGS WERE DRILLED AND MAY FLUCTUATE THROUGHOUT THE YEAR.

NOTE: "SS" DENOTES STANDARD PENETRATION TEST. ASSHTO D1586-84. "TCP" DENOTES TEXAS CONE PENETRATION TEST.

\* NOTE: TOP OF ROCK LINE SHOWN FOR ESTIMATING PURPOSES ONLY

\*\* NOTE: WATER LEVEL ELEVATION SHOWN WERE OBTAINED AT THE TIME THE BORINGS WERE DRILLED AND MAY FLUCTUATE THROUGHOUT THE YEAR.

\*\*\* NOTE: ROCK CLASSIFICATION IS BASED ON DRILLING CHARACTERISTICS AND VISUAL OBSERVATION OF DISTURBED SAMPLES. CORE SAMPLES AND PETROGRAPHIC ANALYSIS MAY REVEAL OTHER ROCK TYPES.

**SITE GEOLOGY**

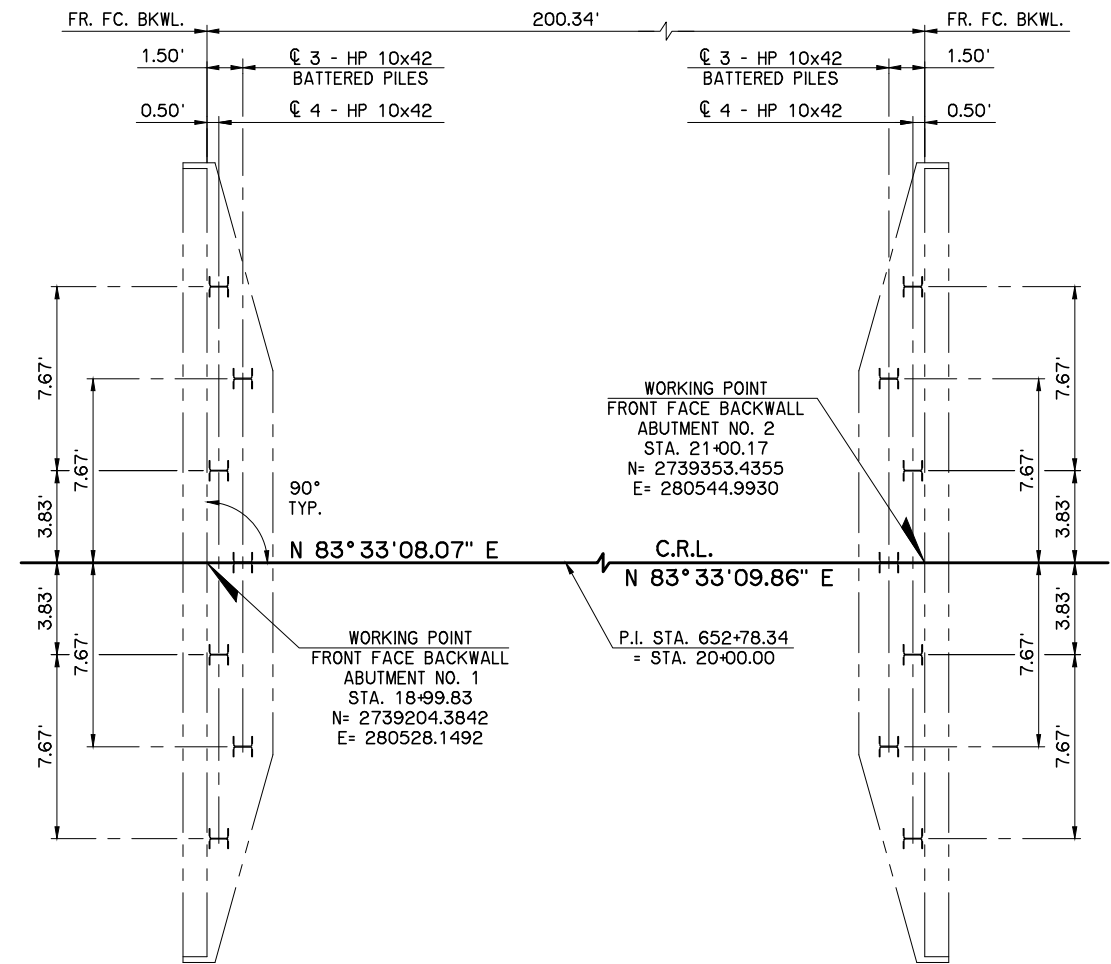
Based on information published in the Oklahoma Department of Transportation manual, "Engineering Classification of Geologic Materials: Division 1", the project is located within the Bogy Unit. This unit consists of shale, sandstone, siltstone, and a minor amount of limestone. The sandstone ranges from soft to hard, tan to gray in color, and in beds with thicknesses of a few inches up to 40 feet. Shales are mostly fissile ranging to clay shale, generally dark colored, and occur in zones up to 350 feet. Generally these shale zones have occasional thin stringers of sandstone, siltstone, and minor amounts of limestone.

**GEOTECHNICAL REPORT**

ALL GEOTECHNICAL INFORMATION CONTAINED ON THIS SHEET IS COVERED BY THE ENGINEERING SEAL AFFIXED TO AN ORIGINAL GEOTECHNICAL ENGINEERING REPORT THAT HAS BEEN STAMPED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN OKLAHOMA. TO OBTAIN A COPY OF THE COMPLETE REPORT, CONTACT THE ODOT OFFICE ENGINEER AT (405) 521-2625. THE CONTRACTOR SHOULD BE FULLY AWARE OF THE SITE CONDITIONS PRIOR TO BEGINNING WORK. ANY ADDITIONAL GEOTECHNICAL INFORMATION WHICH MAY BE DESIRED IS THE RESPONSIBILITY OF THE CONTRACTOR.

**Terracon**  
Consulting Engineers and Scientists  
9522 EAST 47TH PLACE, UNIT D TULSA, OKLAHOMA 74146  
PH. (918) 250-0461 FAX. (918) 250-4570

US-69 Widening - Pedestrian Bridge		Muskogee County	
<b>SUBSURFACE PROFILE</b>			
Design	N/A	N/A	
Detail	N/A	N/A	
Check	N/A	N/A	
Squad:			
Engr.			
STATE OF OKLAHOMA	DEPARTMENT OF TRANSPORTATION		SHEET NO.
Job Piece No.			

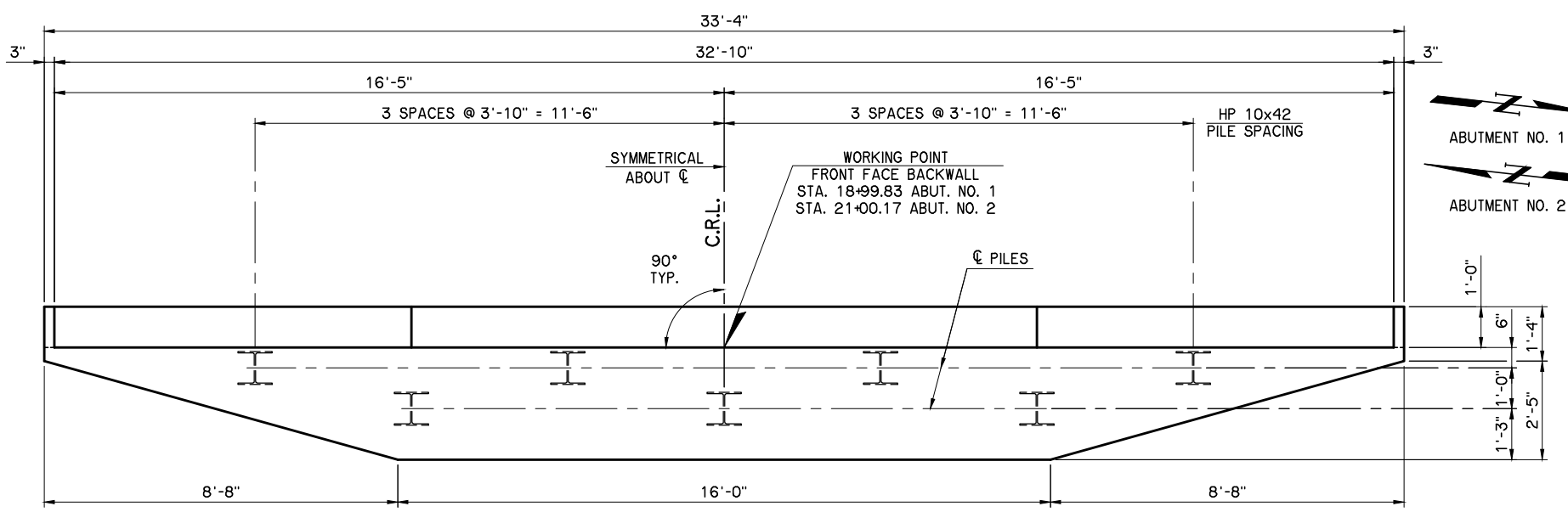


**SUBSTRUCTURE LAYOUT**

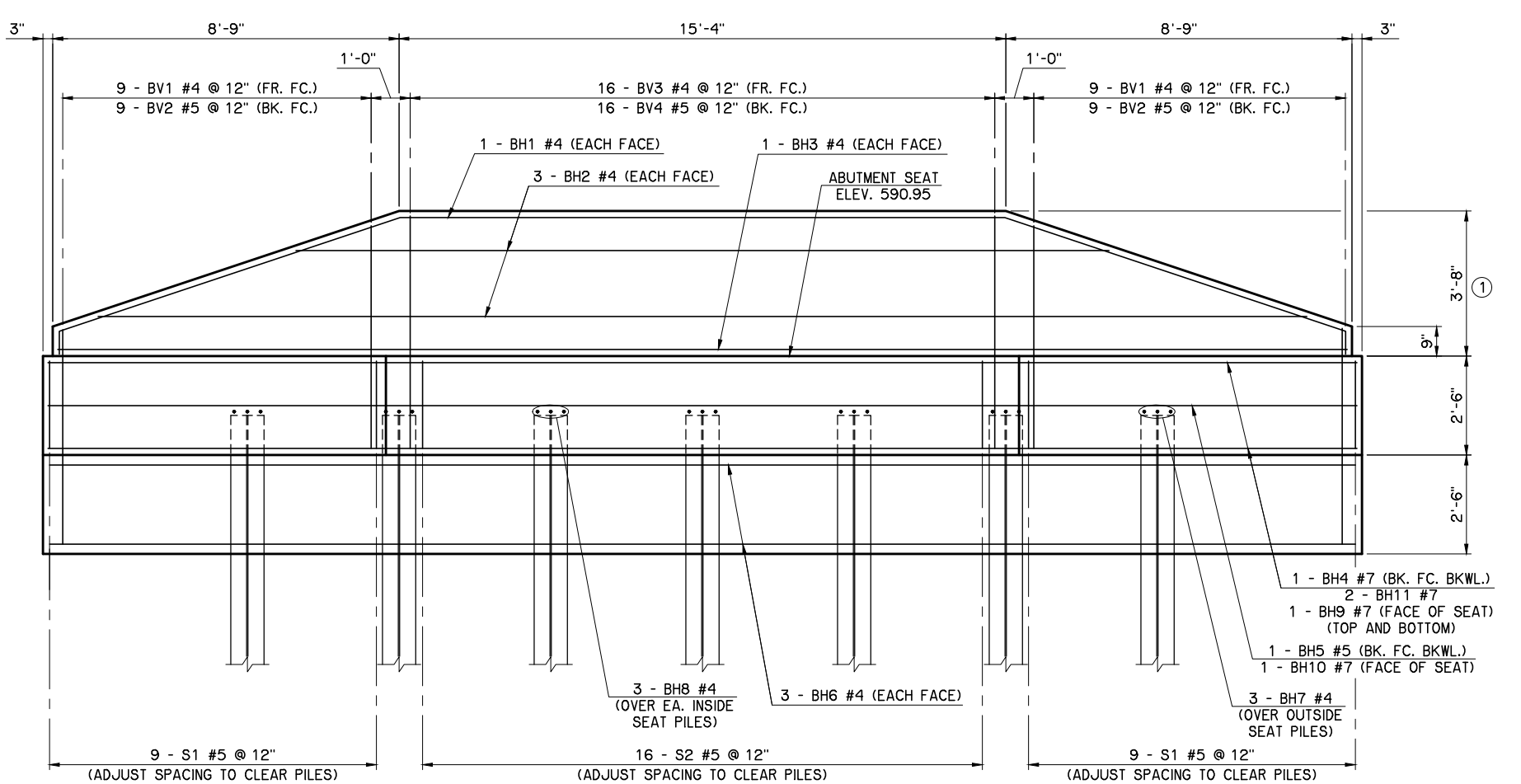
NOTE:  
PLACE WEB FACE OF ALL SEAT  
PILES PERPENDICULAR TO FACE OF  
BRIDGE SEAT. DRIVE ALL PILES  
VERTICAL EXCEPT AS NOTED.

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IS PRELIMINARY  
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DOCUMENT

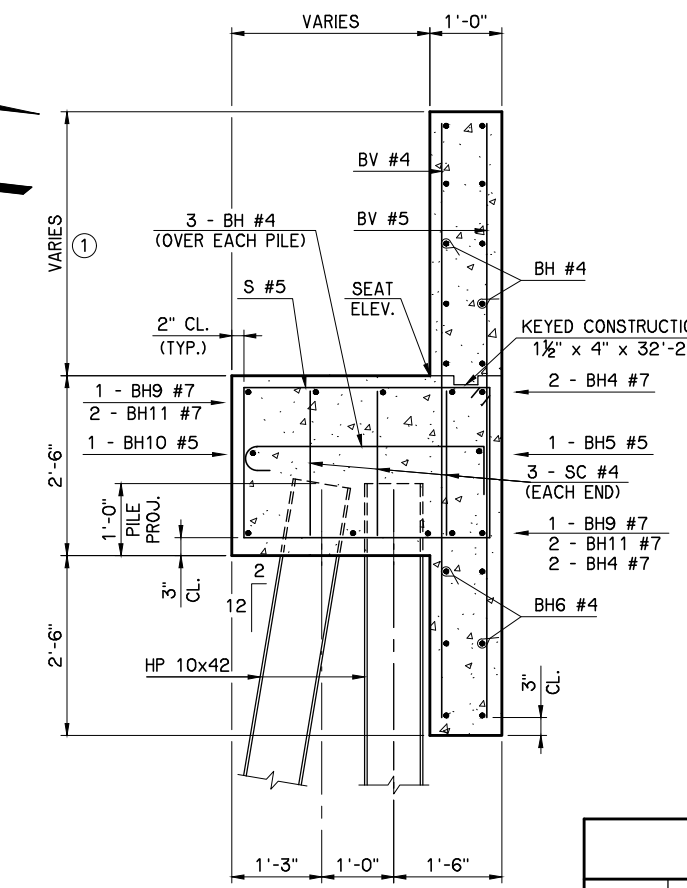
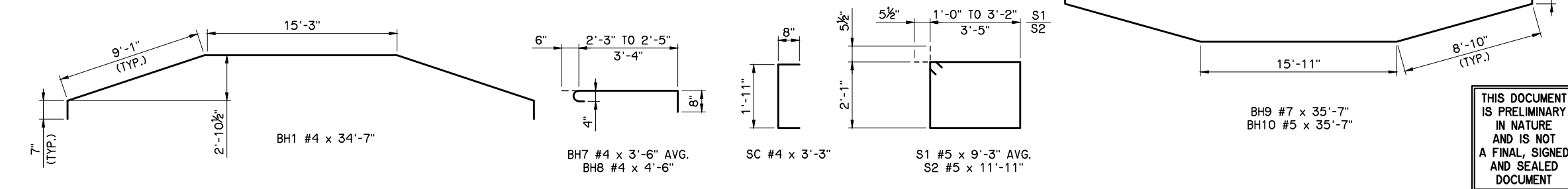
CENTENNIAL TRAIL OVER U.S.69 BRIDGE "B"		MUSKOGEE COUNTY	
Design	AFW	Detail	DRB
Check	AFW		
<b>SUBSTRUCTURE LAYOUT</b>			
<b>STATE OF OKLAHOMA</b>		DEPARTMENT OF TRANSPORTATION	
JOB PIECE NO. 27108(O4)		SHEET NO. B010	



**PLAN**



**ELEVATION**



**SECTION THRU SEAT**

① VERIFY DIMENSIONS MATCH THE REQUIREMENTS OF THE PROVIDED SUPERSTRUCTURE.

PROVIDE ANCHOR BOLTS MEETING THE REQUIREMENTS OF THE SUPERSTRUCTURE FABRICATOR AND AT LOCATIONS CONSISTENT WITH THE CHOSEN SYSTEM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROPER INSTALLATION OF ANCHOR BOLTS, INCLUDING THE SIZE, LENGTH, AND LOCATION. INCLUDE ALL COSTS FOR ANCHOR BOLTS IN THE CONTRACT UNIT COST OF "(PL) INSTALLATION OF BRIDGE ITEMS."

ABUTMENTS ARE DESIGNED USING THE FOLLOWING SUPERSTRUCTURE REACTIONS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ABUTMENTS ARE SUFFICIENT. SEE GENERAL NOTES ON SHEET ABO1 FOR MORE INFORMATION.

PEDESTRIAN BRIDGE REACTIONS:

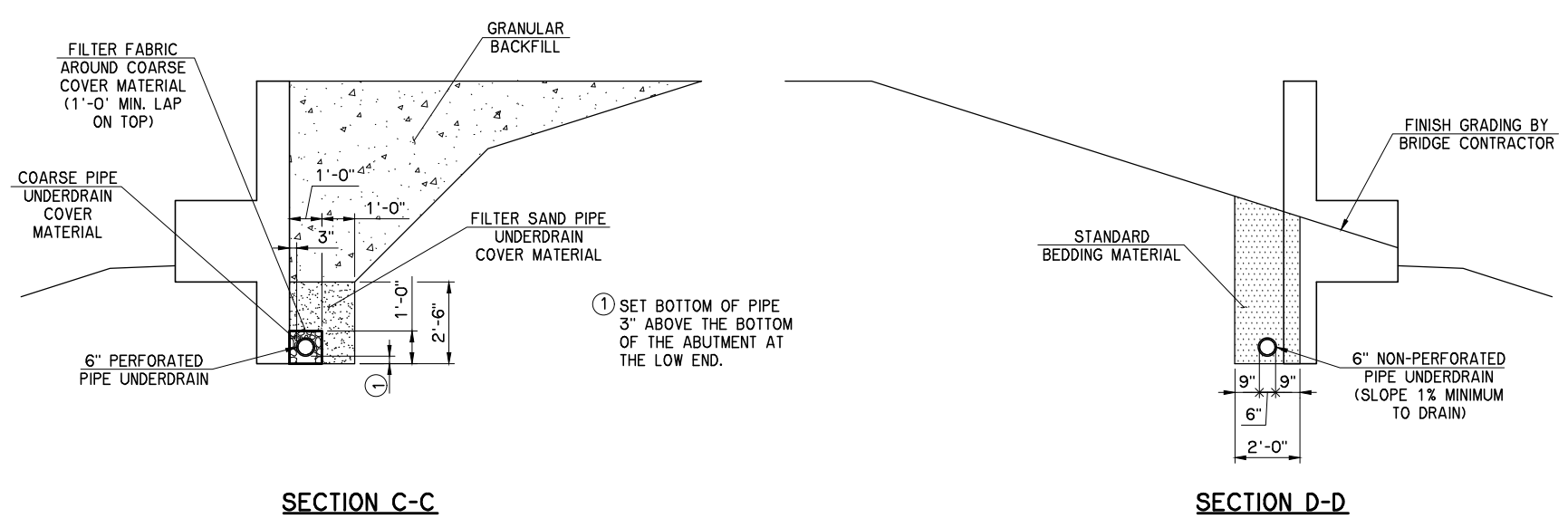
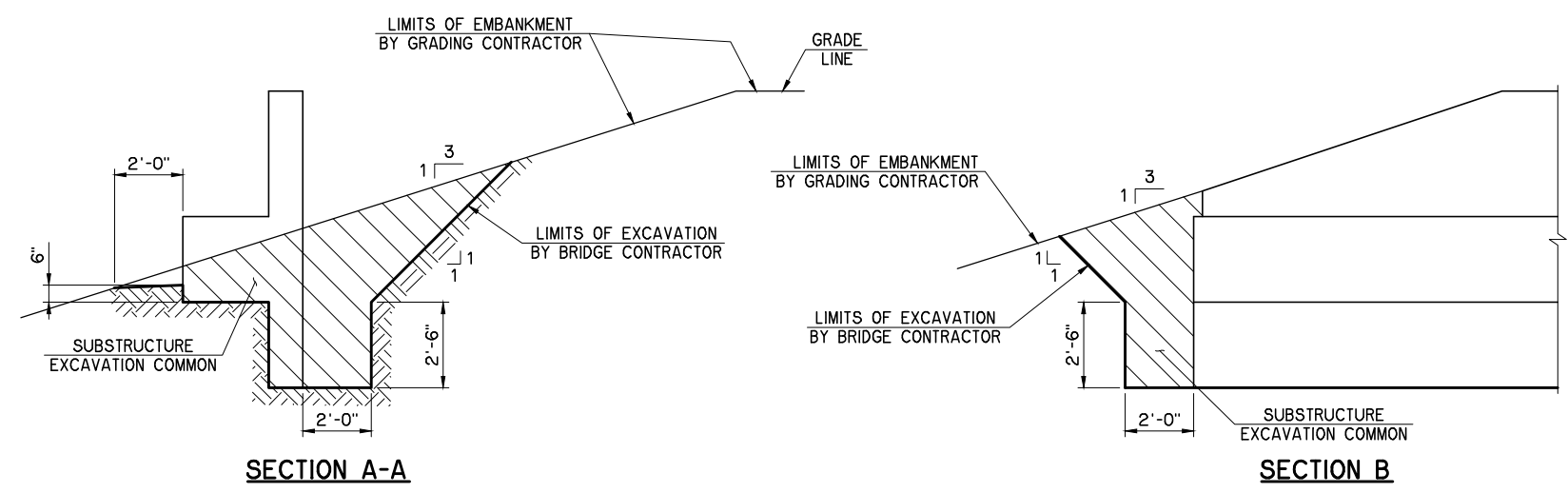
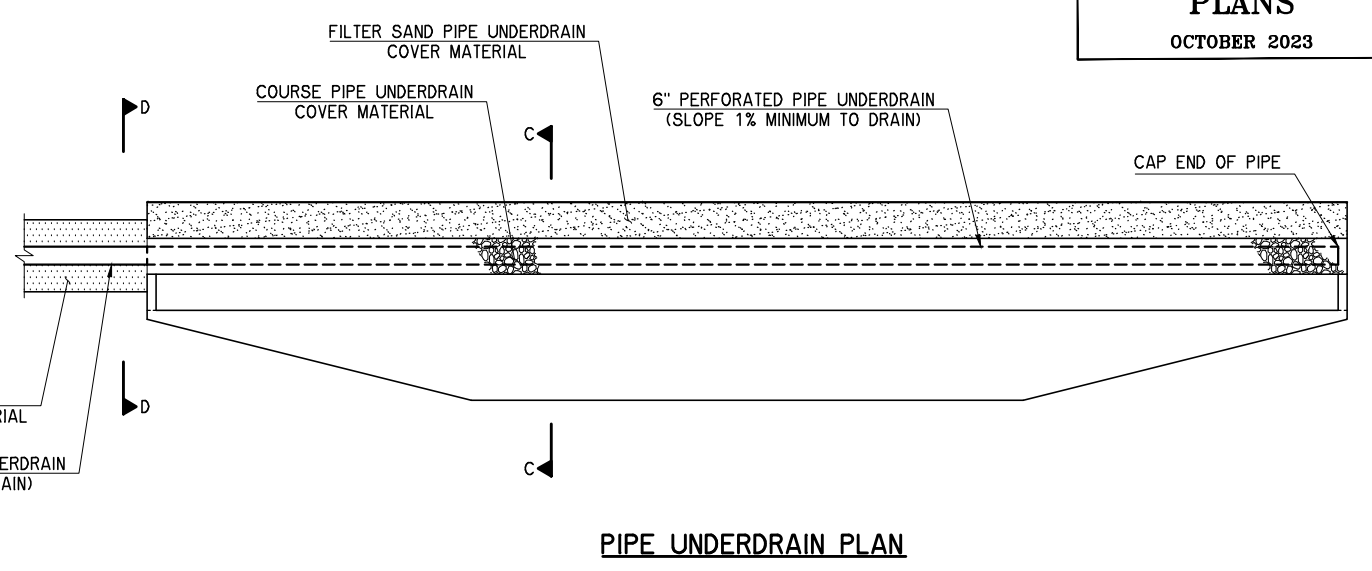
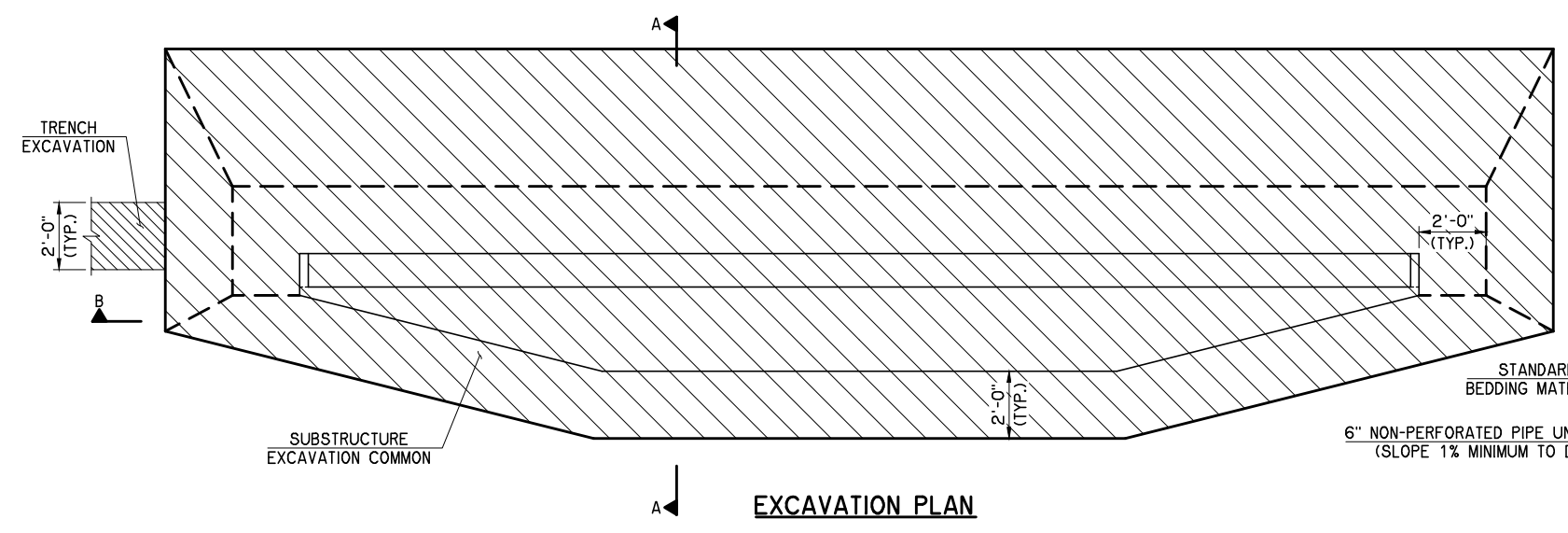
DEAD LOAD:	81,600 LBS. (2 PER ABUTMENT)
UNIFORM LIVE LOAD:	54,765 LBS. (2 PER ABUTMENT)
VEHICLE LOAD:	5,000 LBS. (2 PER ABUTMENT)
WIND (VERTICAL):	9,400 LBS. (2 PER ABUTMENT)
WIND (LATERAL):	44,200 LBS. (1 PER ABUTMENT)
THERMAL:	13,150 LBS. (2 PER ABUTMENT)

ABUTMENT BAR LIST					
ONE SHOWN, TWO REQUIRED					
MARK	SIZE	NO.	FORM	LENGTH	LENGTH VARIATION
PLAIN REINFORCING					
BH1	#4	2	BNT.	34'-7"	
② BH2	#4	6	STR.	25'-3" AVG.	20'-3" TO 30'-3"
BH3	#4	2	STR.	32'-6"	
BH4	#7	4	STR.	33'-0"	
BH5	#5	1	STR.	33'-0"	
BH6	#4	6	STR.	33'-0"	
② BH7	#4	6	BNT.	3'-6" AVG.	3'-5" TO 3'-7"
BH8	#4	15	BNT.	4'-6"	
BH9	#7	2	BNT.	35'-7"	
BH10	#5	1	BNT.	35'-7"	
③ BH11	#7	4	STR.	25'-9" AVG.	22'-6" TO 29'-0"
④ BV1	#4	18	STR.	6'-8" AVG.	5'-4" TO 8'-0"
④ BV2	#5	18	STR.	6'-8" AVG.	5'-4" TO 8'-0"
BV3	#4	16	STR.	8'-3"	
BV4	#5	16	STR.	8'-3"	
SC	#4	6	BNT.	3'-3"	
④ S1	#5	18	BNT.	9'-3" AVG.	7'-1" TO 11'-5"
S2	#5	16	STR.	11'-11"	

- ② 2 SETS OF 3
- ③ 2 SETS OF 2
- ④ 2 SETS OF 9

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CENTENNIAL TRAIL OVER U.S.69 BRIDGE "B"		MUSKOGEE COUNTY		Design	AFW
<b>ABUTMENT DETAILS</b> SHEET 1 OF 2				Detail	DRB
				Check	AFW
<b>STATE OF OKLAHOMA</b>		DEPARTMENT OF TRANSPORTATION			
				JOB PIECE NO. 27108(O4)	



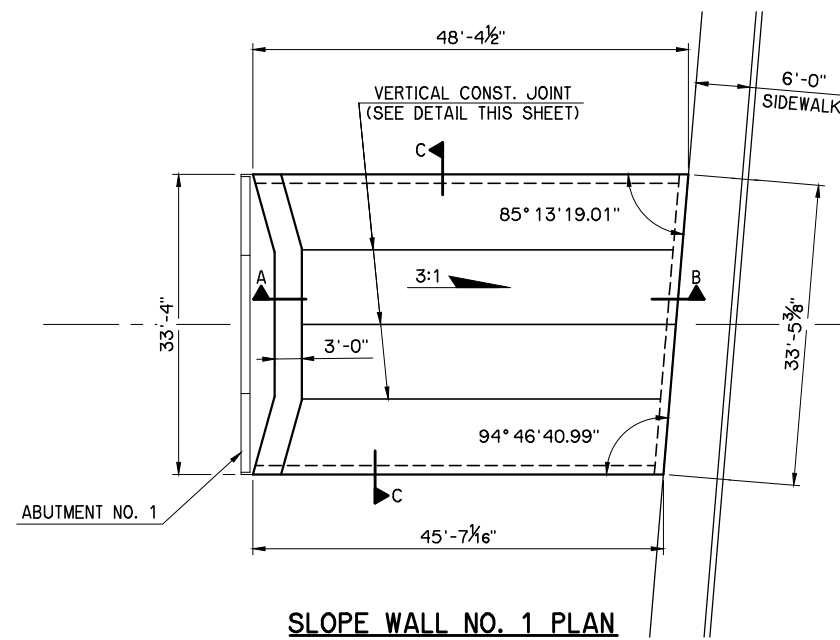
ABUTMENT QUANTITIES				
ITEM DESCRIPTION	UNIT	ABUT. NO. 1	ABUT. NO. 2	TOTAL
SUBSTRUCTURE EXCAVATION COMMON	C.Y.	40	40	80
GRANULAR BACKFILL	C.Y.	41	41	82
CLASS A CONCRETE	C.Y.	16.2	16.2	32.4
REINFORCING STEEL	LB.	1,900	1,900	3,800
PILES, FURNISHED (HP 10x42)	L.F.	196	175	371
PILES, DRIVEN (HP 10x42)	L.F.	196	175	371
PILE SPLICE, H-PILE (NON-BIDDABLE)	EA.			1
6" PERFORATED PIPE UNDERDRAIN ROUND	L.F.	34	34	68
6" NON-PERF. PIPE UNDERDRAIN RND.	L.F.	18	18	36

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

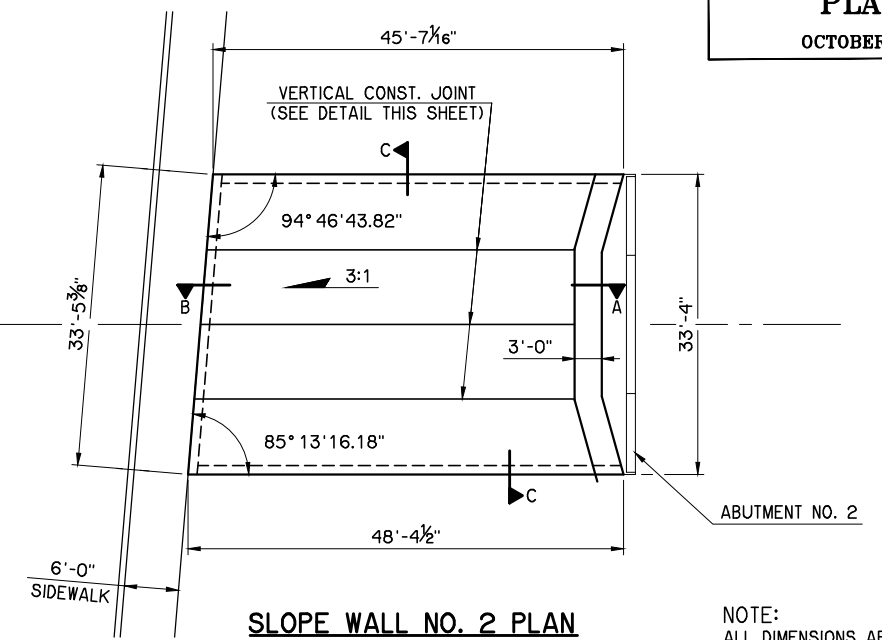
CENTENNIAL TRAIL OVER U.S.69 BRIDGE "B"		MUSKOGEE COUNTY		Design	AFW
<b>ABUTMENT DETAILS</b> SHEET 2 OF 2				Detail	DRB
				Check	AFW
<b>STATE OF OKLAHOMA</b>		DEPARTMENT OF TRANSPORTATION		CEC	
				JOB PIECE NO. 27108(O4)	

L:\Active\1454\Drawings\Bridges\B012\_Abutment2.dwg, 10/10/2023 8:59:46 AM, Deanne Brittan

SLOPE WALL QUANTITIES				
ITEM	UNIT	SLOPE WALL NO. 1	SLOPE WALL NO. 2	TOTAL
SLOPE WALL (5")	S.Y.	202	202	404

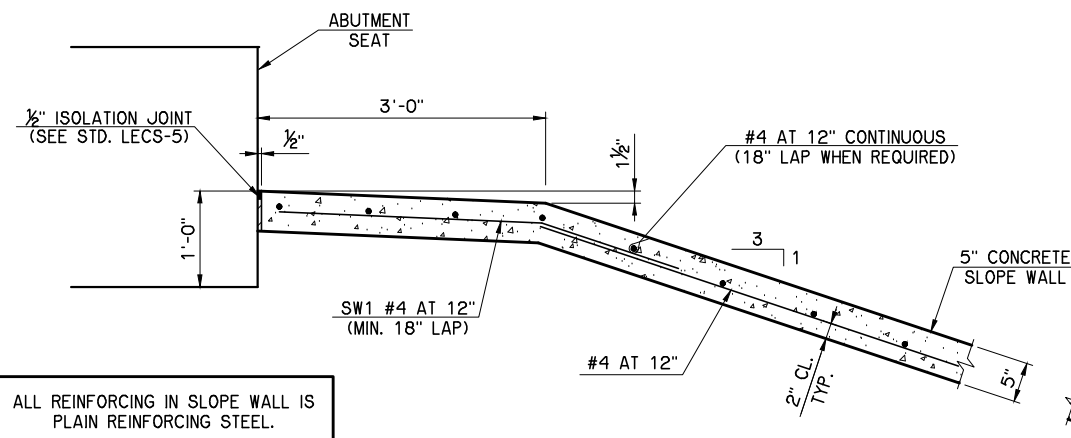


**SLOPE WALL NO. 1 PLAN**

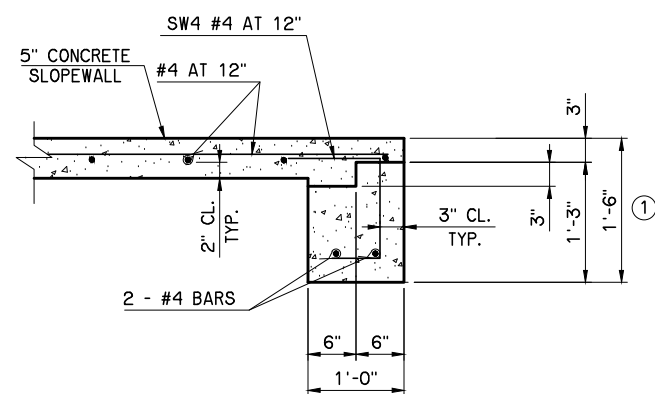


**SLOPE WALL NO. 2 PLAN**

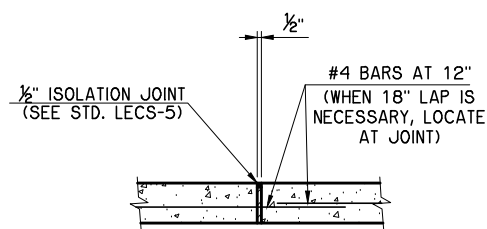
NOTE:  
ALL DIMENSIONS ARE  
PLAN DIMENSIONS.



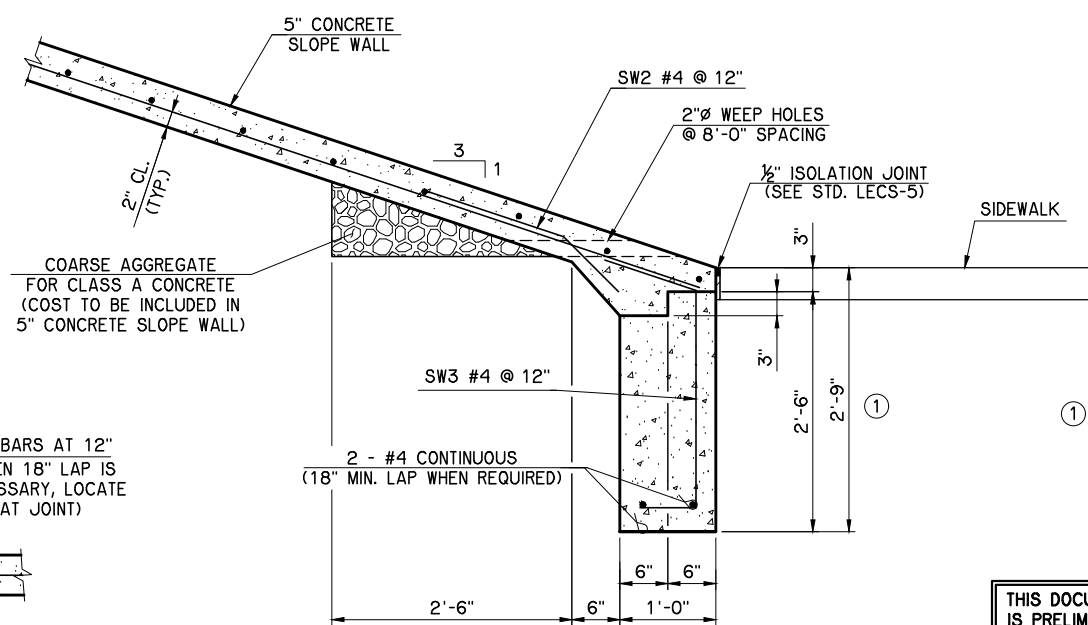
**SECTION A**



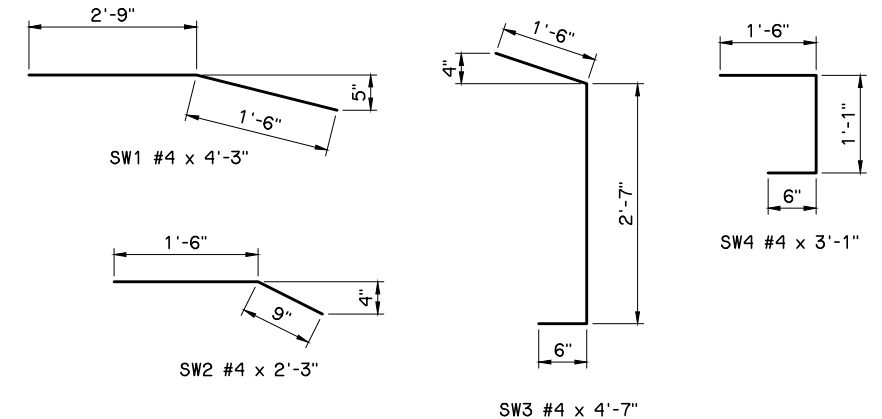
**SECTION C**



**VERTICAL CONSTRUCTION  
JOINT DETAIL**



**SECTION B**

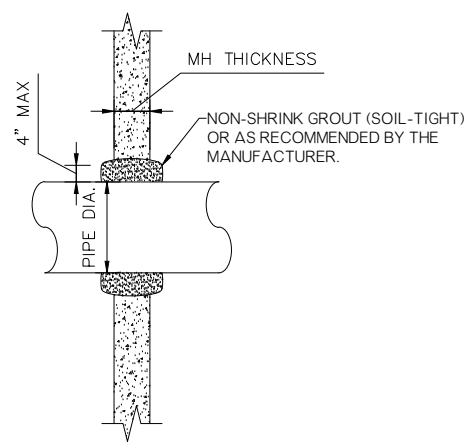
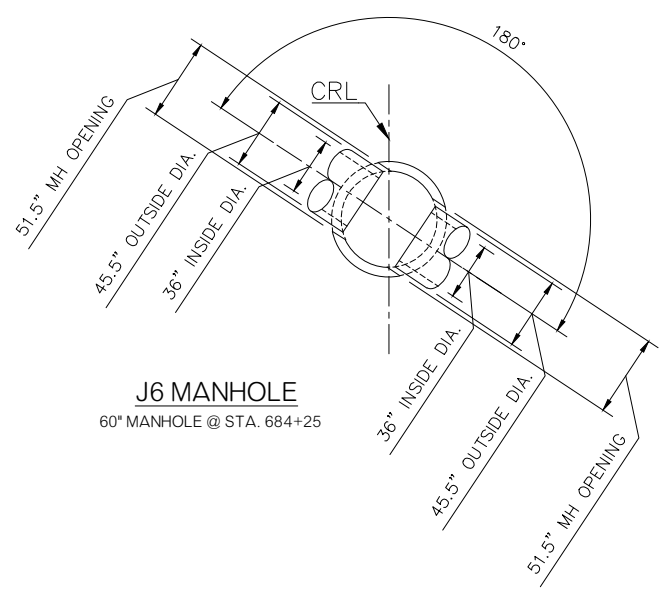
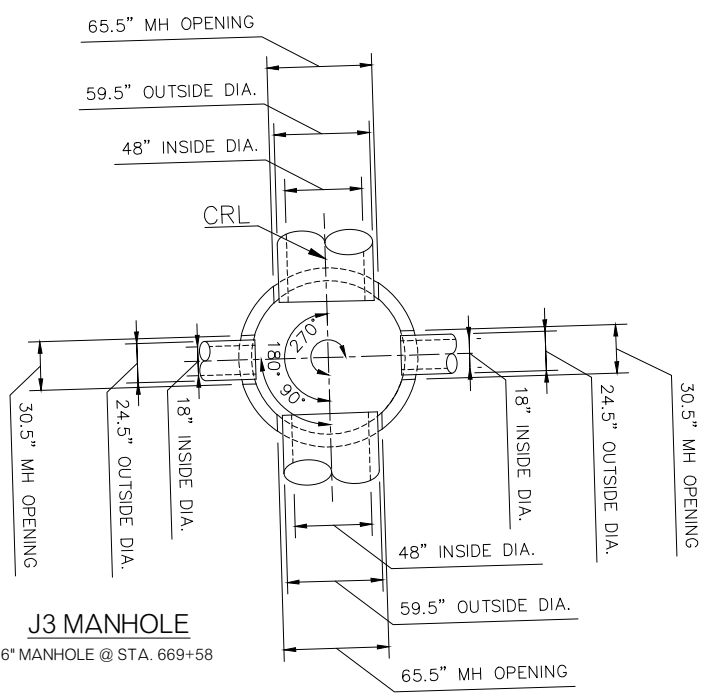
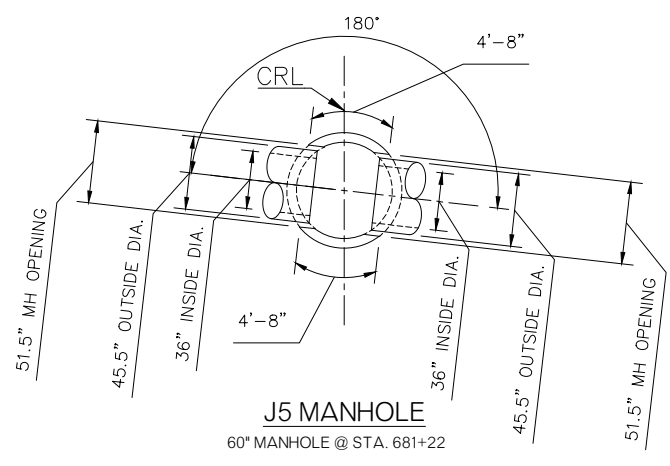
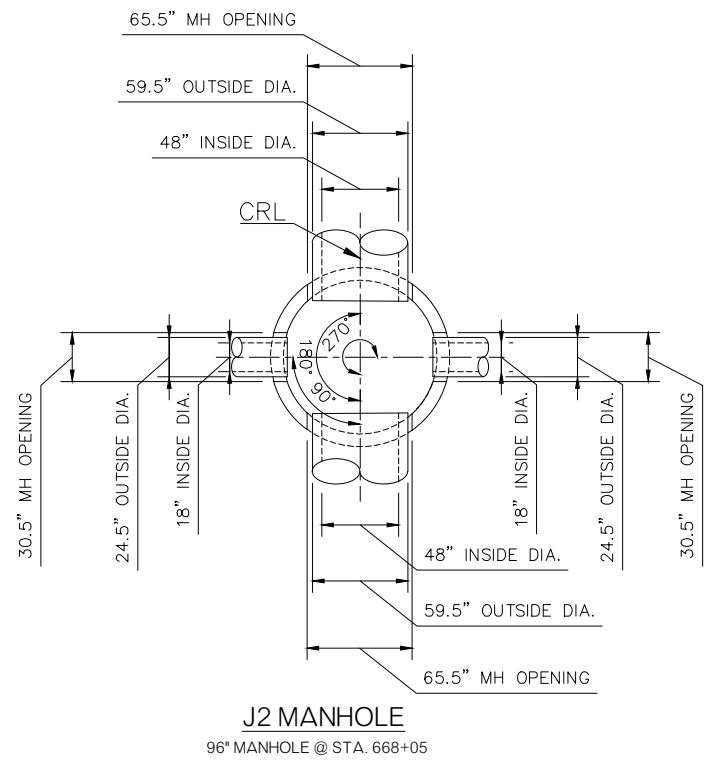
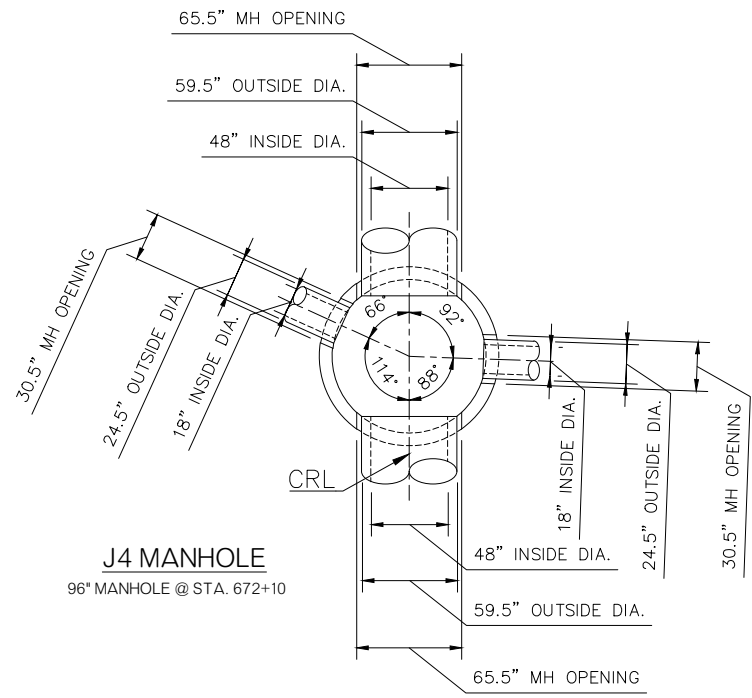
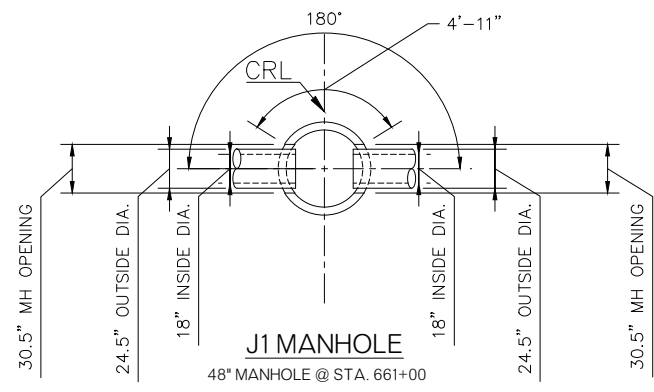


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AND SEALED  
DOCUMENT

CENTENNIAL TRAIL OVER U.S.69 BRIDGE "B"		MUSKOGEE COUNTY		Design	AFW
				Detail	DRB
				Check	AFW
				CEC	
<b>STATE OF OKLAHOMA</b>		DEPARTMENT OF TRANSPORTATION			
		JOB PIECE NO. 27108(O4)		SHEET NO. B013	

**SLOPEWALL DETAILS**

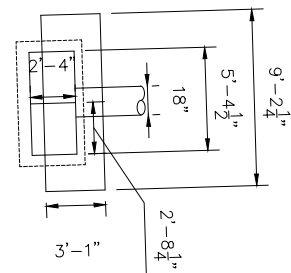




NOTE: SEE P&P SHEETS FOR  $F_L$  AND TOP OF GRATE ELEVATIONS.

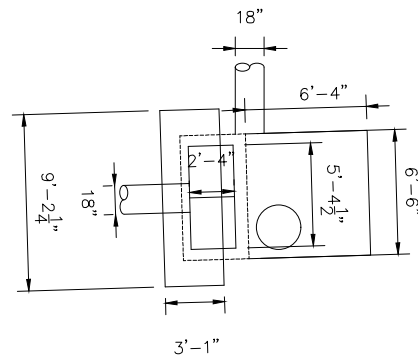
**U.S. HIGHWAY 69**  
**MANHOLE DETAILS**

HUB ENGINEERS  
Time of Plot: 11/30/2023 1:36 PM Plot Style: 05/07/2021.C18  
S:\2023\1400\01\02\03\Production\Production Plans\2108\_DRAINAGE\_DETAILS.dwg



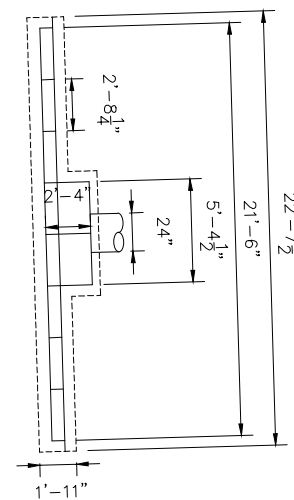
**STR. NO. 1**

STR. @ STA. 651+68.95 LT



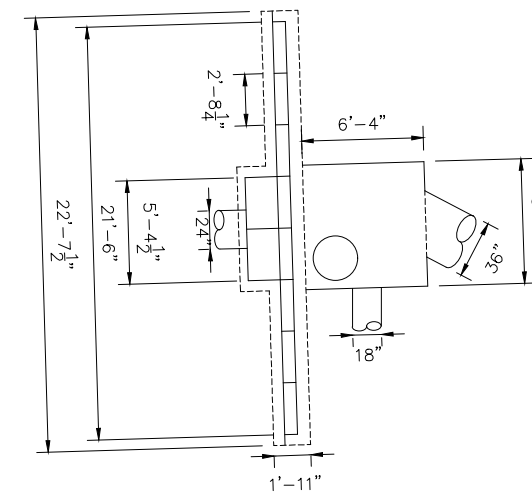
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STR. @ STA. 651+68.95 RT



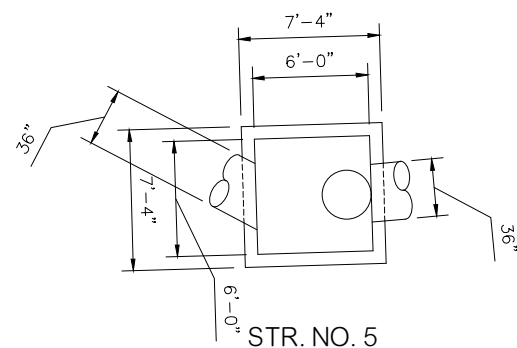
**STR. NO. 3**

STR. @ STA. 652+80 LT



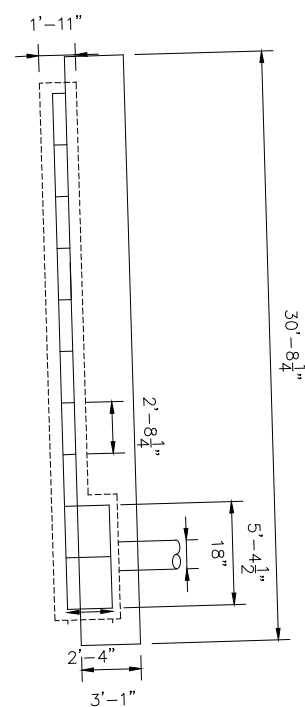
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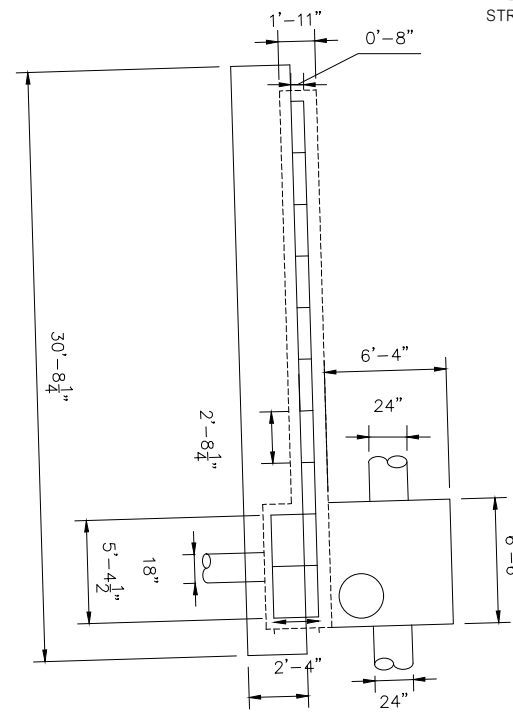
**STR. NO. 5**

STR. @ STA. 652+50 RT



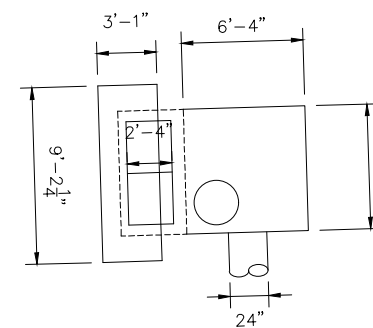
**STR. NO. 6**

STR. @ STA. 661+00 LT



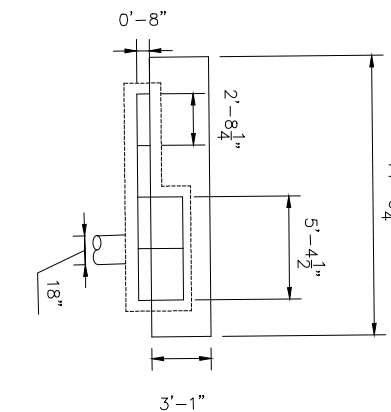
**STR. NO. 7**

STR. @ STA. 661+00 RT



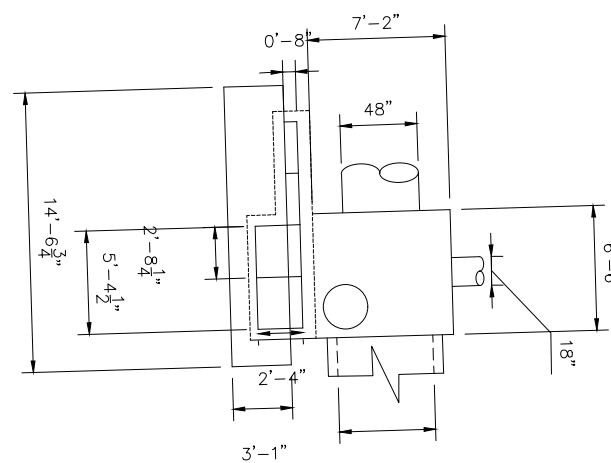
**STR. NO. 8**

STR. @ STA. 652+80 RT



**STR. NO. 9**

STR. @ STA. 664+93 RT

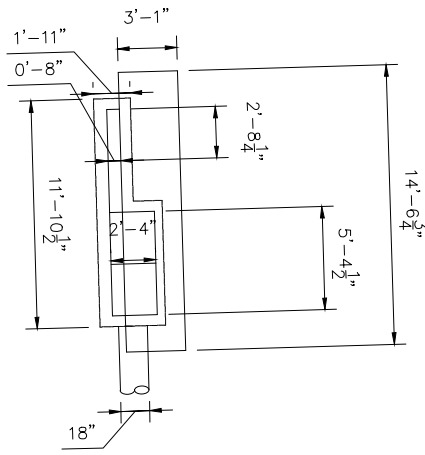


**STR. NO. 10**

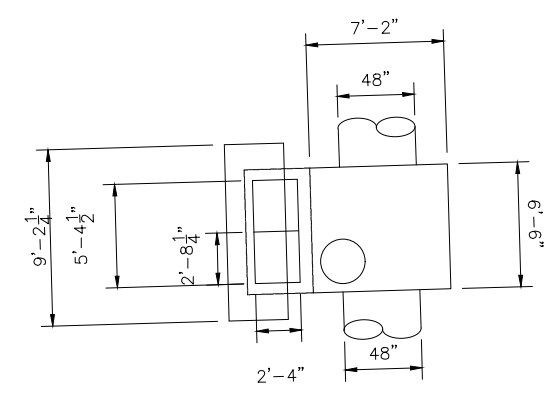
STR. @ STA. 664+93 RT

NOTE: SEE P&P SHEETS FOR  $F_L$  AND TOP OF GRATE ELEVATIONS.

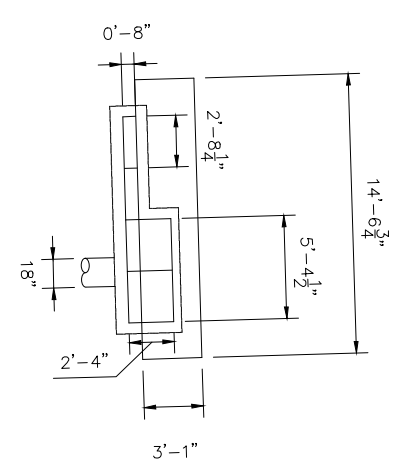
**U.S. HIGHWAY 69**  
**DRAINAGE DETAILS (1 OF 6)**



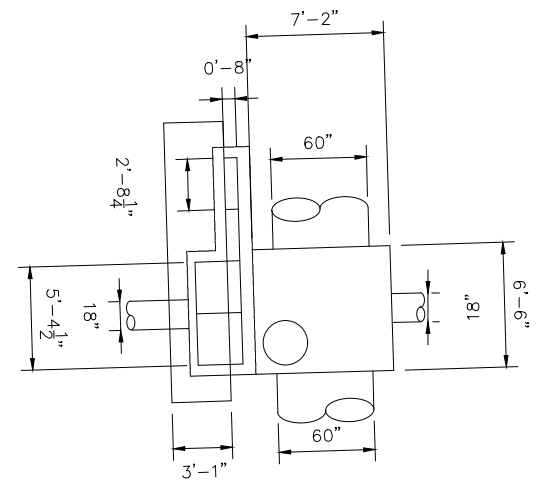
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STR. @ STA. 664+93 LT



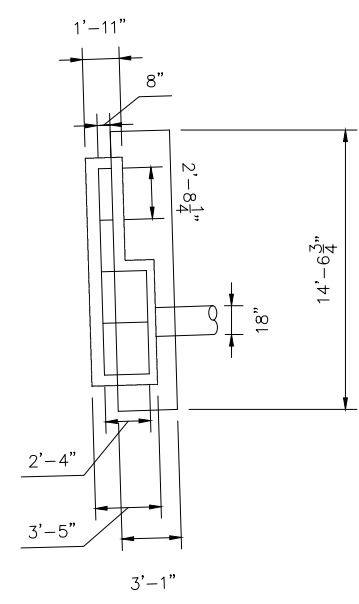
**STR. NO. 12**  
STR. @ STA. 667+10 RT



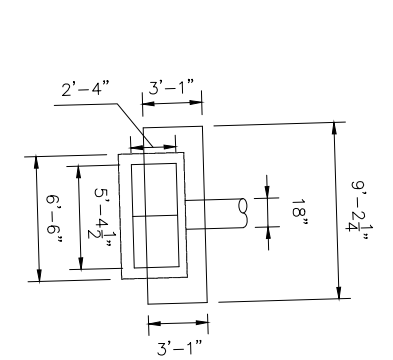
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STR. @ STA. 668+05 RT



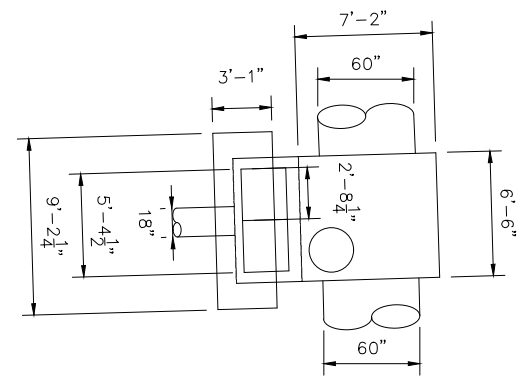
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STR. @ STA. 668+05 RT



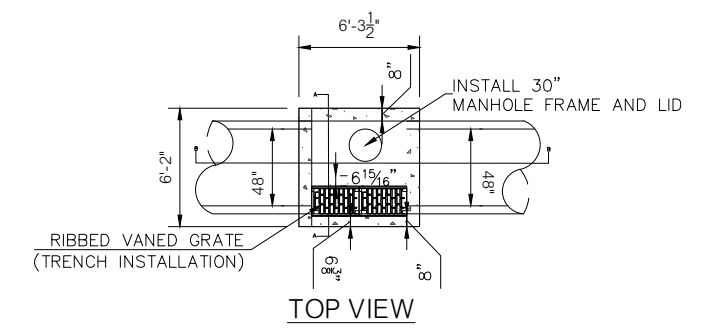
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STR. @ STA. 664+93 LT



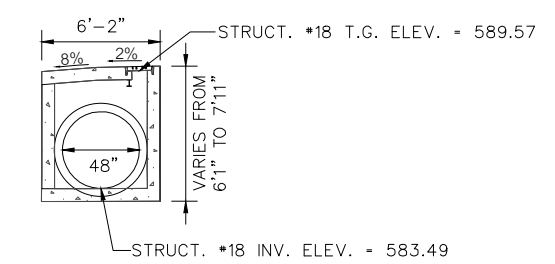
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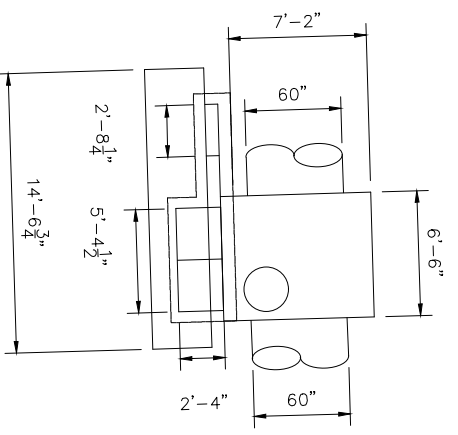
**STR. NO. 17**  
STR. @ STA. 669+48 RT



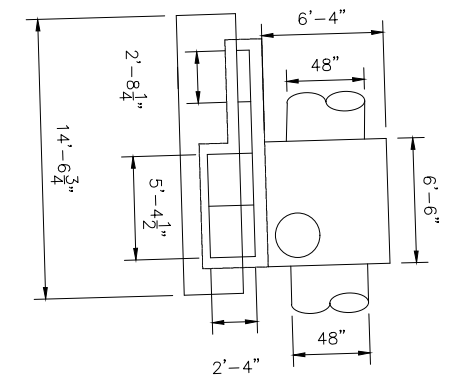
**TOP VIEW**



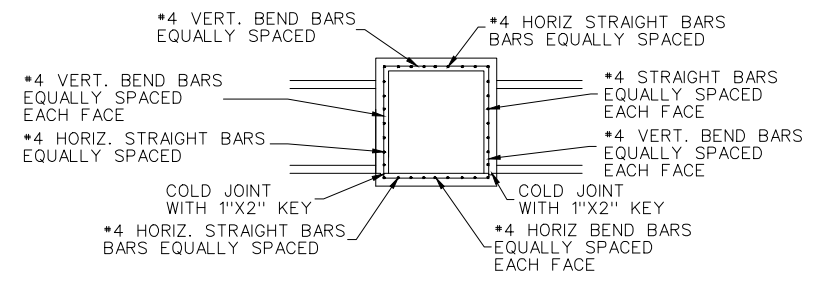
**SECTION A-A**



**STR. NO. 19**  
STR. @ STA. 670+11 RT



**STR. NO. 20**  
STR. @ STA. 671+25 RT

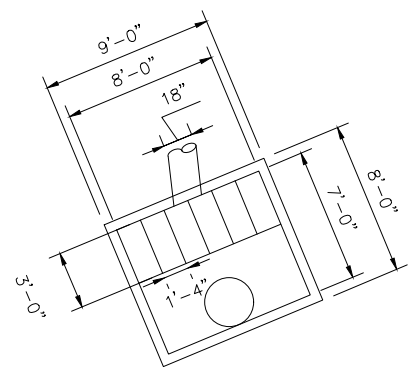


**SECTION B-B**

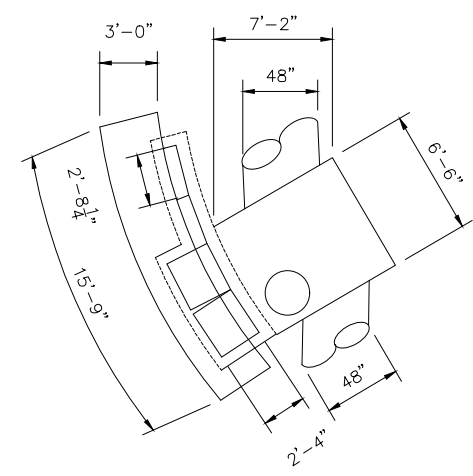
**STR. NO. 18**  
STR. @ STA. 669+72 RT

NOTE: SEE P&P SHEETS FOR  $F_L$  AND TOP OF GRATE ELEVATIONS.

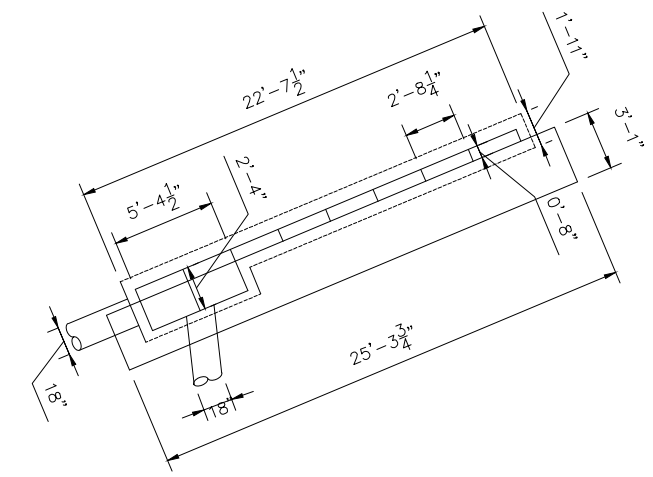
HUB Engineering  
Time of Plot: 11/30/2023, 3:15 PM Plot Style: 05010201.DWG  
S:\2023\14000\14000\14000\Production\Plans\2108\_DRAINAGE\_DETAILS.dwg



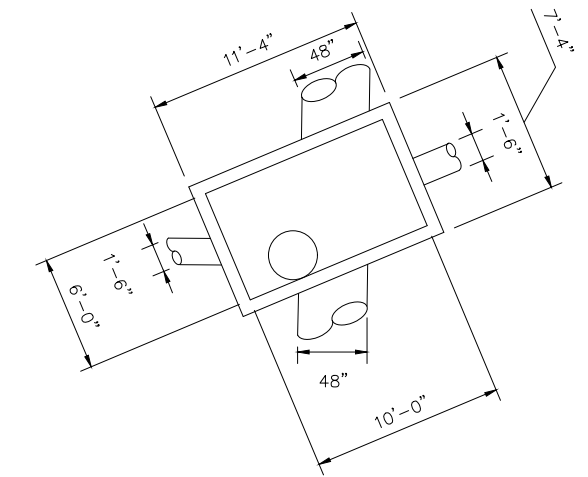
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STR. @ STA. 671+84 RT



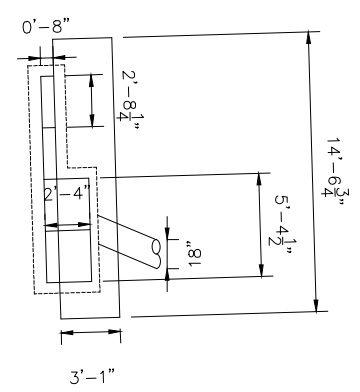
**STR. NO. 22**  
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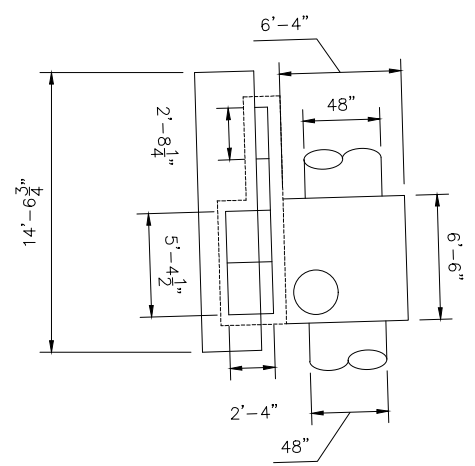
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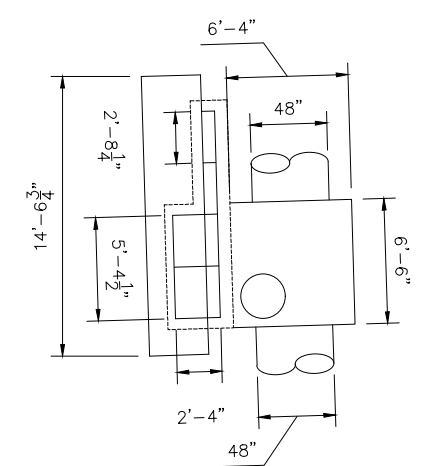
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STR. @ STA. 668+05 RT



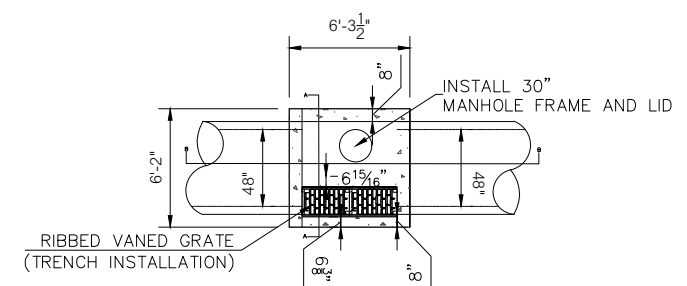
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STR. @ STA. 672+30 LT



**STR. NO. 25**  
STR. @ STA. 673+88 RT



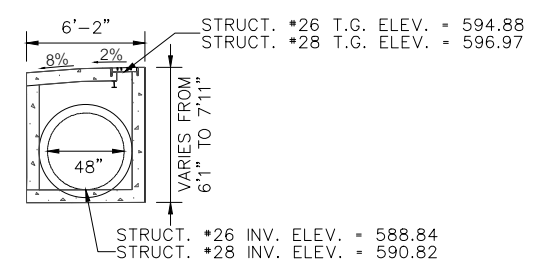
**STR. NO. 27**  
STR. @ STA. 677+09 RT



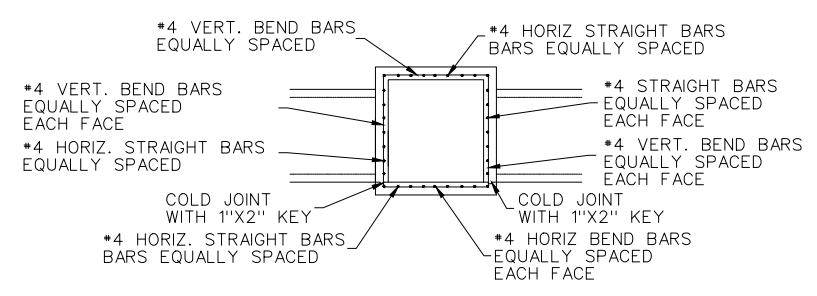
**TOP VIEW**

**STR. NO. 26**  
STR. @ STA. 675+04 RT

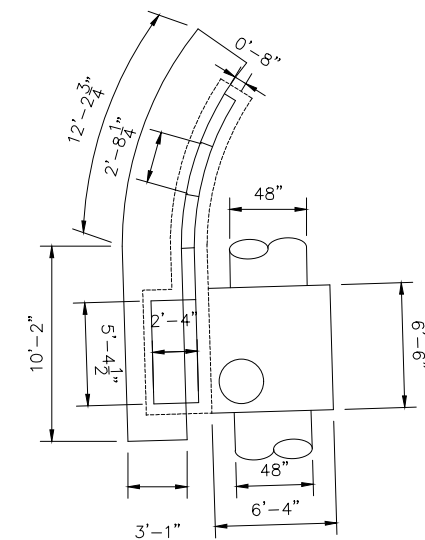
**STR. NO. 28**  
STR. @ STA. 677+65 RT



**SECTION A-A**



**SECTION B-B**

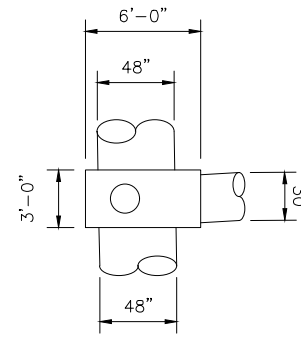


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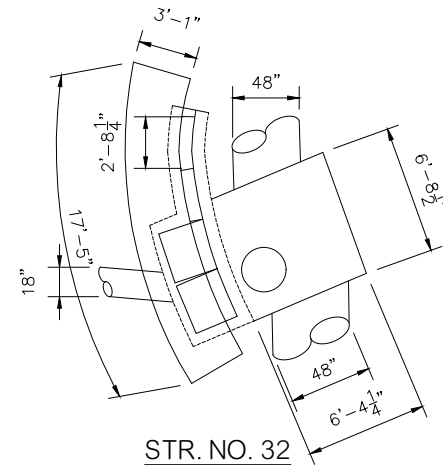
NOTE: SEE P&P SHEETS FOR FL AND TOP OF GRATE ELEVATIONS.

**U.S. HIGHWAY 69**  
**DRAINAGE DETAILS (3 OF 6)**

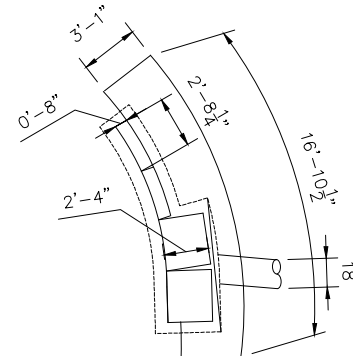
HUB Engineering  
Time of Plot: 11/30/2023 1:38 PM Plot Style: 05012021.DWG  
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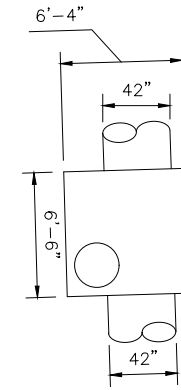
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STR. @ STA. 680+74 RT



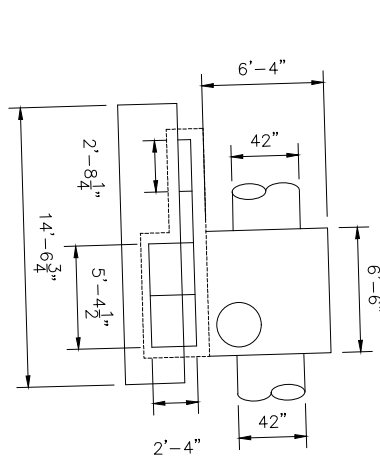
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STR. @ STA. 681+17 RT



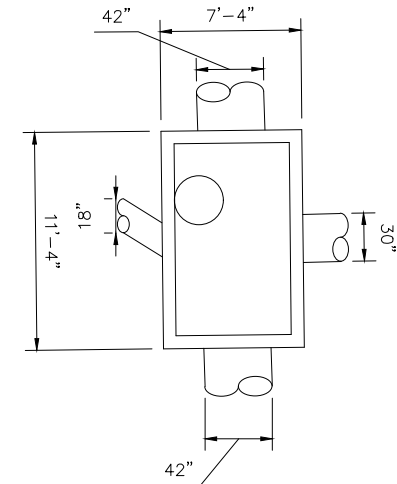
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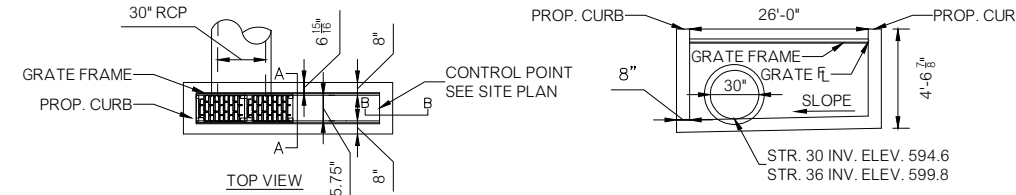
STR. NO. -  
STR. @ STA. 682+40 RT



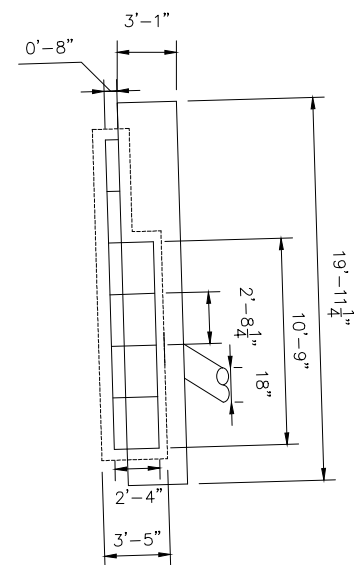
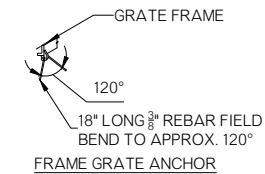
STR. NO. 34  
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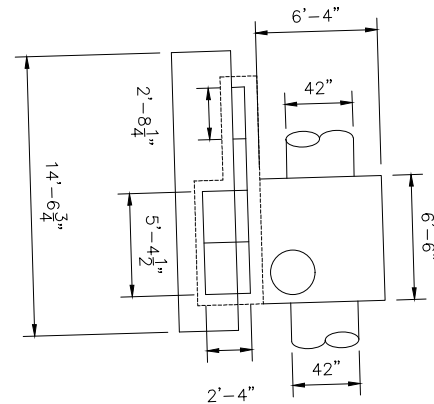
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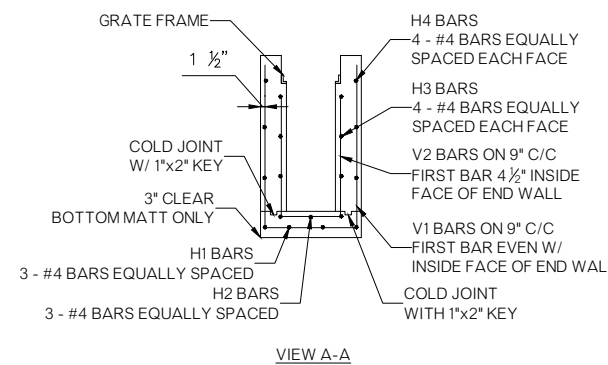
ELEVATION VIEW  
NOTE: BOTTOM SLAB SHALL BE CAST MONOLITHICALLY



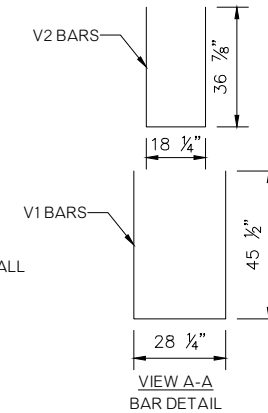
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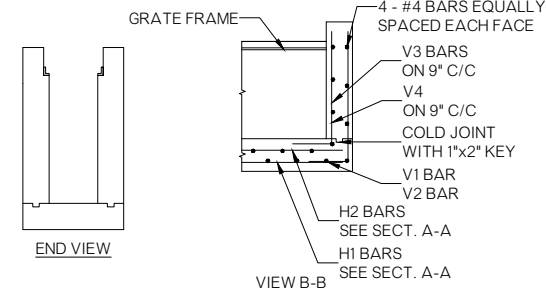
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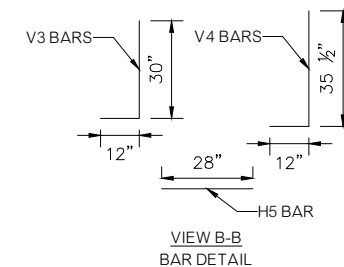
VIEW A-A



VIEW A-A  
BAR DETAIL



VIEW B-B

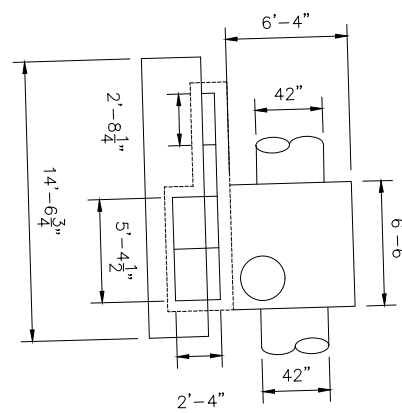


VIEW B-B  
BAR DETAIL

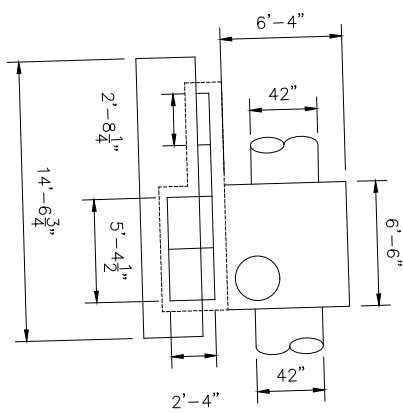
STR. NO. 30  
STR. @ STA. 680+86 RT

STR. NO. 36  
STR. @ STA. 684+07 RT

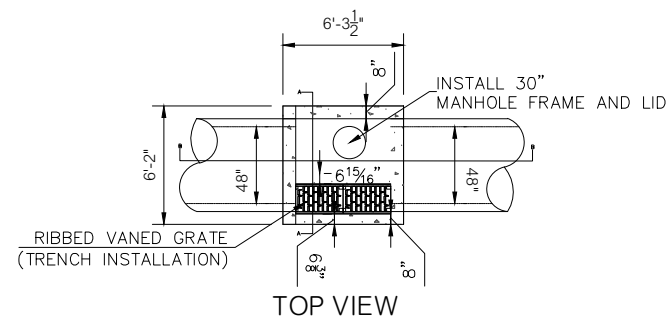
NOTE: SEE P&P SHEETS FOR FL AND TOP OF GRATE ELEVATIONS.



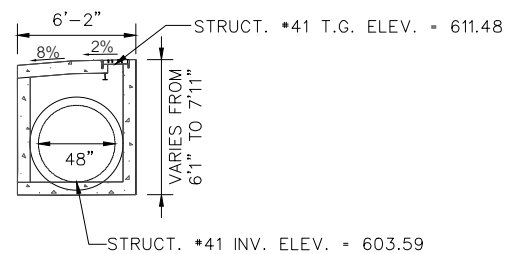
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**STR. NO. 40**  
STR. @ STA. 689+84 RT

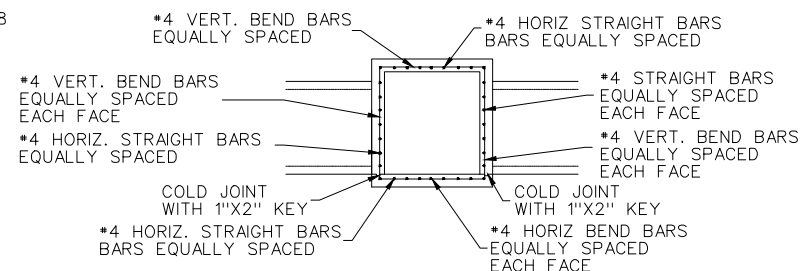


**TOP VIEW**

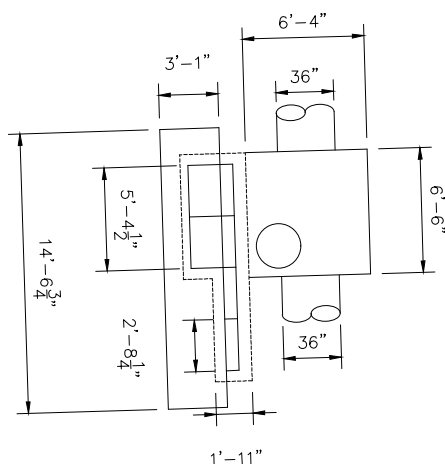


**SECTION A-A**

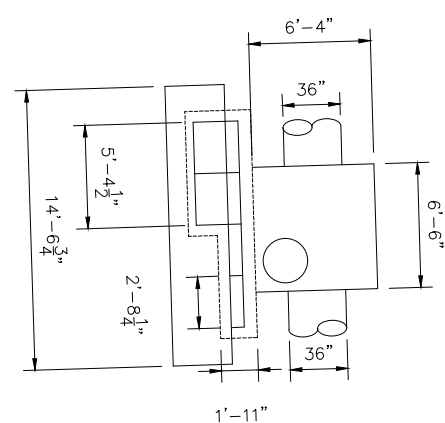
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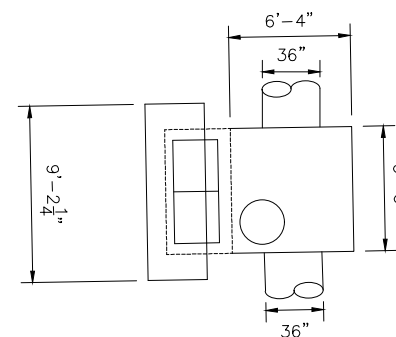
**SECTION B-B**



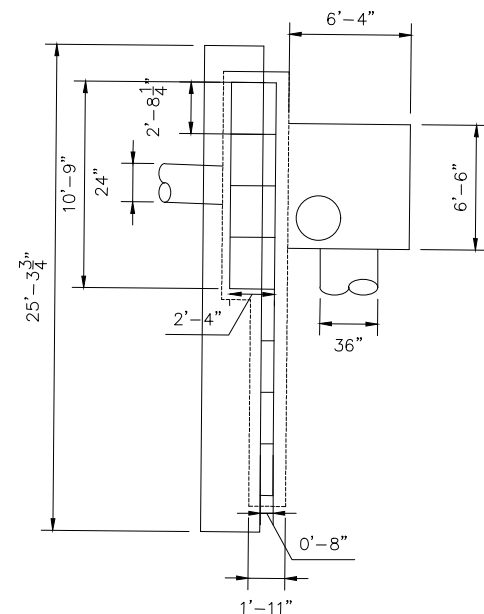
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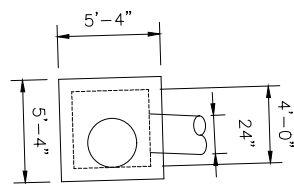
**STR. NO. 43**  
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**STR. NO. 44**  
STR. @ STA. 694+84 RT



**STR. NO. 45**  
STR. @ STA. 695+83 RT

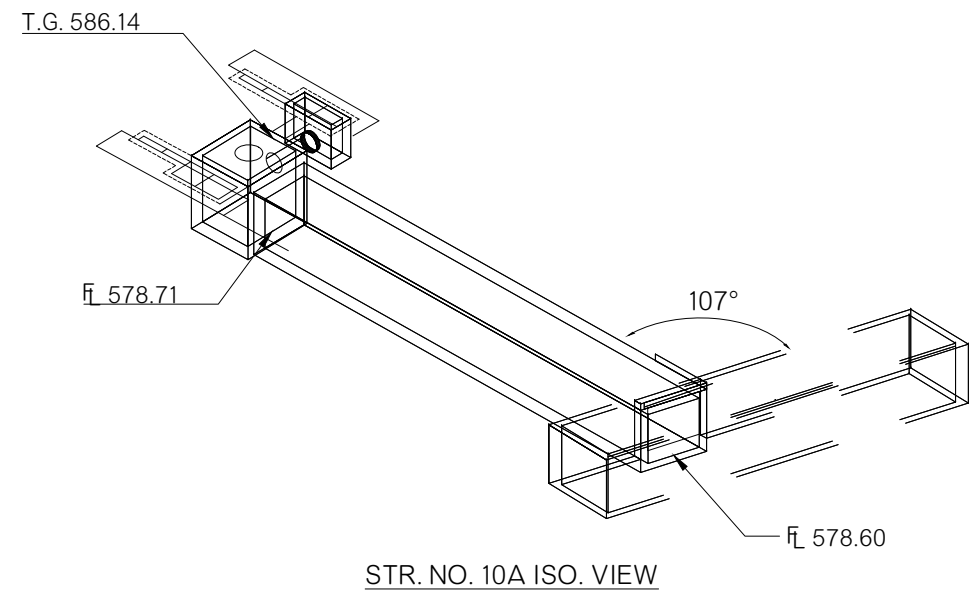


**STR. NO. J45**  
STR. @ STA. 695+87 RT

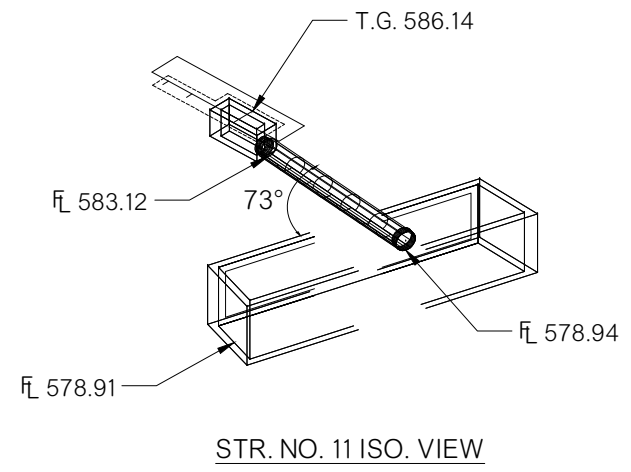
NOTE: SEE P&P SHEETS FOR  $F_L$  AND TOP OF GRATE ELEVATIONS.

**U.S. HIGHWAY 69**

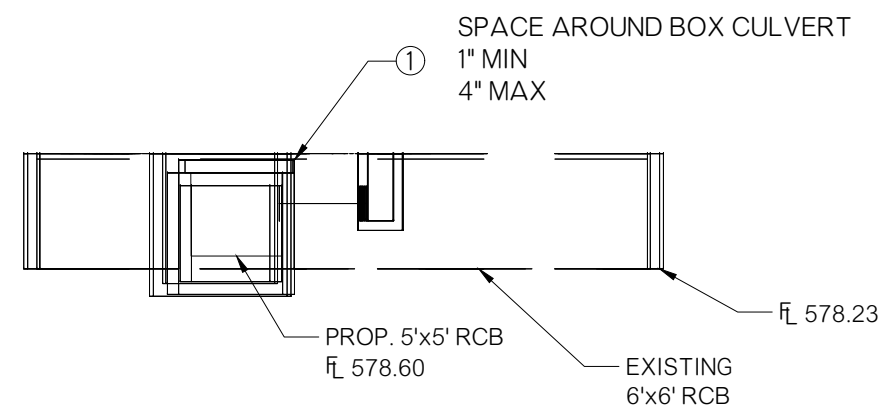
**DRAINAGE DETAILS (5 OF 6)**



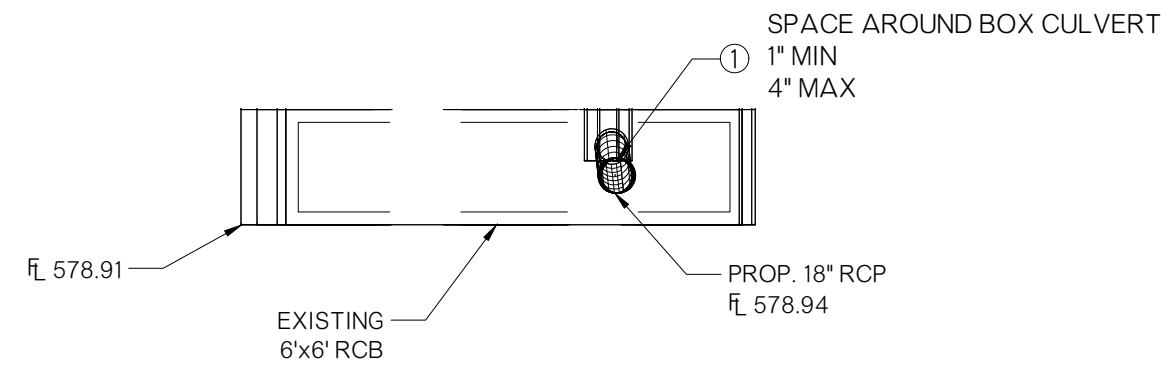
STR. NO. 10A ISO. VIEW



STR. NO. 11 ISO. VIEW



STR. NO. 10A FRONT VIEW

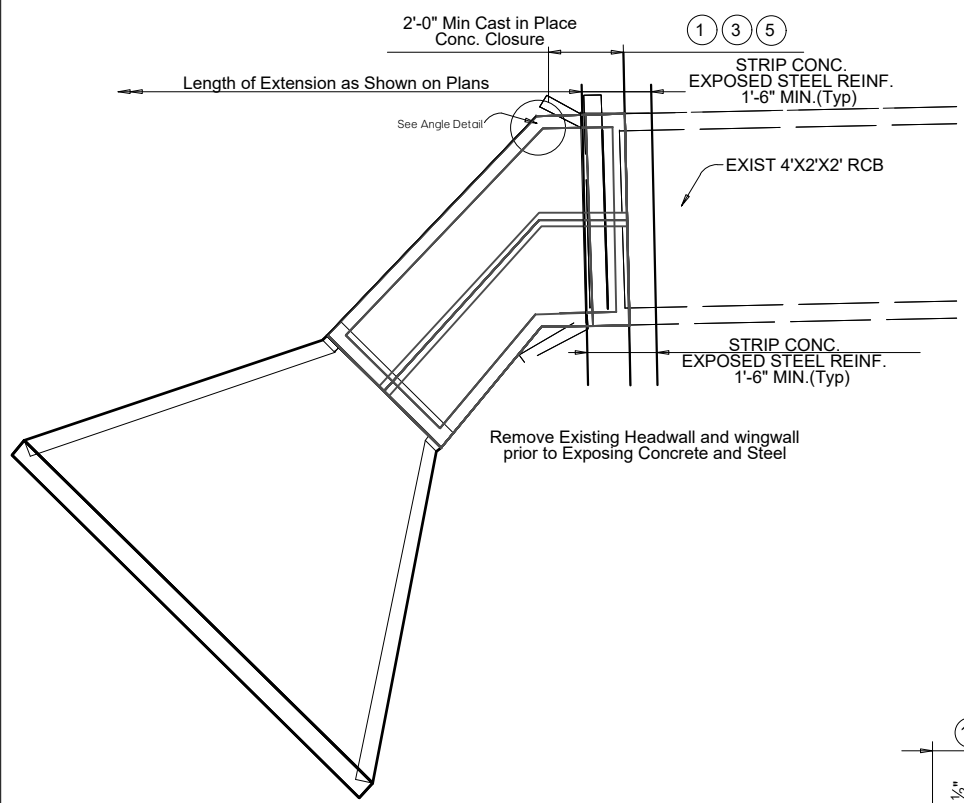


STR. NO. 11 FRONT VIEW

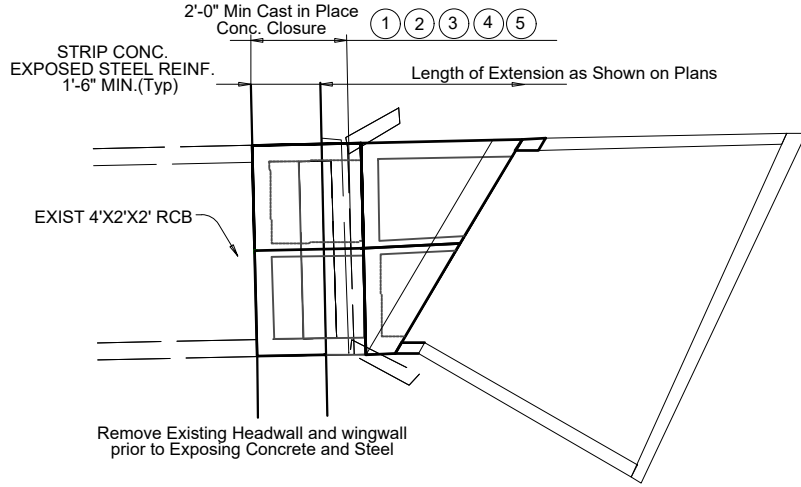
① COMPLETELY FILL THE VOID BETWEEN THE PROPOSED STRUCTURE AND THE CONNECTING EXISTING STRUCTURE (PIPE/BOX) WITH CEMENTITIOUS GROUT AND MORTAR.

NOTE: SEE P&P SHEETS FOR FL AND TOP OF GRATE ELEVATIONS.

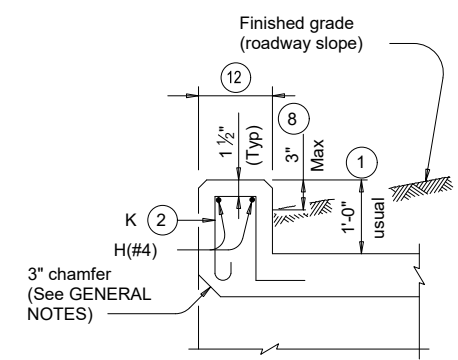
HUB Engineering  
 Time of Plot: 11/30/2023 1:40 PM Plot Style: 05012021.ctb  
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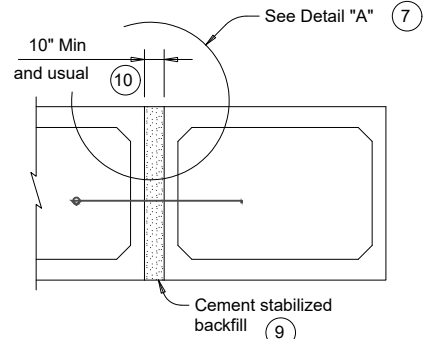
**EXTENSION OF EXIST. RCB**



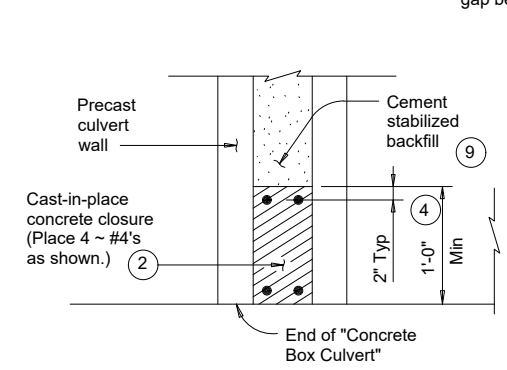
**EXTENSION OF EXIST. RCB 30 DEG.**



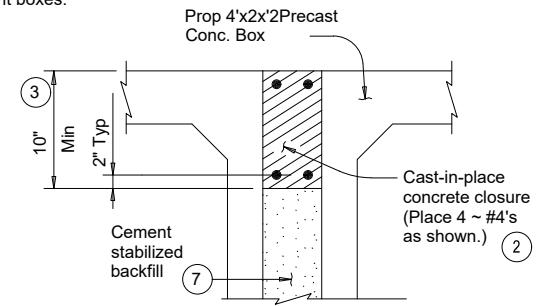
**SECTION THRU CURB**



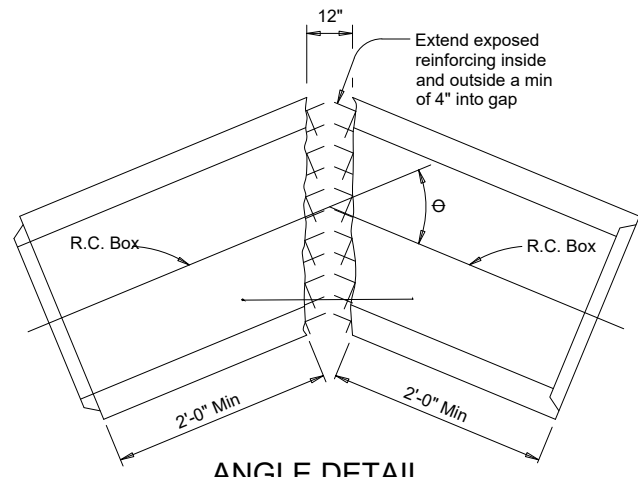
**MULTIPLE UNIT PLACEMENT**



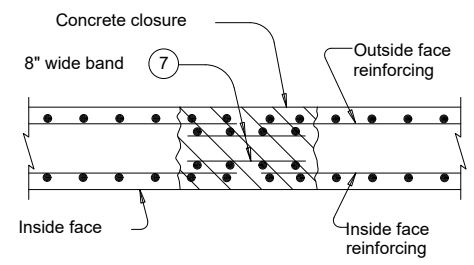
**SECTION B-B**



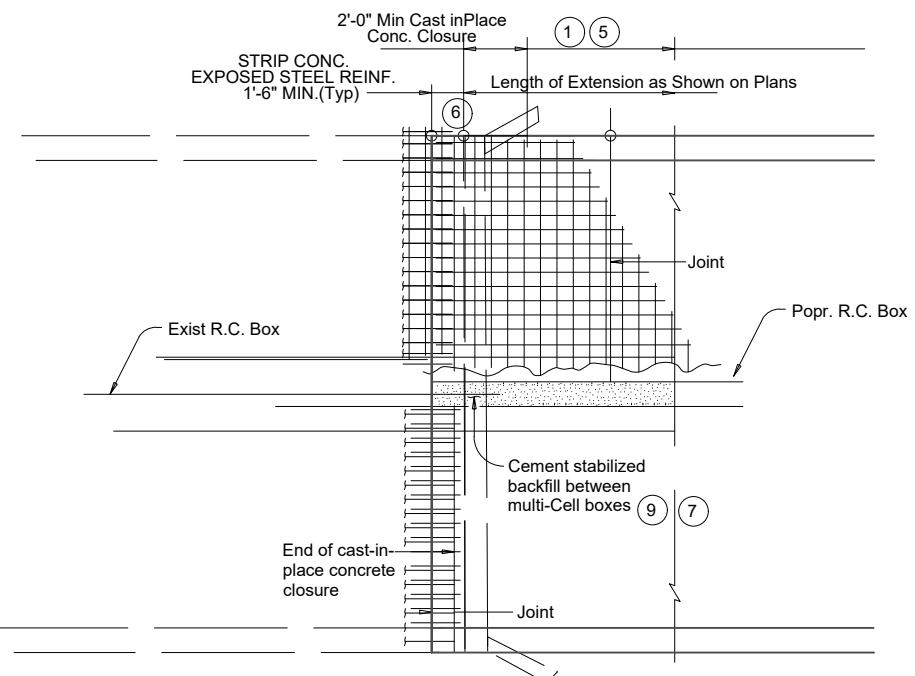
**DETAIL "A"**



**ANGLE DETAIL**



**SECTION A-A**



**PLAN OF EXTENSION OF EXIST. RCB**

- 1 Extend curb, wingwall, or safety end treatment reinforcing into concrete closure. Bend or trim, as necessary, any reinforcing that does not fit into closure area.
- 2 Provide a 2'-0" Min cast-in-place concrete closure. Break back boxes in the field or cast boxes short. Provide bands of reinforcing in the closure that are the same size and spacing as in the exist. precast box section. Provide #4 longitudinal reinforcing spaced at 12 inches Max within the closure. Except where shown otherwise, construct the cast-in-place closure flush with the inside and outside faces of the precast box section.
- 3 For multiple unit placements, adjust the length of the closure for the interior walls as necessary. Provide a 2'-0" Min cast-in-place closure in the top slab, bottom slab, and exterior wall. See Section B-B detail when interior walls are cast full length.
- 4 Extend precast box reinforcing a minimum of 1'-0" into concrete closure (Typ).
- 5 Place bands of reinforcing matching the inside and outside face reinforcing in the gaps of the top and bottom slabs. Place a band matching the outside face reinforcing of the wall in the gaps of the walls (placed in the outside face only). Tack weld the bands to the exposed reinforcing at each point of contact.
- 6 For vehicle safety, the following requirements must be met:
  - For structures without bridge rail, construct curbs no more than 12" above finished grade.
  - For structures with bridge rail, construct curbs flush with finished grade. Reduce curb heights, if necessary, to meet the above requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.
- 7 Cement stabilized backfill between boxes is considered part of the box culvert for payment.
- 8 All curb concrete and reinforcing is considered part of the box culvert for payment.
- 9 Any additional concrete and reinforcing required for the closures will be considered subsidiary to the box culvert for payment. 1'-6" typical exposure of conc and steel. For multiple unit placement, provide wall closure as shown in Detail "A".
- 10 This dimension may be increased with approval of the Engineer to allow the precast boxes to be tunneled or jacked in accordance with Item 476, "Jacking, Boring, or Tunneling Pipe or Box." No payment will be made for any additional material in the gap between adjacent boxes.

**QUANTITIES FOR 4'X2'X2' RCB EXTENSION (8)**

Reinforcing Steel for Barrel Cell	132.3 lbs/ft
Concrete for Barrel Cell	0.96 cy/ft
Reinforcing Steel for end section	2890 Lb
Concrete for end section	18.00 CY
Reinforcing Steel for Curtain Wall	760.0 lbs
Concrete for Curtain Wall	5.90 cy

**MATERIAL NOTES:**  
 Provide Grade 60 reinforcing steel.  
 Provide ASTM A1064 welded wire reinforcement.  
 Provide Class "C" concrete (f<sub>c</sub> = 3.65 ksi) for the closures.  
 Provide cement stabilized backfill meeting the requirements of "Excavation and Backfill for Structures."  
 Any additional concrete required for the closures will be considered subsidiary to the box culvert.

**GENERAL NOTES:**  
 Designed according to AASHTO LRFD Bridge Design Specifications.  
 Refer to the DOUBLE CELL RCB STANDARDS FOR Box Culverts Precast (SCP) standard sheets for details and notes not shown.  
 Chamfer the bottom edge of the top slab closure 3 inches at culvert closure ends.

DESIGN	WS	12/19	OKLAHOMA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION
DRAWN	AJ	12/19	
CHECKED	WS	12/19	
APPROVED			
SQUAD		ENGINEERS	
COUNTY	MUSKOGEE	HIGHWAY	
			STATE JOB NO. 27108(04)
			SHEET NO R008

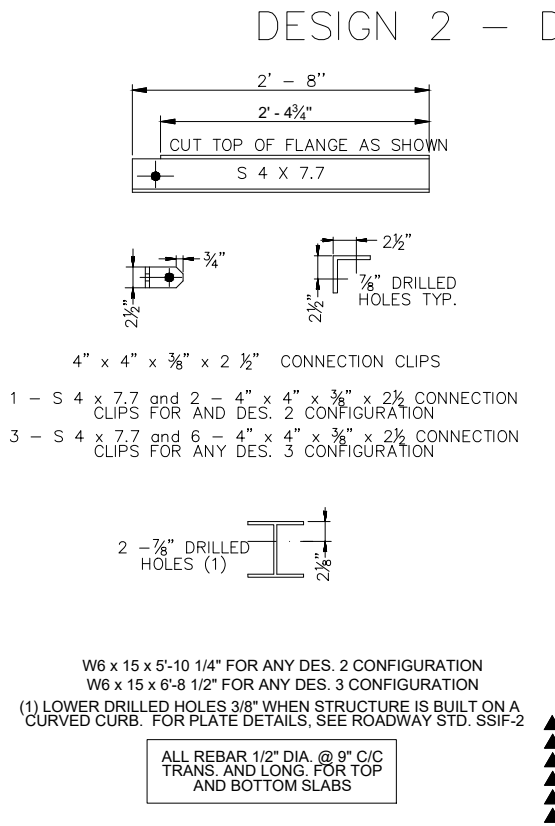
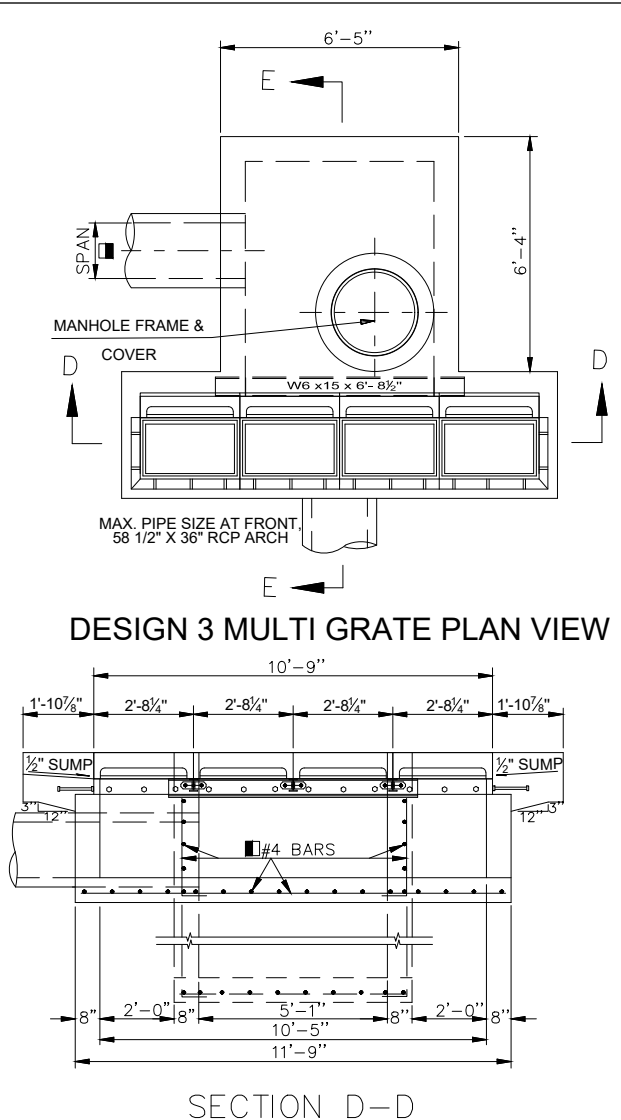
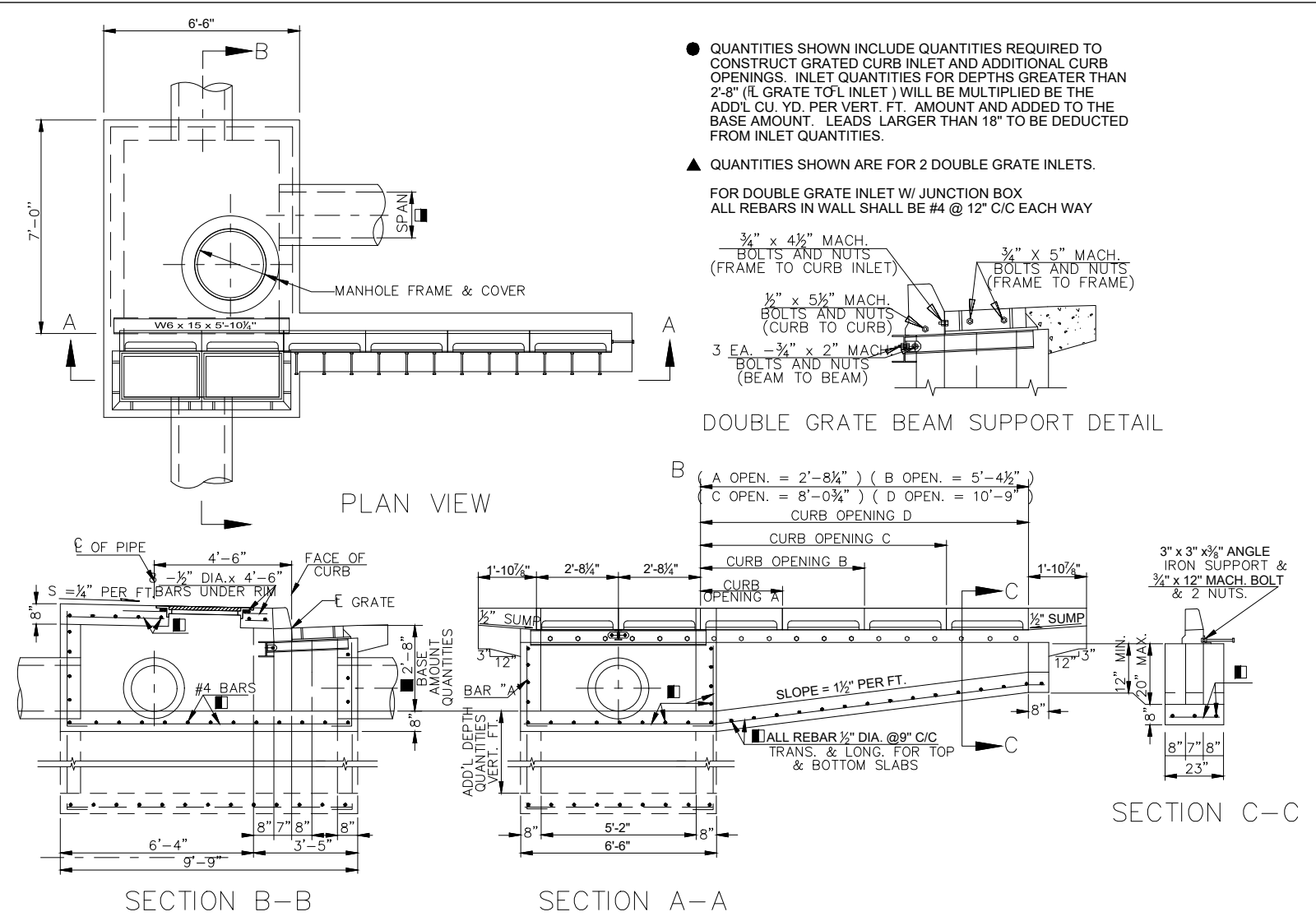
**BOX EXTENSION DETAILS  
 PRECAST OR CAST IN PLACE  
 MISCELLANEOUS DETAILS**

HUB, E. n. g. i. n. e. e. r. s.  
 Time of Plot: 11/21/2023 4:01 PM Plot Style: -HUB-HALF.CTB  
 C:\2014\14000\TUS69\DESIGN\Production Plans\27108\_4x2x2 RCB MiscDetails.dwg



GENERAL NOTES

- ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2019 ODOT STANDARD SPECIFICATIONS.
- ROADWAY STANDARD SSIF-5 FRAMES AND STANDARD CIG-4 GRATES SHALL BE USED WITH THESE INLETS UNLESS OTHERWISE SPECIFIED. COST OF THE FRAMES, GRATES AND HOODS SHALL BE INCLUDED IN THE COST OF THE CURB INLET.
- WHEN THE INLET IS BUILT IN NEW CONCRETE PAVEMENT, THE APRON AROUND THE INLET MAY BE BUILT INTEGRAL WITH PAVEMENT OR MAY BE SEPARATE AND OF THE SIZE AS SHOWN. THE THICKNESS SHALL BE THE SAME AS THE CONCRETE PAVEMENT OR CURB AND GUTTER. IF CONSTRUCTED IN ANY OTHER AREA OR IN EXISTING PAVEMENT, THE APRON AROUND THE INLET SHALL BE THE SIZE AS SHOWN AND BUILT OF P.C. CONCRETE TO A MINIMUM 8 INCH THICKNESS.
- THERE WILL BE NO DEDUCTION OF PAYMENT FOR CONCRETE CURB AND GUTTER OR P.C. CONCRETE THROUGH THE EXTENTS OF THE INLET HOODS. DEDUCTION WILL BE MADE FOR THE PAYMENT OF INTEGRAL CURB THROUGH THE EXTENTS OF THE INLET HOODS.
- ALL LETTERING TO BE RECESSED 1/16 INCH AND SHALL NOT EXCEED ONE (1) INCH IN HEIGHT. INFORMATION REQUIRED AS WELL AS ACCEPTABLE LOCATION SHALL BE AS STATED IN THE SPECIFICATIONS. LOCATION OF LETTERING TO BE AS SHOWN, WITH ADDITIONAL IDENTIFICATION LETTERING AT OTHER LOCATIONS PERMITTED.
- CAST-IN-PLACE CONCRETE WALLS MEETING MIX REQUIREMENTS OF CLASS A CONCRETE MAY BE BUILT IN LIEU OF THE BRICK MASONRY TO THE SAME DIMENSIONS AS SHOWN. NO. 4 REINFORCING STEEL BARS SPACED 30" VERTICALLY AND 12" HORIZONTALLY WILL BE REQUIRED FOR ALL CAST-IN-PLACE INLET WALLS EXCEEDING 5 FEET IN DEPTH (GUTTER ELEVATION TO THE FLOWLINE ELEVATION). COST OF STEEL REINFORCING TO BE INCLUDED IN THE COST OF THE CURB INLET.
- ALL CAST-IN-PLACE CLASS A CONCRETE INLET FLOORS SHALL HAVE NO. 4 REINFORCING STEEL PLACED AT 16" MAXIMUM C/C SPACING IN BOTH DIRECTIONS.
- THE STANDARD DRAWING, DESIGN NUMBER, DESIGNATION NUMBER, AND NUMBER OF ADDITIONAL OPENINGS SHALL BE INDICATED ON THE PLANS: I.E. ROADWAY STANDARD CI-2, DES. 2 (A-B).
- TYPE B AND C FRAMES TO BE USED FOR MULTIPLE DOUBLE GRATES. SEE ROADWAY STANDARD SSIF-5 FOR DETAILS.
- BOLT(S) WITH EXPANSION DEVICES OR EPOXY-TYPE PUTTY TO BE USED TO INSTALL CAST IRON HOODS INTO CONCRETE CURB. COST OF INSTALLATION TO BE INCLUDED IN PRICE BID FOR THE CURB INLET.
- CASTINGS AS SHOWN HERE SHALL BE CAST STEEL, DUCTILE IRON OR GRAY IRON CONFORMING TO SECTION 725 OF THE 2019 ODOT SPECIFICATIONS. REFER TO STANDARD CI-2 FOR TYPE OF CAST IRON CURB INLETS. DETAIL OF CONNECTION ANGLE IRON AND CAST IRON HOOD AND DETAIL OF CONNECTION FRAME AND CAST IRON HOOD.
- TWO INCH RADIUS MAY BE USED IF APPROVED BY THE ENGINEER.
- CONSTRUCTION STATIONING OF THE CURB INLETS IS DETERMINED BY THE CENTERLINE (C) OF THE SURFACE GRATES.
- REFER TO STANDARD SBI-4 FOR UNCLASSIFIED EXCAVATION AND STRUCTURAL REFER TO STANDARD MFC-5 FOR DETAILS OF FRAME AND COVER.

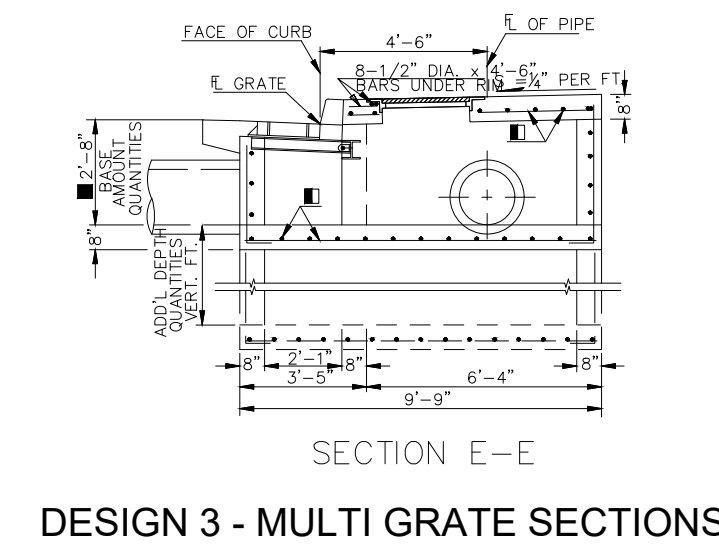


**STANDARD INLET DEPTH**

INLET W/ SMALL JUNCTION BOX	2'-8" FOR 18" R.C.P. & 28 1/2" x 18" REINF. CONC. ARCH PIPE 3'-2" FOR 24" R.C.P. & 36 1/4" x 22 1/2" REINF. CONC. ARCH PIPE 3'-8" FOR 30" R.C.P. & 43 3/4" x 26 5/8" REINF. CONC. ARCH PIPE 4'-2" FOR 36" R.C.P. & 58 1/2" x 36" REINF. CONC. ARCH PIPE
W/ LARGE JUNC. BOX	4'-8" FOR 42" R.C.P. 5'-2" FOR 48" R.C.P.
MAX. PIPE SIZE AT UPSTREAM SIDE OR WITH ADDITIONAL CURB OPENINGS, 58 1/2" X 36" R.C.P. ARCH	

**QUANTITIES ( FOR 18" RCP MIN. DEPTH )**

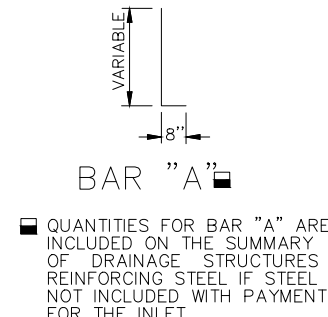
INLET DESIGN	CURB OPEN DESIGNATION	CLASS "A" CONCRETE		REINF. STEEL	STR. EXC.	INLET FRAME & GRATE	CAST IRON CURB INLET	ANGLE IRON
		BASE AMOUNT	ADD'L. CY PER VERT. FT.					
		C.Y.	C.Y.	LBS.	C.Y.	EACH	EACH	NO.
2	A	4.45	0.73	213.60	2.32	2	2	
2	B	4.85	0.87	227.07	2.52	2	3	1
2	C	5.20	1.01	240.25	2.71	2	4	1
2	D	5.51	1.14	251.48	2.90	2	5	1
2	2A	5.83	1.27	264.66	3.09	2	6	1
2	2A	5.26	1.00	240.54	2.72	2	4	2
2	A-B	5.61	1.14	253.72	2.91	2	5	2
2	A-C	5.92	1.27	264.95	3.10	2	6	2
2	2B	5.96	1.28	266.90	3.10	2	6	2
2	B-C	6.27	1.41	278.13	3.29	2	7	2
2	B-D	6.59	1.54	291.31	3.48	2	8	2
2	2D	7.22	1.80	315.72	3.86	2	10	2
3	A	5.81	1.10	247.14	2.99	4	4	
3	B	6.57	1.38	290.12	3.38	4	6	1
3	D	7.20	1.64	318.12	3.76	4	8	1
3	2-B	7.33	1.66	333.10	3.77	4	8	2
3	B-D	7.96	1.92	361.10	4.15	4	10	2
3	2-D	8.59	2.18	389.10	4.53	4	12	2



**DESIGN 3 - MULTI GRATE SECTIONS**

**ANGLE IRON LENGTH**

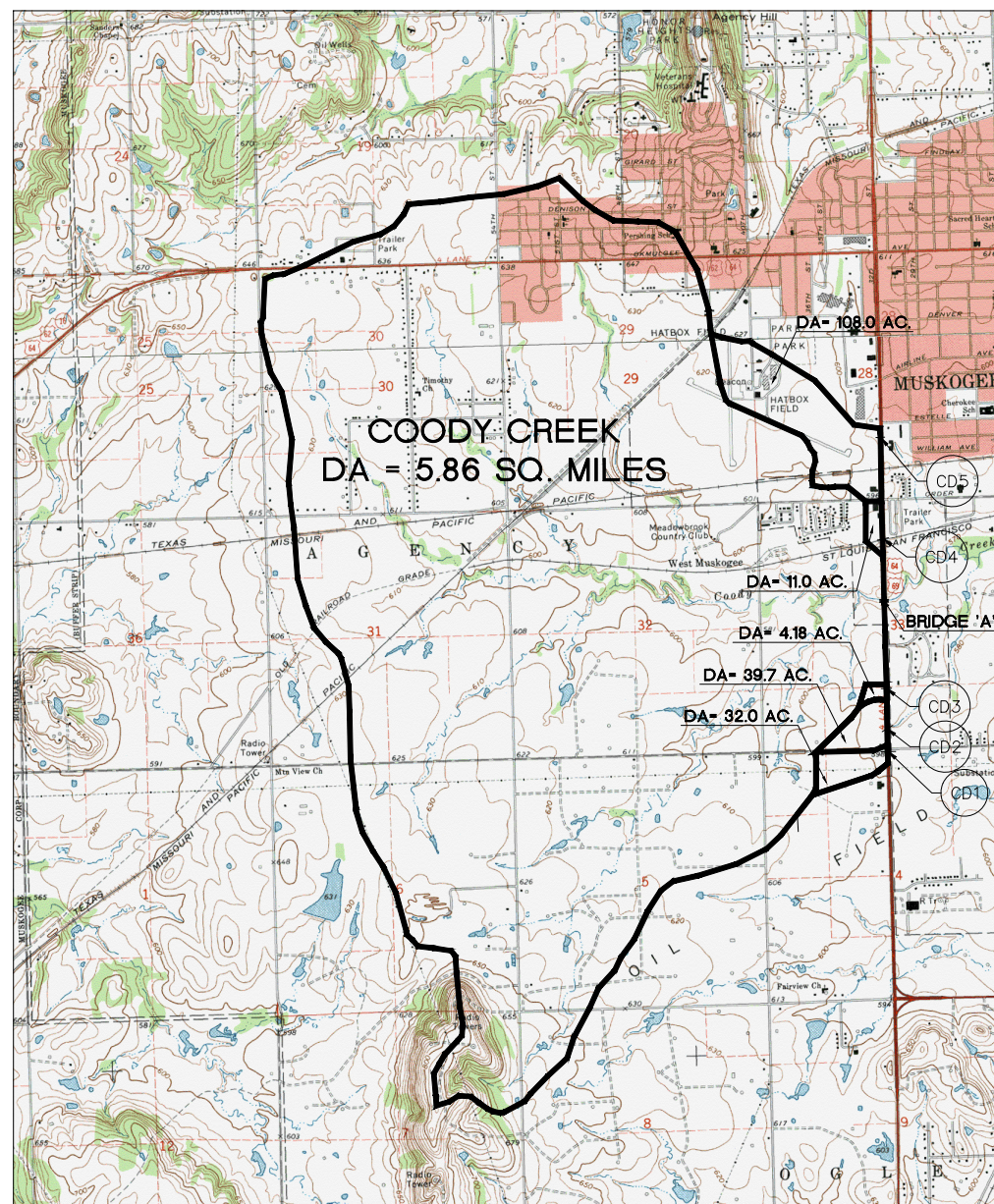
OPENING	LENGTH
"A"	2'-5 3/8"
"B"	5'-1 5/8"
"C"	7'-9 7/8"
"D"	10'-6 1/8"



HUB, E. n. g. i. n. e. e. r. s.  
 Time of Plot: 11/21/2023 4:02 PM Plot Style: -HUB-HALF.CTB  
 C:\2014\114000\TUS69\DESIGN\Production Plans\27108\_MULT1 GRATE DETAIL SHEET.dwg

**DRAINAGE STRUCTURE DESIGN RECORD (CROSS DRAIN)**

STR. NO.	DESIGN YEAR	C.R.L. STATION	STRUCTURE SIZE AND TYPE	DRAINAGE AREA		WEIGHTED "C" COEFFICIENT	"Tc" COEFF. TIME OF CONC.	INTENSITY OF DESIGN YEAR RAINFALL		DESIGN YEAR DISCHARGE		F.L. INLET	F.L. OUTLET	CONTROLLING HEADWATER		FLOW VELOCITY		TYPE OF HYDRAULIC CONTROL
				BASIN	ACRE			I <sub>25</sub>	I <sub>50</sub>	Q <sub>25</sub>	Q <sub>50</sub>	ELEVATION		Q <sub>25</sub>	Q <sub>50</sub>	V <sub>25</sub>	V <sub>50</sub>	
								I/HR		CFS		FT.	FT.	CF./SEC.	ELEV.	FT./SEC.		
CD1	50	592+97	EXTEND EXIST. 4'x2'108.6' LG RCB, SK 0*, 22.5' LT. © SK 45' RF	32	0.53	65	2.9	3.3	49	56	590.10	589.24	594	594.1	6.0	6.1	OUTLET	
CD2	50	597+32	EXTEND EXIST. 8'x3'x126.9' LG RCB, SK 30* RF, 14.0' LT © SK 0' & 16.0' RT @ SK 0*	39.7	0.40	52	3.4	3.8	54	61	587.50	586.2	589.4	589.6	2.3	2.5	OUTLET	
CD3	50	606+34	EXTEND EXIST. 3'x2'x109.5' LG RCB, SK 0', 9.0' LT & 17.0' RT	4.1	0.40	30	4.6	5.1	8	9	588.00	587.5	588.5	588.6	1.3	1.5	INLET	
CD4	50	638+25	SMD TYPE 2A w/30"x64' LF RCP LT & 30"x68' LF RCP RT, BOTH w/ PCES	11	0.50	32	4.5	5	25	28	573.50	573	577	577.5	5.1	5.6	OUTLET	
CD5	50	659+66	EXTEND EXIST. 6'x3'x108.5' LG RCB, SK 0', 10.0' LT & 8.0' RT	108	0.40	57	3.2	3.6	1.38	156	579.50	578.4	583.5	584	11.9	12.3	INLET	
				SQ. MI.														
BRIDGE 'A'		624+97.71	EXTEND EXIST. 12'-14'-12'x14'x1 06.65' LG RCB, SK 0", 13.84' LT & 16.5' RT	5.86														



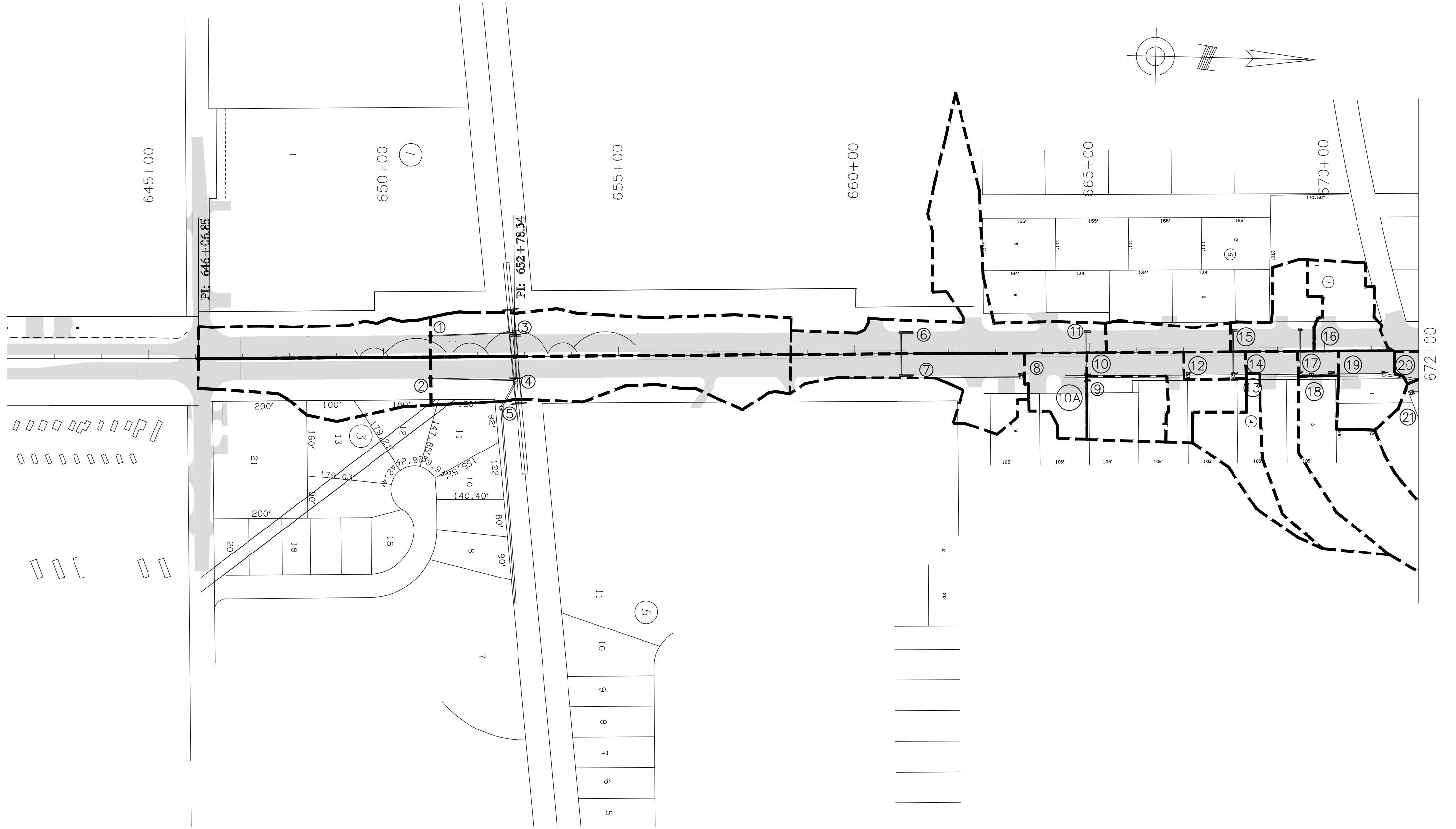
THE DRAINAGE AREA MAP IS TO BE USED IN CONJUNCTION WITH THE STORM WATER MANAGEMENT PLAN. THE DRAINAGE AREA MAP DISPLAYS THE DRAINAGE CHARACTERISTICS.

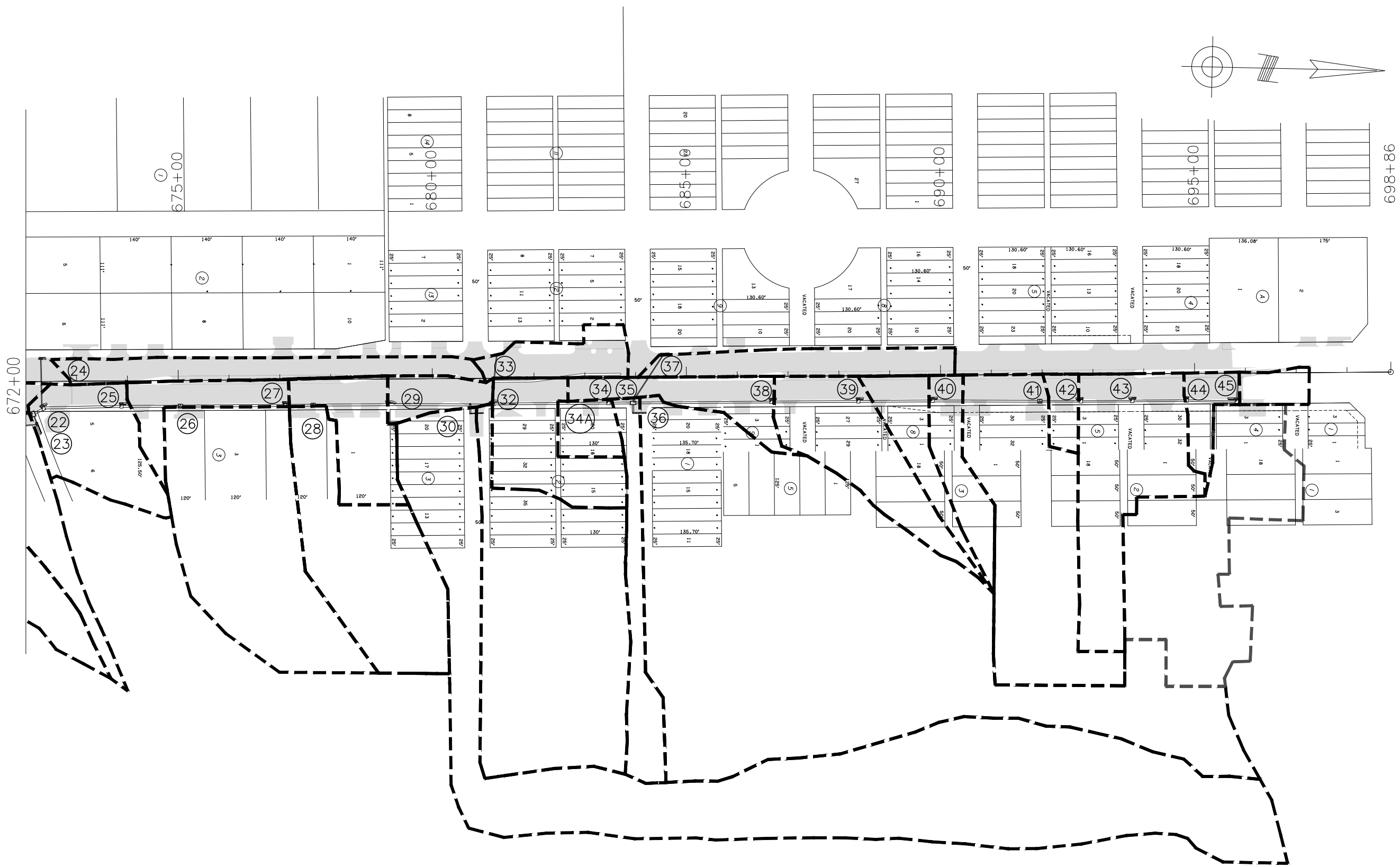
**U.S. HIGHWAY 69**

**DRAINAGE MAP**

(CROSS DRAIN STRUCTURES)

MUSKOGEE COUNTY PROJECT NO. 27108(04) SHEET NO. R010





OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
 November 2023

**U.S. HIGHWAY 69**  
**DRAINAGE MAP**  
 (STORM DRAIN STRUCTURES)(2 OF 2)





# STORM WATER MANAGEMENT PLAN

## SITE DESCRIPTION

## EROSION AND SEDIMENT CONTROLS

PROJECT LIMITS: FROM US 64 (PEAK BLVD) NORTH 3 MILES TO US 69 (OKMULGEE AVE.)  
IN MUSKOGEE, OKLAHOMA. BEGINNING @ STA. 540+72.83 & ENDING @ STA. 696+86.36

PROJECT DESCRIPTION: WIDENING, SURFACING, GRADING, TRAFFIC CONTROL, SIGNALS,  
AND NEW BRIDGE STRUCTURE INSTALLATIONS.

SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES:  
CONTRACTOR SHALL OBTAIN AN NOI PRIOR TO NOTICE TO PROCEED.

1. INSTALL TEMPORARY EROSION CONTROL SYSTEMS AT LEAST 48 HRS PRIOR TO ANY CONSTRUCTION ACTIVITIES.
2. INSPECT EROSION CONTROL 24 HRS PRIOR TO A STORM EVENT AND 24 HRS AFTER A STORM EVENT.
3. REMOVE SILT ACCUMULATION.
4. INSTALL PERMANENT EROSION CONTROL MEASURES.
5. ENSURE ALL PERMANENT VEGETATION HAS BEEN ESTABLISHED PRIOR TO REMOVAL OF TEMPORARY EROSION CONTROL MEASURES.
6. FILL THE NOT AFTER ALL PROJECT TASKS HAVE BEEN COMPLETED AND APPROVED.

SOIL TYPE: TALOKA/VERDIGRIS SILT LOAM

TOTAL AREA OF THE CONSTRUCTION SITE: 65.95 ACRES

ESTIMATED AREA TO BE DISTURBED: 46.45 ACRES

OFFSITE AREA TO BE DISTURBED:  
(FOR CONTRACTOR USE)

TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 18.1 ACRES

TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 22.94 ACRES

POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 0.65

LATITUDE & LONGITUDE OF CENTER OF PROJECT: 35°44'4.93" N, 95°24'9.7" W

PROJECT WILL DISCHARGE TO:

NAME OF RECEIVING WATERS: COODY CREEK

SENSITIVE WATERS OR WATERSHEDS: YES  NO

303(d) IMPAIRED WATERS: YES  NO

IF YES, LIST IMPAIRMENT: ENTEROCOCCUS, ESCHERICHIA COLI

LOCATED IN A TMDL: YES  NO

LAKE THUNDERBIRD TMDL: YES  NO

MS4 ENTITY: YES  NO

IF YES, LOCATION: OK120400010400\_00

NOTE:  
THIS SHEET SHOULD BE USED IN CONJUNCTION WITH A DRAINAGE MAP THAT ILLUSTRATES THE DRAINAGE PATTERNS/PATHWAYS AND RECEIVING WATERS FOR THIS PROJECT. THIS SHEET SHOULD ALSO BE USED WITH THE EROSION CONTROL SUMMARIES, PAY ITEMS, & NOTES.

**SOIL STABILIZATION PRACTICES:**

- TEMPORARY SEEDING
- PERMANENT SODDING, SPRIGGING OR SEEDING
- VEGETATIVE MULCHING
- SOIL RETENTION BLANKET
- PRESERVATION OF EXISTING VEGETATION

NOTE: TEMPORARY EROSION CONTROL METHODS MUST BE USED ON ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR OVER 14 DAYS. METHODS USED WILL BE AS SHOWN ON PLANS, OR AS DIRECTED BY THE ENGINEER.

**STRUCTURAL PRACTICES:**

- STABILIZED CONSTRUCTION EXIT
- TEMPORARY SILT FENCE
- TEMPORARY SILT DIKES
- TEMPORARY FIBER LOG
- DIVERSION, INTERCEPTOR OR PERIMETER DIKES
- DIVERSION, INTERCEPTOR OR PERIMETER SWALES
- ROCK FILTER DAMS
- TEMPORARY SLOPE DRAIN
- PAVED DITCH W/ DITCH LINER PROTECTION
- TEMPORARY DIVERSION CHANNELS
- TEMPORARY SEDIMENT BASINS
- TEMPORARY SEDIMENT TRAPS
- TEMPORARY SEDIMENT FILTERS
- TEMPORARY SEDIMENT REMOVAL
- RIP RAP
- INLET SEDIMENT FILTER
- TEMPORARY BRUSH SEDIMENT BARRIERS
- SANDBAG BERMS
- TEMPORARY STREAM CROSSINGS

**OFFSITE VEHICLE TRACKING:**

- HAUL ROADS DAMPENED FOR DUST CONTROL
- LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
- EXCESS DIRT ON ROAD REMOVED DAILY

**NOTES:**

CONTRACTOR SHALL KEEP AND MAINTAIN AN APPROVED SWPPP REPORT ON SITE AT ALL TIMES. NO TRASH SHALL BE ALLOWED ON CONSTRUCTION SITE. TRASH SHALL BE PROPERLY AND REMOVE FROM SITE ON A DAILY BASIS. NO SEDIMENT ACCUMULATION. SEDIMENT SHALL NOT BE ALLOWED TO REACH MORE THAN 6" PER STORM EVENT. INSPECTIONS SHALL BE DONE PERIODICALLY TO ENSURE NON POINT POLLUTANTS ENTER THE WATER STREAM.

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:

**MAINTENANCE AND INSPECTION:**

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER FROM THE BEGINNING OF CONSTRUCTION UNTIL AN ACCEPTABLE VEGETATIVE COVER IS ESTABLISHED. INSPECTION BY THE CONTRACTOR AND ANY NECESSARY REPAIRS SHALL BE PERFORMED ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCH AS RECORDED BY A NON-FREEZING RAIN GAUGE TO BE LOCATED ON SITE. POTENTIALLY ERODIBLE AREAS, DRAINAGEWAYS, MATERIAL STORAGE, STRUCTURAL DEVICES, CONSTRUCTION ENTRANCES AND EXITS ALONG WITH EROSION AND SEDIMENT CONTROL LOCATIONS ARE EXAMPLES OF SITES THAT NEED TO BE INSPECTED.

**WASTE MATERIALS:**

PROPER MANAGEMENT AND DISPOSAL OF CONSTRUCTION WASTE MATERIAL IS REQUIRED BY THE CONTRACTOR. MATERIALS INCLUDE STOCKPILES, SURPLUS, DEBRIS AND ALL OTHER BY-PRODUCTS FROM THE CONSTRUCTION PROCESS. PRACTICES INCLUDE DISPOSAL, PROPER MATERIALS HANDLING, SPILL PREVENTION AND CLEANUP MEASURES. CONTROLS AND PRACTICES SHALL MEET THE REQUIREMENTS OF ALL FEDERAL, STATE AND LOCAL AGENCIES.

**HAZARDOUS MATERIALS:**

PROPER MANAGEMENT AND DISPOSAL OF HAZARDOUS WASTE MATERIALS IS REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS, STATE AND FEDERAL REGULATIONS TO ENSURE CORRECT HANDLING, DISPOSAL, SPILL PREVENTION AND CLEANUP MEASURES. EXAMPLES INCLUDE BUT ARE NOT LIMITED TO: PAINTS, ACIDS, CLEANING SOLVENTS, CHEMICAL ADDITIVES, CONCRETE CURING COMPOUNDS AND CONTAMINATED SOILS.

**GENERAL NOTES:**

A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED TO COMPLY WITH THE OKLAHOMA POLLUTION DISCHARGE ELIMINATION SYSTEM (OPDES) REGULATIONS. THIS PLAN IS INITIATED DURING THE DESIGN PHASE, CONFIRMED IN THE PRE-WORK MEETINGS AND AVAILABLE ON THE JOB SITE ALONG WITH COPIES OF THE NOTICE OF INTENT (NOI) FORM AND PERMIT CERTIFICATE THAT HAVE BEEN FILED WITH THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ). THE PLAN MUST BE KEPT CURRENT WITH UP-TO-DATE AMENDMENTS DURING THE PROGRESSION OF THE PROJECT. ALL CONTRACTOR OFF-SITE OPERATIONS ASSOCIATED WITH THE PROJECT MUST BE DOCUMENTED IN THE SWPPP, I.E., BORROW PITS, WORK ROADS, DISPOSAL SITES, ASPHALT/CONCRETE PLANTS, ETC. THE BASIC GOAL OF STORM WATER MANAGEMENT IS TO IMPROVE WATER QUALITY BY REDUCING POLLUTANTS IN STORM WATER DISCHARGES. RUNOFF FROM CONSTRUCTION SITES HAS A POTENTIAL FOR POLLUTION DUE TO EXPOSED SOILS AND THE PRESENCE OF HAZARDOUS MATERIALS USED IN THE CONSTRUCTION PROCESS. THE PREVENTION OF SOIL EROSION, CONTAINMENT OF HAZARDOUS MATERIALS AND/OR THE INTERCEPTION OF THESE POLLUTANTS BEFORE LEAVING THE CONSTRUCTION SITE ARE THE BEST PRACTICES FOR CONTROLLING STORM WATER POLLUTION.

THE FOLLOWING SECTIONS OF THE 2019 ODOT STANDARD SPECIFICATIONS SHOULD BE NOTED:

- 103.05 BONDING REQUIREMENTS
- 104.10 FINAL CLEANING UP
- 104.12 CONTRACTOR'S RESPONSIBILITY FOR WORK
- 104.13 ENVIRONMENTAL PROTECTION
- 106.08 STORAGE AND HANDLING OF MATERIAL
- 107.01 LAWS, RULES AND REGULATIONS TO BE OBSERVED
- 107.20 STORM WATER MANAGEMENT
  - 220 MANAGEMENT OF EROSION, SEDIMENTATION AND STORM WATER POLLUTION PREVENTION
  - 221 TEMPORARY SEDIMENT CONTROL

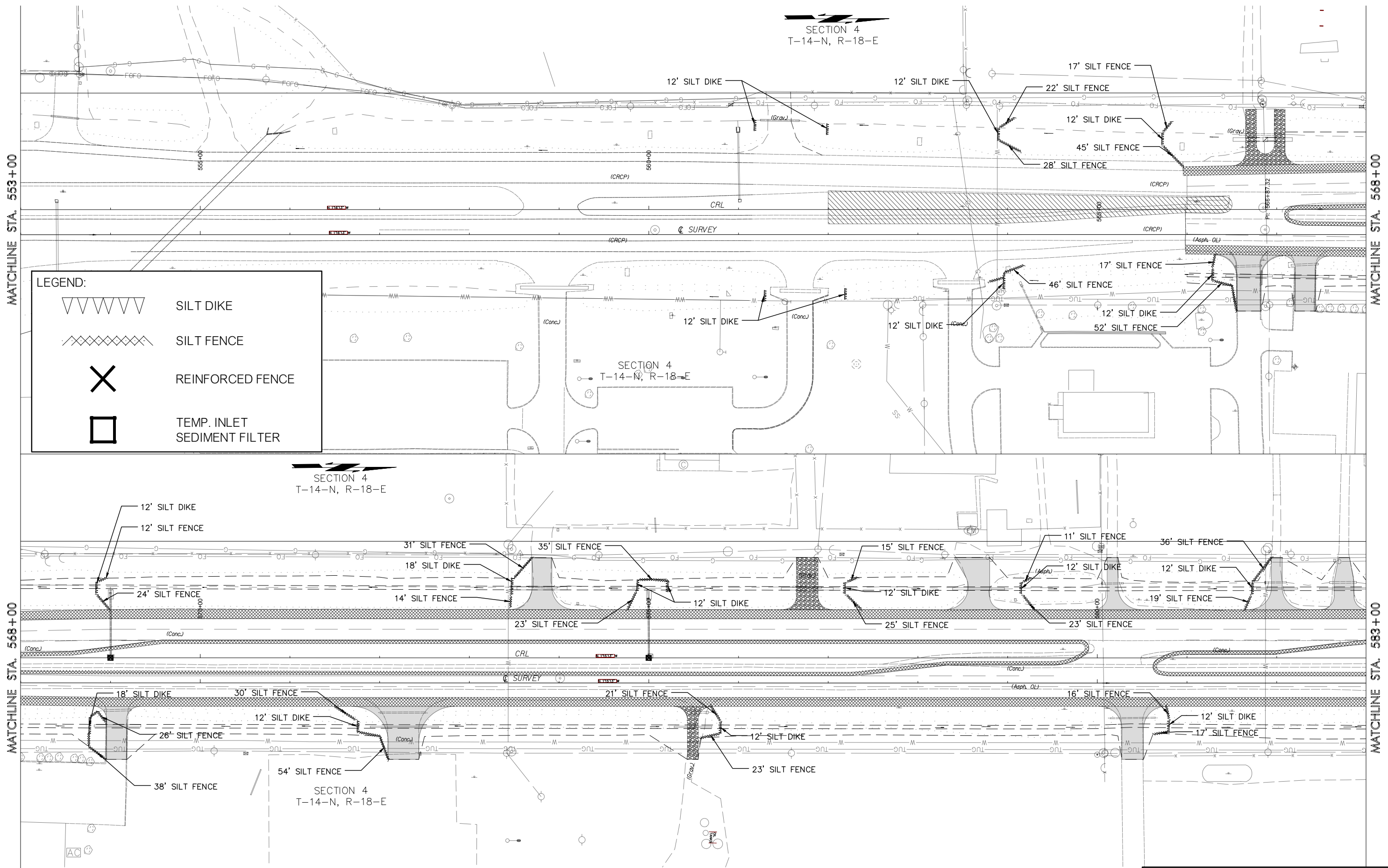
**IN ADDITION:**

"ODEQ GENERAL PERMIT (OKR10) FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES WITHIN THE STATE OF OKLAHOMA." ODEQ, WATER QUALITY DIVISION, SEPTEMBER 13, 2017.

**U.S. HIGHWAY 69**

**STORMWATER MANAGEMENT PLAN**

11/16/23 1:58:56 PM Plt Syle-HUB-HALF-CTB  
 Time of Plot: 11/20/2023 4:03 PM Plt Syle-HUB-HALF-CTB  
 G:\2024\402071\569\DESIGN\Production Plans\27108\_Erosion\_Control.dwg



**LEGEND:**

	SILT DIKE
	SILT FENCE
	REINFORCED FENCE
	TEMP. INLET SEDIMENT FILTER

OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
 October 2023

**U.S. HIGHWAY 69**  
 Erosion Control (1 of 7)



SECTION 4  
T-14-N, R-18-E

SECTION 33  
T-15-N, R-18-E

SECTION 4  
T-14-N, R-18-E

SECTION 33  
T-15-N, R-18-E

SECTION 33  
T-15-N, R-18-E





MATCHLINE STA. 583+00

MATCHLINE STA. 598+00

MATCHLINE STA. 598+00

MATCHLINE STA. 613+00

**LEGEND:**

-  SILT DIKE
-  SILT FENCE
-  REINFORCED FENCE
-  TEMP. INLET SEDIMENT FILTER

(\*)NOTE:  
SIDE STREET STATIONING  
IS BASED OFF OF THE  
SIDE STREET C.

OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
October 2023

**U.S. HIGHWAY 69**  
Erosion Control (2 of 7)

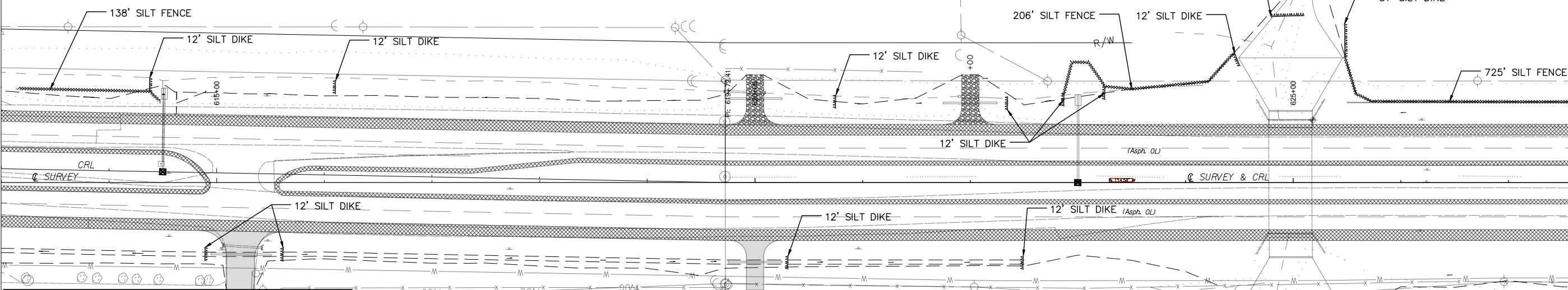
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 Time of Plot: 11/20/2023 4:03 PM Plot Style: HUB-HALF.CTB  
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 G:\2024\403\2024\10\20\2023\403 PM PLOT STYLE: HUB-HALF.CTB

SECTION 33  
T-15-N, R-18-E



MATCHLINE STA. 613+00

MATCHLINE STA. 628+00



**LEGEND:**

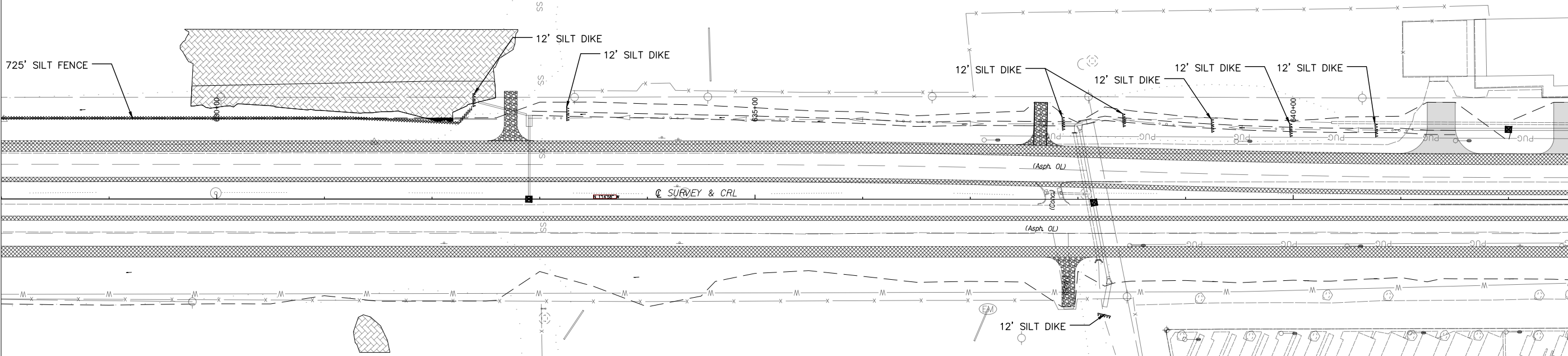
- SILT DIKE
- SILT FENCE
- REINFORCED FENCE
- TEMP. INLET SEDIMENT FILTER

SECTION 33  
T-15-N, R-18-E

SECTION 33  
T-15-N, R-18-E

MATCHLINE STA. 628+00

MATCHLINE STA. 643+00



SECTION 33  
T-15-N, R-18-E

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OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
October 2023

**U.S. HIGHWAY 69**  
Erosion Control (3 of 7)

148 E. 1st St., Suite 100, Muskogee, OK 74401  
Time of Day: 11:40 AM, 10/20/2023, 10:01 PM, Plot Style: 007202.ctb  
C:\2014\402071\569\569\SIGN\Production\Plans\27108\_Erosion\_Control.dwg



MATCHLINE STA. 643+00

MATCHLINE STA. 658+00

MATCHLINE STA. 658+00

MATCHLINE STA. 664+00

SECTION 33  
T-15-N, R-18-E





SECTION 28  
T-15-N, R-18-E

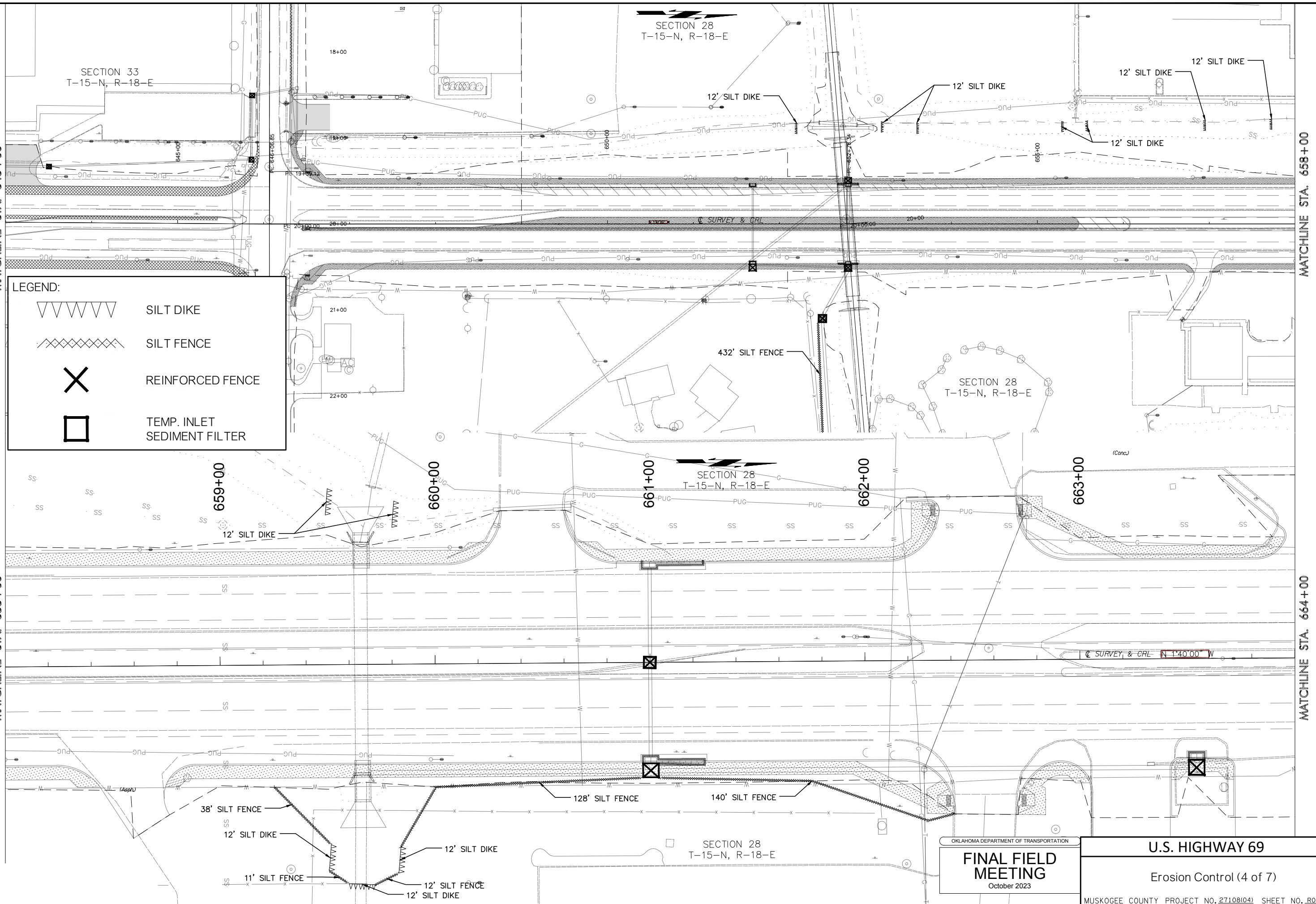
SECTION 28  
T-15-N, R-18-E

SECTION 28  
T-15-N, R-18-E

SECTION 28  
T-15-N, R-18-E

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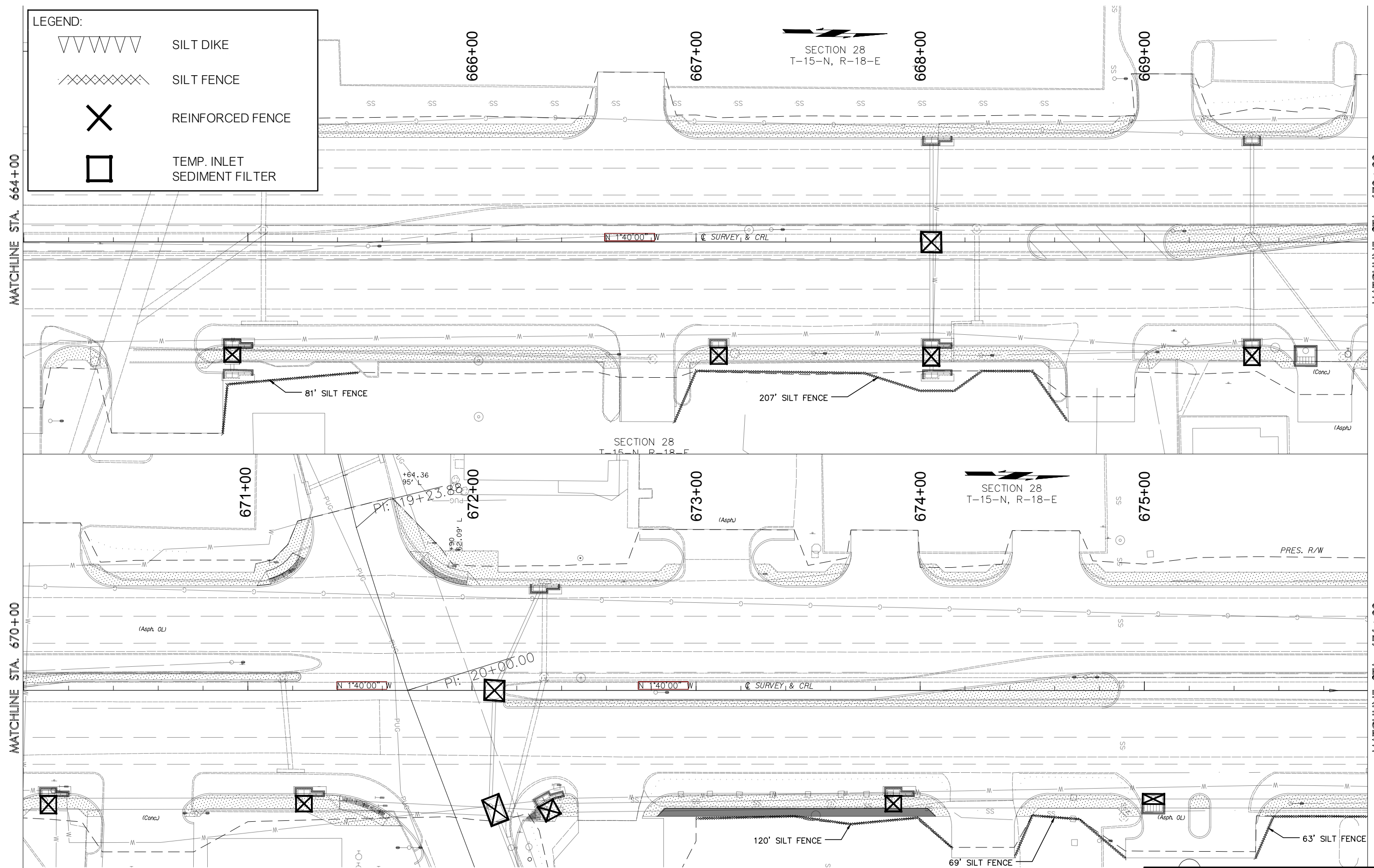
-  SILT DIKE
-  SILT FENCE
-  REINFORCED FENCE
-  TEMP. INLET SEDIMENT FILTER



<p>OKLAHOMA DEPARTMENT OF TRANSPORTATION</p> <p><b>FINAL FIELD MEETING</b></p> <p>October 2023</p>	<p><b>U.S. HIGHWAY 69</b></p>
	<p>Erosion Control (4 of 7)</p>

MUSKOGEE COUNTY PROJECT NO. 27108(04) SHEET NO. R015

LEGEND:	
	SILT DIKE
	SILT FENCE
	REINFORCED FENCE
	TEMP. INLET SEDIMENT FILTER



MATCHLINE STA. 664+00

MATCHLINE STA. 670+00

MATCHLINE STA. 670+00

MATCHLINE STA. 676+00





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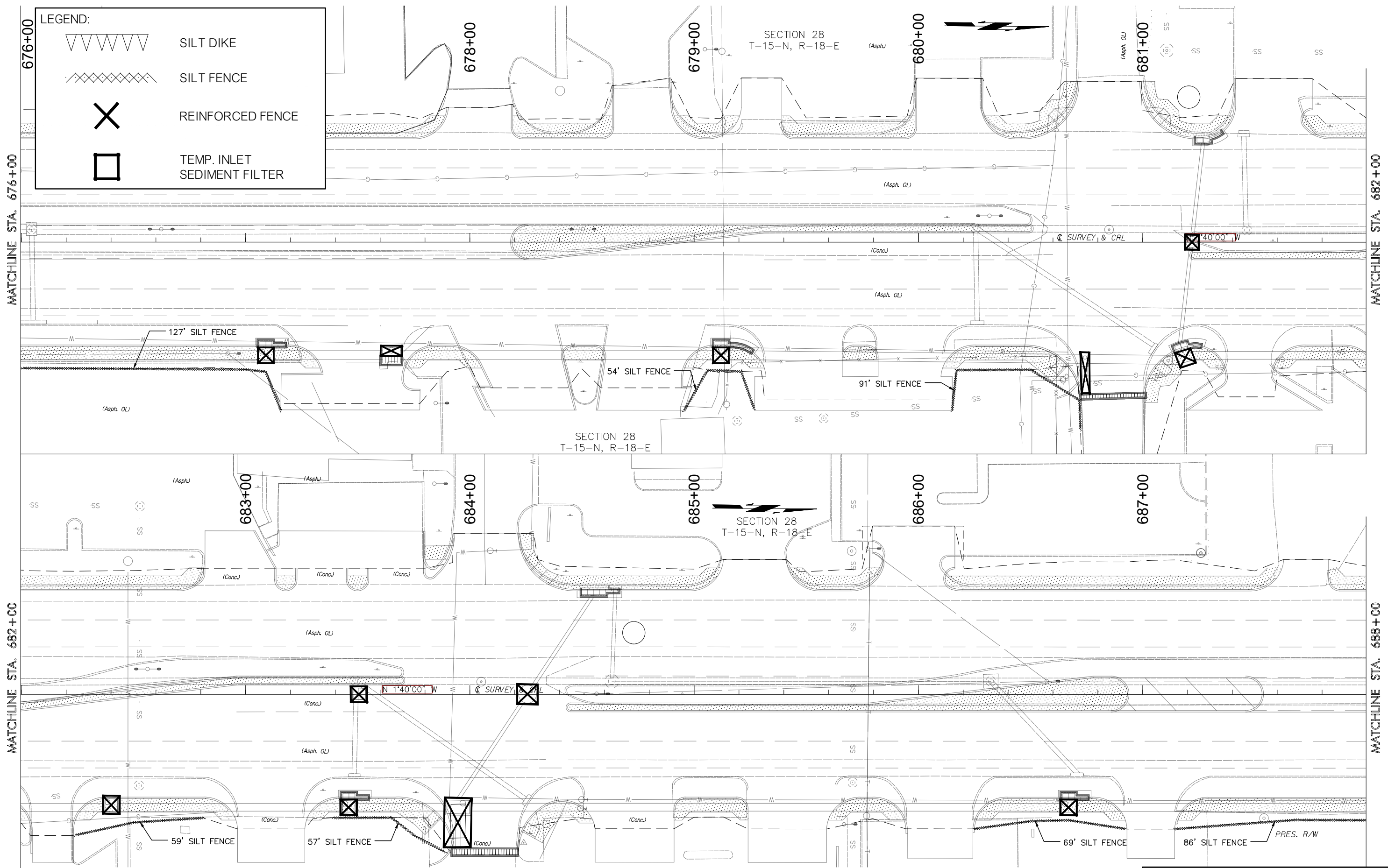
OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
 October 2023

**U.S. HIGHWAY 69**  
 Erosion Control (5 of 7)

148 E 1st St, Suite 404  
 Tulsa, OK 74103  
 (918) 581-1111  
 www.mcd.com

**LEGEND:**

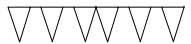



-  SILT DIKE
-  SILT FENCE
-  REINFORCED FENCE
-  TEMP. INLET SEDIMENT FILTER



OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
 October 2023

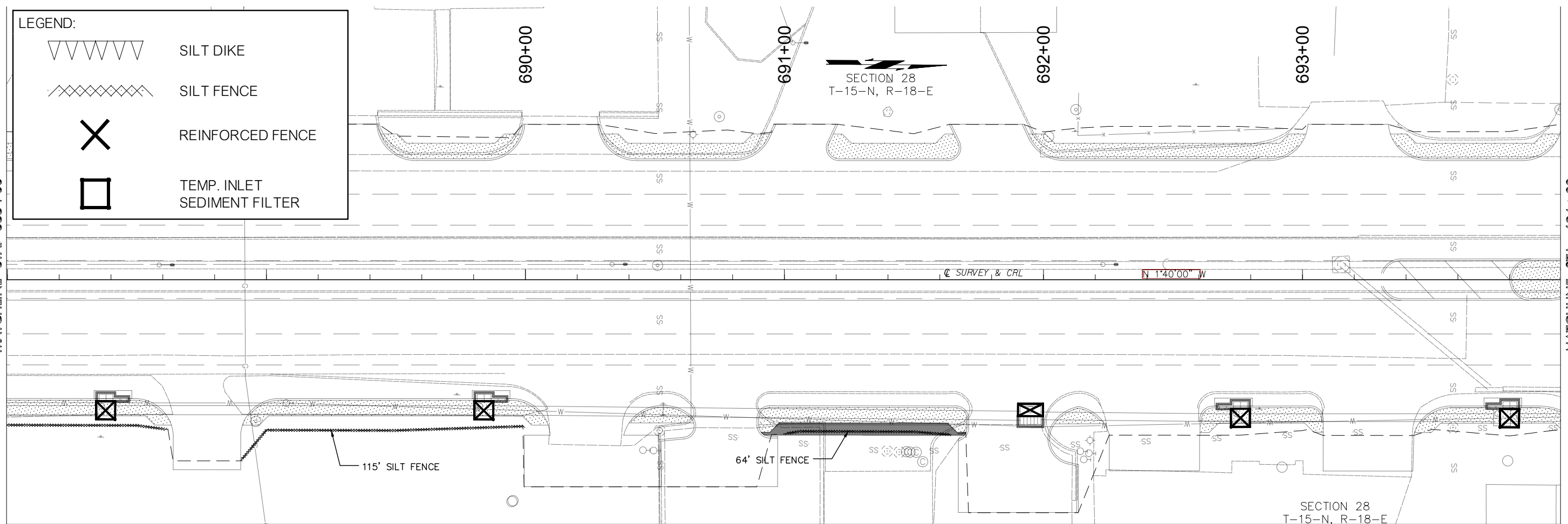
**U.S. HIGHWAY 69**  
 Erosion Control (6 of 7)

LEGEND:

-  SILT DIKE
-  SILT FENCE
-  REINFORCED FENCE
-  TEMP. INLET SEDIMENT FILTER

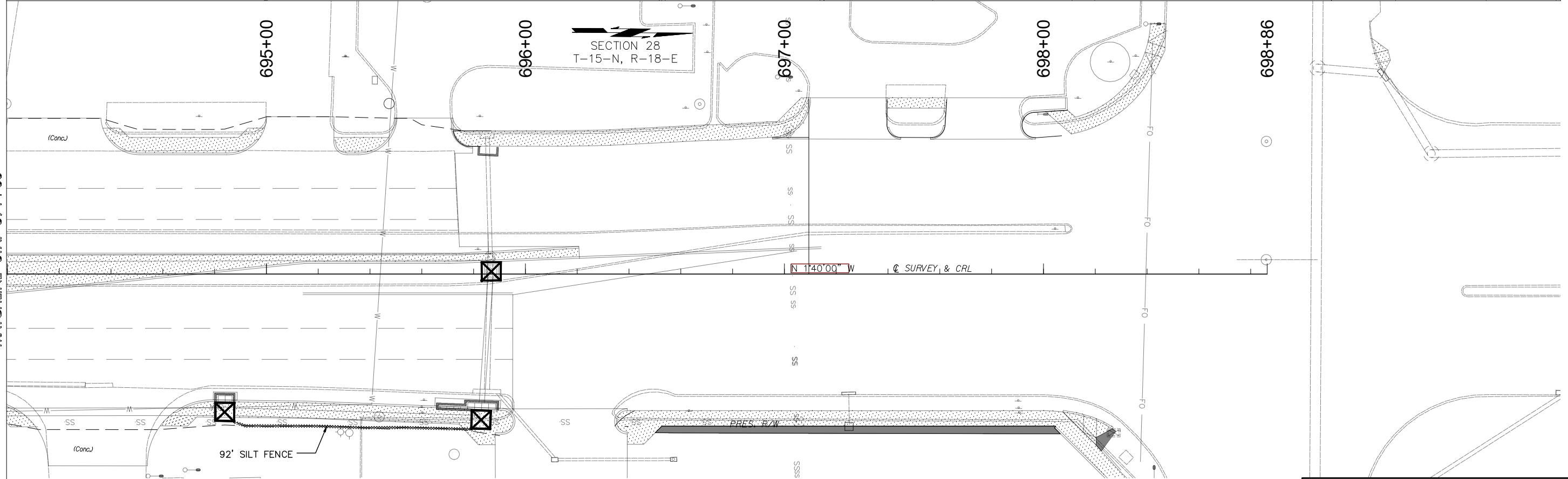
MATCHLINE STA. 688+00

MATCHLINE STA. 694+00



MATCHLINE STA. 694+00

MATCHLINE STA. 698+00



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







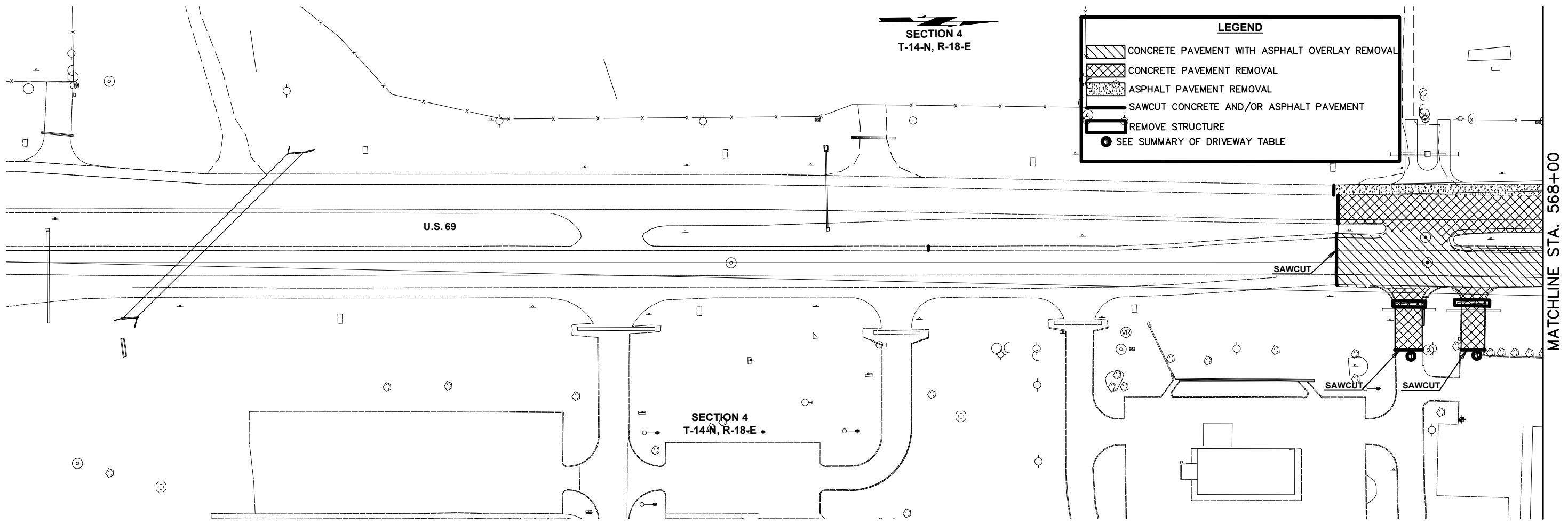
OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
 October 2023

**U.S. HIGHWAY 69**  
 Erosion Control (7 of 7)  
 MUSKOGEE COUNTY PROJECT NO. 27108(04) SHEET NO. R018

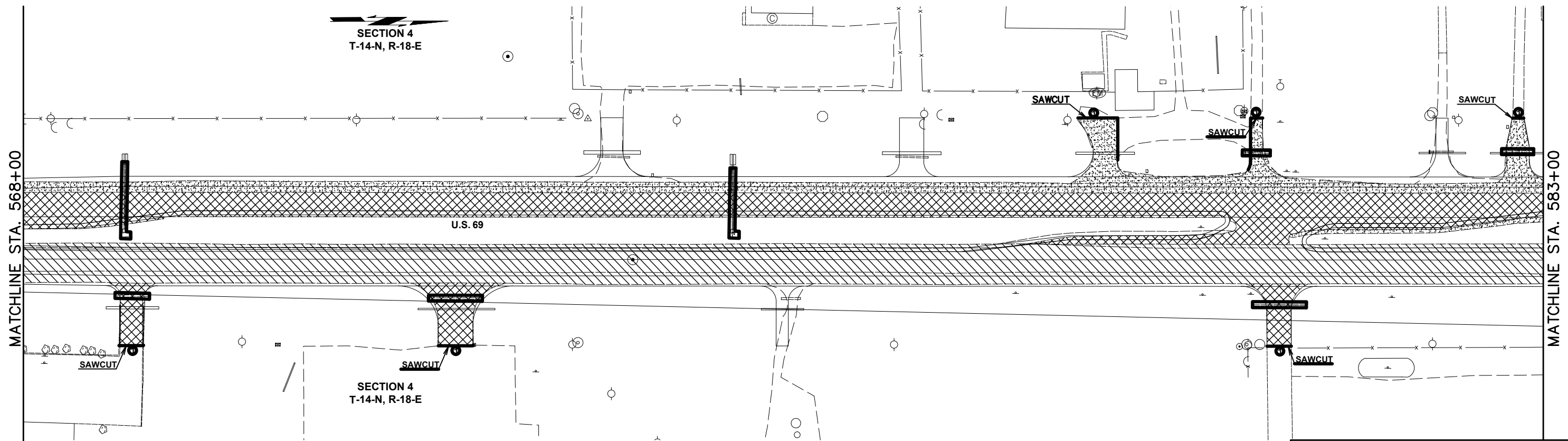
SECTION 4  
T-14-N, R-18-E

**LEGEND**

-  CONCRETE PAVEMENT WITH ASPHALT OVERLAY REMOVAL
-  CONCRETE PAVEMENT REMOVAL
-  ASPHALT PAVEMENT REMOVAL
-  SAWCUT CONCRETE AND/OR ASPHALT PAVEMENT
-  REMOVE STRUCTURE
-  SEE SUMMARY OF DRIVEWAY TABLE



SECTION 4  
T-14-N, R-18-E



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1000 N. W. 107th St., Suite 100, Oklahoma City, Oklahoma 73167  
www.hubeng.com

OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
October 2023

**U.S. HIGHWAY 69**  
**REMOVAL DETAILS**  
**STA. 566+00 - STA. 583+00**

SECTION 4  
T-14-N, R-18-E







SECTION 33  
T-15-N, R-18-E

MATCHLINE STA. 583+00

MATCHLINE STA. 598+00

U.S. 69

**LEGEND**

-  CONCRETE PAVEMENT WITH ASPHALT OVERLAY REMOVAL
-  CONCRETE PAVEMENT REMOVAL
-  ASPHALT PAVEMENT REMOVAL
-  SAWCUT CONCRETE AND/OR ASPHALT PAVEMENT
-  REMOVE STRUCTURE
-  SEE SUMMARY OF DRIVEWAY TABLE

SECTION 4  
T-14-N, R-18-E

SECTION 33  
T-15-N, R-18-E

HANGCOK RD.

MATCHLINE STA. 598+00

MATCHLINE STA. 613+00

SECTION 33  
T-15-N, R-18-E

U.S. 69

HUB E n g i n e e r s P L L C  
 1000 N. W. 10th St., Suite 100  
 Oklahoma City, OK 73102  
 (405) 948-1100  
 www.hubengineers.com

OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
 October 2023







**U.S. HIGHWAY 69**  
**REMOVAL DETAILS**  
**STA. 583+00 - STA. 613+00**

MUSKOGEE COUNTY PROJECT NO. 27108(04) SHEET NO. R020



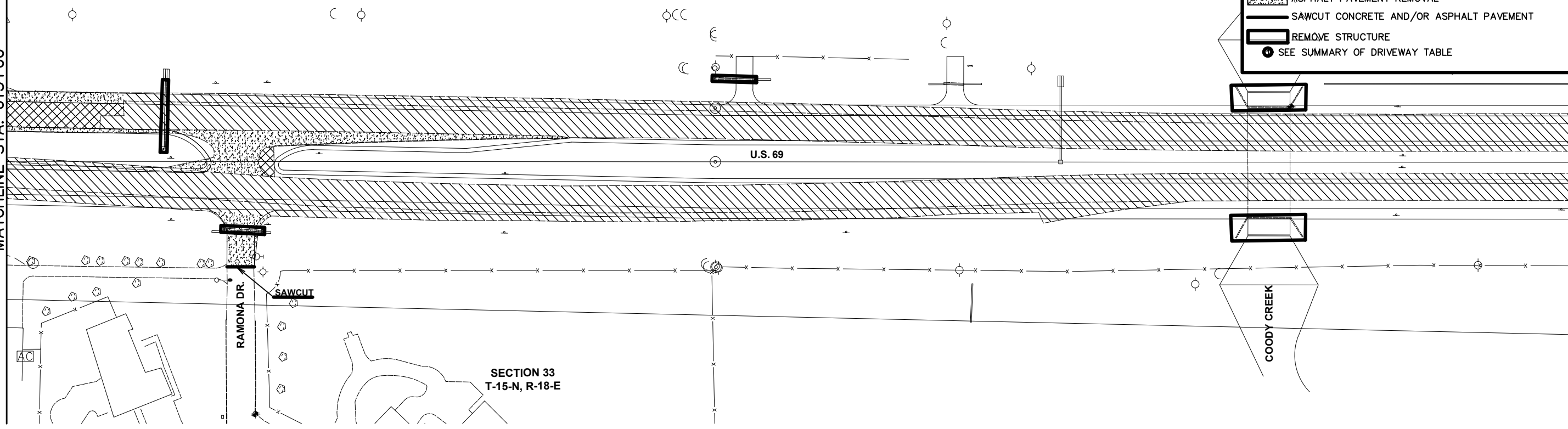
SECTION 33  
T-15-N, R-18-E

**LEGEND**

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-  CONCRETE PAVEMENT REMOVAL
-  ASPHALT PAVEMENT REMOVAL
-  SAWCUT CONCRETE AND/OR ASPHALT PAVEMENT
-  REMOVE STRUCTURE
-  SEE SUMMARY OF DRIVEWAY TABLE

MATCHLINE STA. 613+00

MATCHLINE STA. 628+00

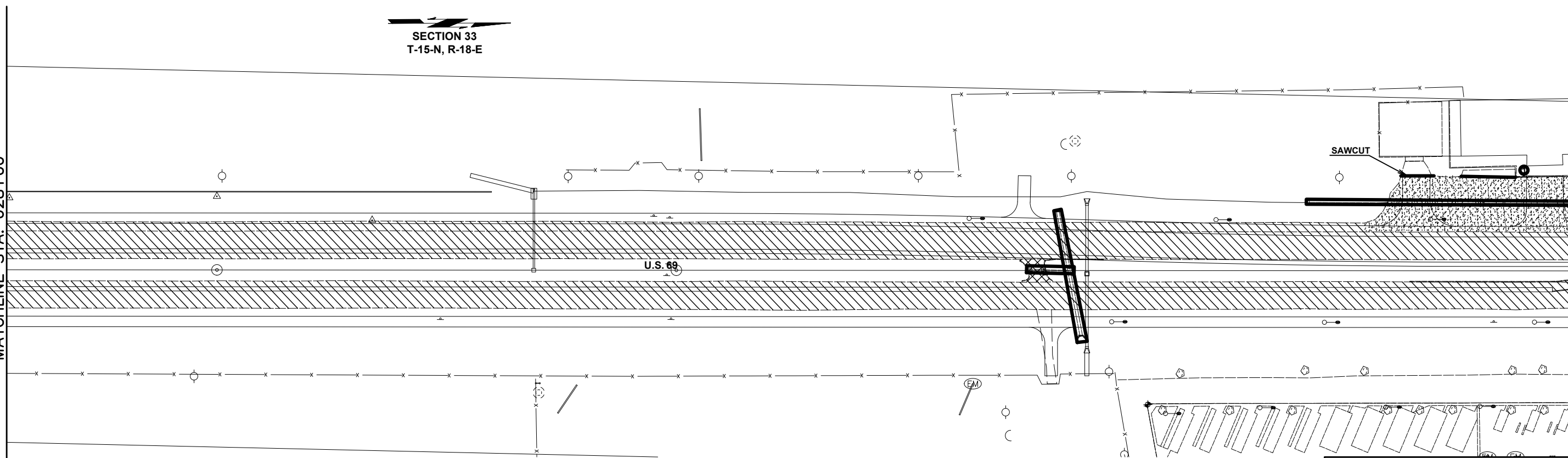


SECTION 33  
T-15-N, R-18-E

SECTION 33  
T-15-N, R-18-E

MATCHLINE STA. 628+00

MATCHLINE STA. 643+00



OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
October 2023

**U.S. HIGHWAY 69**  
**REMOVAL DETAILS**  
**STA. 613+00 - STA. 643+00**







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 1000 N. W. 10th St., Suite 100  
 Oklahoma City, Oklahoma 73102  
 Phone: 405.973.1111  
 Fax: 405.973.1112  
 www.hubengineers.com

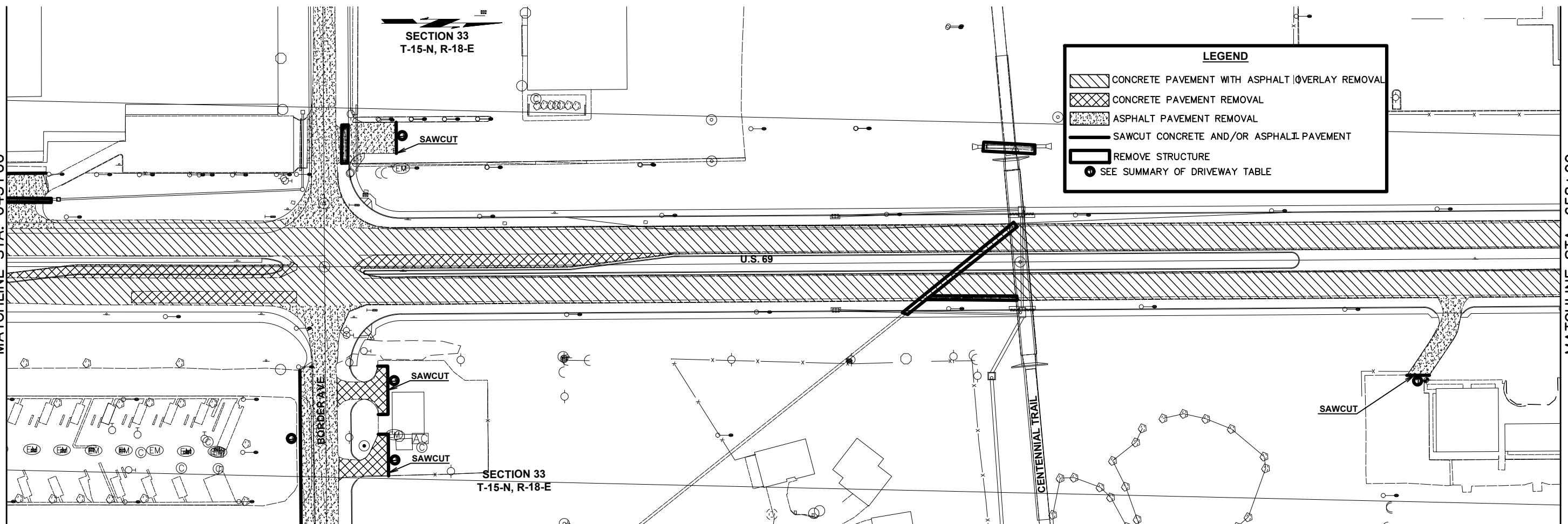
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MATCHLINE STA. 658+00

SECTION 33  
T-15-N, R-18-E

**LEGEND**

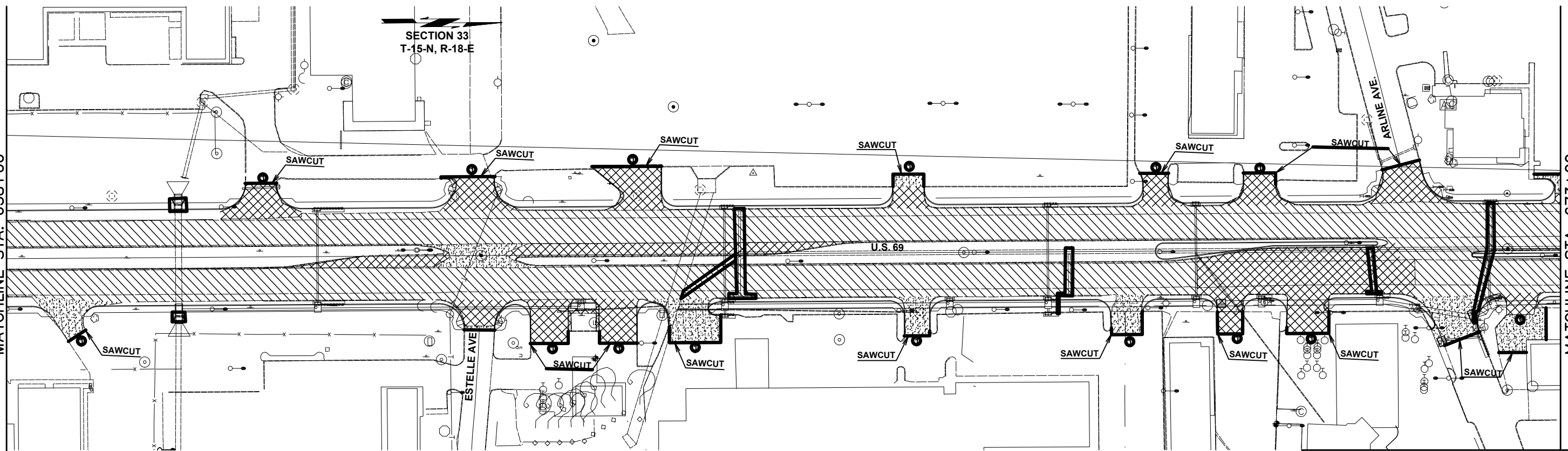
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-  CONCRETE PAVEMENT REMOVAL
-  ASPHALT PAVEMENT REMOVAL
-  SAWCUT CONCRETE AND/OR ASPHALT PAVEMENT
-  REMOVE STRUCTURE
-  SEE SUMMARY OF DRIVEWAY TABLE



MATCHLINE STA. 658+00

MATCHLINE STA. 673+00

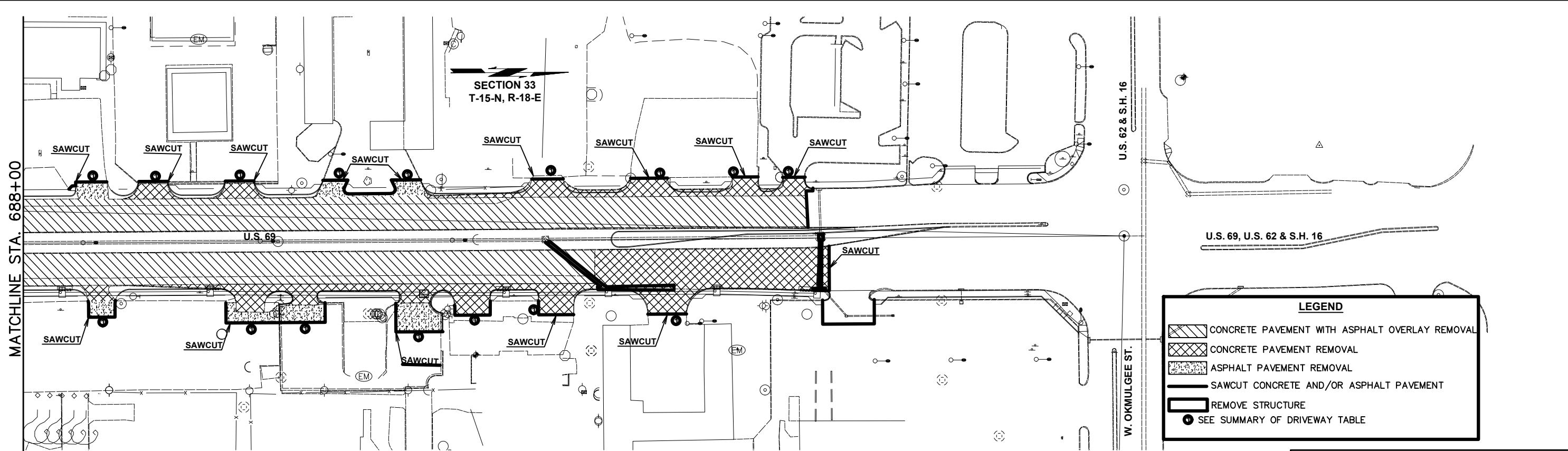
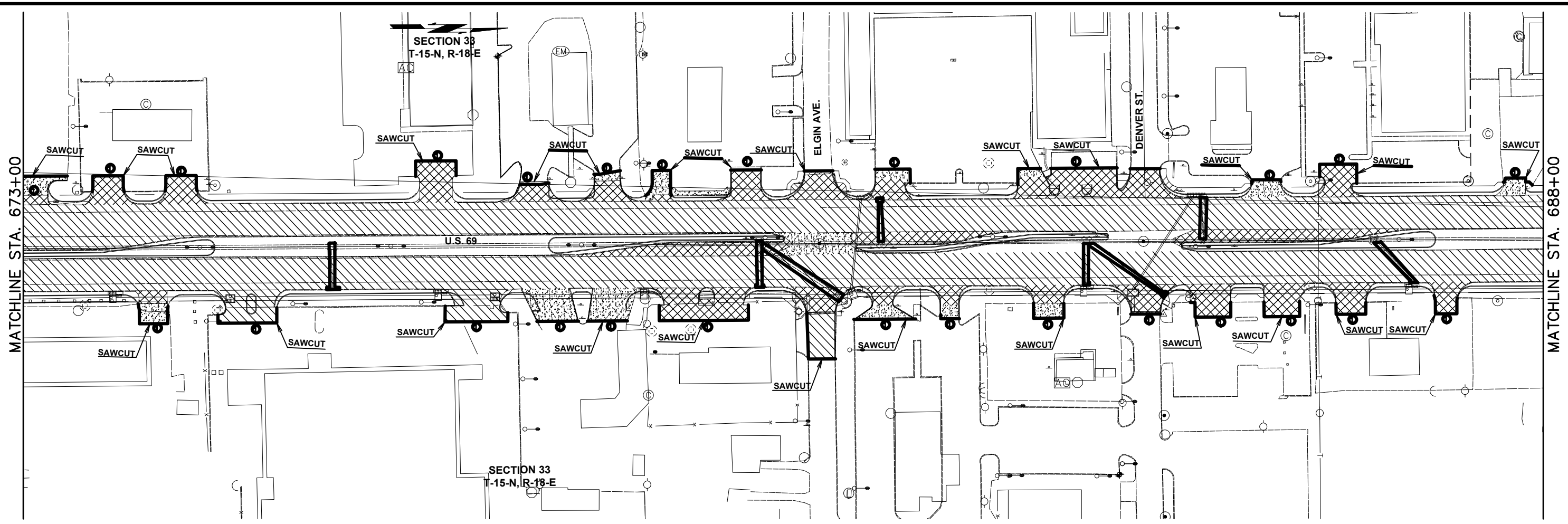
SECTION 33  
T-15-N, R-18-E



OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
 October 2023

**U.S. HIGHWAY 69**  
**REMOVAL DETAILS**  
**STA. 643+00 - STA. 673+00**

HUB E. n. g. i. n. e. e. r. s. p. l. c.  
 1000 N. W. 10th St., Suite 100  
 Oklahoma City, OK 73102  
 www.hubengr.com



**LEGEND**

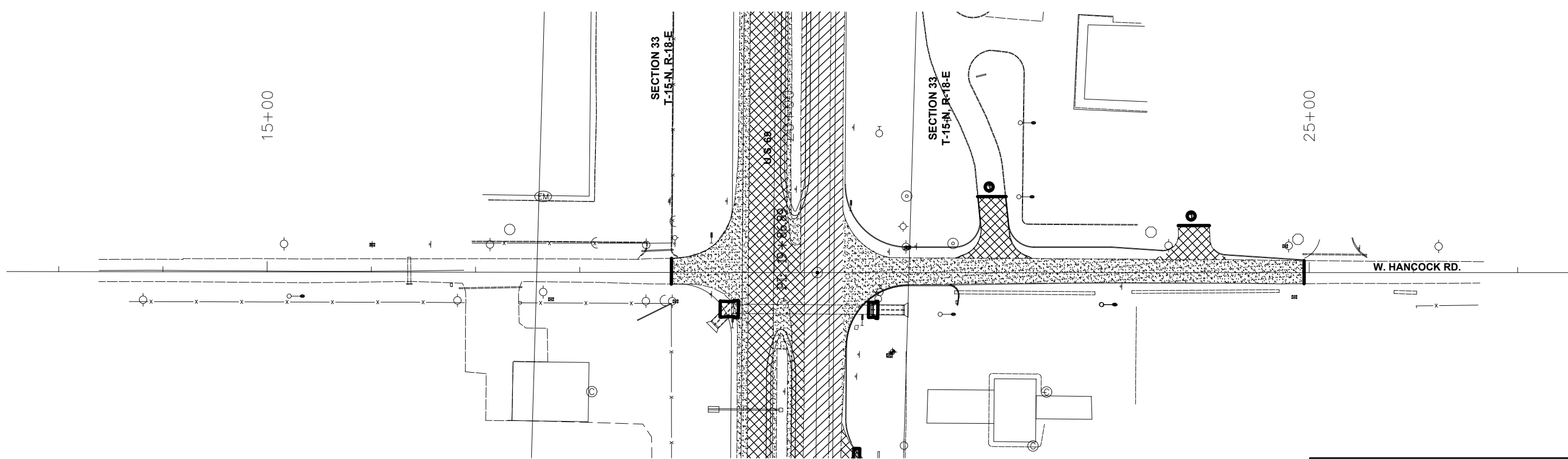
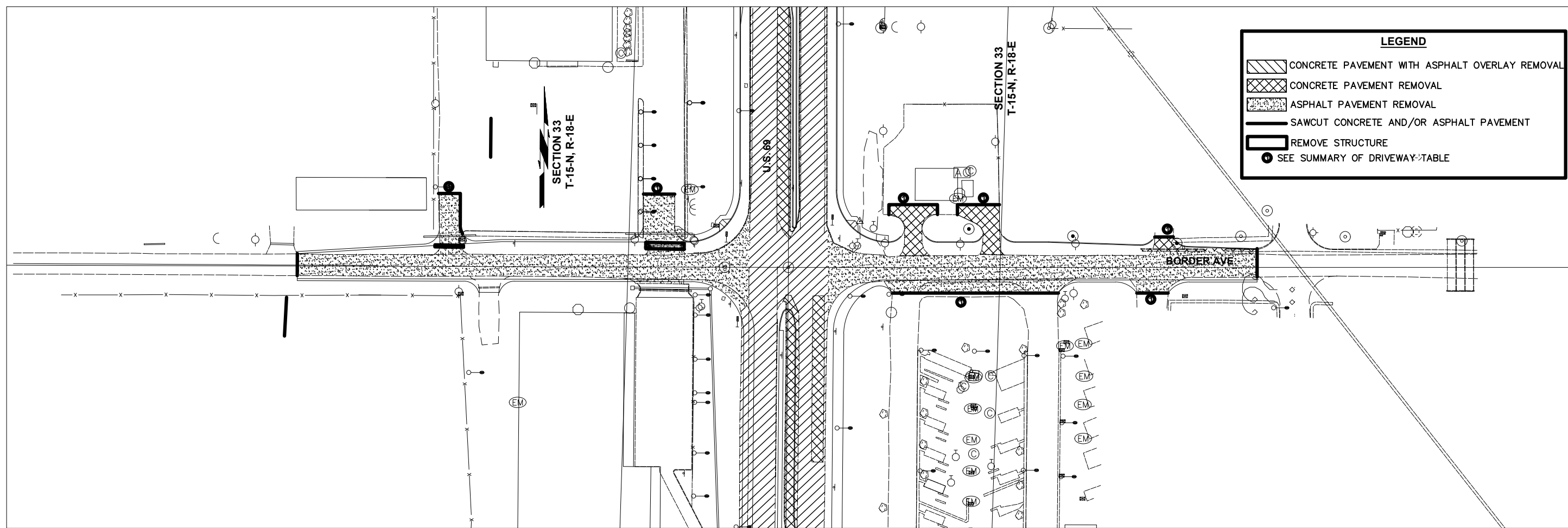
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	ASPHALT PAVEMENT REMOVAL
	SAWCUT CONCRETE AND/OR ASPHALT PAVEMENT
	REMOVE STRUCTURE
	SEE SUMMARY OF DRIVEWAY TABLE

OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
 October 2023

**U.S. HIGHWAY 69  
 REMOVAL DETAILS  
 STA. 673+00 - STA. 696+20**

HUB E n g i n e e r s P L L C  
 1000 N. W. 10th St., Suite 100  
 Oklahoma City, Oklahoma 73107  
 (405) 525-1100  
 www.hubengineers.com

LEGEND	
	CONCRETE PAVEMENT WITH ASPHALT OVERLAY REMOVAL
	CONCRETE PAVEMENT REMOVAL
	ASPHALT PAVEMENT REMOVAL
	SAWCUT CONCRETE AND/OR ASPHALT PAVEMENT
	REMOVE STRUCTURE
	SEE SUMMARY OF DRIVEWAY TABLE



HUB E n g i n e e r s P L L C  
 1000 N. W. 10th St., Suite 100  
 Oklahoma City, Oklahoma 73102  
 Phone: (405) 241-1111  
 Fax: (405) 241-1112  
 www.hubengineers.com

OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
 October 2023

**U.S. HIGHWAY 69**  
**REMOVAL DETAILS**  
**HANCOCK RD., BORDER AVE.**

MUSKOGEE COUNTY PROJECT NO. 27108(04) SHEET NO. R024

1408 E. P. I. P. O. Box 407 PM Pitt Site - HIGHWAY 69  
1700 E. P. O. Box 1120, 2023 407 PM Pitt Site - HIGHWAY 69  
OKLAHOMA DEPARTMENT OF TRANSPORTATION PROJECT PRODUCTION PLAN FOR GEOMETRIC LAYOUT.dwg



MATCHLINE STA. 553+00

555+00

N01° 16' 12.80"W  
2614.496

560+00

P.I. A003  
U.S. 69 C CRL  
Station=566+87.32  
Northing=271944.2933  
Easting=2739418.8599

PI: 566+87.32

P.I. A001  
U.S. 69 C SURVEY  
Station=566+87.33  
Northing=271944.9140  
Easting=2739446.8530

BM4 CHIS BOX AT OLD ANTIQUE  
N = 271981.6380  
E = 2739599.3220  
ELEV 595.08

CP 1/2" IP W/ 2" ALUM CAP  
7401  
N = 272611.3800  
E = 2739293.5500  
ELEV 596.76

MATCHLINE STA. 568+00

570+00

N01° 15' 12.73"W  
2644.562

575+00

N01° 15' 12.75"W  
2644.568

580+00

MATCHLINE STA. 568+00

MATCHLINE STA. 583+00

OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
\$\$\$\$DATE\$\$\$

**U.S. HIGHWAY 69**  
GEOMETRIC LAYOUT (1 OF 7)  
MUSKOGEE COUNTY PROJECT NO. 27108(04) SHEET NO. R025

1410 E P I P O P S 407 PM Plot Style -HIGHWAY69.DWG  
1/10/2023 11:20:23 AM  
C:\WORK\2023\DESIGN\Production\Plan\27108\GEOMETRIC\_LAYOUT.dwg

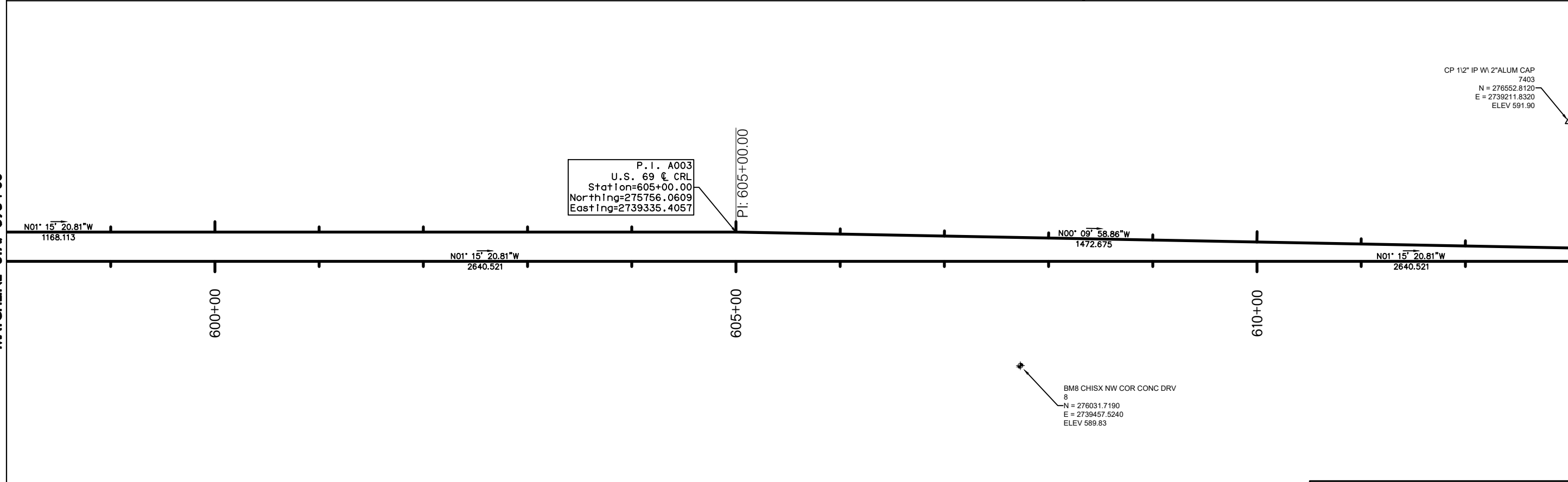
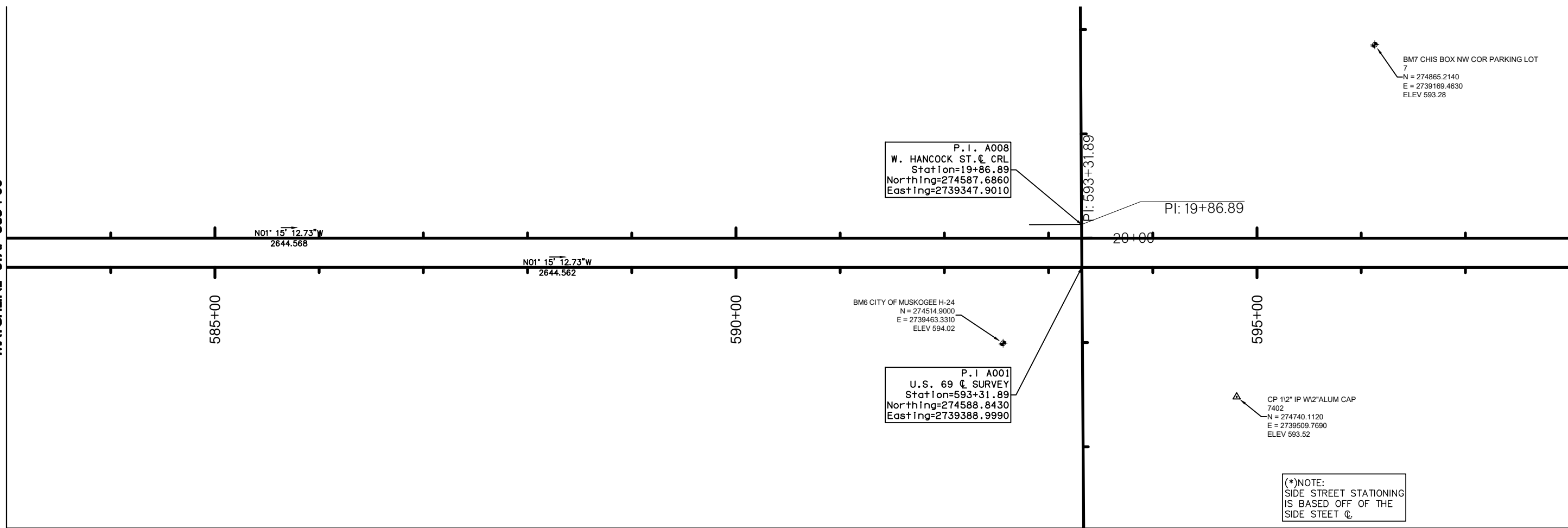


MATCHLINE STA. 583+00

MATCHLINE STA. 598+00

MATCHLINE STA. 598+00

MATCHLINE STA. 613+00



P. I. A008  
W. HANCOCK ST. CRL  
Station=19+86.89  
Northing=274587.6860  
Easting=2739347.9010

P. I. A001  
U.S. 69 C SURVEY  
Station=593+31.89  
Northing=274588.8430  
Easting=2739388.9990

P. I. A003  
U.S. 69 C CRL  
Station=605+00.00  
Northing=275756.0609  
Easting=2739335.4057

BM7 CHIS BOX NW COR PARKING LOT  
7  
N = 274865.2140  
E = 2739169.4630  
ELEV 593.28

BM6 CITY OF MUSKOGEE H-24  
N = 274514.9000  
E = 2739463.3310  
ELEV 594.02

CP 1/2" IP W/2"ALUM CAP  
7402  
N = 274740.1120  
E = 2739509.7690  
ELEV 593.52

(\*)NOTE:  
SIDE STREET STATIONING  
IS BASED OFF OF THE  
SIDE STEET C.

CP 1/2" IP W/2"ALUM CAP  
7403  
N = 276552.8120  
E = 2739211.8320  
ELEV 591.90

BM8 CHISX NW COR CONC DRV  
8  
N = 276031.7190  
E = 2739457.5240  
ELEV 589.83

OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
\$\$\$\$DATE\$\$\$

**U.S. HIGHWAY 69**  
GEOMETRIC LAYOUT (2 OF 7)  
MUSKOGEE COUNTY PROJECT NO. 27108(04) SHEET NO. R026

MATCHLINE STA. 613+00

MATCHLINE STA. 628+00

P.O.E. A003  
U.S. 69 CRL  
Station=619+72.68  
Northing=277228.7300  
Easting=2739331.1300

P.I. A001  
U.S. 69 C SURVEY  
Station=619+72.41  
Northing=277228.7300  
Easting=2739331.1300

PI: 619+72.41

N01° 14' 57.57"W  
2634.443

BM10 CHIS X ON NW COR BOX  
10  
N = 277773.6630  
E = 2739266.6860  
ELEV 576.06

615+00

620+00

625+00

MATCHLINE STA. 628+00

MATCHLINE STA. 643+00

N01° 14' 57.57"W  
2634.443

BM11 CHIS BOX ON SIDE WALK  
11  
N = 279141.4630  
E = 2739416.5550  
ELEV 573.76

630+00

635+00

640+00

1408 E P 1 1 2 0 2 2 4 407 PM Proj S.W. - HIGHWAY 69  
1700 E P 1 1 2 0 2 2 4 407 PM Proj S.W. - HIGHWAY 69  
G:\2021\2021\09\DESIGN\Production\Plan\27108\GEOMETRIC\_LAYOUT.dwg



OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
\$\$\$\$DATE\$\$\$

U.S. HIGHWAY 69

GEOMETRIC LAYOUT (3 OF 7)

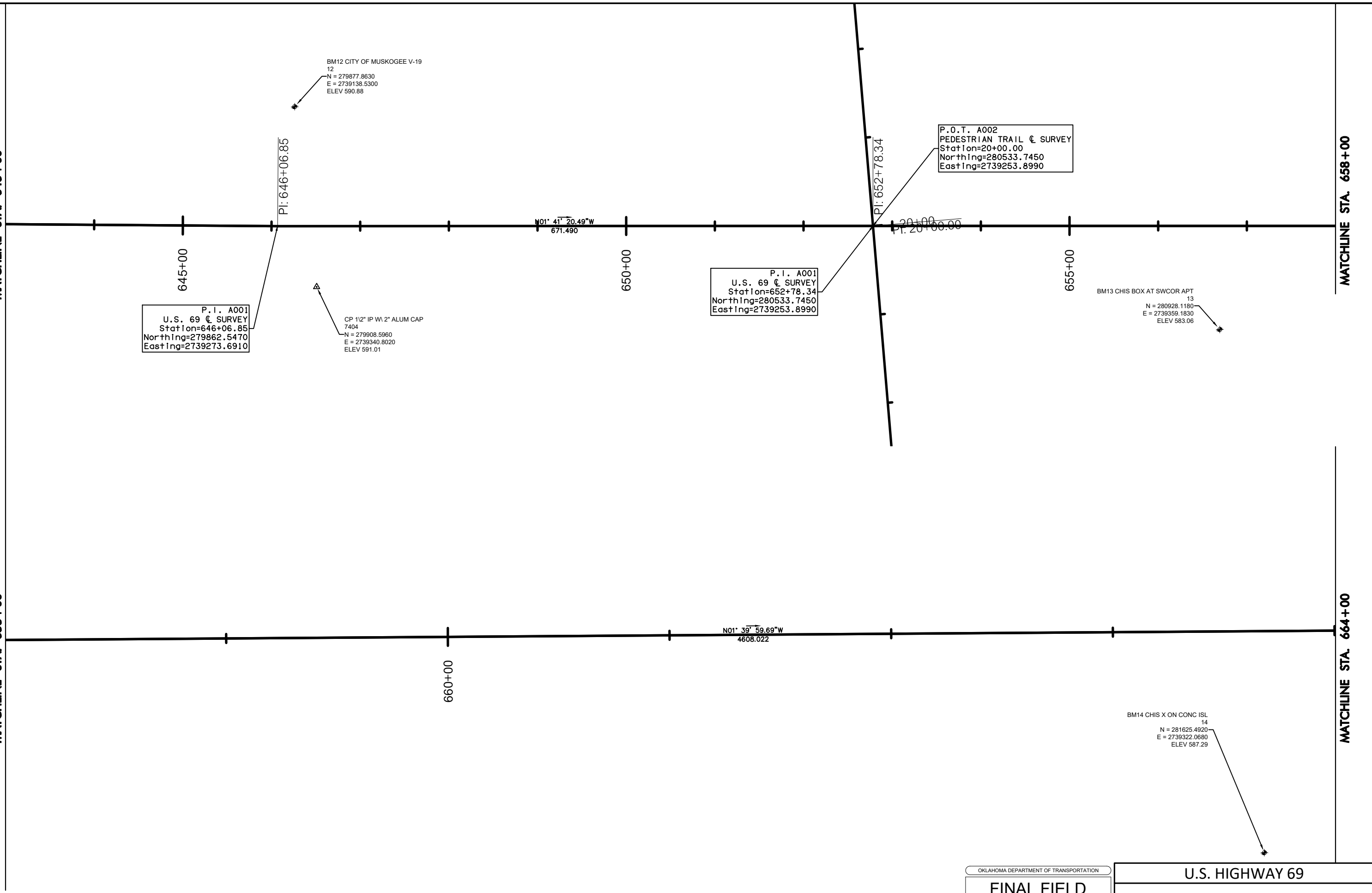


MATCHLINE STA. 643+00

MATCHLINE STA. 658+00

MATCHLINE STA. 658+00

MATCHLINE STA. 664+00



OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
\$\$\$\$DATE\$\$\$

**U.S. HIGHWAY 69**  
GEOMETRIC LAYOUT (4 OF 7)  
MUSKOGEE COUNTY PROJECT NO. 27108(04) SHEET NO. R028



△  
CP 1/2" IP W/ 2" ALUM CAP  
7405  
N = 281773.6680  
E = 2739140.0130  
ELEV 586.92

MATCHLINE STA. 664+00

MATCHLINE STA. 670+00

N01° 39' 59.69"W  
4608.022

665+00

MATCHLINE STA. 670+00

MATCHLINE STA. 676+00

P.I. A006  
ARLINE ST. C SURVEY  
Station=19+23.88  
Northing=282400.8839  
EastIng=2739126.9438

PI: 19+23.88

P.I. A006  
ARLINE ST. C SURVEY  
Station=20+00.00  
Northing=282425.8871  
EastIng=2739198.8391

20+00

3.838°  
76.119°  
23.22°  
81.04°

PI: 20+00.00

P.I. A001  
U.S. 69 C SURVEY  
Station=671+71.29  
Northing=282425.8899  
EastIng=2739198.8461

N01° 39' 59.69"W  
4608.022

675+00



1408 E 10th St, Suite 407, Muskogee, OK 74403  
7700 N. W. 10th St, Suite 100, Muskogee, OK 74403  
G:\2014\201402\11569\DESIGN\Production\Plan\27108\_Geometric\_Layout.dwg



MATCHLINE STA. 676+00

MATCHLINE STA. 682+00

MATCHLINE STA. 682+00

MATCHLINE STA. 688+00

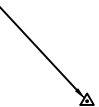
N01° 39' 59.69"W  
4608.022

N01° 39' 59.69"W  
4608.022

680+00

685+00

CP 112" IP W/ 2" ALUM CAP  
7406  
N = 283680.5360  
E = 2739234.2030  
ELEV 604.85



OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
\$\$\$\$DATE\$\$\$

**U.S. HIGHWAY 69**  
GEOMETRIC LAYOUT (6 OF 7)  
MUSKOGEE COUNTY PROJECT NO. 27108(04) SHEET NO. R030

1408 E 10th St, Suite 407, Muskogee, OK 74403  
Tel: 918.682.1122 Fax: 918.682.1123  
www.mtd.com



MATCHLINE STA. 688+00

MATCHLINE STA. 694+00

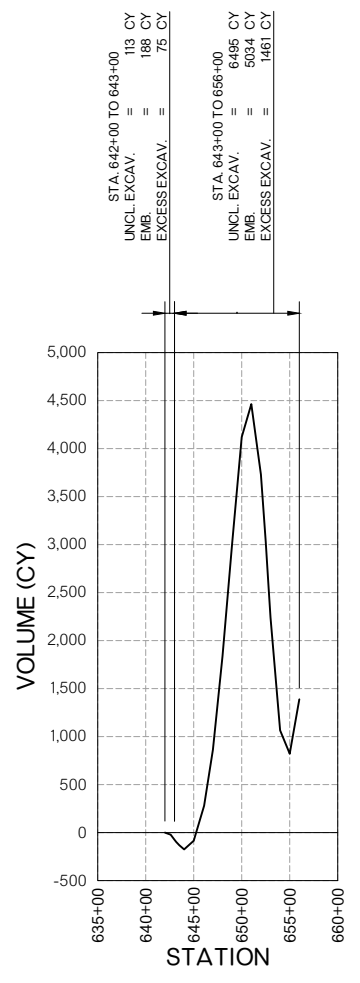
MATCHLINE STA. 694+00



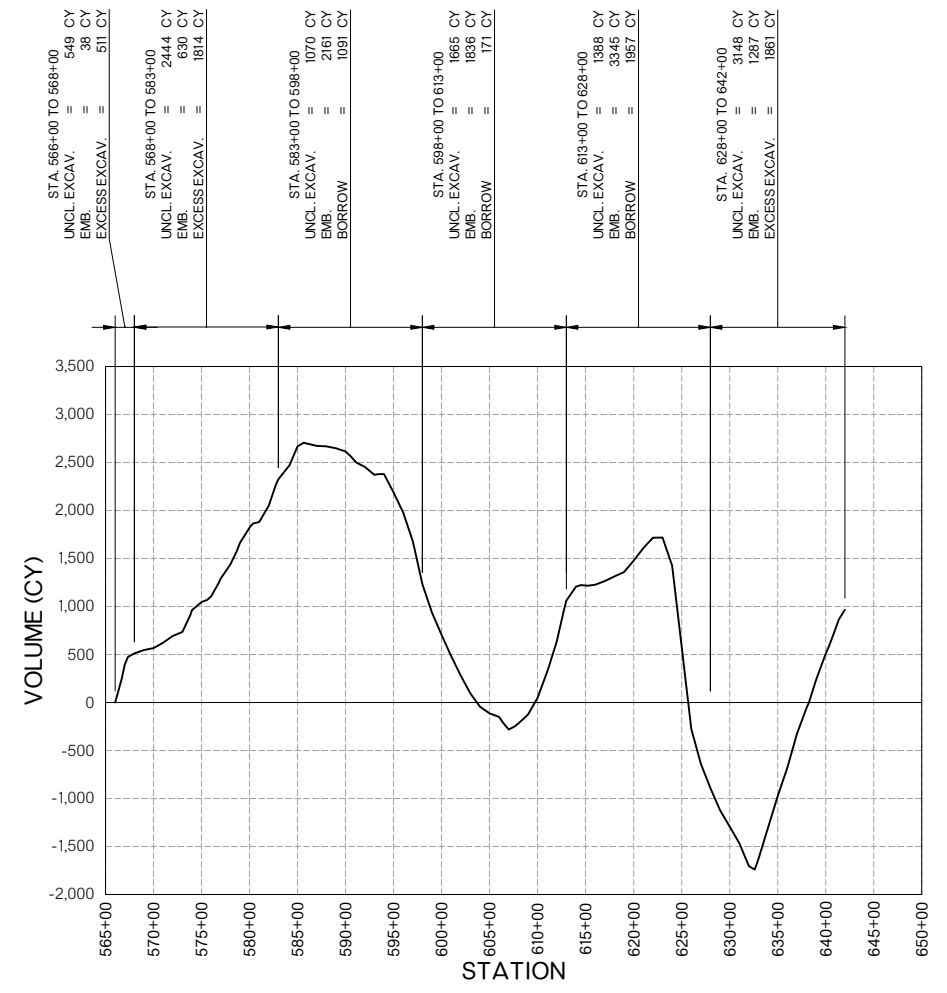
P.O.E. A001  
U.S. 69 CL SURVEY  
Station=698+86.36  
Northing=285139.8180  
Easting=2739119.8830

OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
\$\$\$\$DATE\$\$\$

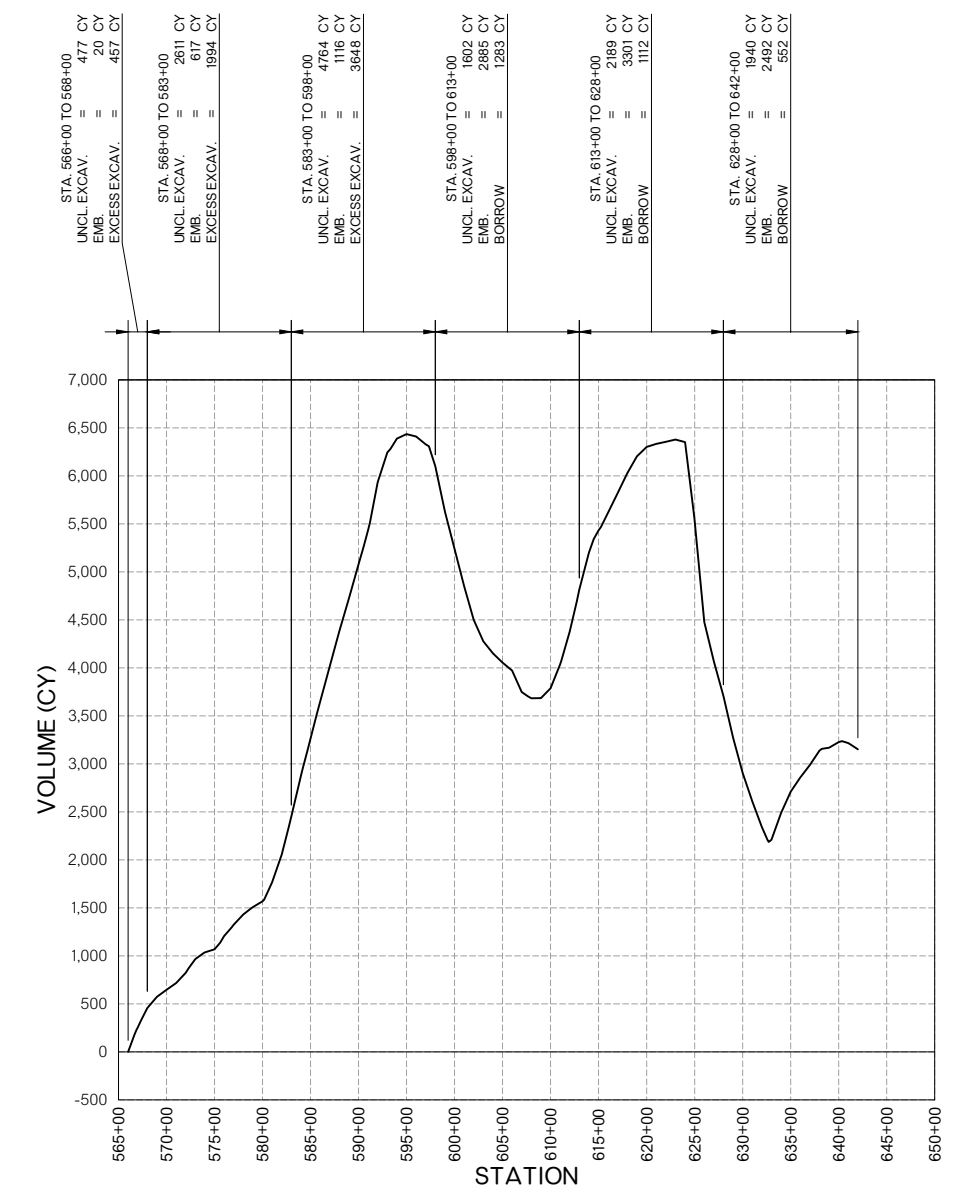
**U.S. HIGHWAY 69**  
GEOMETRIC LAYOUT (7 OF 7)  
MUSKOGEE COUNTY PROJECT NO. 27108(04) SHEET NO. R031



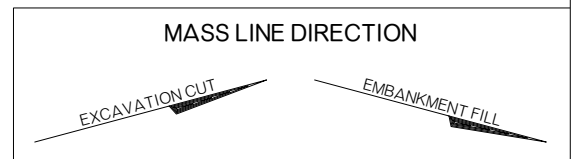
**PHASE - 1**



**PHASE - 2**



**PHASE - 3**



THE CONTRACTOR SHALL NOT WASTE ANY EXCESS EXCAVATION UNTIL ALL PLANNED EMBANKMENTS ARE COMPLETED. IF CONTRACTOR OPERATIONS REQUIRE HIM TO STOCKPILE THE EXCESS EXCAVATION, THE COST OF THE SECOND HAULING SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

MASS HAUL DIAGRAM PROVIDES FOR BIDDING PURPOSES ONLY. ACTUAL BALANCE POINTS TO BE DETERMINED BY CHARACTER OF MATERIAL ENCOUNTERED DURING CONSTRUCTION. WHENEVER POSSIBLE, THE CONTRACTOR SHALL SEQUENCE EARTHWORK OPERATIONS IN ORDER TO OBTAIN THE MATERIAL FROM THE CUT SECTION FOR USE AS FILL RATHER THAN OBTAINING UNCLASSIFIED BORROW. MATERIAL DEPICTED AS WASTE SHALL ONLY BE CONSIDERED WASTE ONCE ALL EARTHWORK OPERATIONS HAVE BEEN COMPLETED. THIS MATERIAL SHALL BE USED TO REDUCE THE NEED FOR UNCLASSIFIED BORROW AT ANY LOCATION AND TIME THROUGH THE DURATION OF THE PROJECT.

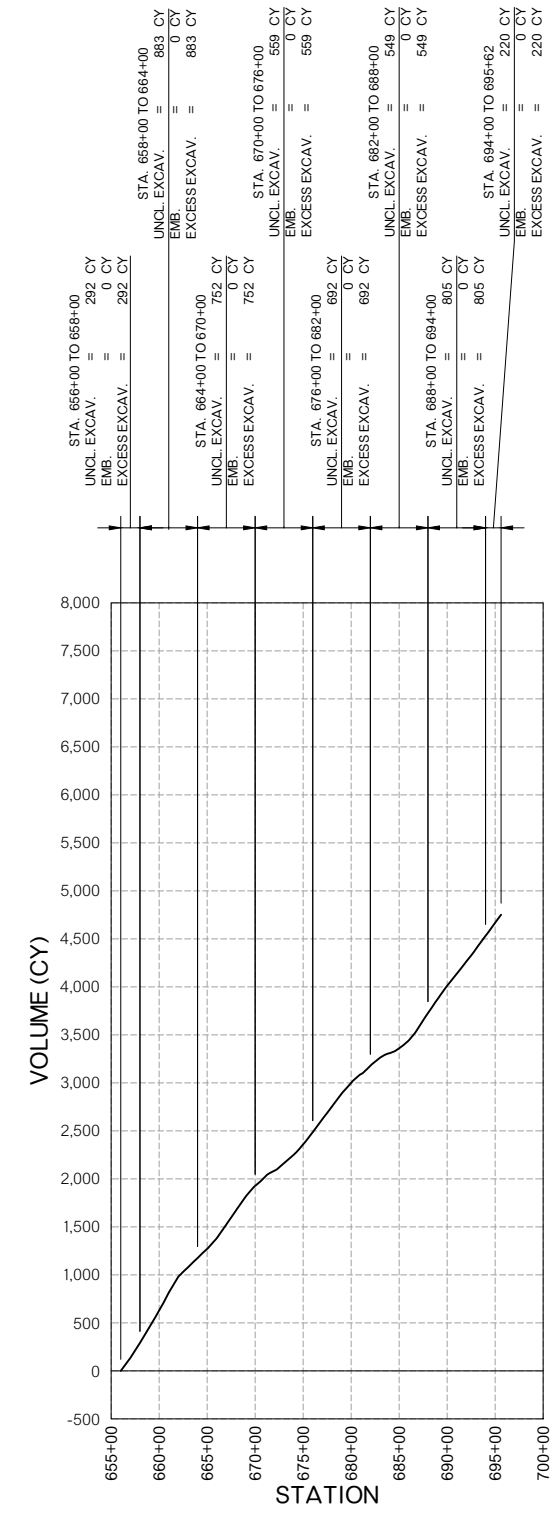
DESIGN	WS	12/19
DRAWN	AJ	12/19
CHECKED	WS	12/19
APPROVED		
SQUAD		ENGINEERS

OKLAHOMA DEPARTMENT OF TRANSPORTATION  
 ROADWAY DESIGN DIVISION

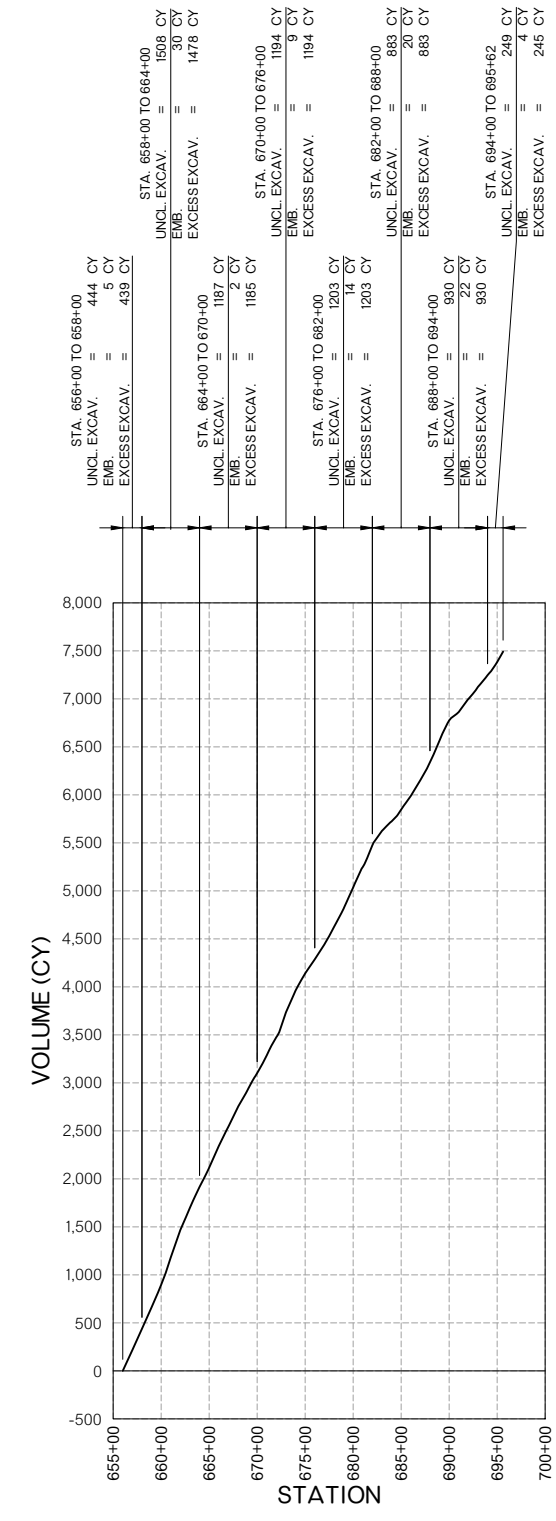
**MASS HAUL (1 OF 2)**

HUB, E. P. G. I. N. E. E. S.  
 Time of Plot: 11/21/2023 4:07 PM Plot Style: -HUB-HALF.CTB  
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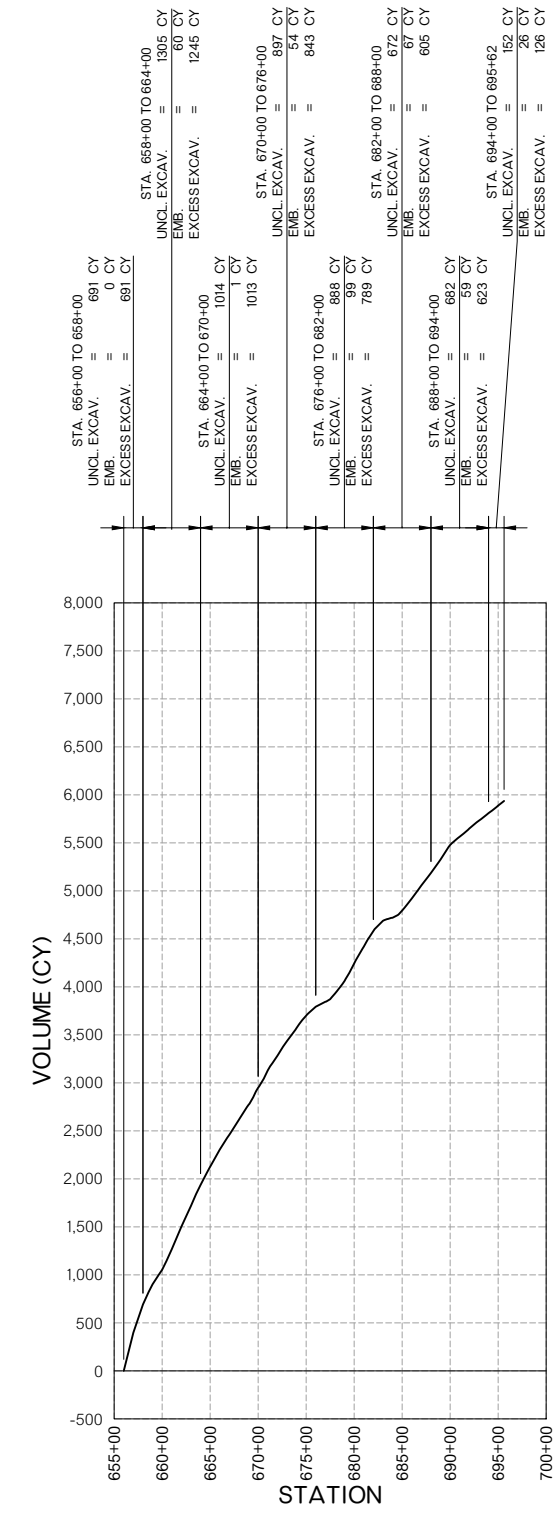
HUB, E. n. g. i. n. e. e. r. s.  
 Time of Plot: 11/21/2023 4:07 PM Plot Size: -HUB-HALF.CTB  
 C:\2014\14000\1569\DESIGN\Production Plans\27108\_MASS DIAGRAM.dwg



**PHASE - 5**



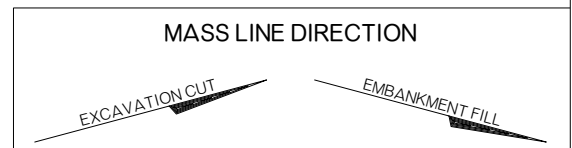
**PHASE - 6**



**PHASE - 7**

THE CONTRACTOR SHALL NOT WASTE ANY EXCESS EXCAVATION UNTIL ALL PLANNED EMBANKMENTS ARE COMPLETED. IF CONTRACTOR OPERATIONS REQUIRE HIM TO STOCKPILE THE EXCESS EXCAVATION, THE COST OF THE SECOND HAULING SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

MASS HAUL DIAGRAM PROVIDES FOR BIDDING PURPOSES ONLY. ACTUAL BALANCE POINTS TO BE DETERMINED BY CHARACTER OF MATERIAL ENCOUNTERED DURING CONSTRUCTION. WHENEVER POSSIBLE, THE CONTRACTOR SHALL SEQUENCE EARTHWORK OPERATIONS IN ORDER TO OBTAIN THE MATERIAL FROM THE CUT SECTION FOR USE AS FILL RATHER THAN OBTAINING UNCLASSIFIED BORROW. MATERIAL DEPICTED AS WASTE SHALL ONLY BE CONSIDERED WASTE ONCE ALL EARTHWORK OPERATIONS HAVE BEEN COMPLETED. THIS MATERIAL SHALL BE USED TO REDUCE THE NEED FOR UNCLASSIFIED BORROW AT ANY LOCATION AND TIME THROUGH THE DURATION OF THE PROJECT.



DESIGN	WS	12/19
DRAWN	AJ	12/19
CHECKED	WS	12/19
APPROVED		
SQUAD		ENGINEERS
COUNTY	MUSKOGEE	HIGHWAY U.S.-69 STATE JOB NO. 27108(04) SHEET NO. R033

OKLAHOMA DEPARTMENT OF TRANSPORTATION  
 ROADWAY DESIGN DIVISION

**MASS HAUL (2 OF 2)**

# FINAL FIELD MEETING

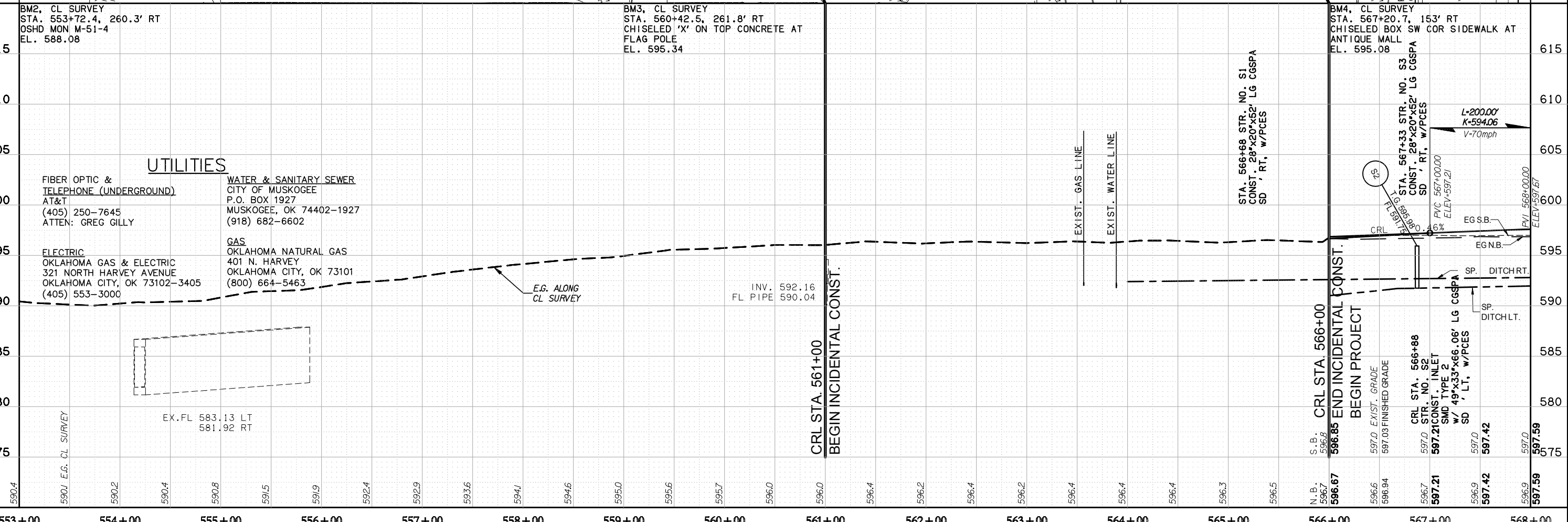
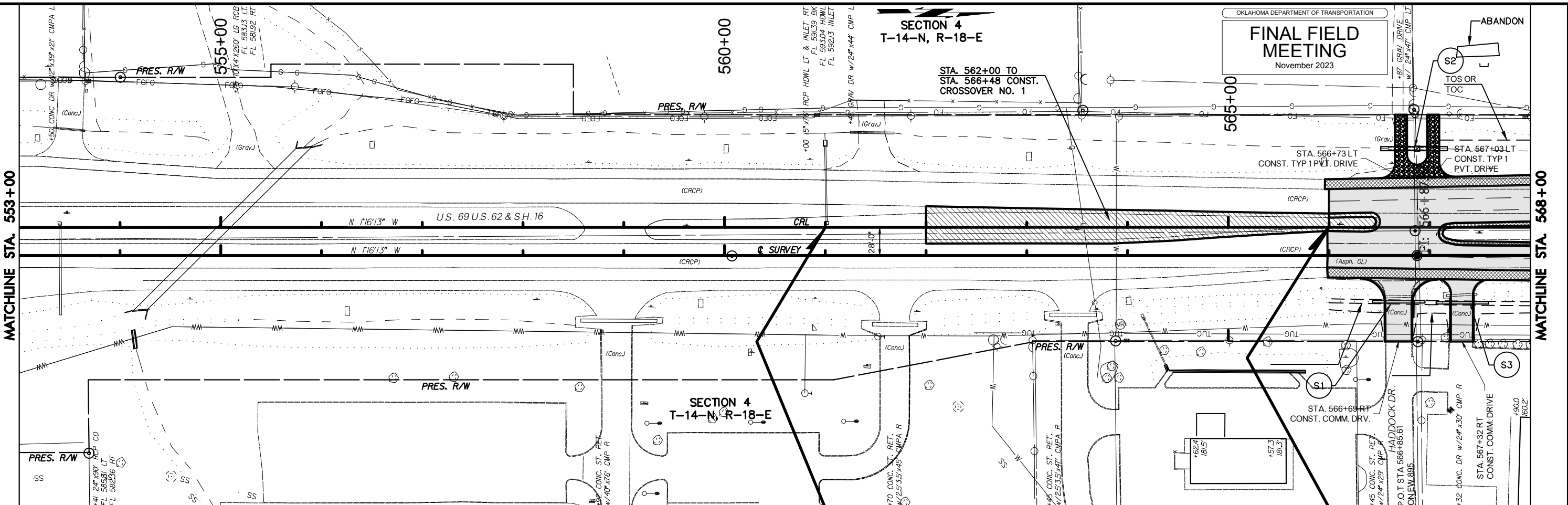
November 2023

## SECTION 4 T-14-N, R-18-E

STA. 562+00 TO  
STA. 566+48 CONST.  
CROSSOVER NO. 1

MATCHLINE STA. 553+00

MATCHLINE STA. 568+00



**UTILITIES**

- FIBER OPTIC & TELEPHONE (UNDERGROUND) AT&T**  
(405) 250-7645  
ATTEN: GREG GILLY
- ELECTRIC**  
OKLAHOMA GAS & ELECTRIC  
321 NORTH HARVEY AVENUE  
OKLAHOMA CITY, OK 73102-3405  
(405) 553-3000
- WATER & SANITARY SEWER**  
CITY OF MUSKOGEE  
P.O. BOX 1927  
MUSKOGEE, OK 74402-1927  
(918) 682-6602
- GAS**  
OKLAHOMA NATURAL GAS  
401 N. HARVEY  
OKLAHOMA CITY, OK 73101  
(800) 664-5463

CRL STA. 561+00  
BEGIN INCIDENTAL CONST.

CRL STA. 566+00  
END INCIDENTAL CONST.  
BEGIN PROJECT

CRL STA. 566+88  
STR. NO. S2  
CONST. INLET  
SMD TYPE 2  
W/ 49"x33"x66.06' LG CGSPA  
SD, LT, w/PCEs

CRL STA. 567+32  
STR. NO. S3  
CONST. COMM. DRIVE  
W/ 28"x20"x52' LG CGSPA  
SD, RT, w/PCEs



MUSKOGEE COUNTY ENGINEER  
DANIEL J. HARRIS, P.E.  
OKLAHOMA REGISTERED PROFESSIONAL ENGINEER  
NO. 51881



SECTION 4  
T-14-N, R-18-E

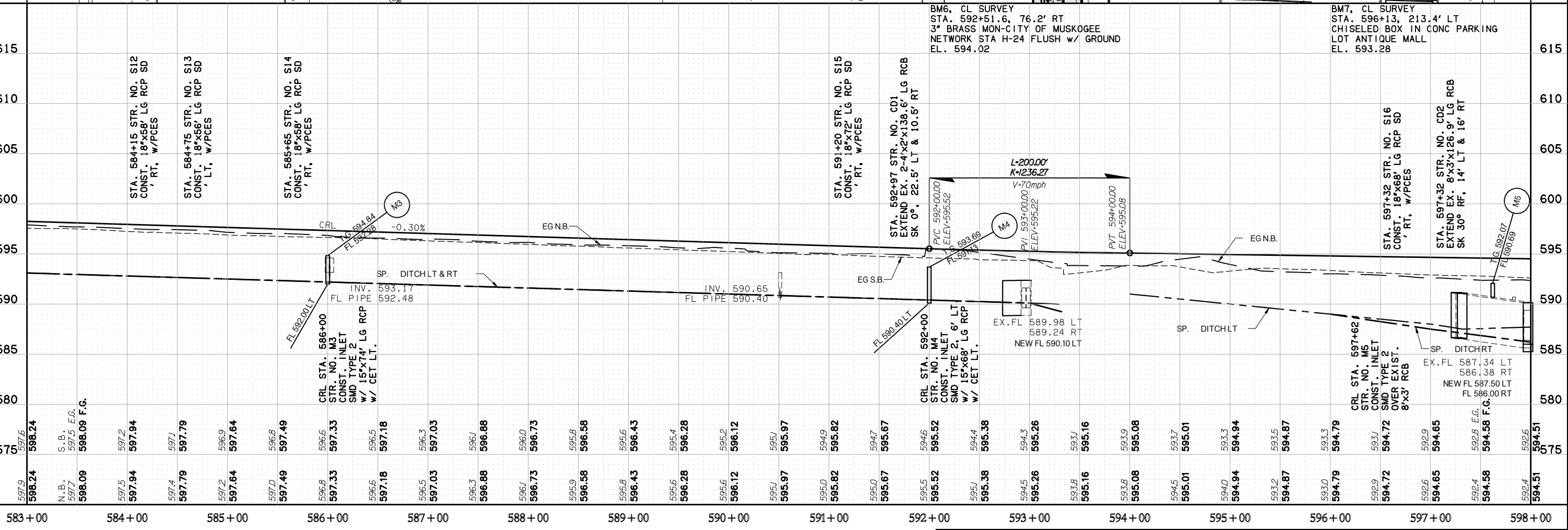
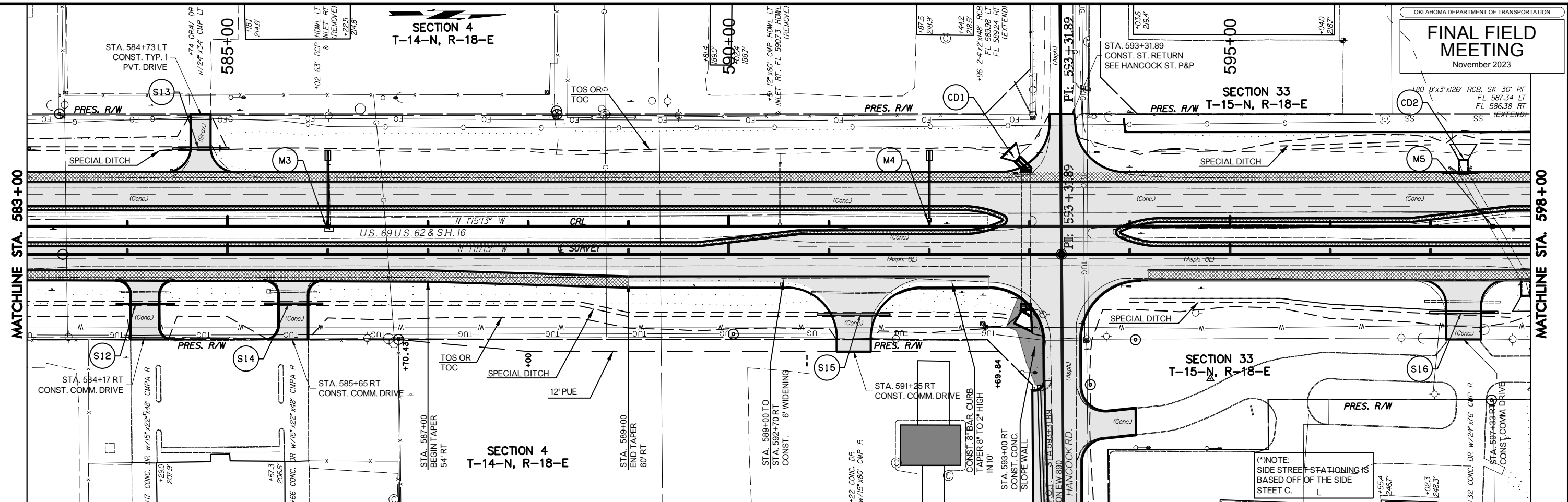
SECTION 33  
T-15-N, R-18-E

SECTION 4  
T-14-N, R-18-E

SECTION 33  
T-15-N, R-18-E

MATCHLINE STA. 583+00

MATCHLINE STA. 598+00



HUB E. P. & S. L. P. S. 1983, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023  
 OKLAHOMA DEPARTMENT OF TRANSPORTATION  
 STATE JOB NO. JP 27108(04) SHEET NO. R036

U.S. HWY. 69



PLAN AND PROFILE

MUSKOGEE COUNTY U.S. HIGHWAY 69  
STATE JOB NO. JP 27108(04) SHEET NO. R036





SECTION 33  
T-15-N, R-18-E

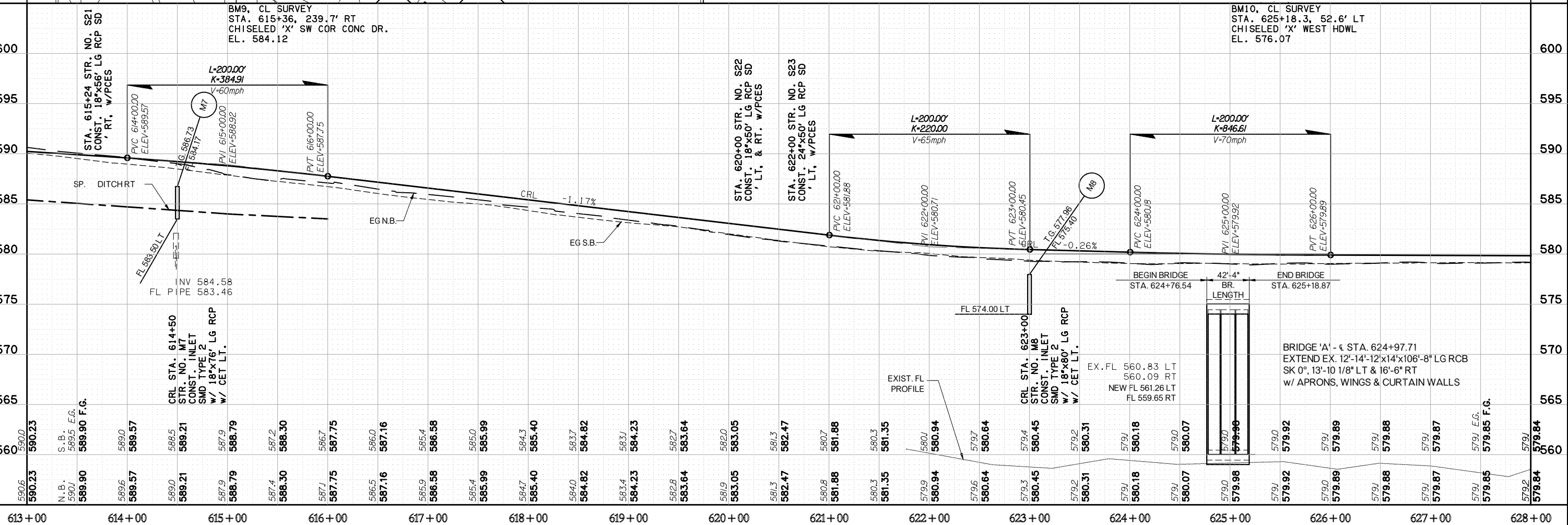
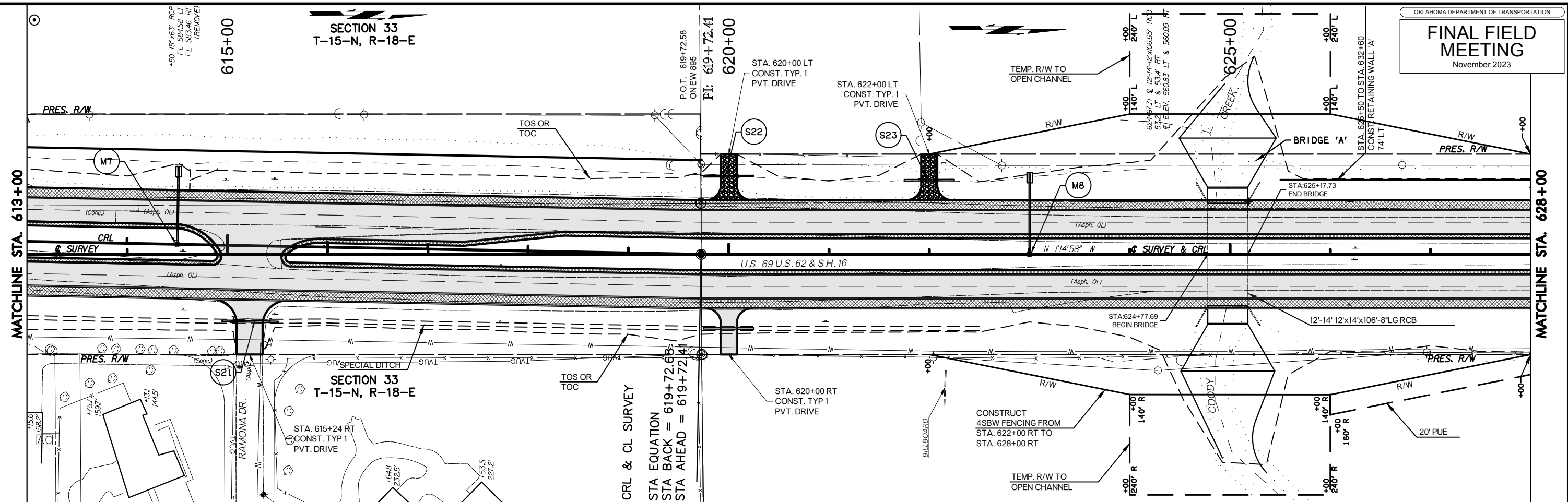
615+00

620+00

625+00

MATCHLINE STA. 613+00

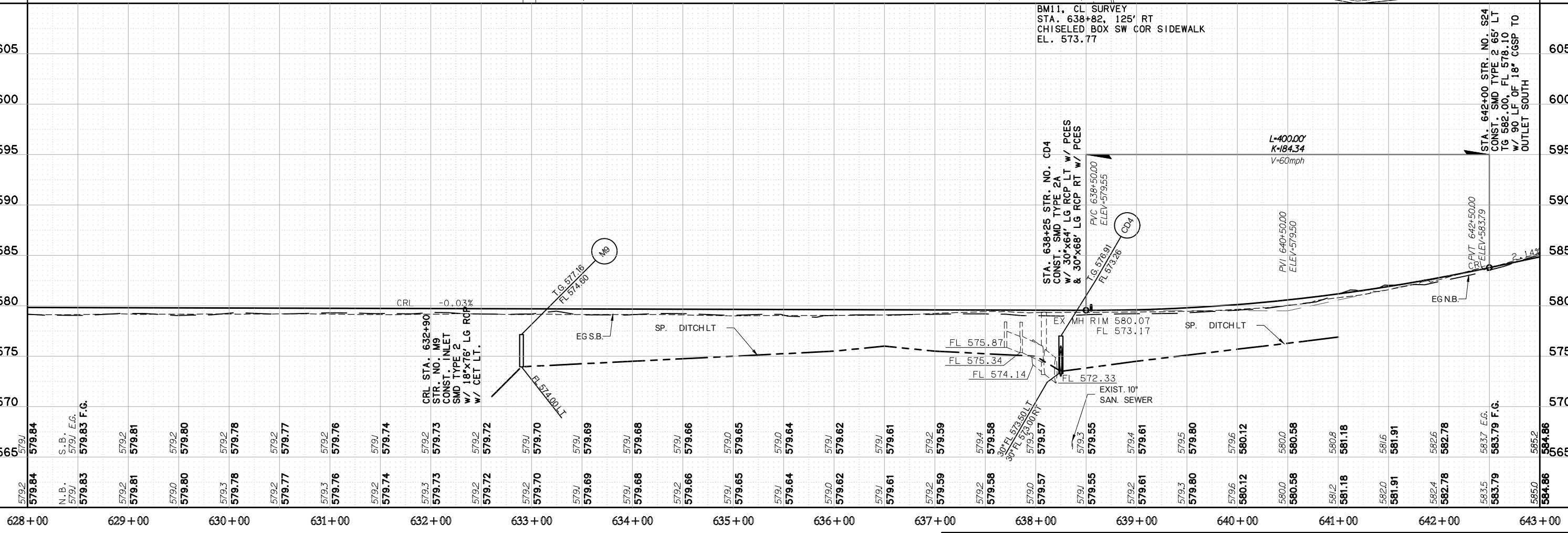
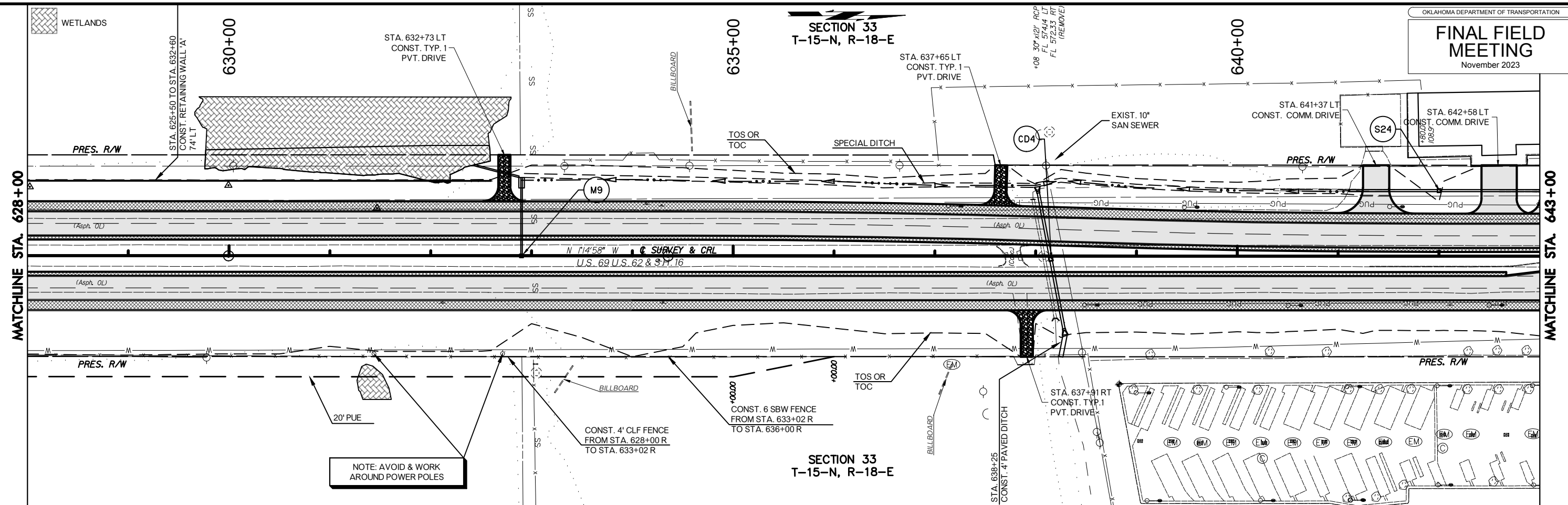
MATCHLINE STA. 628+00



HUB E & P, INC. 1000 N. W. 10th St. Suite 1000, Oklahoma City, OK 73106  
 405.505.1111 www.hubep.com

**SECTION 33**  
**T-15-N, R-18-E**

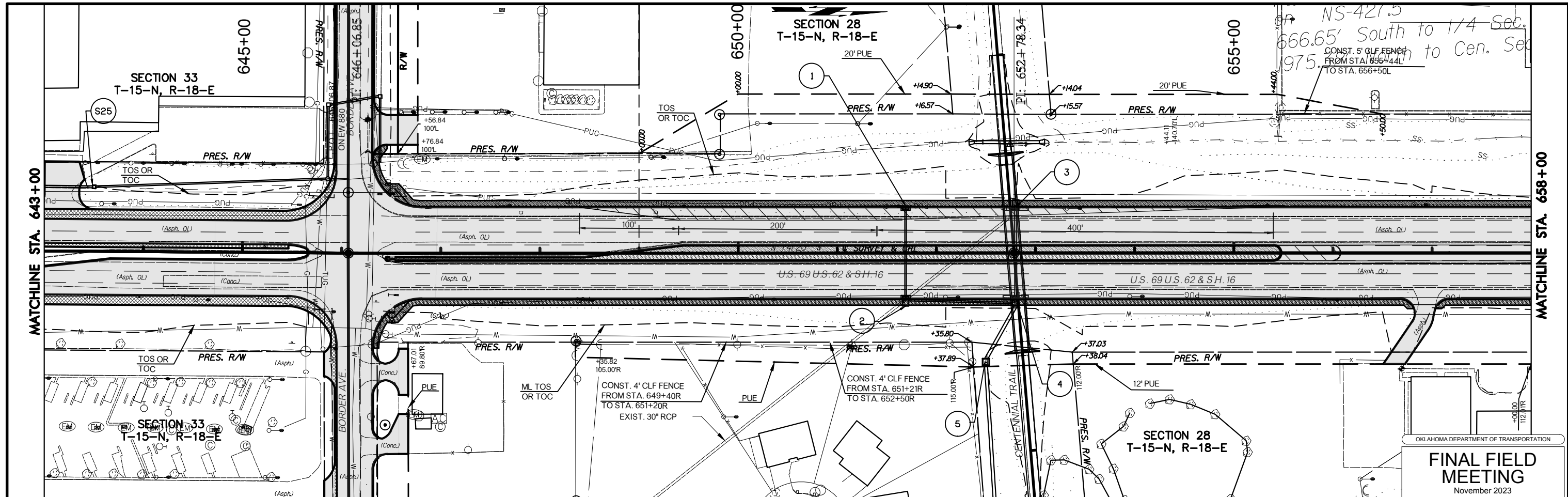
**SECTION 33**  
**T-15-N, R-18-E**



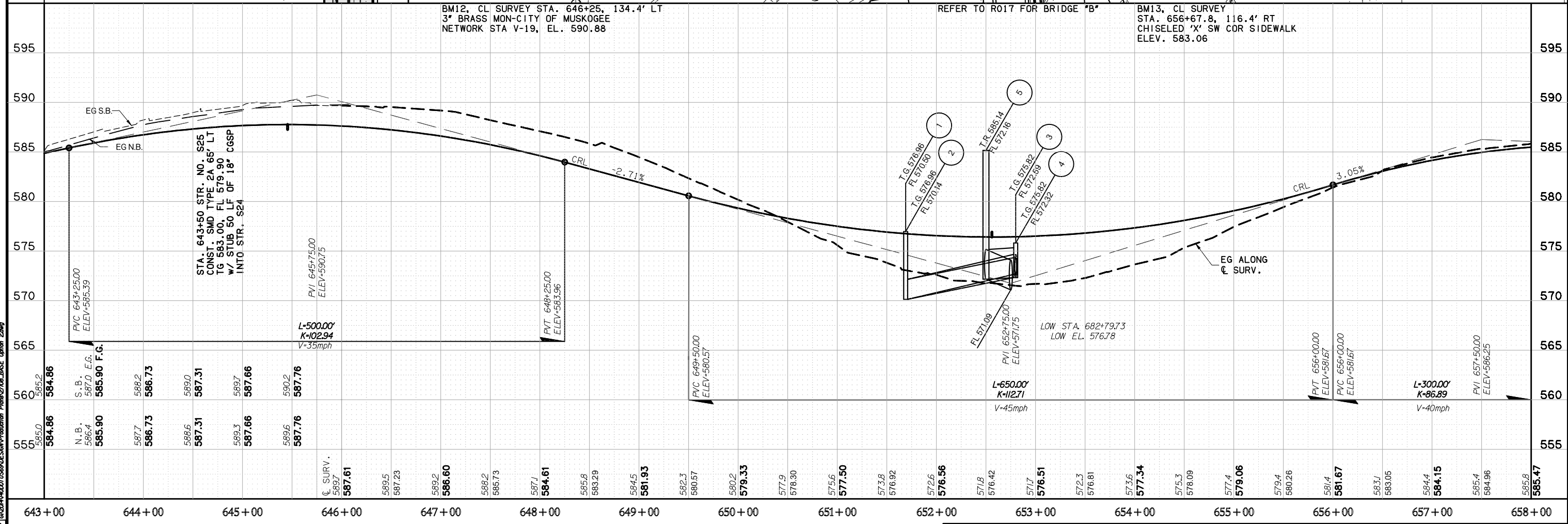
Station	Elevation	Notes
628+00	579.84	S.B.
629+00	579.81	F.G.
630+00	579.80	
631+00	579.78	
632+00	579.77	
633+00	579.76	
634+00	579.74	
635+00	579.73	
636+00	579.72	
637+00	579.70	
638+00	579.69	
639+00	579.68	
640+00	579.66	
641+00	579.65	
642+00	579.64	
643+00	579.62	

MSB E 08/17/24, 150' PM, Pkt. Style: NONCHRONOMETRIC  
 04/20/24, 00/21/25, 00/25/26 Production: Plan 27108, Base: Option 2, 2nd

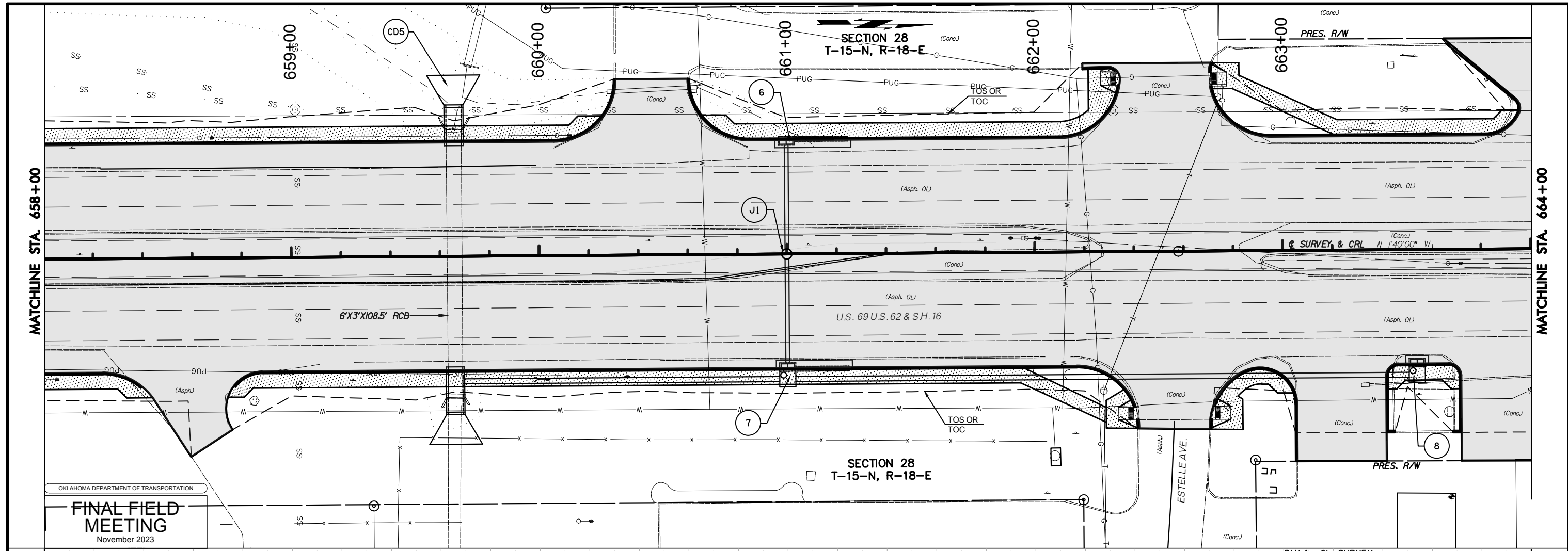




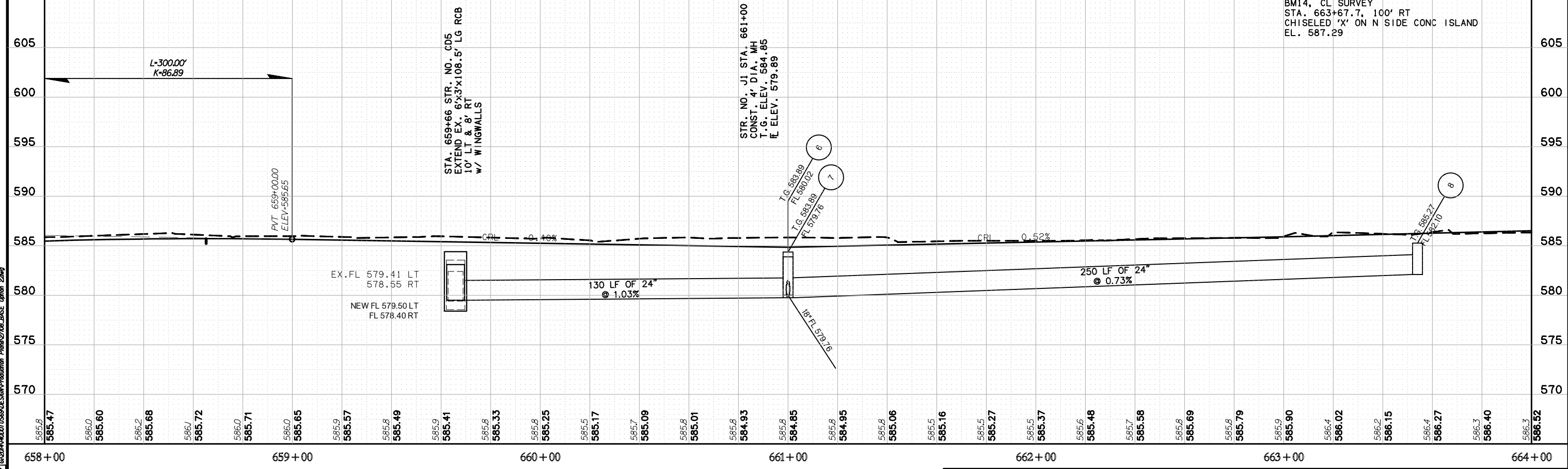
OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
 November 2023



HUB E 10/17/23 2:01 PM P:\S\14\1400\CHROME\CTB  
 0\20\4\4027\559\US69\Production Plans\27108\_BAISE\_Draftn 2.dwg



OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
November 2023



HUB E. P. & S. P. INC. 2023. 201 PM. PLOT STATE: MICHIGAN/MS/CT/PA  
 04/20/24 14:02:11 USER: JESSICA Production Plot: 27108\_BAISE\_Draftn 2.dwg

U.S. HWY. 69



PLAN AND PROFILE

MUSKOGEE COUNTY U.S. HIGHWAY 69  
STATE JOB NO. JP 27108(04) SHEET NO. R041

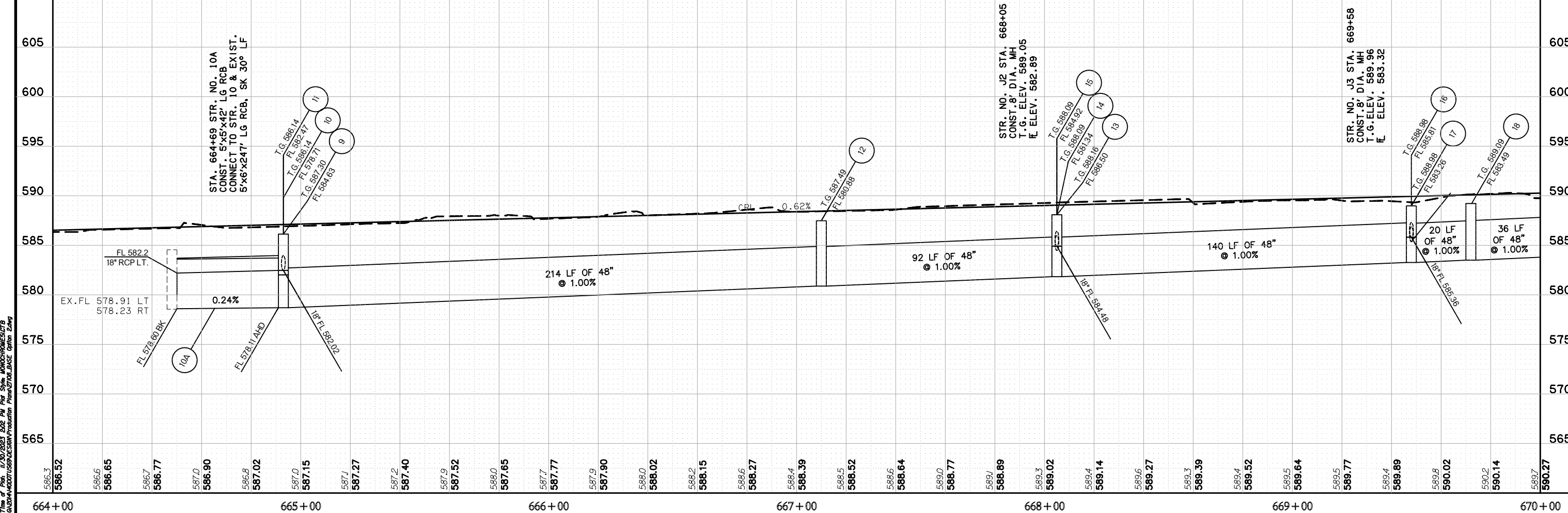
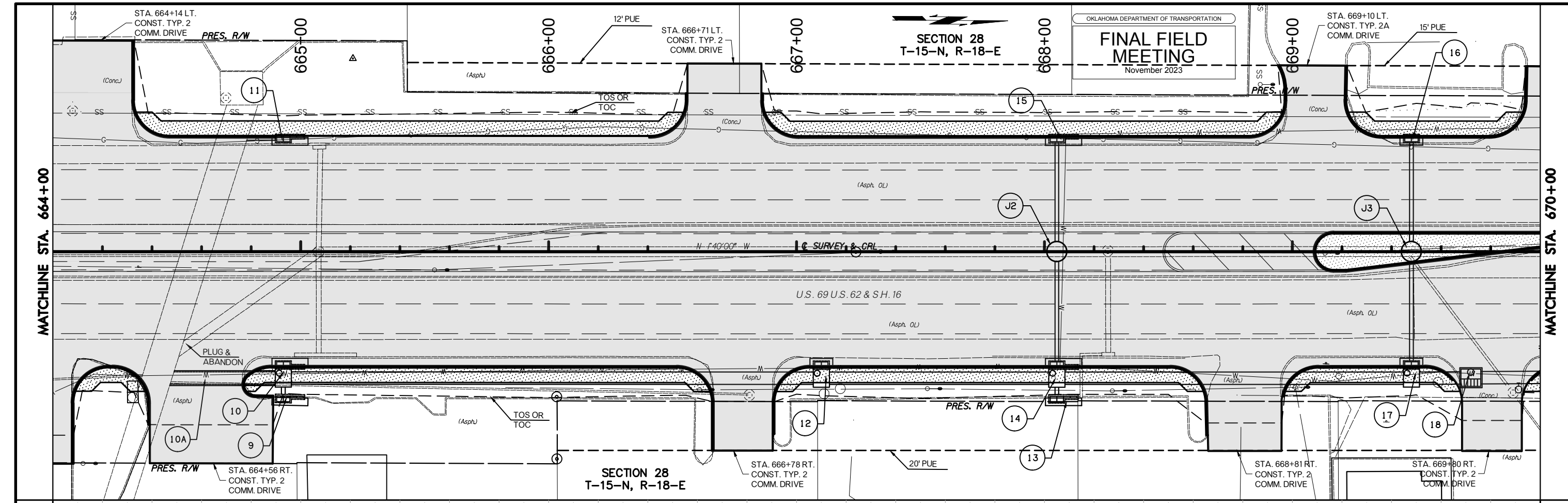
OKLAHOMA DEPARTMENT OF TRANSPORTATION  
FINAL FIELD MEETING  
November 2023

SECTION 28  
T-15-N, R-18-E

SECTION 28  
T-15-N, R-18-E

MATCHLINE STA. 664+00

MATCHLINE STA. 670+00



1103 E 9th, Tulsa, Oklahoma  
800.525.2222  
www.davisbrooksbond.com  
11/14/2023, 9:29 PM  
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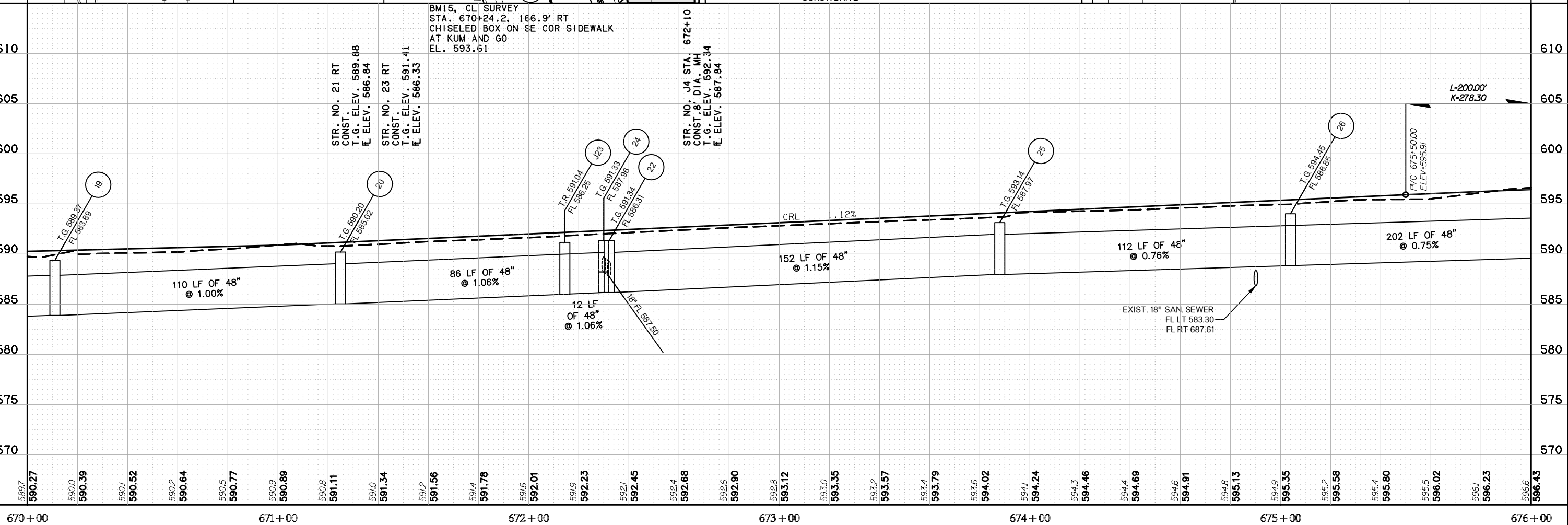
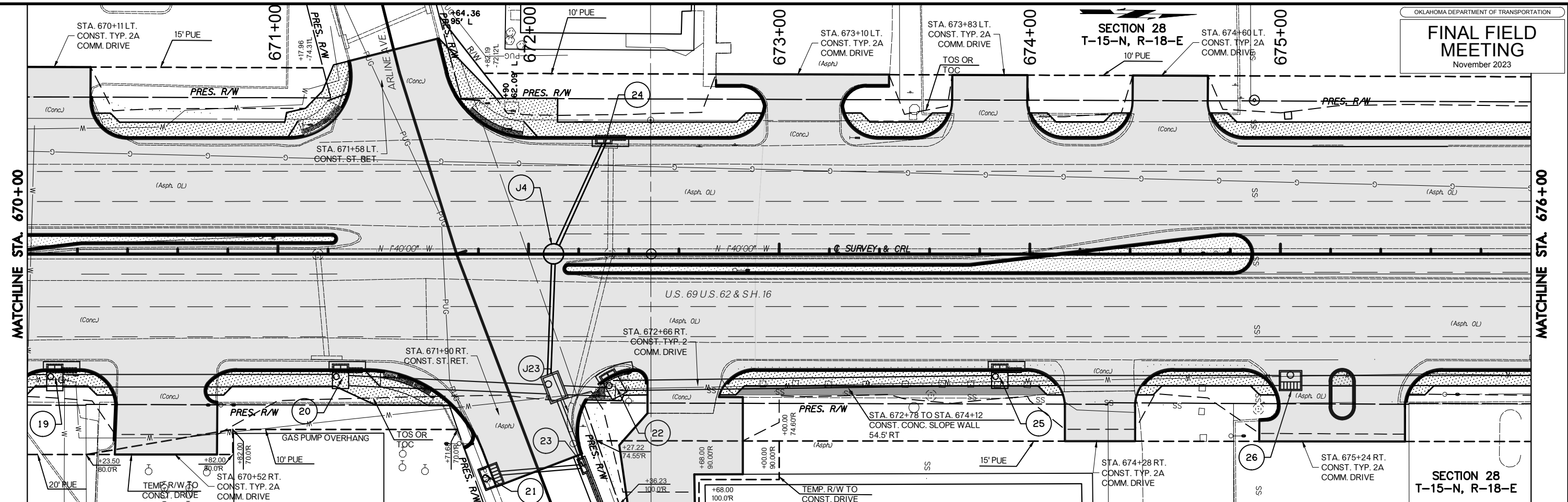
U.S. HWY. 69



PLAN AND PROFILE

MUSKOGEE COUNTY U.S. HIGHWAY 69  
STATE JOB NO. JP 27108(04) SHEET NO. R042

SECTION 28  
T-15-N, R-18-E



Hub E... 2023...  
MUSKOGEE COUNTY  
STATE JOB NO. JP 27108(04) SHEET NO. R04.3

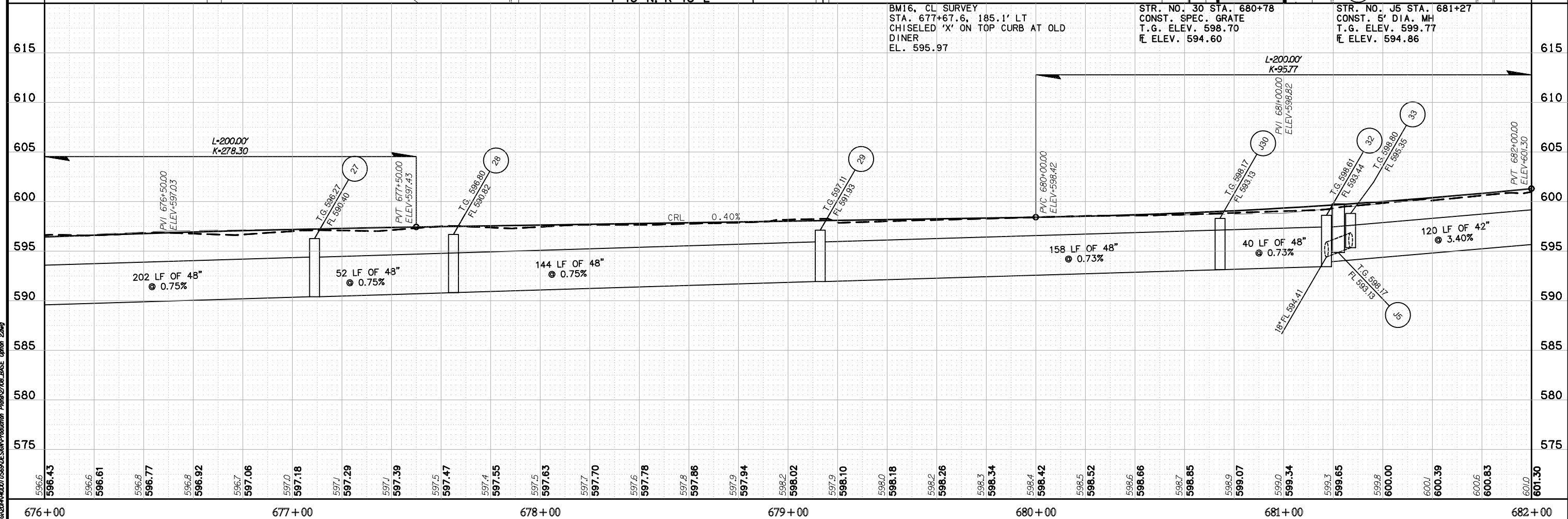
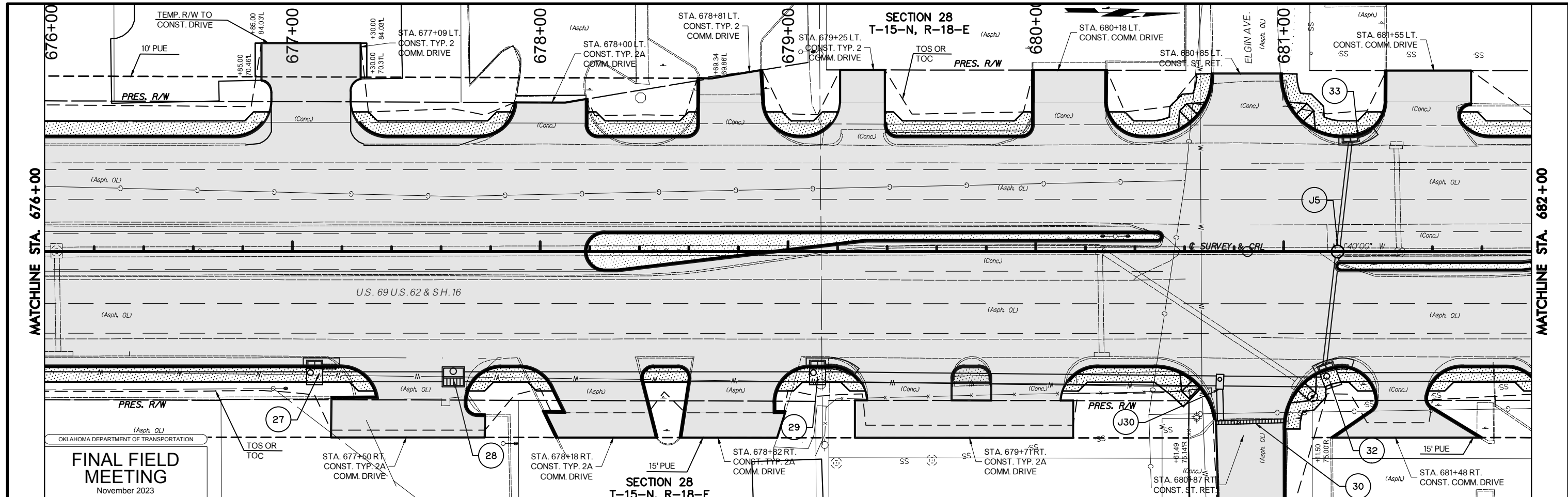
670+00 671+00 672+00 673+00 674+00 675+00 676+00

U.S. HWY. 69



PLAN AND PROFILE

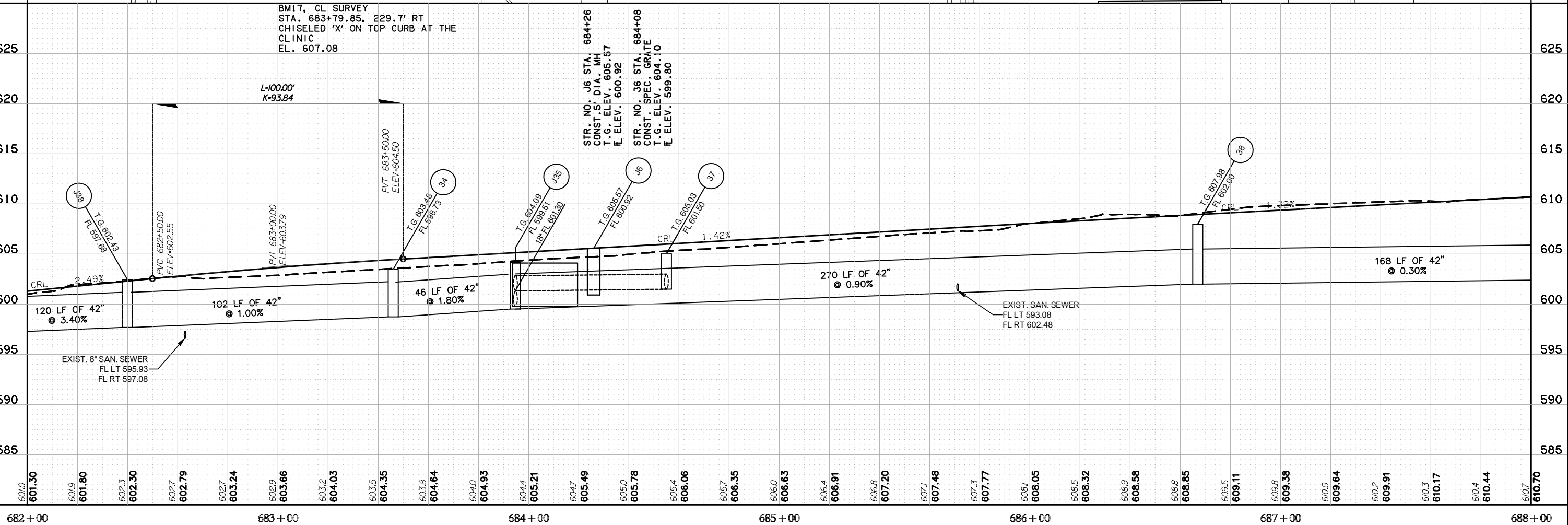
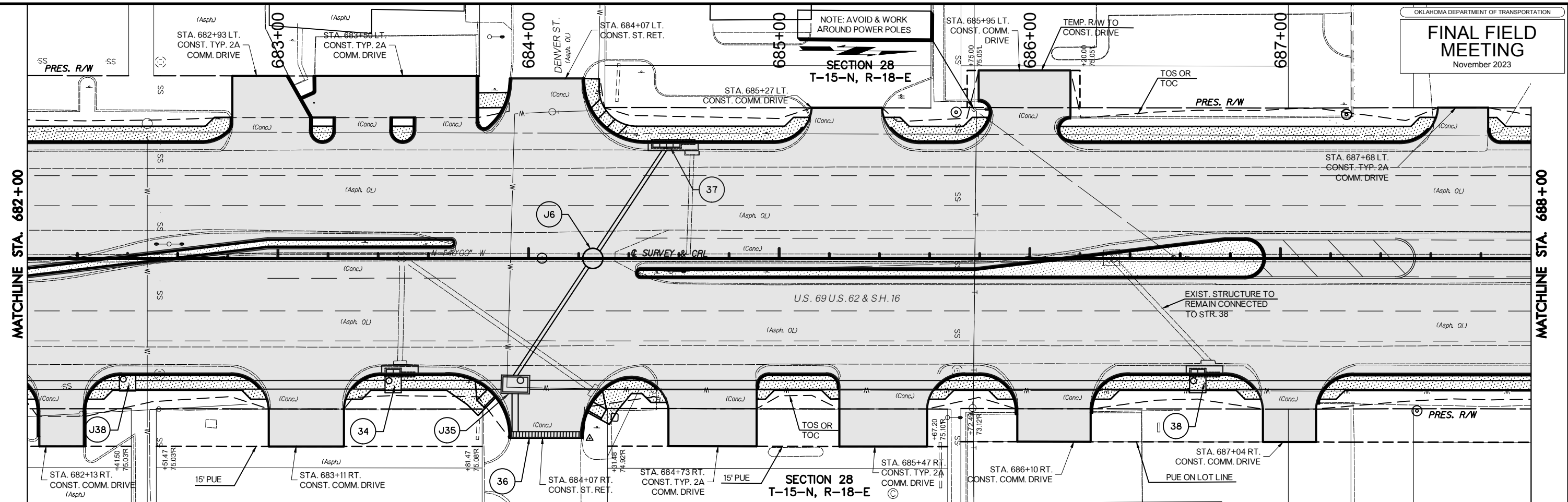
MUSKOGEE COUNTY U.S. HIGHWAY 69  
STATE JOB NO. JP 27108(04) SHEET NO. R04.3



HUB E...  
 08/20/24 04:02:11...  
 2023...  
 2023...  
 2023...  
 2023...



NOTE: AVOID & WORK AROUND POWER POLES  
SECTION 28  
T-15-N, R-18-E



Hub E n g i n e e r s  
2004 Pk. Sta. Muskogee, OK  
Production File: 27108-04-01

682+00 683+00 684+00 685+00 686+00 687+00 688+00

U.S. HWY. 69

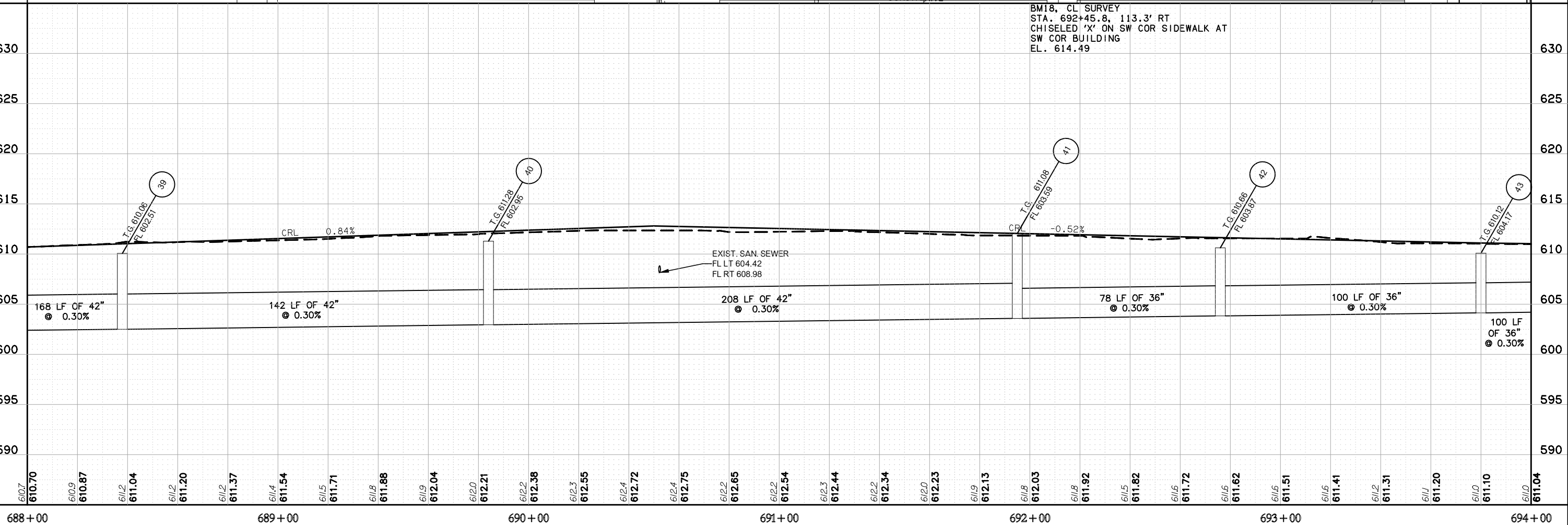
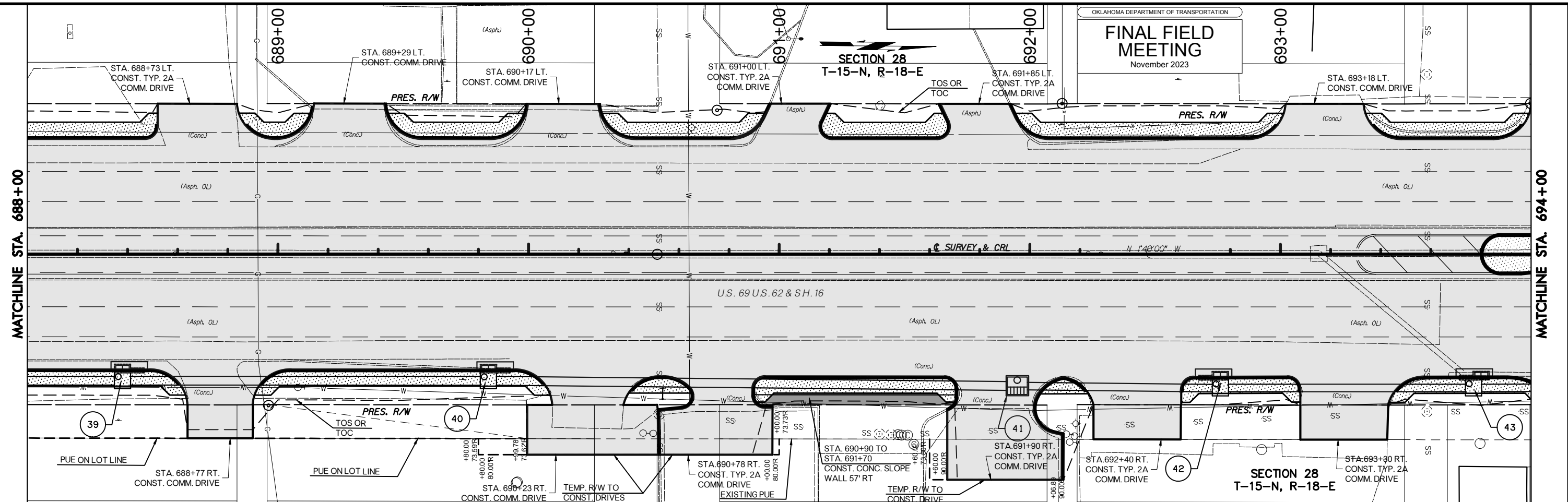


PLAN AND PROFILE

MUSKOGEE COUNTY U.S. HIGHWAY 69  
STATE JOB NO. JP 27108(04) SHEET NO. R045

OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
 November 2023

**SECTION 28**  
**T-15-N, R-18-E**



Hub E n g i n e e r s, P C  
 2004 Pk. St. SW, Muskogee, OK 74403  
 (918) 683-1111  
 www.hubengr.com

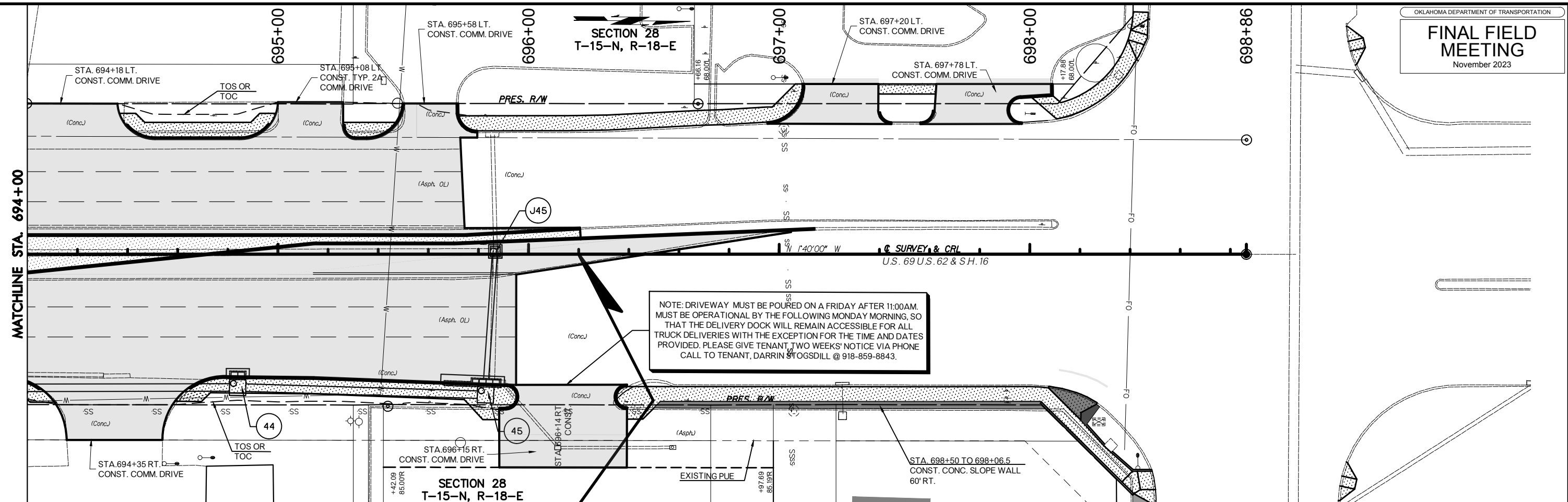
U.S. HWY. 69



PLAN AND PROFILE

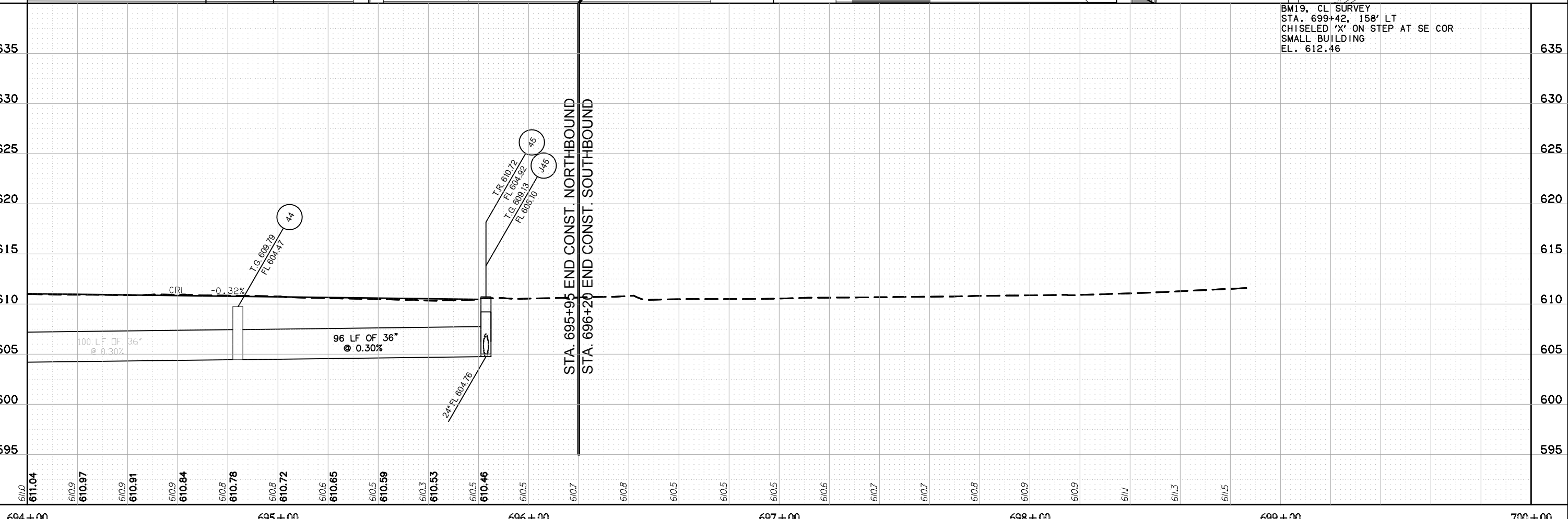
MUSKOGEE COUNTY U.S. HIGHWAY 69  
 STATE JOB NO. JP 27108(04) SHEET NO. R046

SECTION 28  
T-15-N, R-18-E



NOTE: DRIVEWAY MUST BE POURED ON A FRIDAY AFTER 11:00AM. MUST BE OPERATIONAL BY THE FOLLOWING MONDAY MORNING, SO THAT THE DELIVERY DOCK WILL REMAIN ACCESSIBLE FOR ALL TRUCK DELIVERIES WITH THE EXCEPTION FOR THE TIME AND DATES PROVIDED, PLEASE GIVE TENANT TWO WEEKS' NOTICE VIA PHONE CALL TO TENANT, DARRIN STOGSDILL @ 918-859-8843.

BM19, CL SURVEY  
STA. 699+42, 158' LT  
CHISELED 'X' ON STEP AT SE COR  
SMALL BUILDING  
EL. 612.46



Hub E n g i n e e r s, P C  
 6820 N. 40th Street, Oklahoma City, Oklahoma 73121  
 (405) 764-1100  
 www.hubengr.com

694+00      695+00      696+00      697+00      698+00      699+00      700+00

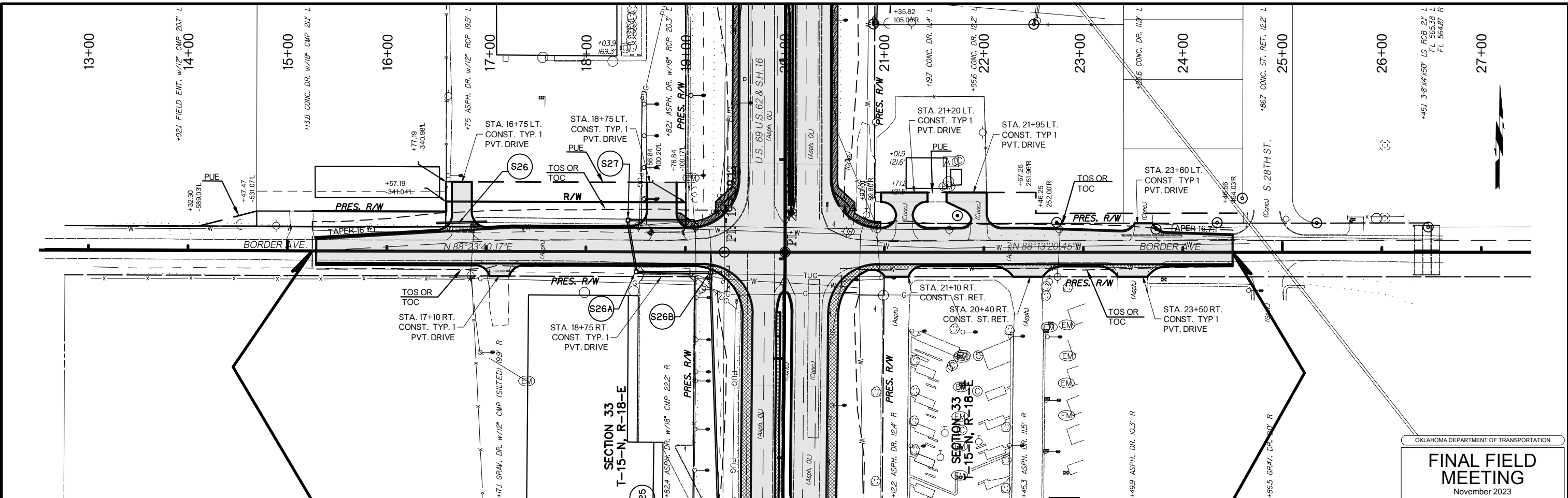
U.S. HWY. 69



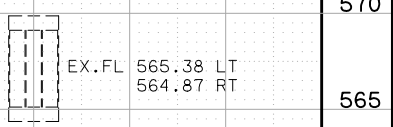
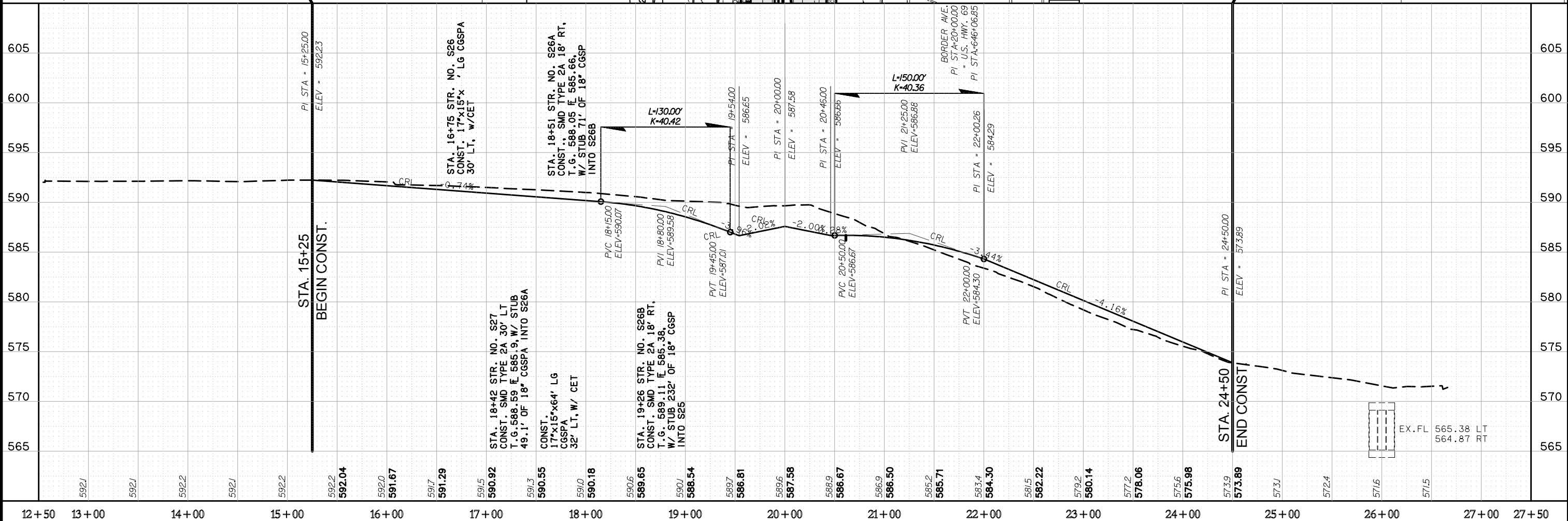
PLAN AND PROFILE

MUSKOGEE COUNTY U.S. HIGHWAY 69  
STATE JOB NO. JP 27108(04) SHEET NO. R047

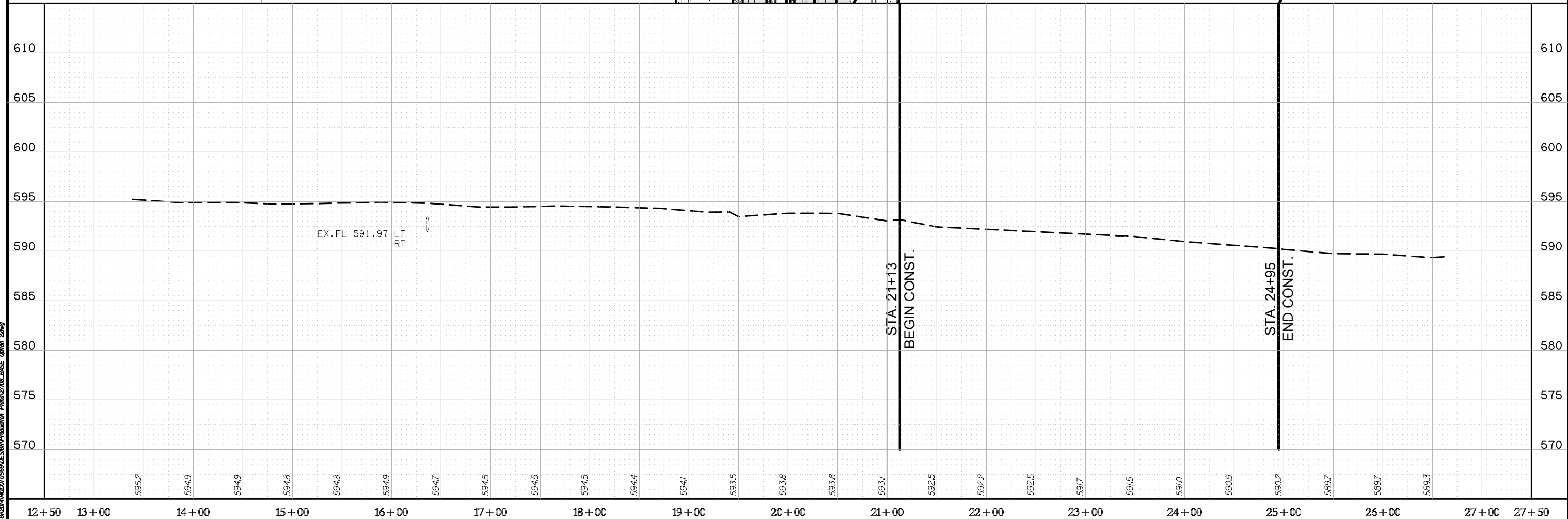
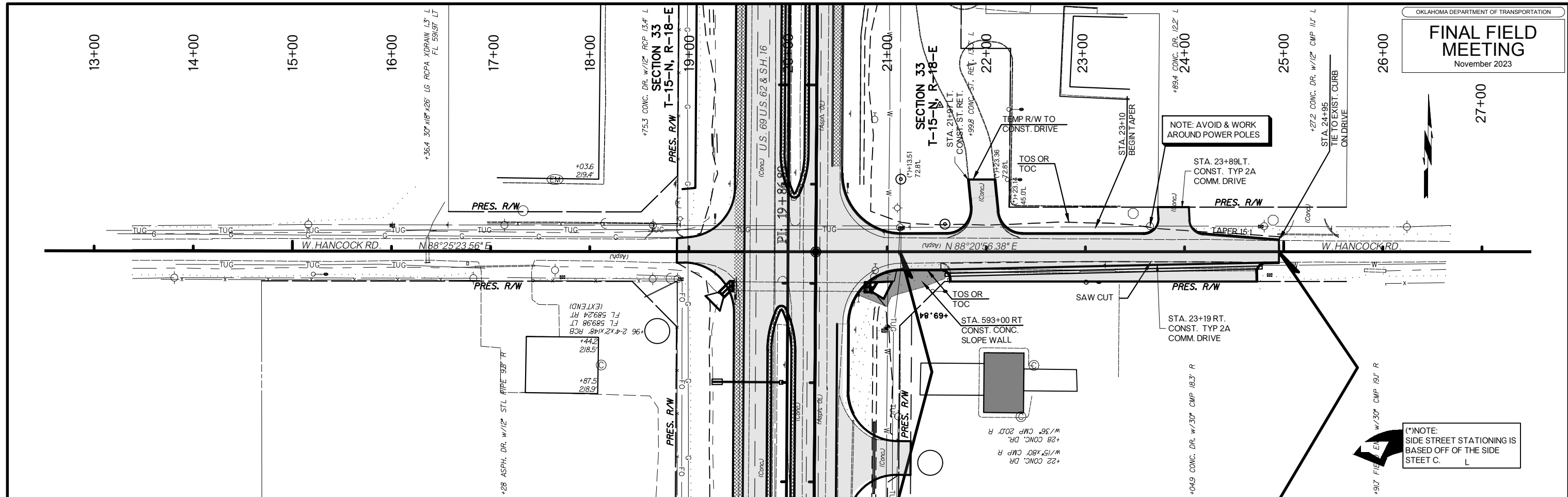
HUB E...  
 01/20/24 10:59 AM...  
 01/20/24 10:59 AM...  
 01/20/24 10:59 AM...



OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
 November 2023



12+50 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 27+50



HUB E n g i n e e r s, p a c, l l c  
 6204 W. 40TH STREET, SUITE 200, OKLAHOMA CITY, OK 73135  
 (405) 761-1111

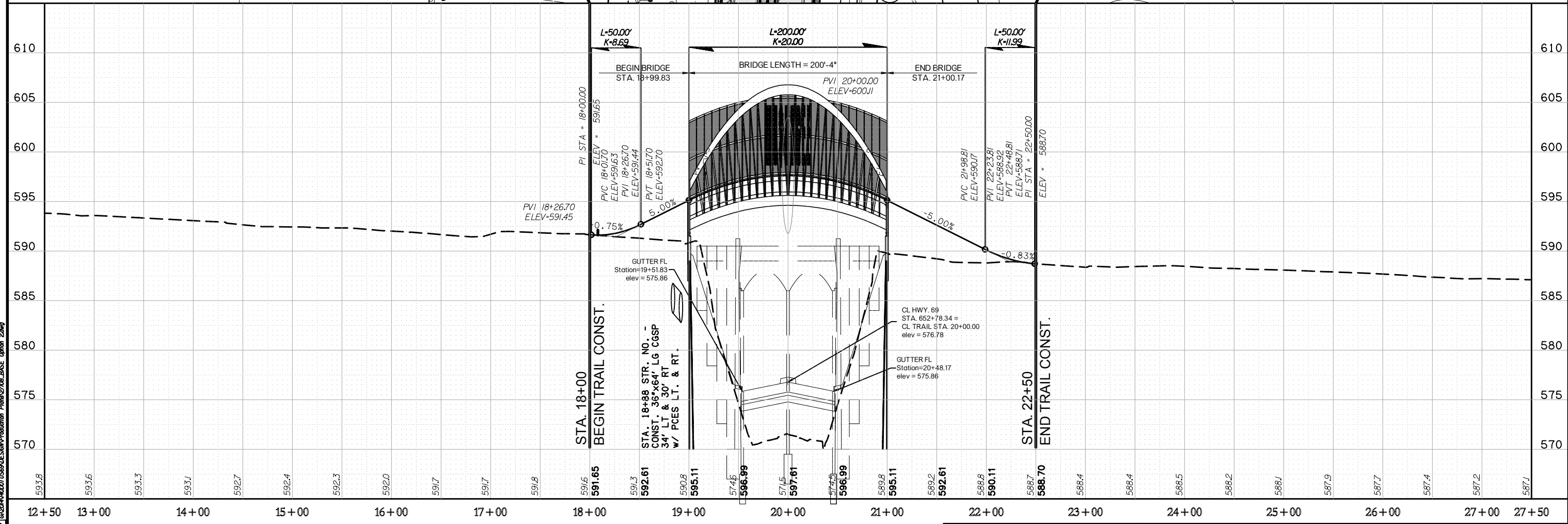
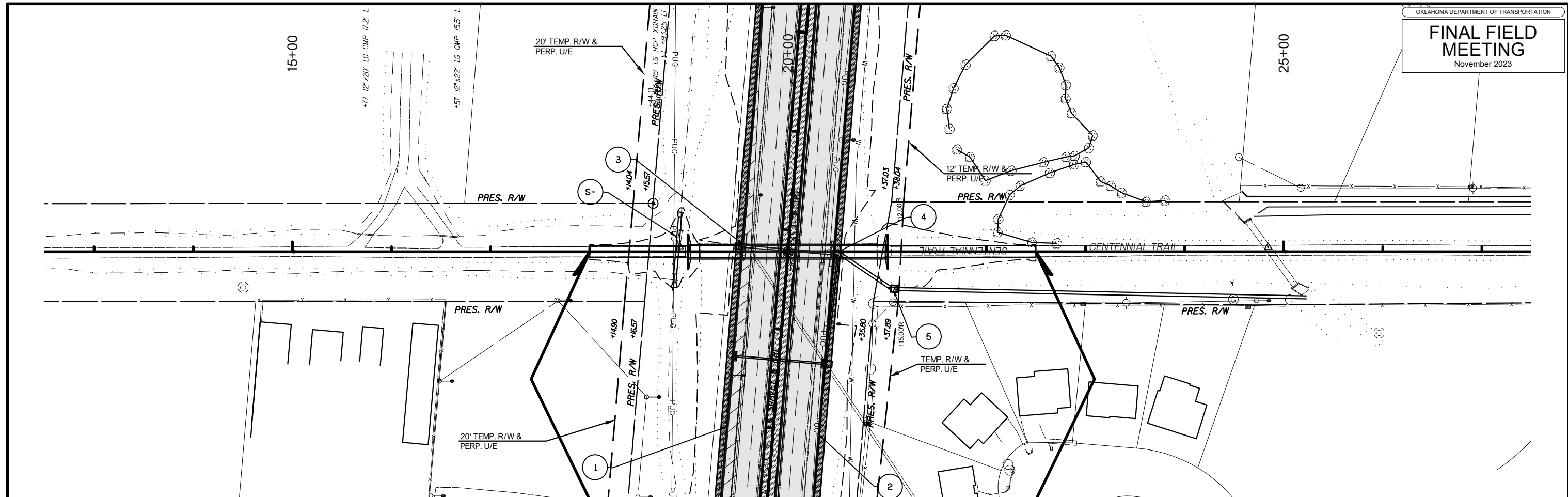
12+50 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00 27+00 27+50

W. HANCOCK RD.



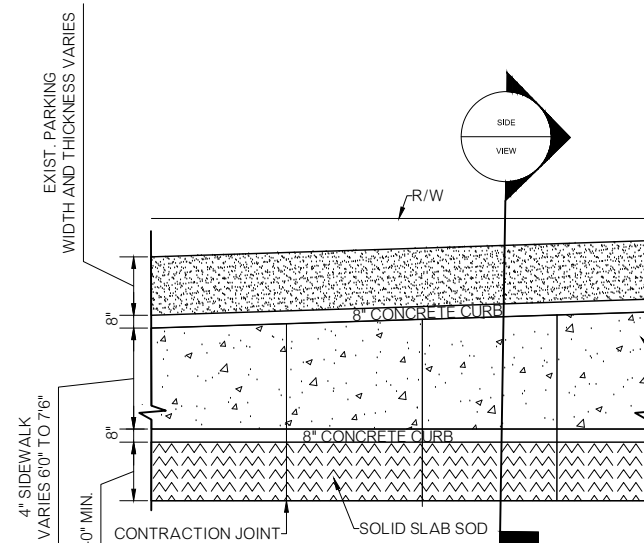
PLAN AND PROFILE

MUSKOGEE COUNTY U.S. HIGHWAY 69  
STATE JOB NO. JP 27108(04) SHEET NO. R049

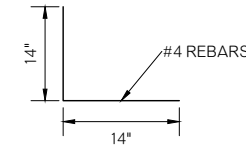


HUB E n g i n e e r s, p c  
 6020 N. 4000 WEST AVE. SUITE 100  
 OKLAHOMA CITY, OKLAHOMA 73109

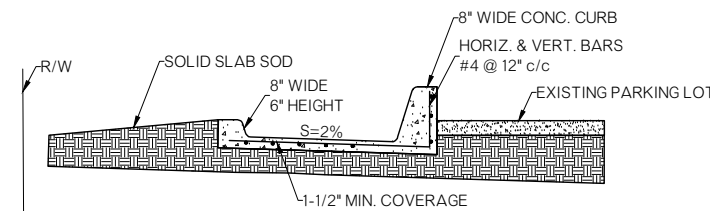
OKMULGEE AVE.



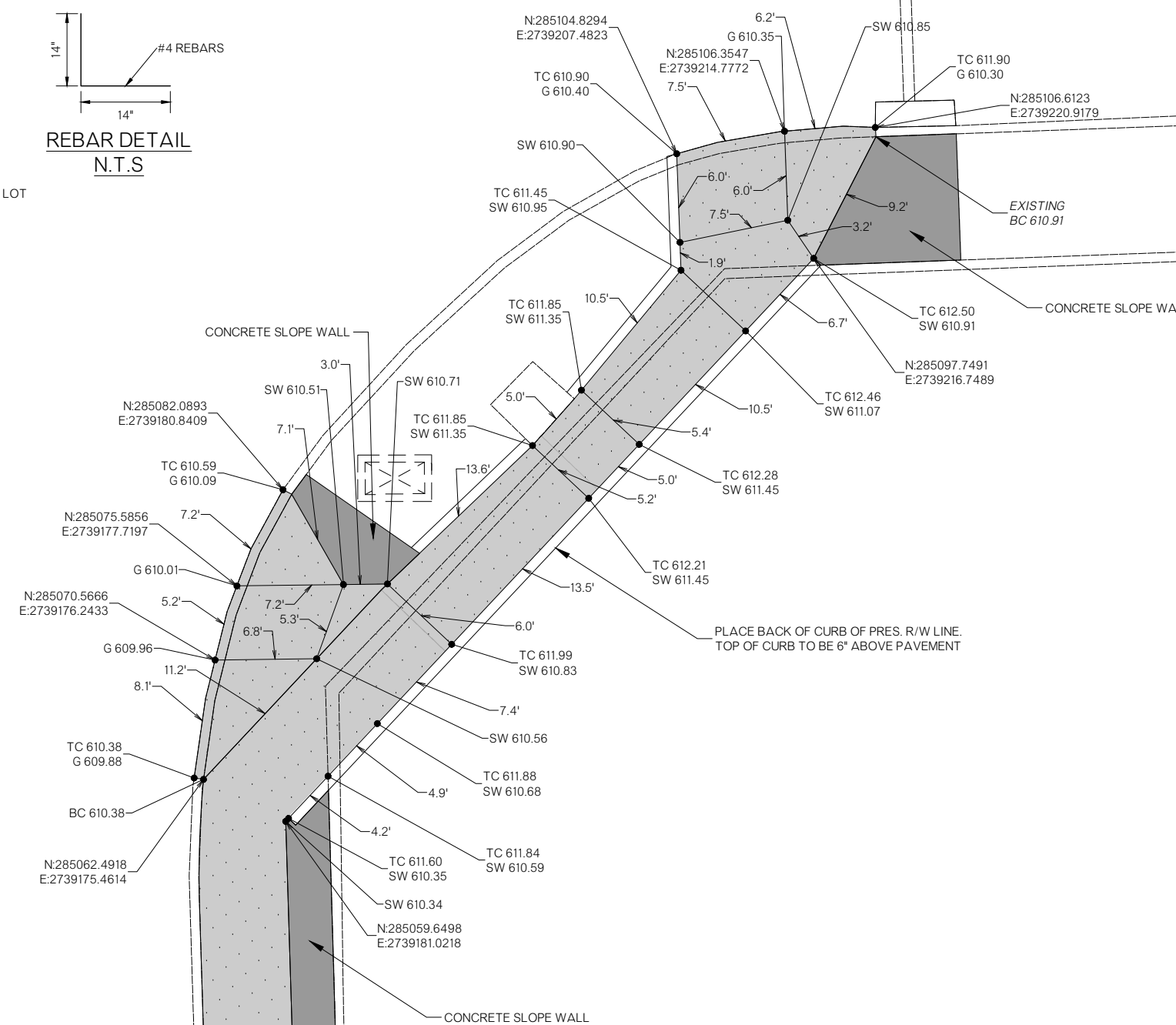
VARIABLE CURB 4" SIDEWALK DETAIL



REBAR DETAIL  
N.T.S



SIDE VIEW  
N.T.S



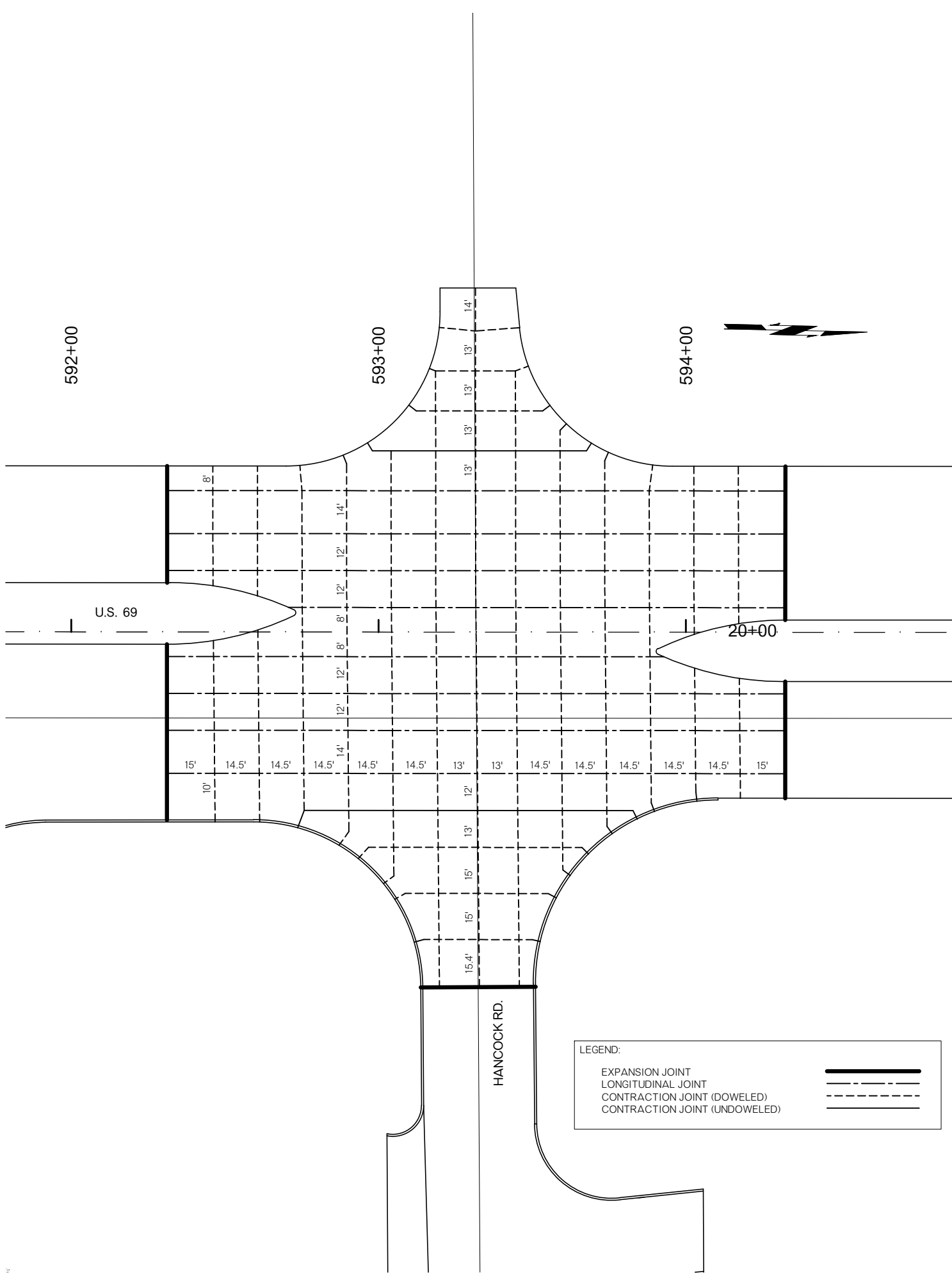
**LEGEND & KEY**

- SIDEWALK
- CONCRETE SLOPEWALL
- BC = BACK OF CURB
- G = GUTTER
- SW = SIDEWALK
- TC = TOP OF CURB

**US-69 HIGHWAY**

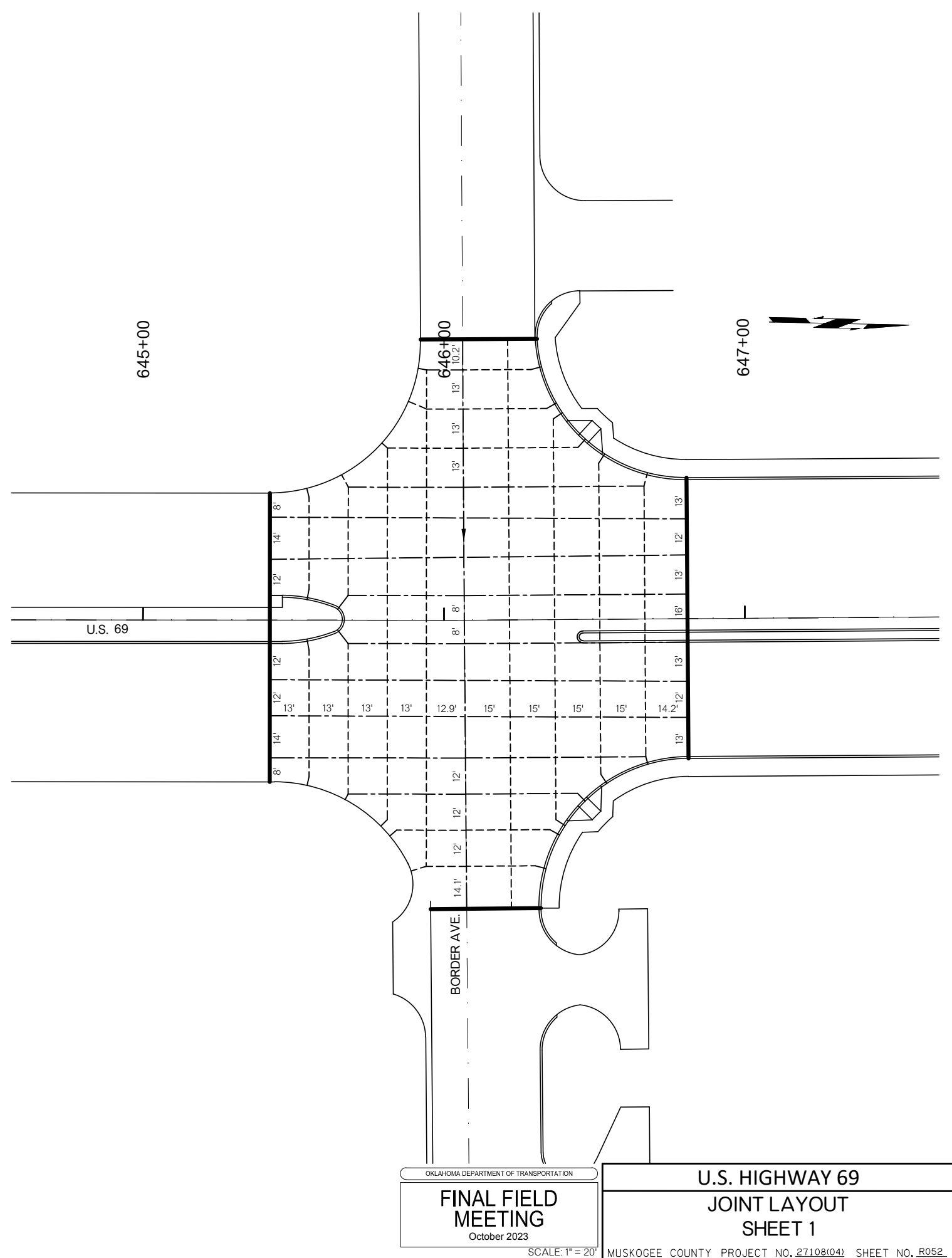
**U.S. HIGHWAY 69**  
SIDEWALK SITE PLAN  
(OKMULGEE AVE & US-69)

HUB ENGINEERS  
1700 N. W. 10th St., Suite 200  
Tulsa, Oklahoma 74103  
Tel: (918) 438-1100  
Fax: (918) 438-1101  
www.hubengineers.com



LEGEND:

EXPANSION JOINT	—————
LONGITUDINAL JOINT	—————
CONTRACTION JOINT (DOWELED)	- - - - -
CONTRACTION JOINT (UNDOWELED)	—————

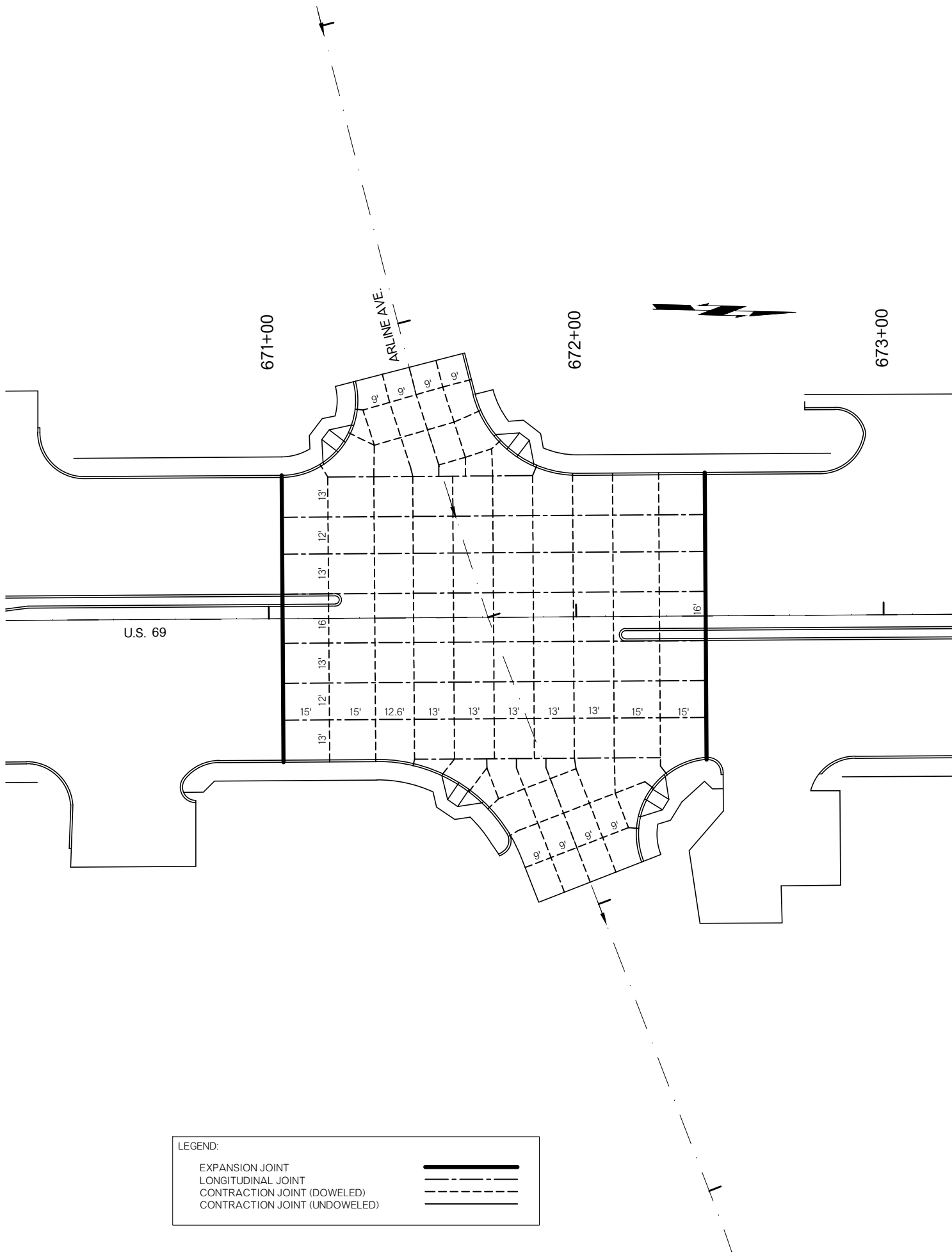


OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
October 2023

**U.S. HIGHWAY 69**  
**JOINT LAYOUT**  
**SHEET 1**



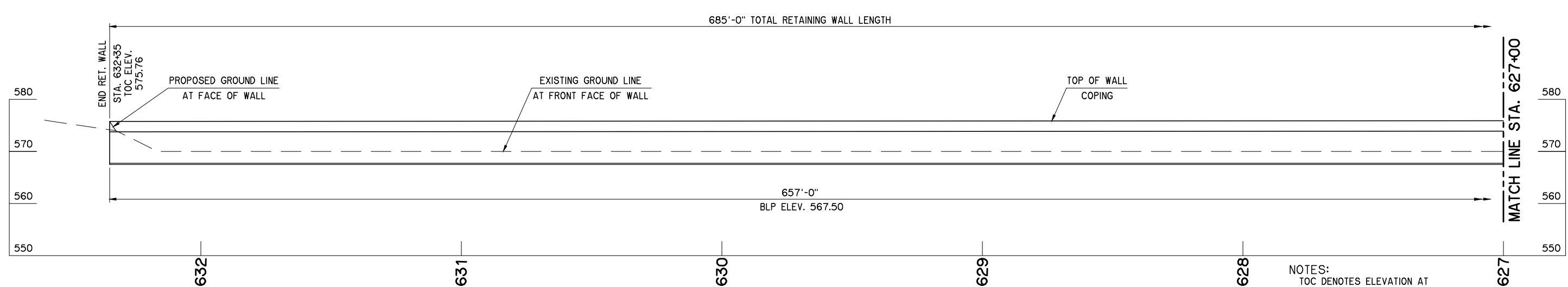
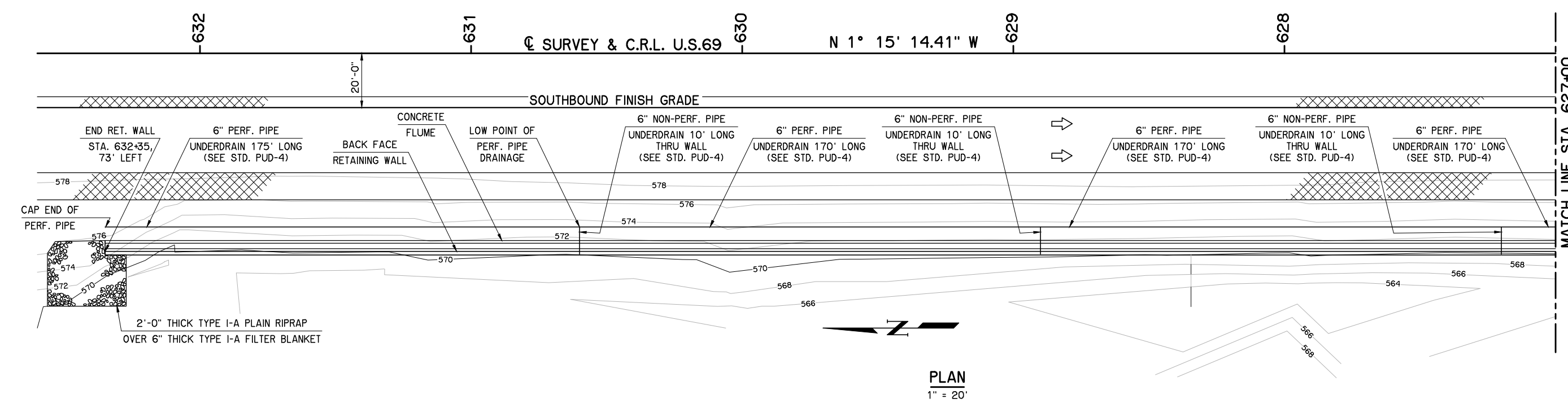
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LEGEND:	
EXPANSION JOINT	
LONGITUDINAL JOINT	
CONTRACTION JOINT (DOWELED)	
CONTRACTION JOINT (UNDOWELED)	

OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
October 2023  
SCALE: 1" = 20'

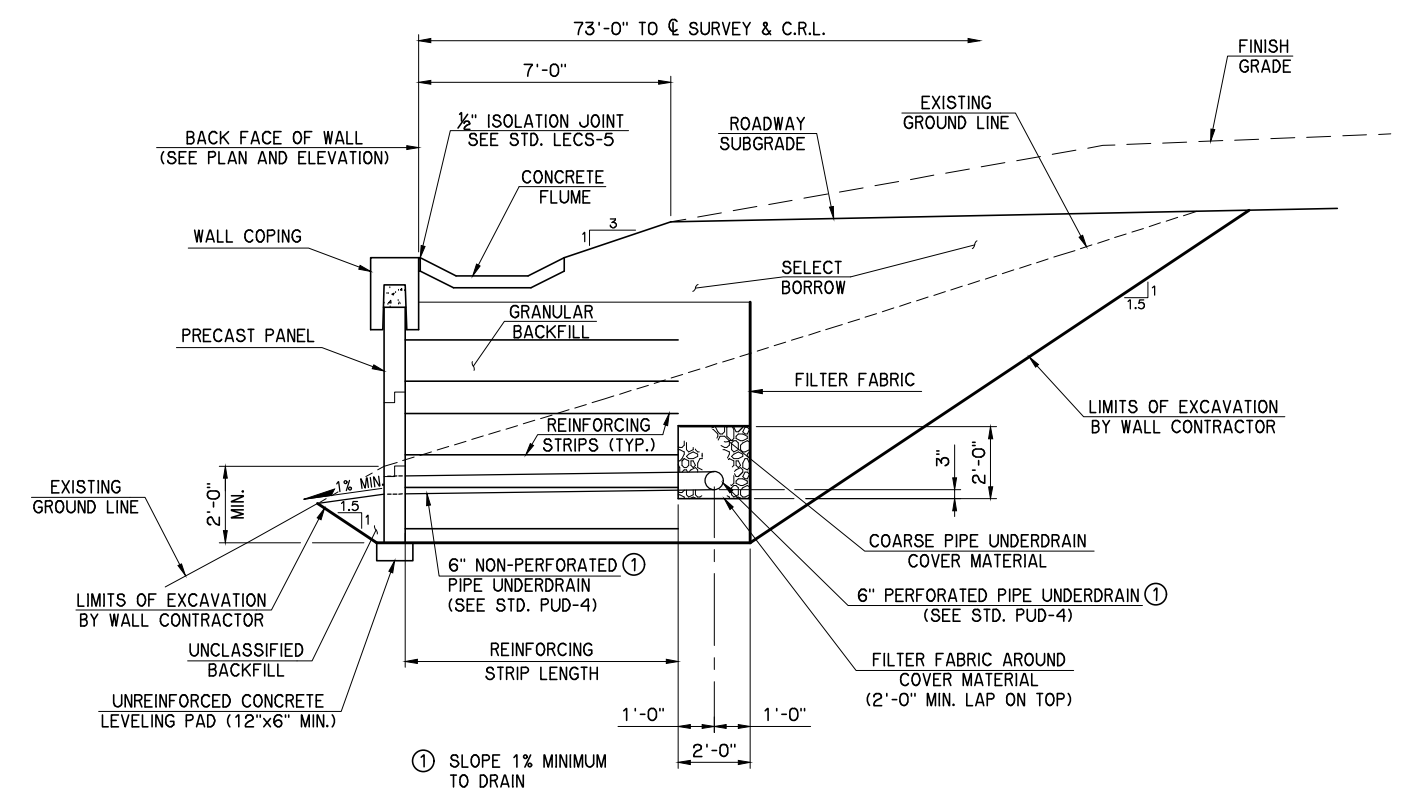
**U.S. HIGHWAY 69**  
**JOINT LAYOUT**  
**SHEET 2**  
MUSKOGEE COUNTY PROJECT NO. 27108(04) SHEET NO. R053



NOTES:  
 TOC DENOTES ELEVATION AT  
 TOP OF WALL COPING  
 BLP DENOTES BOTTOM OF  
 6" CONCRETE LEVELING PAD

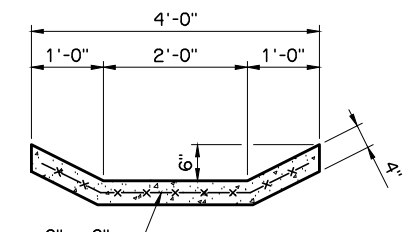
U.S.69 OVER COODY CREEK		MUSKOGEE COUNTY	
RETAINING WALL		Design	KGL
<b>PLAN AND ELEVATION</b> RETAINING WALL SHEET 1 OF 2		Detail	KGL
		Check	AFW
<b>STATE OF OKLAHOMA</b>		<b>DEPARTMENT OF TRANSPORTATION</b>	
		JOB PIECE NO. 27108(O4)	
		SHEET NO. R054	

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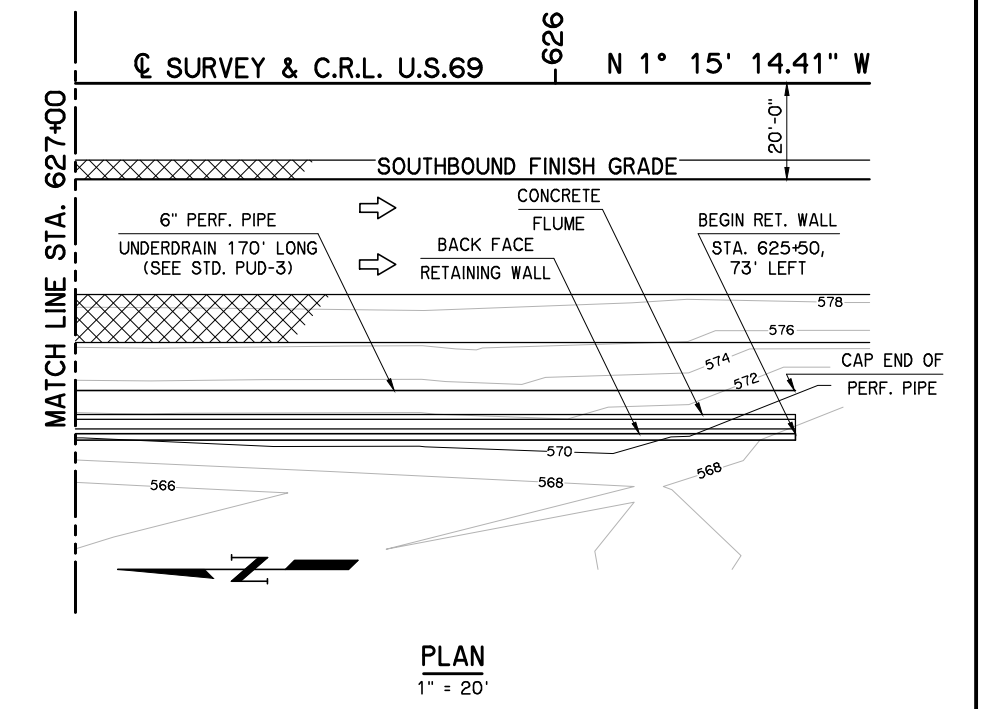


**TYPICAL SECTION**

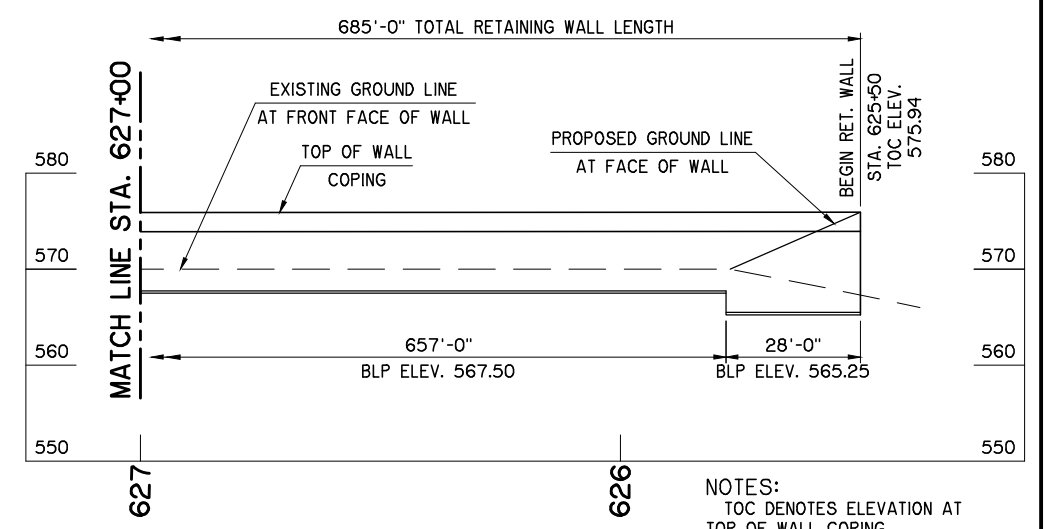
**NOTES:**  
INCLUDE ALL COSTS OF WALL COPING, CONCRETE FILLER, PRECAST PANELS, REINFORCING STRIPS, FILTER FABRIC, JOINT FILLERS, JOINT SEALANT, AND LEVELING PAD IN THE CONTRACT UNIT PRICE OF MSE RETAINING WALLS. FURNISH MSE RETAINING WALL DESIGN FOR SELECTED WALL SYSTEM PERFORMED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF OKLAHOMA IN ACCORDANCE WITH SUBSECTION 510.04.B OF THE SPECIFICATIONS. SUBMIT DESIGN CALCULATIONS AND DRAWINGS TO THE ENGINEER FOR APPROVAL. DO NOT BEGIN INSTALLATION UNTIL APPROVAL BY THE ENGINEER IS RECEIVED.  
ALL COST OF ADDITIONAL BORROW OR EXCAVATION, REQUIRED FOR INSTALLING PAVED DITCH, SHALL BE INCLUDED IN PRICE BID FOR CLASS C CONCRETE. THE DITCH SHALL BE WATERED, AND COMPACTED, BEFORE PLACING CLASS C CONCRETE. FOR CURTAIN WALL DETAILS, SEE STD. DC-4.



**CONCRETE FLUME DETAIL**



**PLAN**  
1" = 20'



**ELEVATION**  
1" = 20' HORIZ.  
1" = 10' VERT.

**NOTES:**  
TOC DENOTES ELEVATION AT TOP OF WALL COPING  
BLP DENOTES BOTTOM OF 6" CONCRETE LEVELING PAD

RETAINING WALL QUANTITIES		
ITEM DESCRIPTION	UNIT	TOTAL
<b>PAY ITEMS</b>		
CLASS C CONCRETE	C.Y.	18.4
MSE RETAINING WALL	S.Y.	604.5
TYPE I-A PLAIN RIPRAP	TON	80
TYPE I-A FILTER BLANKET	TON	20
<b>NON-PAY ITEMS</b>		
SUBSTRUCTURE EXCAVATION COMMON	C.Y.	1,995
6" PERFORATED PIPE UNDERDRAIN ROUND	L.F.	685
6" NON-PERF. PIPE UNDERDRAIN ROUND	L.F.	30

U.S.69 OVER COODY CREEK		MUSKOGEE COUNTY		Design	KGL
RETAINING WALL				Detail	KGL
<b>PLAN, ELEVATION AND DETAILS</b>				Check	AFW
RETAINING WALL SHEET 2 OF 2				CEC	
<b>STATE OF OKLAHOMA</b>		DEPARTMENT OF TRANSPORTATION		JOB PIECE NO. 27108(O4)	
				SHEET NO. R055	

1410 E 10th St, Suite 100  
Tulsa, OK 74103  
www.rtd.com

11/22/2023 8:32 AM Proj: State Monochrome/CTB  
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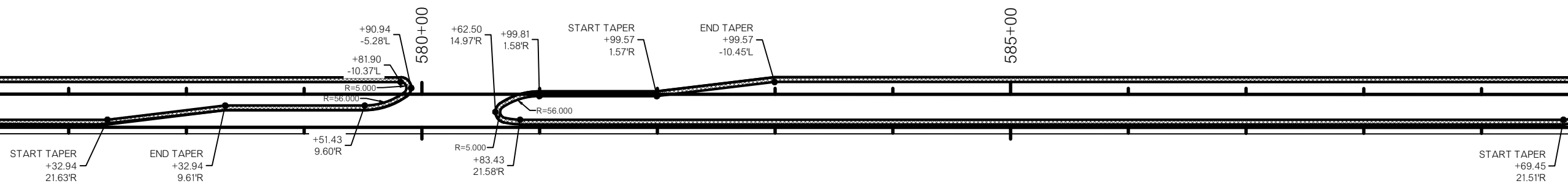
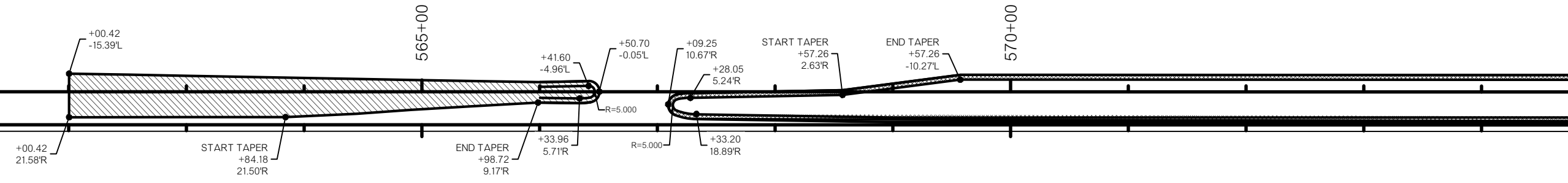


MATCHLINE STA. 560+00

MATCHLINE STA. 575+00

MATCHLINE STA. 575+00

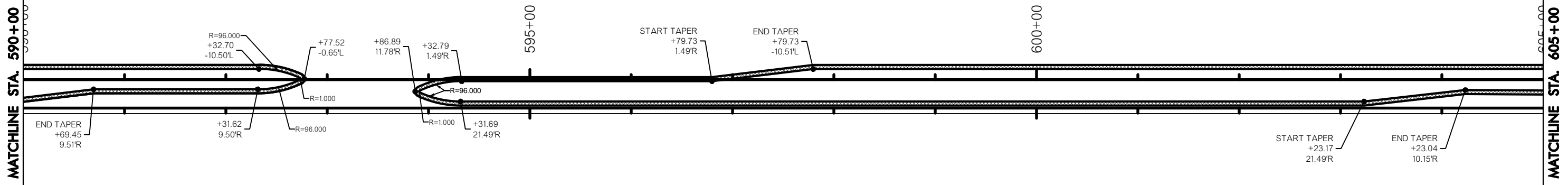
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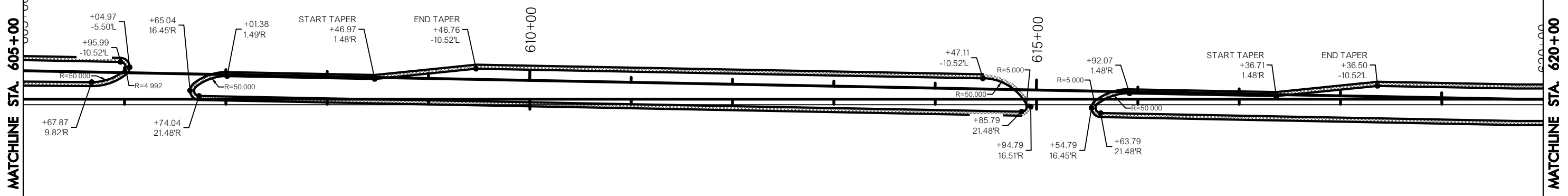
OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
November 2023

**U.S. HIGHWAY 69**  
MEDIAN LAYOUT (1 OF 7)

MUSKOGEE COUNTY PROJECT NO. 27108(04) SHEET NO. R056



(\*)NOTE:  
SIDE STREET STATIONING  
IS BASED OFF OF THE  
SIDE STREET C.



1410 E P I P S S  
 17th St, P.O. Box 1122, Muskogee, OK 74403  
 (336) 444-4444  
 11/22/2023 8:33 AM Proj: State MONROCHROME/CTB  
 (C:\DATA\2023\DESIGN\Production\Plan\27108\_MEDIAN\_LAYOUT.dwg)



OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
 November 2023

**U.S. HIGHWAY 69**

MEDIAN LAYOUT (2 OF 7)

MUSKOGEE COUNTY PROJECT NO. 27108(04) SHEET NO. R057



MATCHLINE STA. 620+00

MATCHLINE STA. 635+00

625+00

630+00

START TAPER  
+57.68  
-10.63'L

MATCHLINE STA. 635+00

MATCHLINE STA. 650+00

640+00

645+00

+29.53  
-4.67'L

END TAPER  
+00.44  
1.31'R

START TAPER  
+67.05  
24.63'R

END TAPER  
+67.05  
12.62'R

R=4.333  
R=49.333  
+46.72  
-2.06'L

+46.71  
12.61'R

+67.39  
5.38'R

R=49.313

R=1.333

+44.67  
11.28'R  
+48.38  
9.29'R

+48.38  
13.29'R

START TAPER  
+44.72  
10.02'R

END TAPER  
+44.74  
-1.95'L

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OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
November 2023

**U.S. HIGHWAY 69**

MEDIAN LAYOUT (3 OF 7)

MUSKOGEE COUNTY PROJECT NO. 27108(04) SHEET NO. R058

1410 E 10th St, Suite 100  
Tulsa, OK 74104  
www.mwd.com



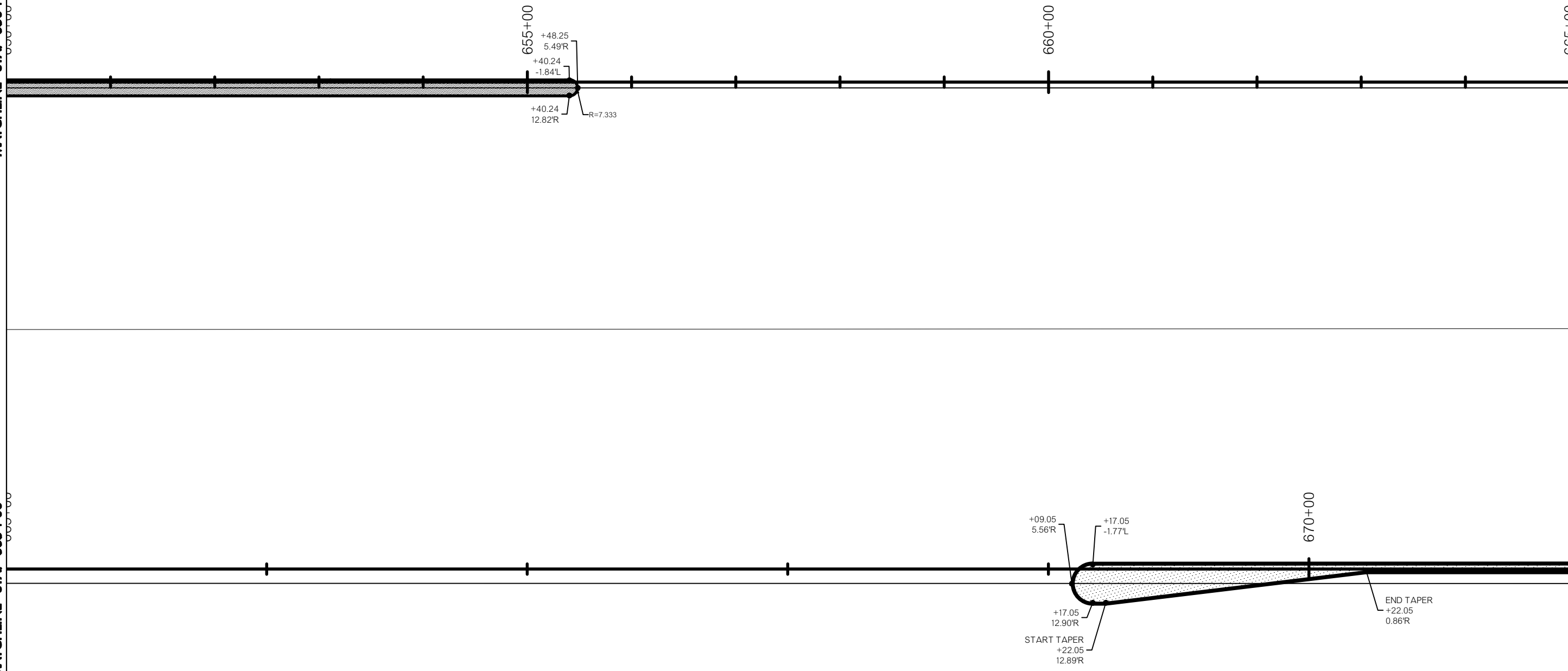
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MATCHLINE STA. 650+00

MATCHLINE STA. 665+00

MATCHLINE STA. 665+00

MATCHLINE STA. 671+00



OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
November 2023

**U.S. HIGHWAY 69**  
MEDIAN LAYOUT (4 OF 7)  
MUSKOGEE COUNTY PROJECT NO. 27108(04) SHEET NO. R059

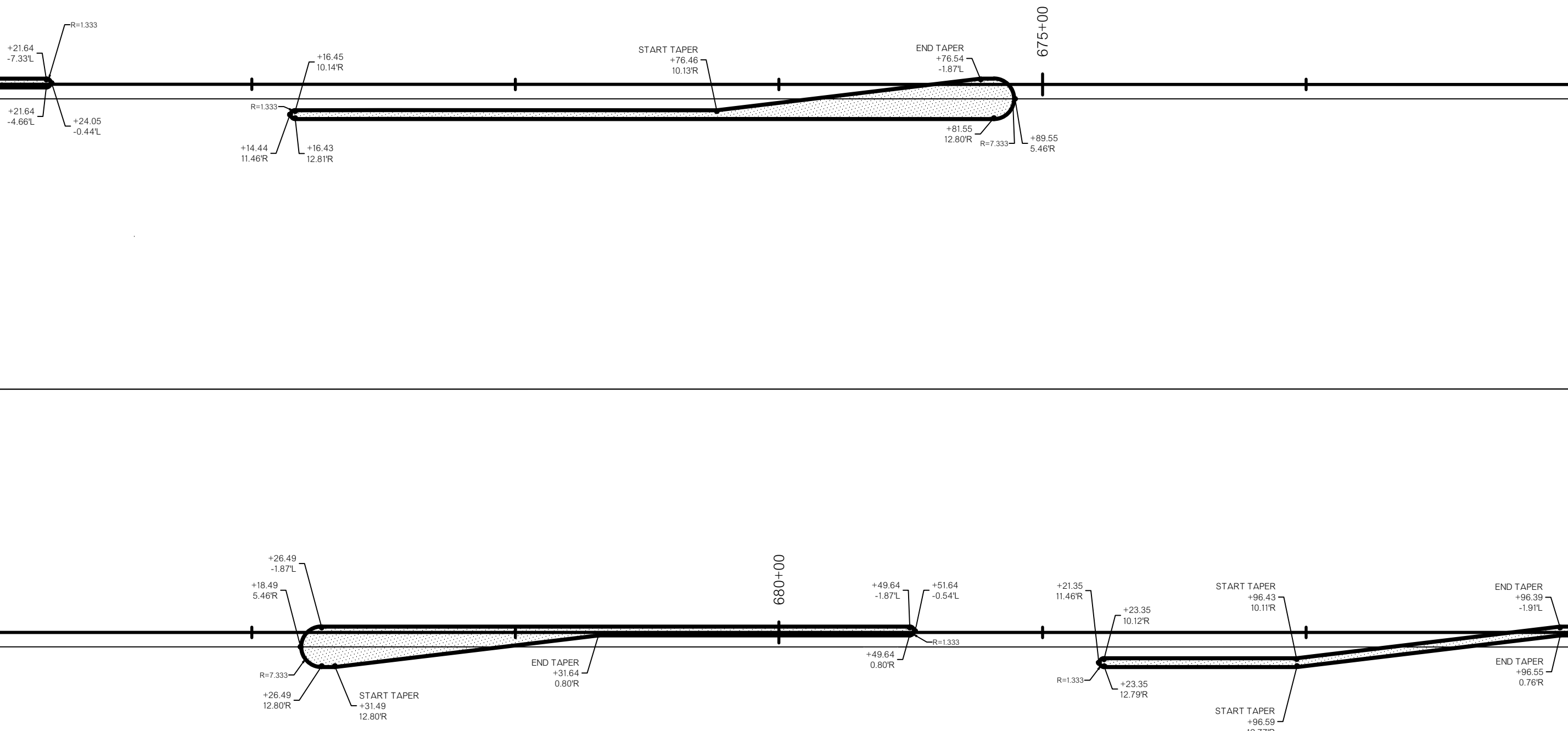


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MATCHLINE STA. 677+00

MATCHLINE STA. 677+00

MATCHLINE STA. 683+00



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OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
 November 2023

**U.S. HIGHWAY 69**  
 MEDIAN LAYOUT (5 OF 7)

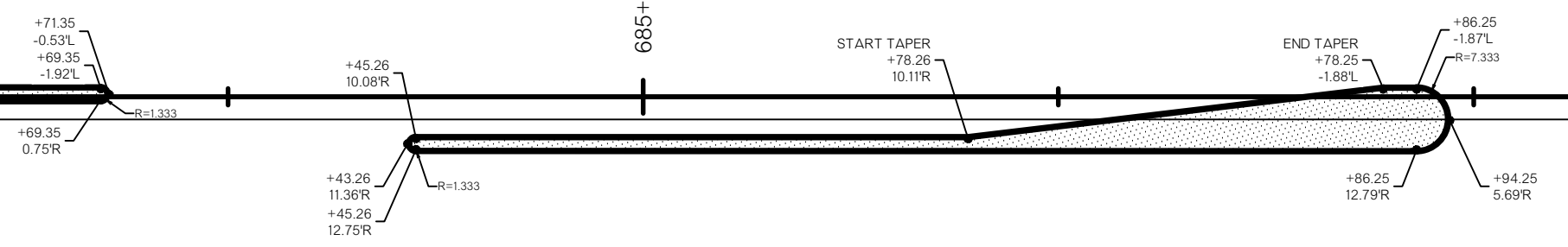
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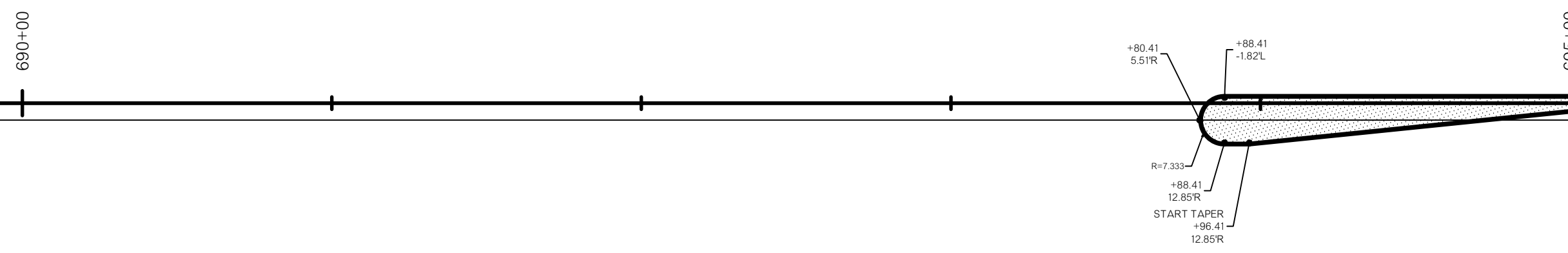
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MATCHLINE STA. 689+00



MATCHLINE STA. 689+00

MATCHLINE STA. 695+00



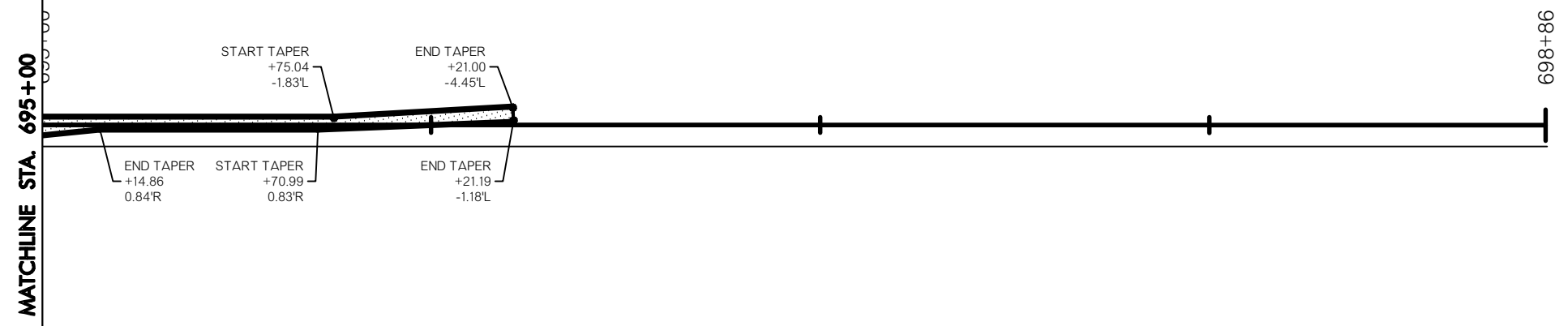
1418 E. P. I. P. S. S. 6.  
17th St. P.O. Box 1122/0023, 850 AM, Pitt. State, MOWCHROMESICTB  
OKLAHOMA DEPARTMENT OF TRANSPORTATION DESIGN/Production Plans/27108\_MEDIAN\_LAYOUT.dwg



OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
November 2023

**U.S. HIGHWAY 69**  
MEDIAN LAYOUT (6 OF 7)

MUSKOGEE COUNTY PROJECT NO. 27108(04) SHEET NO. R061



11/13/23 10:51 AM  
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 mwo

OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FINAL FIELD MEETING**  
 November 2023

**U.S. HIGHWAY 69**  
 MEDIAN LAYOUT (7 OF 7)  
 MUSKOGEE COUNTY PROJECT NO. 27108(04) SHEET NO. R062

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA				
DESCRIPTION		REVISIONS	DATE		

STATE OF OKLAHOMA  
DEPARTMENT OF TRANSPORTATION  
SURVEY DIVISION

SWO 4933 (1) J/P 27108(04) ; MUSKOGEE CO.

HORIZONTAL CONTROL:  
 Oklahoma Coordinate System of 1927 Zone.  
 Oklahoma Coordinate System of 1983 North Zone.  
 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 STATE PLANE COORDINATE SYSTEM NAD83(93)

1. Primary Control adjusted to NAD 83(93) OK-NORTH 1 Order  
 Stations LUX, MUSKPORT  
 A) Closure before adjustment X ; Y Angles ; 1:  
 Trav. Length ; No. Angles ; is ( ) Order before adjustment.  
 B) ; ;  
 C) Method of Distance Measurement: ( ) Electronic (X) GPS ( ) Triangulation ( ) Chained  
 ( ) Electronic (X) GPS ( ) Triangulation ( ) Chained  
 D) Instrument used for angles SOKKIA GRX1,GRX2 3 Order

2. Secondary Control adjusted to Primary Control  
 Stations M-51-980-M-51-985 LUX; MUSKPORT  
 A) Closure before adjustment X ; Y Angles ; 1:  
 B) ; ; is 3RD Order; Tied to  
 C) of Distance Measurement: (X) Electronic ( ) GPS ( ) Triangulation ( ) Chained  
 (X) Electronic ( ) GPS ( ) Triangulation ( ) Chained  
 D) Instrument used for angles SOKKIA SET 3 SERIES

VERTICAL CONTROL 3 order. Level Line taken from O-56-431  
 3 order and tied ODOT STA M51-4 2 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.)

STATE OF OKLAHOMA  
DEPARTMENT OF TRANSPORTATION

SURVEY OF  
U.S. HIGHWAY 69  
SWO 4933(1)  
J/P NO. 27108(04)  
OKLAHOMA  
FROM U.S. 64 (PEAK BLVD) NORTH 3 MILES  
TO U.S. 64-B (OKMULGEE AVE) IN MUSKOGEE

INDEX OF SURVEY SHEETS

- 1 TITLE SHEET
- 2-3 HISTORICAL LETTER
- 4 CHECK LEVEL LIST & ALIGNMENT DATA
- 5 COGO POINTS
- 6 HORIZONTAL CONTROL DIAGRAM
- 7-9 SURVEY DATA SHEETS
- 10-17 GEOMETRIC DATA SHEETS

STATE OF OKLAHOMA  
DEPARTMENT OF TRANSPORTATION

SWO No. 4933(1) Job/Piece 27108(04)

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:

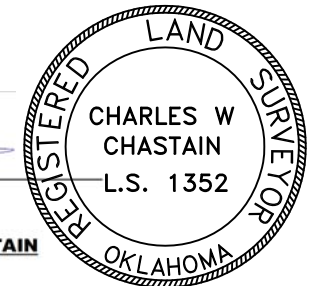
- Applicable instructions contained in the U.S. Government Bureau of Land Management publication "Manual of Survey Instruction",
- Its supplement, "Restoration of Lost or Obliterated Corners and Sub-division of Sections";
- "Oklahoma Minimum Standards for the Practice of Land Surveying" as adopted by 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 MAY 6, 2016

Land Surveyor Charles W. Chastain  
Signature

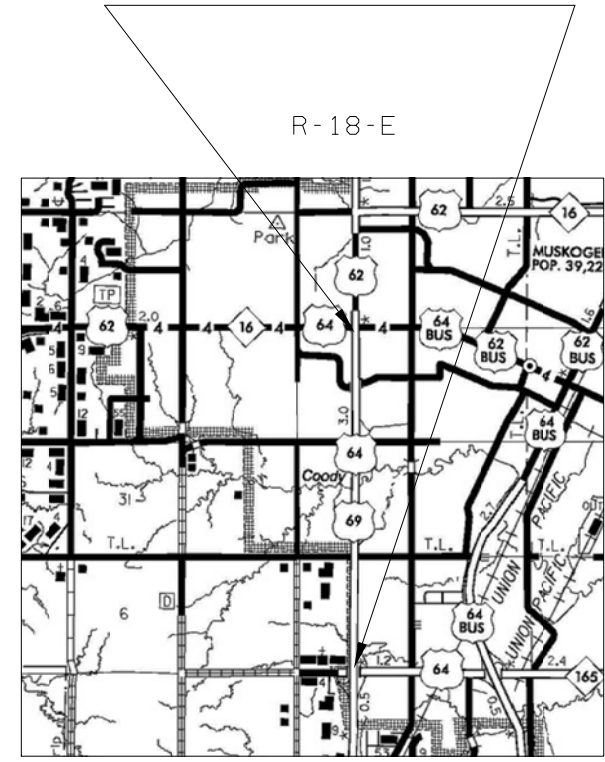


CHARLES W. CHASTAIN  
Printed Name

Oklahoma Licensed Land Surveyor No. 1352

Certificate of Authorization No. 219

SURVEY EXTENTS



PROJECT LENGTH 15,813.53 FT. 3.000 MI.

BEGINNING STATION +540+72.83  
ENDING STATION +698+86.36

Distribution:  
Copy w/survey reports  
Copy in each Alignment  
and level book  
(FORM SD #20)  
Rev. 11/03

Charles W. Chastain  
Professional Land Surveyor  
5-May-16  
Date

UTILITIES

FIBER OPTIC (UNDERGROUND):  
AT&T  
(405) 250-7645  
ATTEN: GREG GILLY

ELECTRIC:  
OKLAHOMA GAS & ELECTRIC  
321 NORTH HARVEY AVENUE  
OKLAHOMA CITY, OK 73102-3405  
(405) 553-3000

WATER:  
CITY OF MUSKOGEE  
P.O. BOX 1927  
MUSKOGEE OK 74402-1927  
(918) 682-6602

GAS:  
OKLAHOMA NATURAL GAS  
401 N. HARVEY  
OKLAHOMA CITY, OK 73101  
(800) 664-5463

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 JANUARY 2011 GOVERN.

SDS S1 OF S12

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DRAWN	-
CHECKED	CWC
APPROVED	
CREW	

SURVEY DATA SHEET

SWO 4933(1) PROJECT NO. 24761(04) SHEET NO. S1

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA				
DESCRIPTION			REVISIONS		DATE

OKLAHOMA DEPARTMENT OF TRANSPORTATION MAY 8, 2016

To: Mr. W. Leroy Tacket, Chief of Surveys

From: Charles W. Chastain, Professional Land Surveyor

Subject: SWO 4933(1)) J/P No. 27108(04)- U.S. 69- Muskogee county  
Us 69 from us 64 (Peak Blvd). North 3 miles to Us64-B (Okmulgee Ave. in Muskogee

Historical Letter & Written Report

1. General

Survey Began: February 18, 2016  
Survey Completed: November 15, 2015

Personnel on this survey:

Charles W. Chastain, PLS  
Josh Rowan Party Chief  
Sean Johnsey Survey Tech  
Byron Rogers Survey Tech  
Earnest Faulconer Survey Tech

2. Assignment

This survey was assigned to me by the Transportation Survey Manager via a Survey Scope and Special Provision letter dated November 3, 2013 . The Survey Crew, under the direct supervision of Mr. Charles W. Chastain, PLS, began work on the project on February 18, 2015 .

3. Purpose

The purpose of this survey is to obtain adequate information for the design and reconstruction of the Roadway.

4. Limit- 300 feet left and 300 feet right of the center line of US 69

This survey began on POT station 540+72.83 to P.O.T. Station 698+86.37 U.S Highway 69 as shown on FAP No. U-593(29) plans and at Assigned POT 10+00 to 30+00 of the Pedestrian Trail,(Formerly Midland Valley Railroad connection

SWO 4933(1)) Muskogee County  
Historical Letter & Written Report  
Page 2 of 4

5 Alignment

The centerline of survey is along the Identical centerline of US. Highway 69 established by recovered reference iron pins as shown in SWO 2725(1) survey and FAP No. U-593(29) plans. The alignment consist of a Tangent from POT Station 540+72.83 to POT Station 566+87.33 to POT SAT 593+31.89 to POT STA 619+72.41 to POT STA 646+06.85 to POT STA 652+78.34 to POT STA 698+86.37  
The centerline of the Trail survey was set from a intersecting point of the Us 69 centerline being 20+00 And extending 1000 feet each way along the center of the trail creating a beginning station of 10+00 and an ending station of 30+00

Stationing (A001) was established along US Highway 62by setting the P.O.T. station 540+72.83 from ties shown on the FAP No U-593(29) plans then continuing ahead along the center line of U.S. Highway 69 to station 698+86.37. Existing iron pins were found on reference lines along the center line of US Hwy 69.

Field measurements reveal the following information.

My survey comparison to the plans stated above measurements revealed a difference of 0.22 feet overall from the measurements as recorded along us highway 69, being a minimal amount of measurement difference.

Stationing (A002) was established along the centerline of the Pedestrian Trail as mentioned earlier in this letter.

7 Horizontal Control:

Horizontal Control for this survey is NGS Oklahoma State Plane Coordinate System, Lambert Projection, North Zone, derived by static GPS Methods at 2 control points at each end of the Survey at ODOT Stations M-51-980 and M-51-986. NGS stations Muskport and "LUX" was utilized is establishing and to verify project coordinates.

a) Static GPS methods were used to establish the following Secondary Control point No. M-51-981 through M-51-985 all of which are rebars with surv- caps set at the project location.

b) A ground measurement was taken between the 7 secondary control points to verify static GPS method distances.

c) All data contained in this survey is Grid Data, No Transformation was made to correct to the surface. Coordinates on the state plane grid do not reflect actual ground distances.

8. Vertical Control:

a) Vertical Control for this survey is NAVD88.

b) Vertical Control Points:

Derived from differential levels utilizing Odot Station M-51-4 also used as BM No. 2  
In this Survey

c) Differential leveling method was utilized to verify difference between all control points established by GPS methods and to set vertical Benchmark elevations for this Project.

SDS \_\_\_\_\_ OF \_\_\_\_\_

PLS				OKLAHOMA DEPARTMENT OF TRANSPORTATION
DRAWN				SURVEY DIVISION
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CREW				
				SWO 4933(1))PROJECT NO. 27108(04)SHEET NO. S2

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA				
DESCRIPTION		REVISIONS		DATE	

**SWO 4933(1) Muskogee County  
Historical Letter & Written Report  
Page 3 of 4**

d) All leveling was conducted with a Sokkia BC20. The project level control began on primary control station M-51-4 as shown on survey data sheet S5 of SWO 3822 (1) , then run through the project corridor to BM 1 thru BM 19 and through secondary control points 7400-7407 then back thru BM 19 to Station M-51-4

A benchmark list depicting newly established benchmarks, as well as results of the control leveling has been placed in the archived Microstation Design File.  
(See: SUBMITTED DATA BELOW).

**9. Measurement Units:**

The distances, coordinates, and elevations shown on this survey are in US SURVEY FEET. All angles and bearings shown are in degrees, minutes, and seconds.

**10. Photo Controls:**

There are no photo control points on this project.

**11. Topography:**

All topography information was obtained during the course of this survey by GPS RTK along with field conventional methods as directed by the ODOT Survey Specifications for primary and secondary highways.

**12. Cross Section/DTM:**

All surface feature information was obtained during the course of this survey by field conventional methods. (See: SUBMITTED DATA BELOW).

**13. Underground Storage Tanks/Hazardous Waste Sites:**

There were no Underground storage tanks/ Hazardous Waste Sites encountered during this survey.

**14. Utilities:**

All utility companies servicing the project extents were contacted after first contacting OKIE, during the course of this survey. Survey Crew Personnel were provided a set of flags on the ground by utility companies or their specified agents to field locate all underground utilities. There were no depths on any line or pipe measured.

SDS \_\_\_\_\_ OF \_\_\_\_\_

**SWO 4933(1) -Okmulgee County  
Historical Letter & Written Report  
Page 4 of 4**

**15. Land Ties:**

Section 4 Township 14 North, Range 18 East of the IM, and sections 28 and 33, Township 15 North, Range 18 East IM were surveyed within this survey by first checking the recorded corner records and field locating and verifying the position of existing corners and checking accuracies by applying The Oklahoma minimum standards for land surveys

**16. Data Submitted:**

**A. Reports:**

- 1) Transmittal Letter.
- 2) ODOT Form SD-7, Public and Privately Owned Utility List.
- 3) ODOT Form SD-11, Control Point Form, for Control points M-51-980-m-51986
- 4) ODOT Form SD-20, Survey Control.
- 5) ODOT Form SD-41, Surveyor's Certification.
- 6) COGO Data (Coordinate List With Alignments).
- 7) Benchmark and Check Level List.

**B. Computer Files:= 1 DGN file of entire survey**

Respectfully Submitted,

Charles W. Chastain, PLS

Date 05/08/2016

OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION		
PLS	CWC	
DRAWN	-	
CHECKED	CWC	
APPROVED		
CREW		
SURVEY DATA SHEET		
SWO 4933(1) PROJECT NO. 27108(04)		SHEET NO. S3

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA				
DESCRIPTION		REVISIONS		DATE	

BENCH MARK DESCRIPTION LIST NAVD88 DATUM

BM 1	590.84	CHISELED X IN CONC. HDWLL 59' LT 539+50.4 US 69
BM 2	588.08	OSHD MON M-51-4 260.3 RT 553+72.4 US 69
BM 3	595.34	CHISELED X ON TOP CONCRETE AT FLAG POLE. 261.8 RT 560+42.5 US 69
BM 4	595.08	CHISELED BOX SW COR SIDE WALK @ ANTIQUE MALL 153 RT 567+20.7
BM 5	593.72	CHISELED X ON TOP CONC DRIVEWAY 297 RT 580+53.5 SH 69
BM 6	594.02	3" BRASS MON-CITY OF MUSKOGEE NETWORK STA H-24 FLUSH W/ GROUND 76.2 RT. 592+51.6
BM 7	593.28	CHISELED BOX IN CONCRETE PARKING LOT ANTIQUE MALL 213.4 LT 596+13 US 69
BM 8	589.83	CHISELED X IN NW COR CONC DRIVE 99 RT 607+73 US 69
BM 9	584.12	CHISELED X IN SW COR CONC DR. 239.7 RT. STA 615+36 US 69
BM 10	576.07	CHISELED X IN WEST HDWL 521 LT STA 625+18.3 US 69
BM 11	573.77	CHISELED BOX IN SW COR SIDEWALK 125 RT STA 638+82 US 69
BM 12	590.88	3" BRASS MON-CITY OF MUSKOGEE NETWORK STA V-19 134+4 RT. STA 646+25
BM 13	583.06	CHISELED X IN SW COR SIDEWALK 116.4 RT STA 656+67.8 US 69
BM 14	587.29	CHISELED X ON N. SIDE CONC ISLAND 100' RT STA 663+67.7 US 69
BM 15	593.61	CHISELED BOX ON SE COR SIDEWALK AT KUM AND GO 166.9 RT STA 670+24.2 US 69
BM 16	595.97	CHISELED X ON TOP CURB AT OLD DINER 185J LT STA 677+67.6 US 69
BM 17	607.08	CHISELED X ON TOP CURB AT THE CLINIC 229.7 RT 683+79.85
BM 18	614.49	CHISELED X ON SW COR SIDEWALK AT SW COR BUILDING 113.3 RT STA 692+45.8 US 69
BM 19	612.46	CHISELED X ON STEP AT SE COR SMALL BLDG 158' LT STA 699+42 US 69

EXISTING ALIGNMENT REPORT

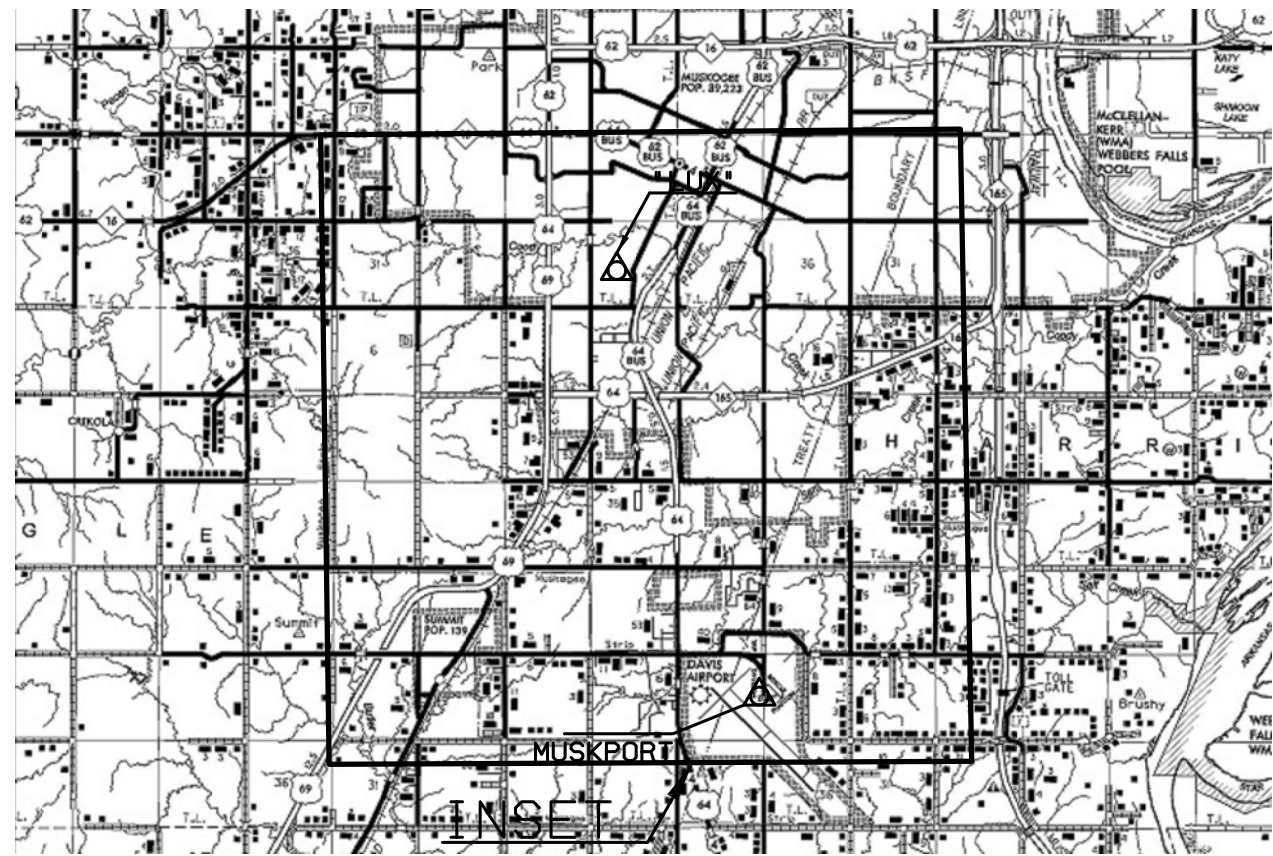
Project Name: SWO 4933(1) MUSKOGEE COUNTY.  
Horizontal Alignment Name: A001  
Description: CL Survey PRESENT HIGHWAY US-69 From FAP No. U-593(29), Style: Centerline  
Element: Linear

STATION	EASTING	NORTHING
300 P.O.T 540+72.83	2739504.8104	269331.0604
	TANGENT DIRECTION N0716°12.80'W TANGENT DISTANCE 2614.50	
302 P.I 566+87.33	2739446.8530	271944.9140'
	TANGENT DIRECTION N0715°12.73'W TANGENT DISTANCE 2644.56	
305 P.I 593+31.89	2739388.9990'	274588.8430'
	TANGENT DIRECTION N0715°20.81'W TANGENT DIRECT. 2640.52	
306 P.I 619+72.41	2739331.1300'	277228.7300'
	TANGENT DIRECTION N0714°57.57'W TANGENT DIRECT 2634.44	
308 P.I 646+06.85	2739273.6910'	279862.5470'
	TANGENT DIRECTION N0714°20.49'W TANGENT DIRECT. 671.49	
310 P.I 652+78.34	2739253.8990'	280533.7450'
	TANGENT DIRECTION N0713°59.69'W TANGENT DIRECT. 4608.02	
330 P.O.T 698+86.37	2739119.8940'	285139.8290'

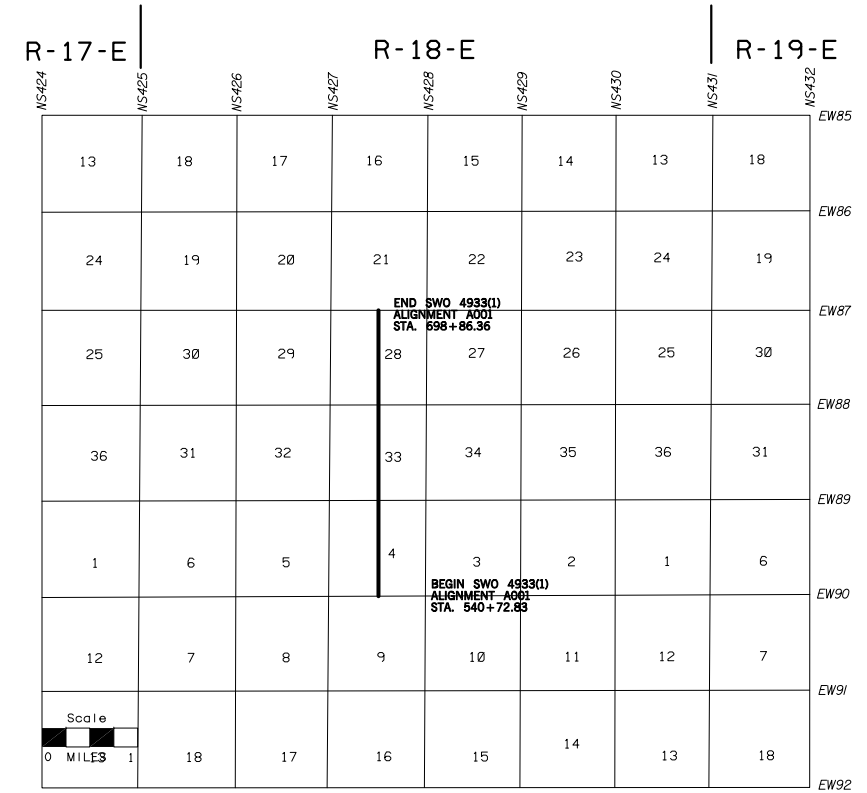
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PLS	CWC		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN			
CHECKED	CWC		
APPROVED			
CREW			
			SURVEY DATA SHEET
			SWO_4933(1)PROJECT NO. 27108(04)SHEET NO. S4





INSET



PROJECT GPS DATA

SWO 4933(1) MUSKOGEE COUNTY OKLAHOMA

Project Summary

Project name: US 69 REDO.tpt  
 Surveyor:  
 Comment:  
 Linear unit: USFeet  
 Projection: SPC83-Oklahoma (North)  
 Geoid: g2012au6  
 Adjustment Summary

Adjustment type: Plane + Height, Minimal constraint  
 Confidence level: 95 %  
 Number of adjusted points: 3  
 Number of plane control points: 1  
 Number of used GPS vectors: 2  
 A posteriori plane UWE: 1 , Bounds: ( 1 , 1 )  
 Number of height control points: 1  
 A posteriori height UWE: 1 , Bounds: ( 1 , 1 )

Used GPS ObservationsName dN (USft) dE (USft) dHt (USft) Horizontal Precision (USft) Vertical Precision (USft) 7400-3-5-15\_ZAXC-muskport3-5-15\_610I  
 -16819.604 12631.233 -77.780 0.008 0.013 7407-3-5-15\_ZAXC-muskport3-5-15\_610I  
 -34066.167 13382.194 -25.443 0.014 0.023

GPS Observation ResidualsName dN (USft) dE (USft) dHt (USft) Horizontal Precision (USft) Vertical Precision (USft) 7400-3-5-15\_ZAXC-muskport3-5-15\_610I  
 -16819.604 12631.233 -77.780 0.008 0.013 7407-3-5-15\_ZAXC-muskport3-5-15\_610I  
 -34066.167 13382.194 -25.443 0.014 0.023

Control PointsName Grid Northing (USft) Grid Easting (USft) Elevation (USft)  
 Code muskport3-5-15\_610I 251264.177 2752408.301 590.620

Adjusted PointsName Grid Northing (USft) Grid Easting (USft) Elevation (USft)  
 Code 7400-3-5-15\_ZAXC 268083.781 2739777.068 571.391 7407-3-5-15\_ZAXC  
 285330.344 2739026.107 519.054

SOKKIA SPECTRUM STATIC GPS POST PROCESS DATA

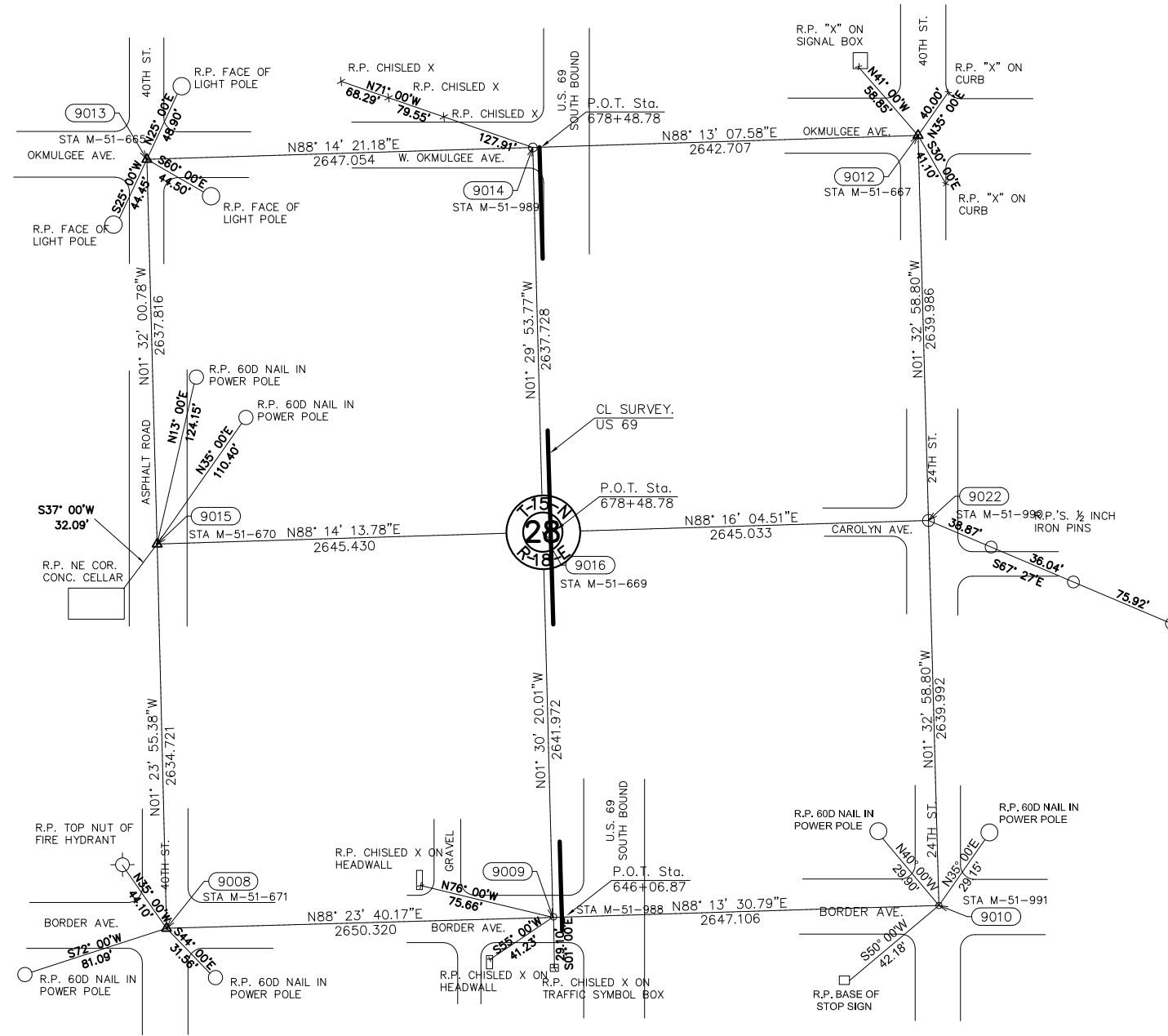
7400-3-5-15\_ZAXC 35°42'29.18161"N 95°24'06.65589"W 571.391  
 7407-3-5-15\_ZAXC 35°45'19.88389"N 95°24'10.16489"W 519.054  
 muskport3-5-15\_610I 35°39'39.53083"N 95°21'39.09398"W 590.620

SDS \_\_\_\_\_ OF \_\_\_\_\_

PLS	CWC		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN			
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CREW			SURVEY DATA SHEET
SWO_4933(1)PROJECT NO. 27108(04)SHEET NO. S6			



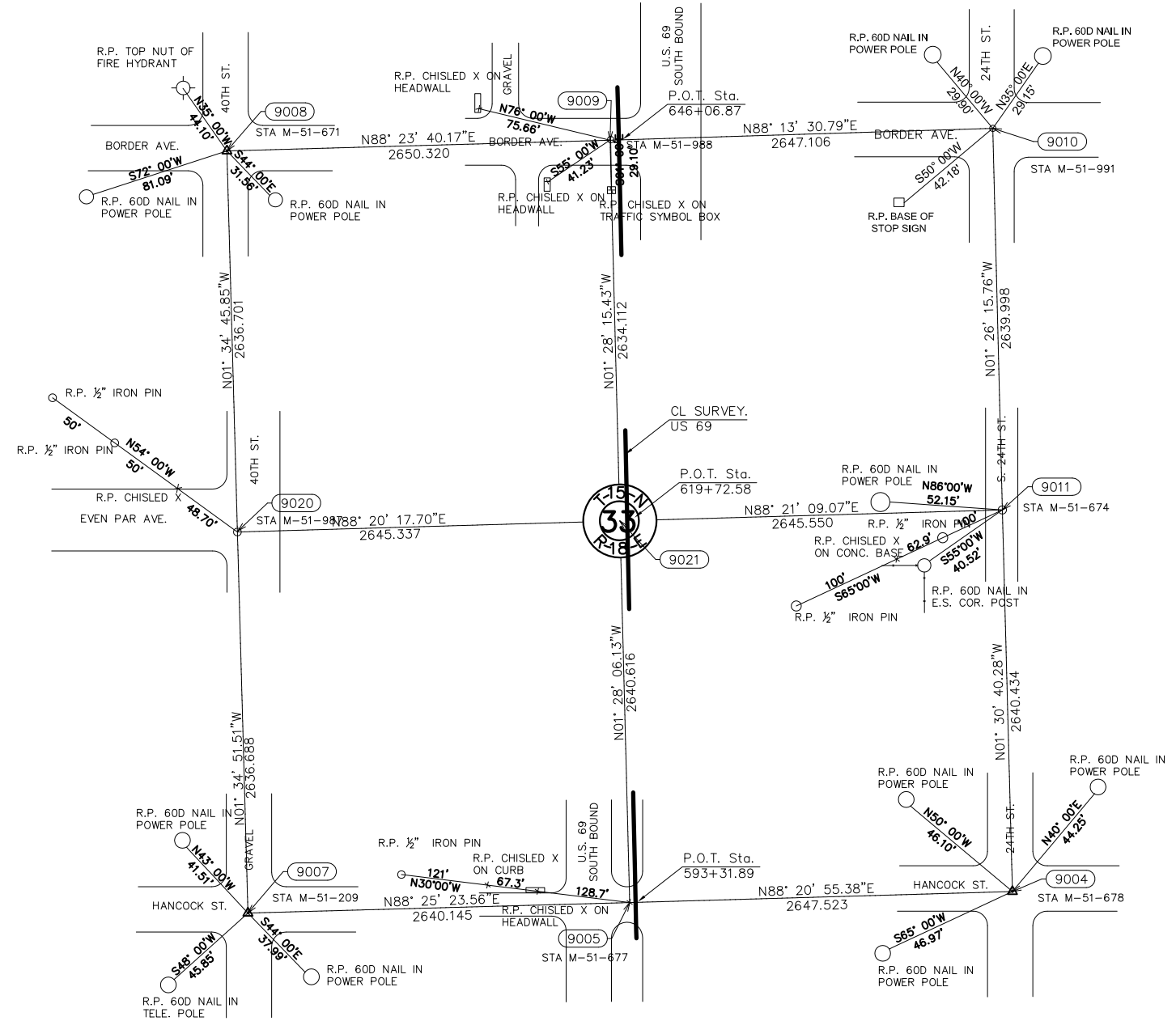
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6	OKLA				
DESCRIPTION		REVISIONS		DATE	



NOTE: REFERENCE'S SHOWN ARE NOT TO SCALE

PLS	CWC	OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	DC	
APPROVED		SURVEY DATA SHEET
CREW		
		SWO <u>4933(1)</u> PROJECT NO. <u>27108(04)</u> SHEET NO. <u>S7</u>

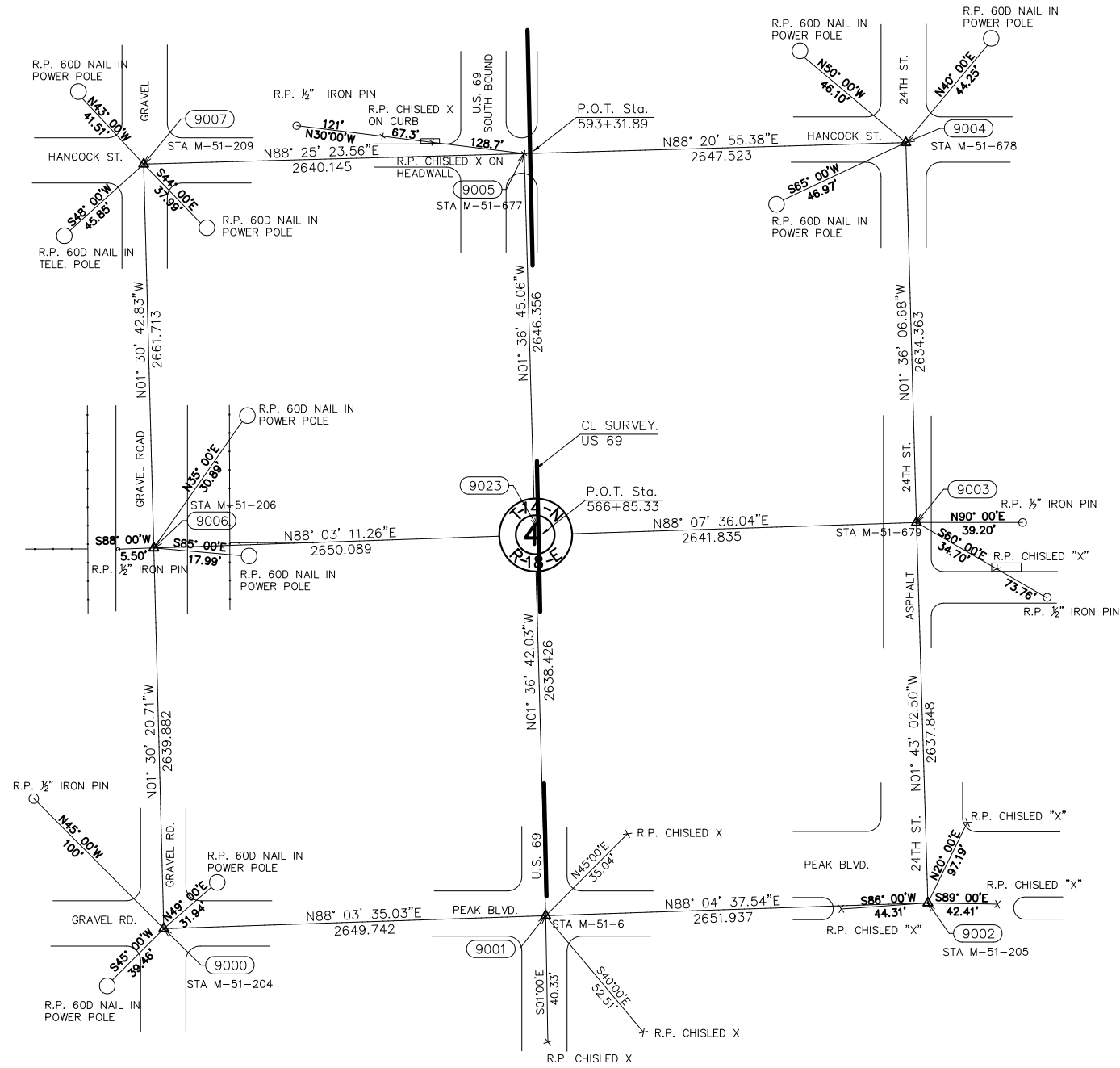
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DESCRIPTION		REVISIONS		DATE	



NOTE: REFERENCE'S SHOWN ARE NOT TO SCALE

PLS	CWC	OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN	DC	SURVEY DIVISION	
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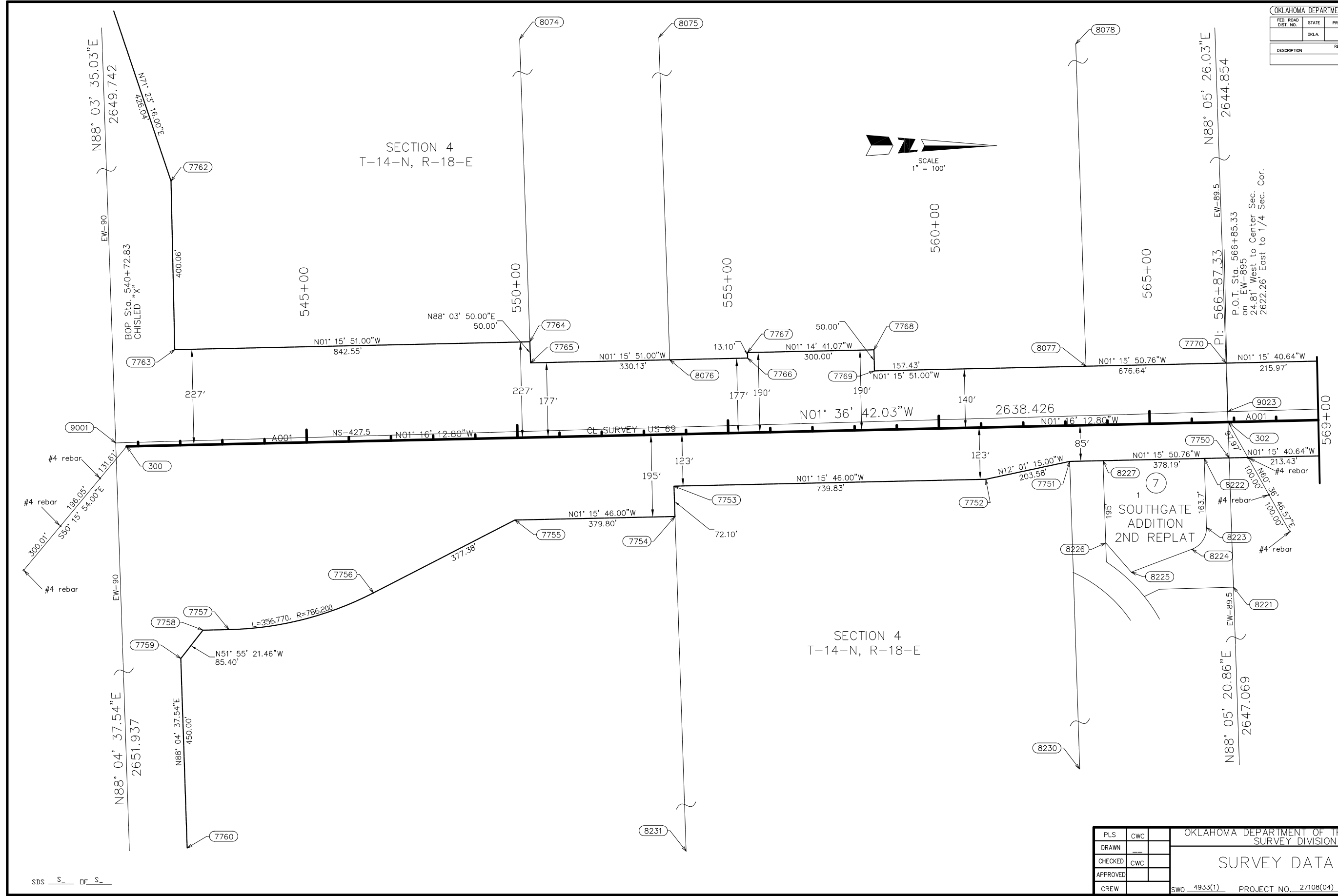
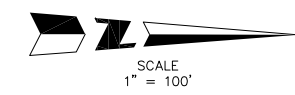
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DESCRIPTION		REVISIONS		DATE	



NOTE: REFERENCE'S SHOWN ARE NOT TO SCALE

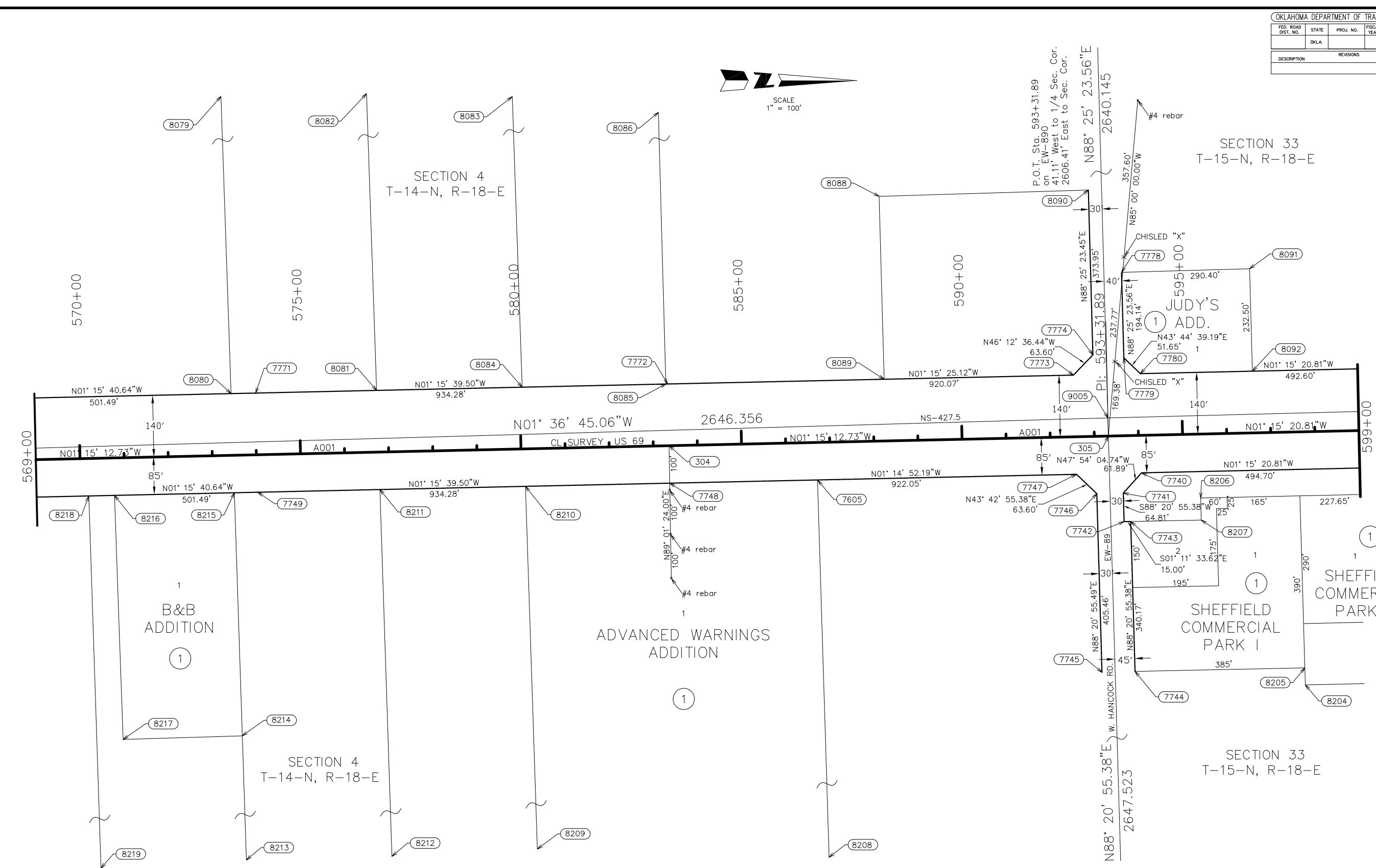
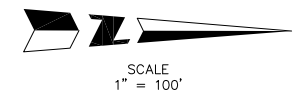
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DRAWN	DC	SURVEY DIVISION	
APPROVED		SURVEY DATA SHEET	
CREW			
		SWO 4933(1)	PROJECT NO. 27108(04) SHEET NO. S9

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA				
DESCRIPTION		REVISIONS		DATE	



SDS S OF S

OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION			
PLS	CWC		
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		SURVEY DATA SHEET	
		SWO 4933(1) PROJECT NO. 27108(04) SHEET NO. S10	



SOS S OF S

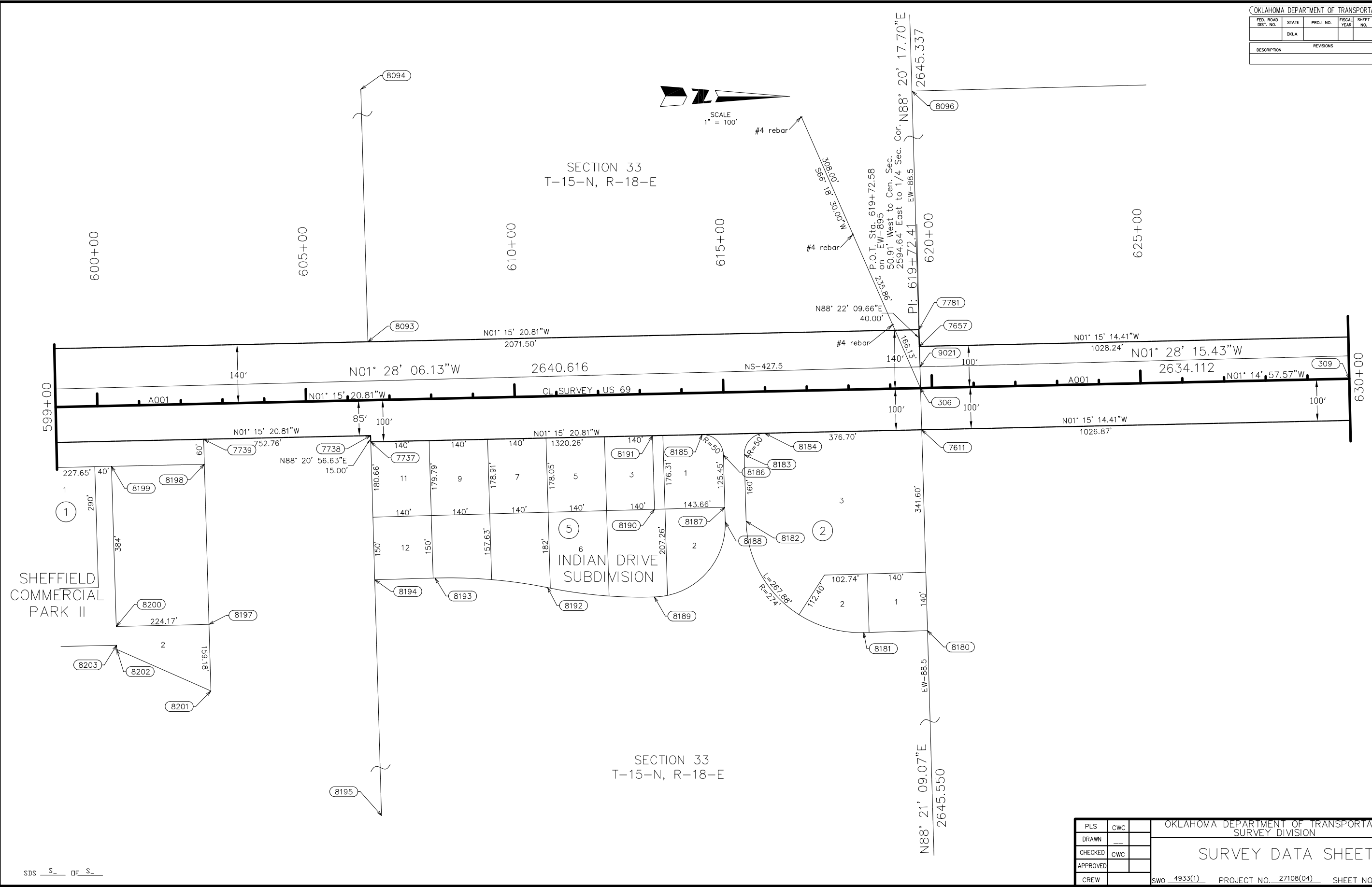
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DRAWN	—		SURVEY DIVISION
CHECKED	CWC		
APPROVED			
CREW			
SWO	4933(1)	PROJECT NO. 27108(04)	SHEET NO. S11

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA				
DESCRIPTION		REVISIONS		DATE	



SCALE  
1" = 100'

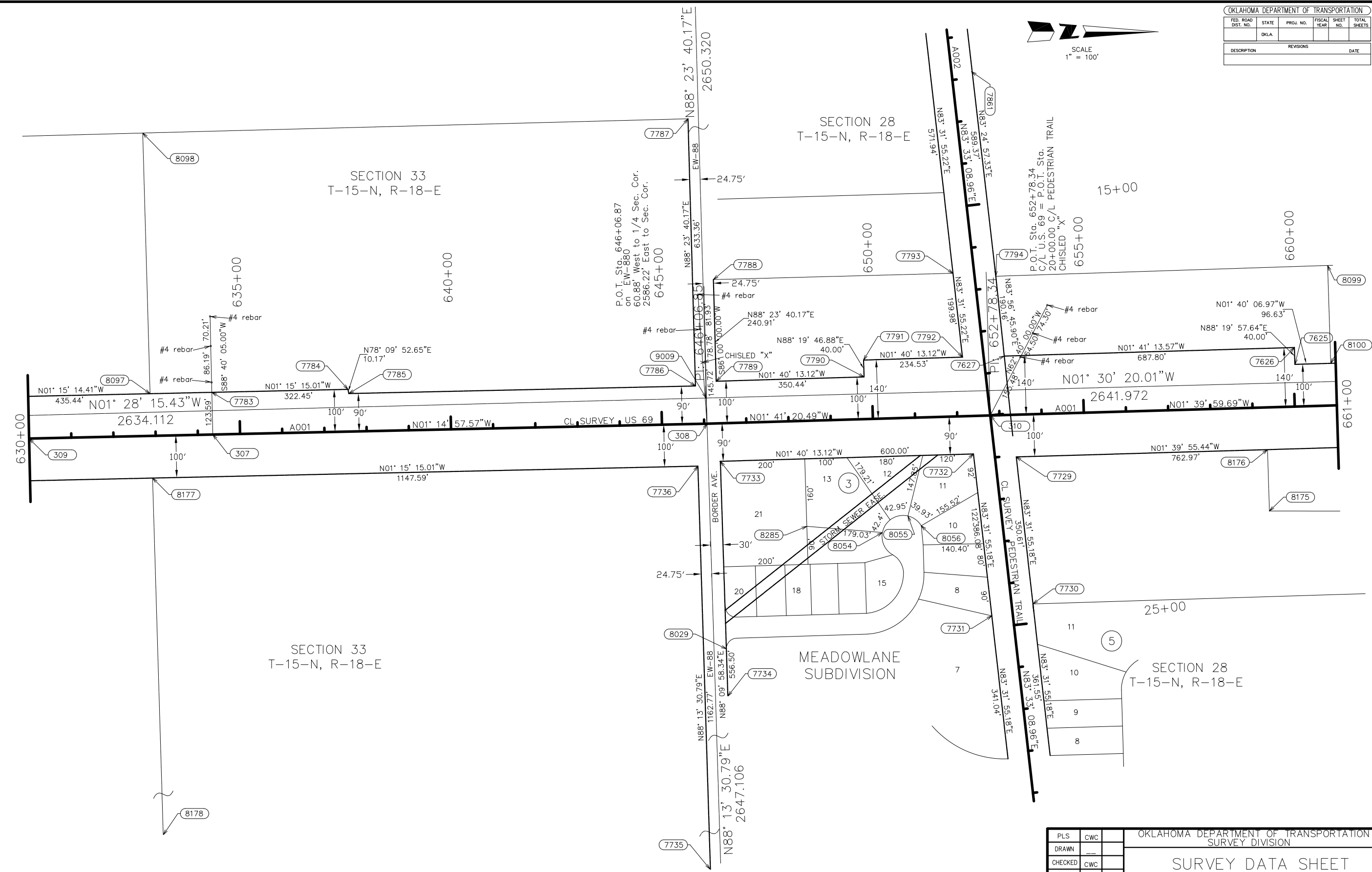
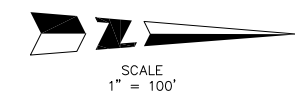
SECTION 33  
T-15-N, R-18-E



SDS S\_ OF S\_

OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION		
PLS	CWC	
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APPROVED		
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SURVEY DATA SHEET		
SWO 4933(1) PROJECT NO. 27108(04) SHEET NO. S12		

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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SDS S OF S

OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION	
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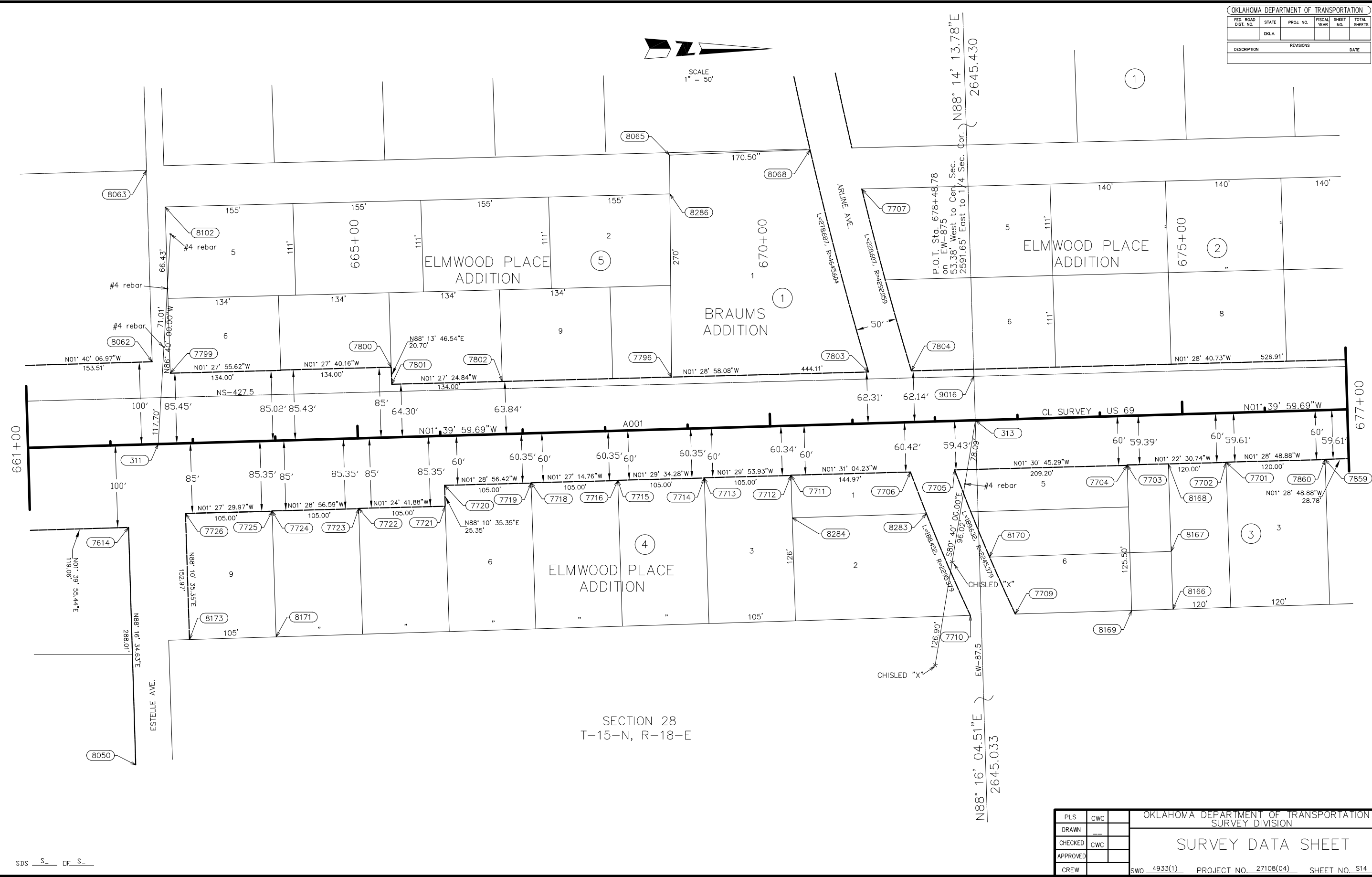
**SURVEY DATA SHEET**

SWO 4933(1) PROJECT NO. 27108(04) SHEET NO. S13

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA				
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SCALE  
1" = 50'



SECTION 28  
T-15-N, R-18-E

OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION	
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SURVEY DATA SHEET

SWO 4933(1) PROJECT NO. 27108(04) SHEET NO. S14

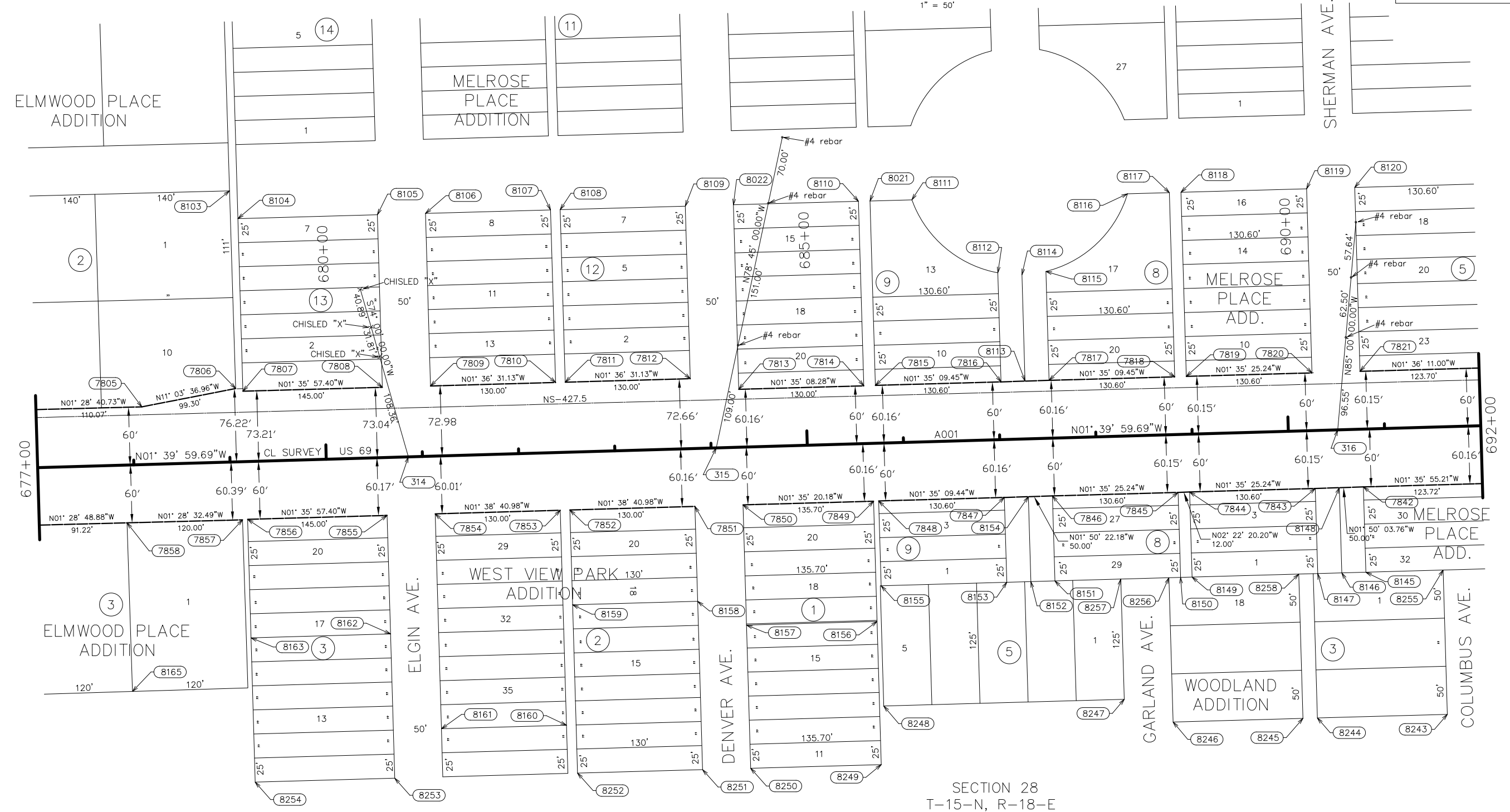
SDS S\_ OF S\_



OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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DESCRIPTION		REVISIONS		DATE	



SCALE  
1" = 50'



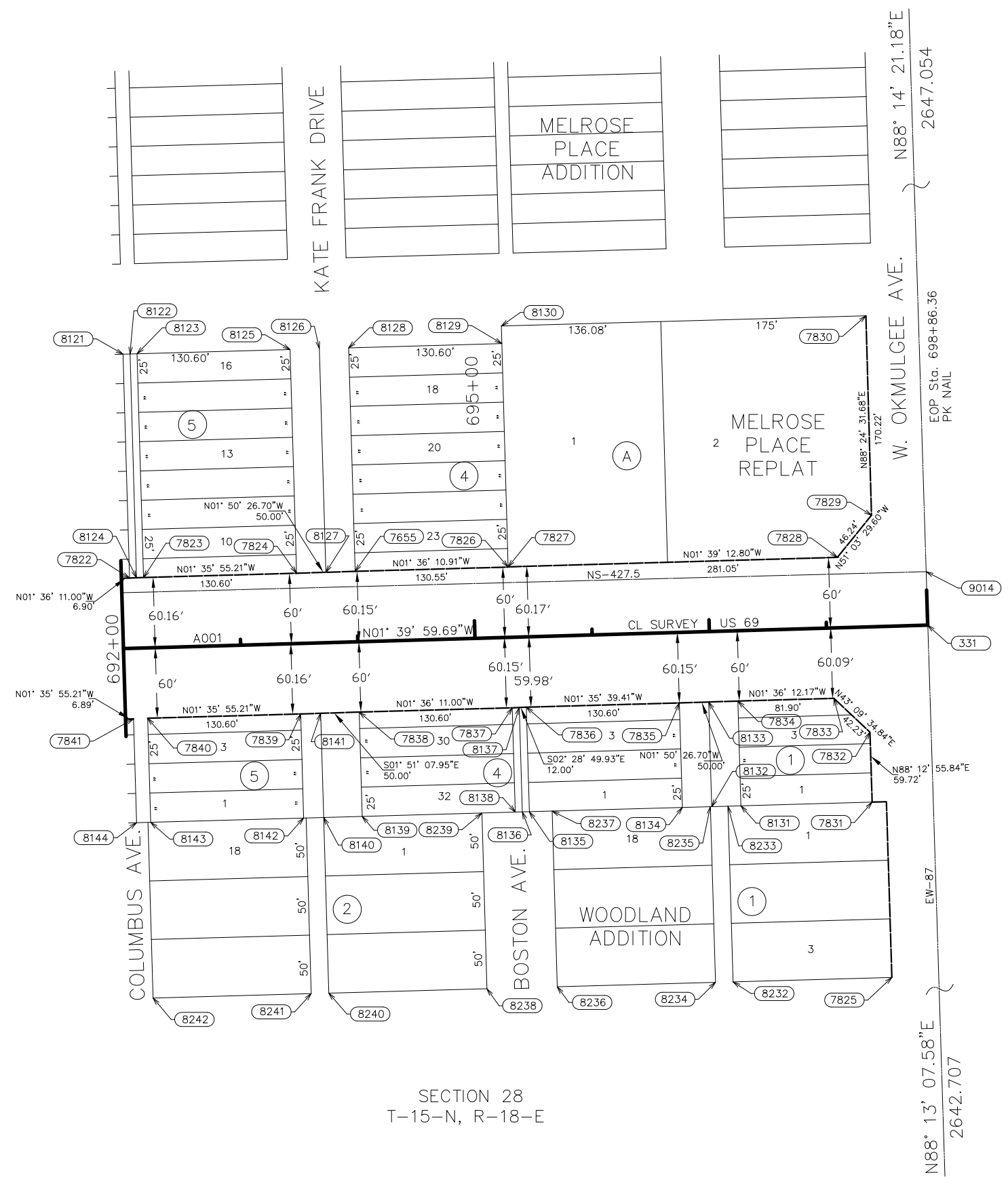
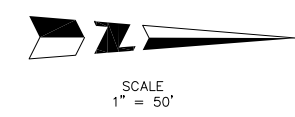
SDS S OF S

OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION	
PLS	CWC
DRAWN	
CHECKED	CWC
APPROVED	
CREW	

SURVEY DATA SHEET

SWO 4933(1) PROJECT NO. 27108(04) SHEET NO. S15

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA				
DESCRIPTION			REVISIONS		DATE



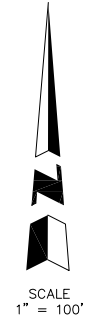
SDS    OF   

OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION			
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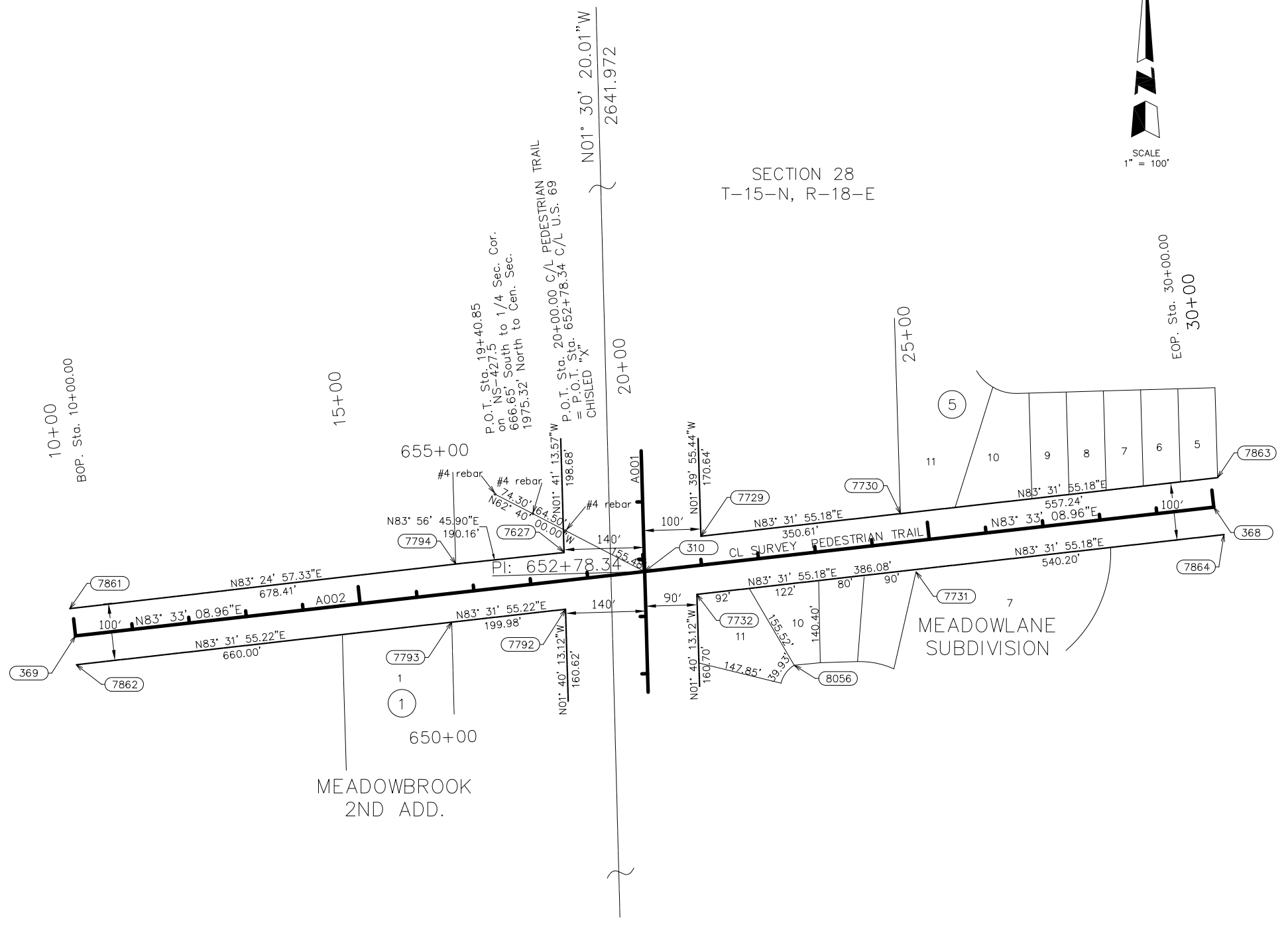
SURVEY DATA SHEET

SWO 4933(1) PROJECT NO. 27108(04) SHEET NO. S16

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA				
DESCRIPTION		REVISIONS		DATE	

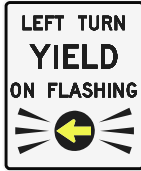


SECTION 28  
T-15-N, R-18-E



SDS   5   OF   5  

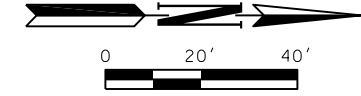
PLS	CWC	OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	---	
CHECKED	CWC	
APPROVED		
CREW		SWO <u>4933(1)</u> PROJECT NO. <u>27108(04)</u> SHEET NO. <u>S17</u>



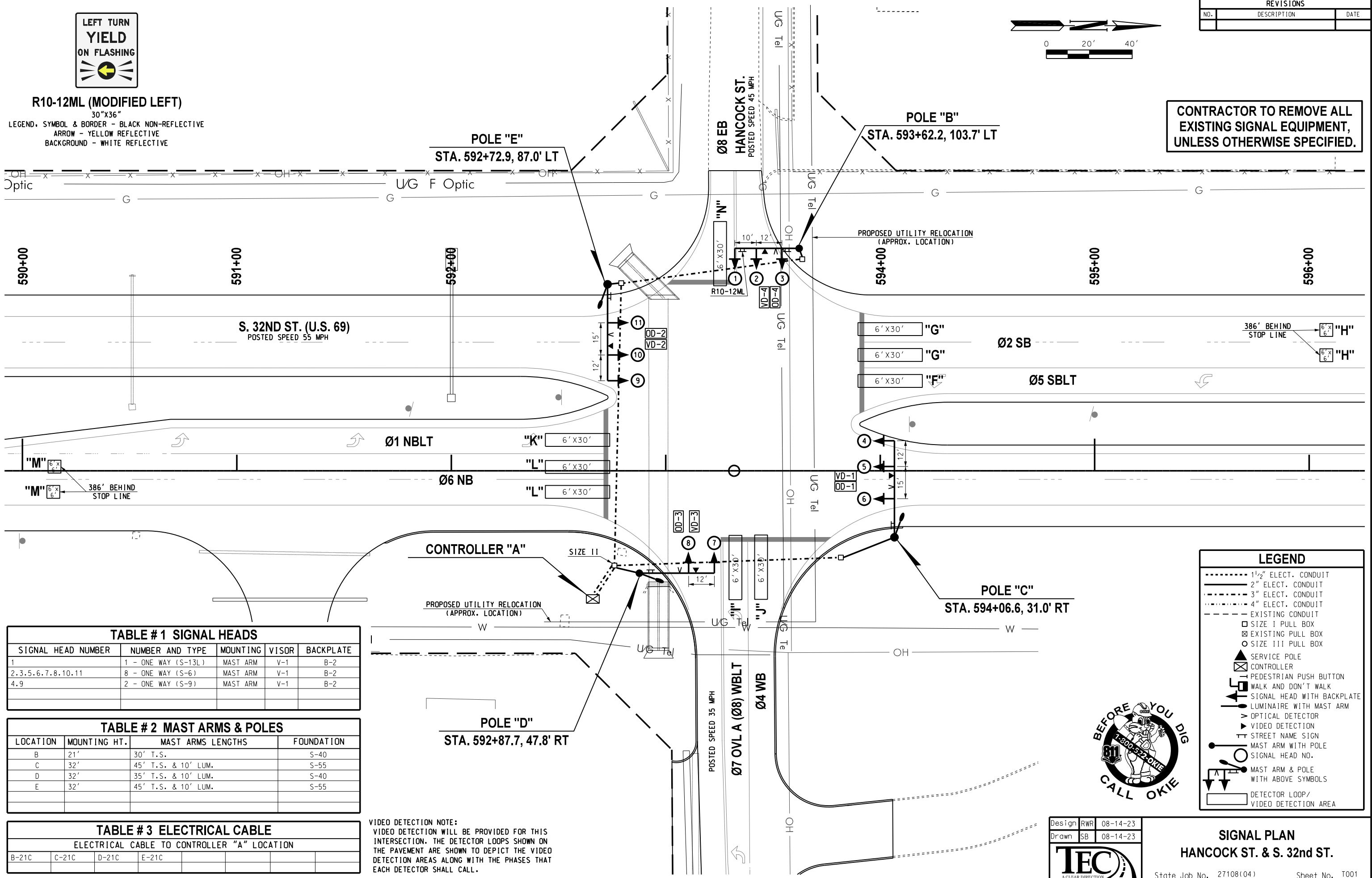
**R10-12ML (MODIFIED LEFT)**  
30"X36"

LEGEND, SYMBOL & BORDER - BLACK NON-REFLECTIVE  
ARROW - YELLOW REFLECTIVE  
BACKGROUND - WHITE REFLECTIVE

REVISIONS		
NO.	DESCRIPTION	DATE



**CONTRACTOR TO REMOVE ALL EXISTING SIGNAL EQUIPMENT, UNLESS OTHERWISE SPECIFIED.**



**TABLE # 1 SIGNAL HEADS**

SIGNAL HEAD NUMBER	NUMBER AND TYPE	MOUNTING	VISOR	BACKPLATE
1	1 - ONE WAY (S-13L)	MAST ARM	V-1	B-2
2, 3, 5, 6, 7, 8, 10, 11	8 - ONE WAY (S-6)	MAST ARM	V-1	B-2
4, 9	2 - ONE WAY (S-9)	MAST ARM	V-1	B-2

**TABLE # 2 MAST ARMS & POLES**

LOCATION	MOUNTING HT.	MAST ARMS LENGTHS	FOUNDATION
B	21'	30' T.S.	S-40
C	32'	45' T.S. & 10' LUM.	S-55
D	32'	35' T.S. & 10' LUM.	S-40
E	32'	45' T.S. & 10' LUM.	S-55

**TABLE # 3 ELECTRICAL CABLE**

ELECTRICAL CABLE TO CONTROLLER "A" LOCATION				
B-21C	C-21C	D-21C	E-21C	

**VIDEO DETECTION NOTE:**  
VIDEO DETECTION WILL BE PROVIDED FOR THIS INTERSECTION. THE DETECTOR LOOPS SHOWN ON THE PAVEMENT ARE SHOWN TO DEPICT THE VIDEO DETECTION AREAS ALONG WITH THE PHASES THAT EACH DETECTOR SHALL CALL.

**LEGEND**

- 1 1/2" ELECT. CONDUIT
- 2" ELECT. CONDUIT
- 3" ELECT. CONDUIT
- 4" ELECT. CONDUIT
- EXISTING CONDUIT
- SIZE I PULL BOX
- ⊠ EXISTING PULL BOX
- SIZE III PULL BOX
- ⊠ SERVICE POLE
- ⊠ CONTROLLER
- ⊠ PEDESTRIAN PUSH BUTTON
- ⊠ WALK AND DON'T WALK
- ⊠ SIGNAL HEAD WITH BACKPLATE
- ⊠ LUMINAIRE WITH MAST ARM
- ⊠ OPTICAL DETECTOR
- ⊠ VIDEO DETECTION
- ⊠ STREET NAME SIGN
- ⊠ MAST ARM WITH POLE
- ⊠ SIGNAL HEAD NO.
- ⊠ MAST ARM & POLE WITH ABOVE SYMBOLS
- ⊠ DETECTOR LOOP/VIDEO DETECTION AREA



Design	RWR	08-14-23
Drawn	SB	08-14-23

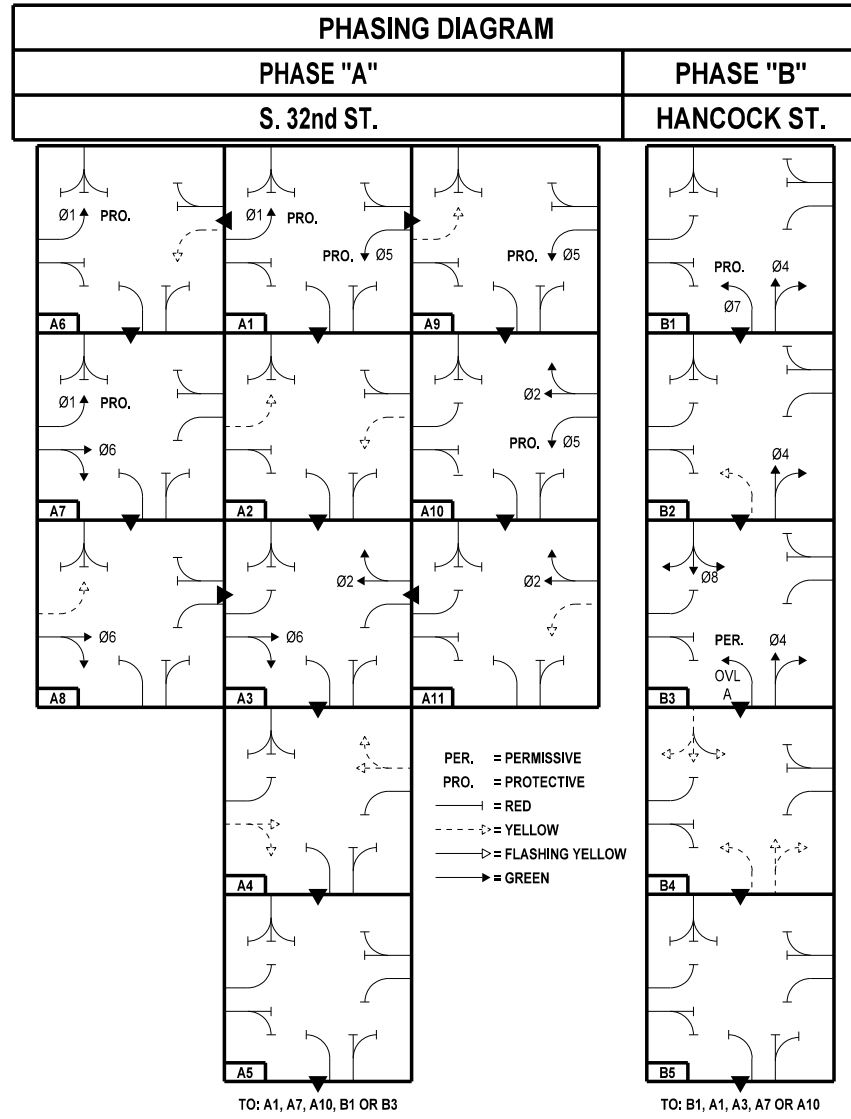


**SIGNAL PLAN**  
**HANCOCK ST. & S. 32nd ST.**

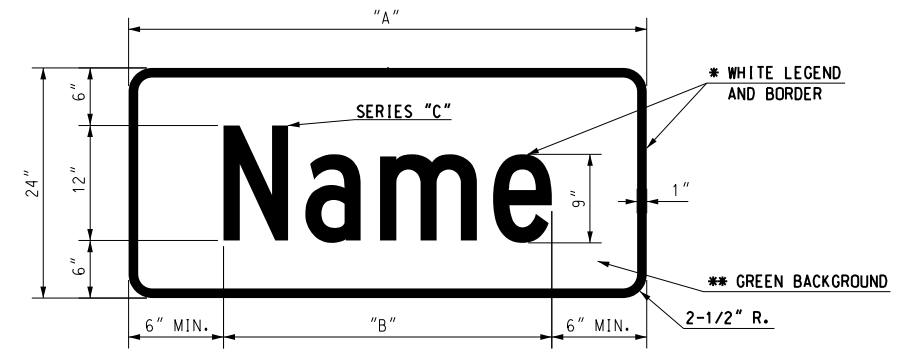
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08-14-23 G:\OP\Projects\1-2385A - S.D., S.S., LT. - EC-1576 US 69 Muskogee Plan Update\CAD\T001+2710804+SIGNAL PLAN\_HANCOCK ST. & S. 32nd ST.dgn

REVISIONS		
NO.	DESCRIPTION	DATE



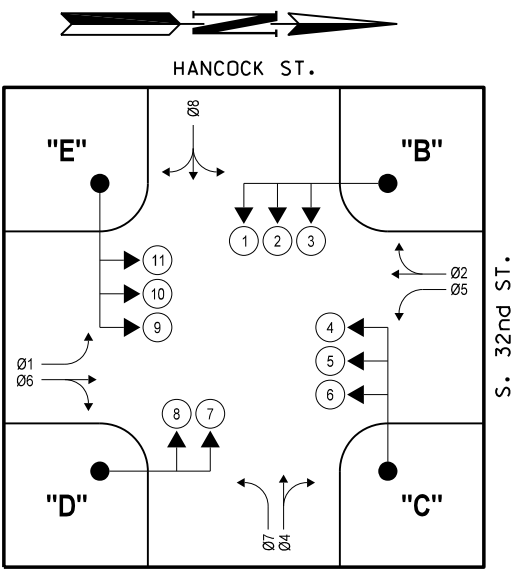
DIRECTION		BLOCK NO.	PHASE							
			Ø7 OVL A	Ø4	Ø1	Ø6	Ø8	Ø5	Ø2	
			SIGNAL HEAD NO.							
			1	2,3	4	5,6	7,8	9	10,11	
Ø1, Ø5 ROW	A1	←R	R	←G	R	R	←G	R		
Ø1, Ø5 CL	A2	←R	R	←Y	R	R	←Y	R		
Ø2, Ø6 ROW	A3	←R	R	←R	G	R	←R	G		
Ø2, Ø6 CL	A4	←R	R	←R	Y	R	←R	Y		
ALL RED	A5	←R	R	←R	R	R	←R	R		
Ø1 ROW & Ø5 CL	A6	←R	R	←G	R	R	←Y	R		
Ø1, Ø6 ROW	A7	←R	R	←G	G	R	←R	R		
Ø6 ROW & Ø1 CL	A8	←R	R	←Y	G	R	←R	R		
Ø5 ROW & Ø1 CL	A9	←R	R	←Y	R	R	←G	R		
Ø2, Ø5 ROW	A10	←R	R	←R	R	R	←G	G		
Ø2 ROW & Ø5 CL	A11	←R	R	←R	R	R	←Y	G		
Ø4, Ø7 ROW	B1	←G	G	←R	R	R	←R	R		
Ø4 ROW & Ø7 CL	B2	←Y	G	←R	R	R	←R	R		
Ø4, Ø8, OVL A ROW	B3	←F	G	←R	R	G	←R	R		
Ø4, Ø8, OVL A CL	B4	←Y	Y	←R	R	Y	←R	R		
ALL RED	B5	←R	R	←R	R	R	←R	R		
FLASHING OPERATION	--	←FR	FR	←FR	FR	FR	←FR	FR		



SUMMARY OF MAST ARM MOUNTED SIGNS							
MESSAGE	POLE LOCATION	NO. OF SIGN	A (IN.)	HEIGHT (IN.)	B (IN.)	SIGN AREA (SQ. FT.)	TOTAL SIGN AREA (SQ. FT.)
Hancock St	C.E	2	84	24	72.1	14.00	28.00
S 32nd St	B.D	2	78	24	64.2	13.00	26.00
R10-12ML	B	1	30	36	--	7.50	7.50
TOTAL							61.50

\* - TYPE VIII VIP REFLECTIVE SHEETING SHALL BE USED  
 \*\* - TYPE III VIP REFLECTIVE SHEETING SHALL BE USED

### INTERSECTION PHASING & SIGNAL HEAD NO.'S

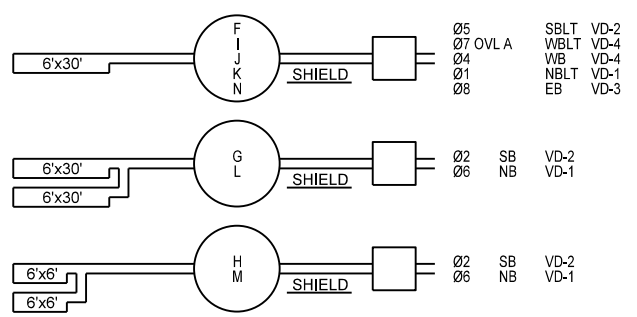
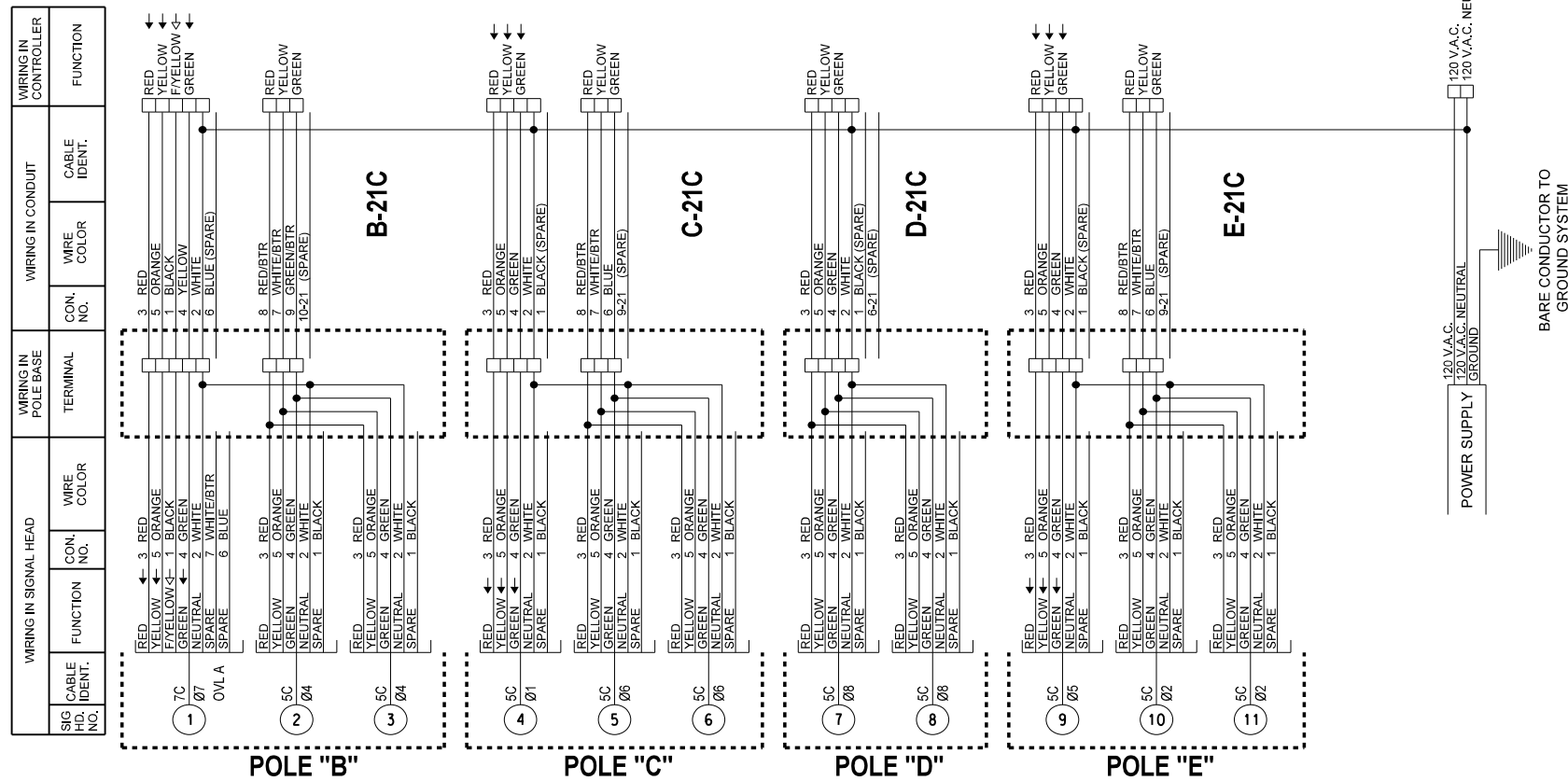


Design	RWR	08-14-23
Drawn	SB	08-14-23

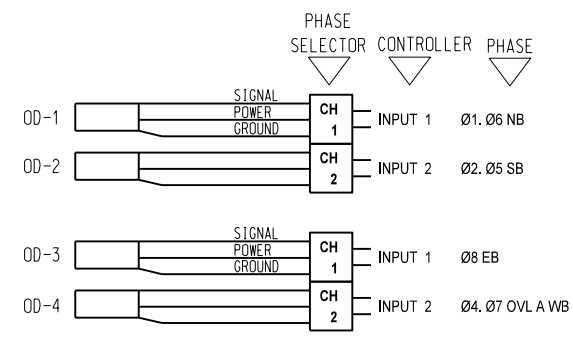


**SIGNAL DETAIL**  
**HANCOCK ST. & S. 32ND ST.**

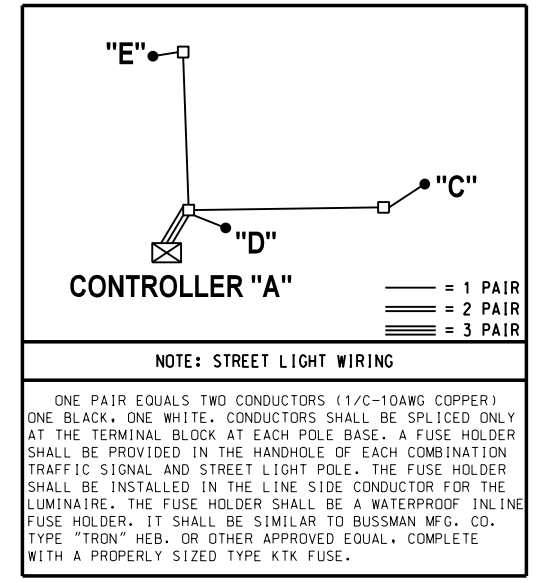
State Job No. \_27108(04)\_      Sheet No. \_T002\_



VIDEO DETECTION AREAS



PRE-EMPTOR DETAILS



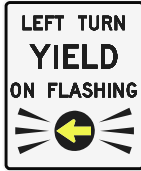
NOTE:  
IF JUMPERS OR OTHER CONNECTIONS ARE MADE IN THE FIELD DURING INSTALLATION, AND ARE ACCEPTED BY THE ENGINEER THIS SHOULD BE SHOWN ON THE WIRING DIAGRAM FOR FUTURE REFERENCE.

Design	RWR	08-14-23
Drawn	SB	08-14-23



**SIGNAL WIRING DIAGRAM**  
**HANCOCK ST. & S. 32ND ST.**

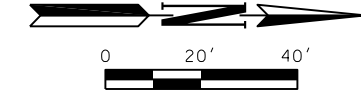
REVISIONS		
NO.	DESCRIPTION	DATE



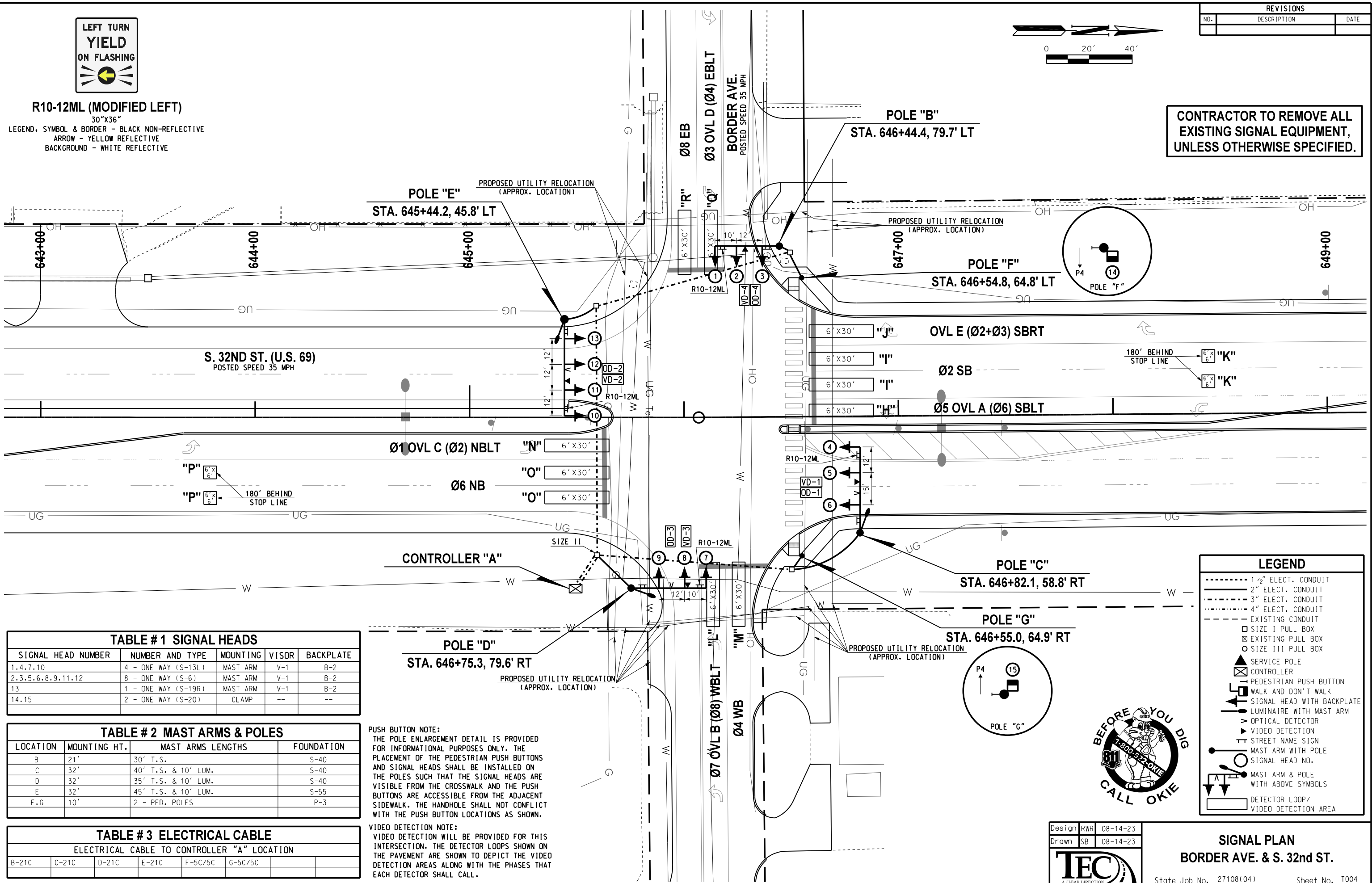
**R10-12ML (MODIFIED LEFT)**

30"X36"  
 LEGEND, SYMBOL & BORDER - BLACK NON-REFLECTIVE  
 ARROW - YELLOW REFLECTIVE  
 BACKGROUND - WHITE REFLECTIVE

REVISIONS		
NO.	DESCRIPTION	DATE



**CONTRACTOR TO REMOVE ALL EXISTING SIGNAL EQUIPMENT, UNLESS OTHERWISE SPECIFIED.**



**TABLE # 1 SIGNAL HEADS**

SIGNAL HEAD NUMBER	NUMBER AND TYPE	MOUNTING	VISOR	BACKPLATE
1, 4, 7, 10	4 - ONE WAY (S-13L)	MAST ARM	V-1	B-2
2, 3, 5, 6, 8, 9, 11, 12	8 - ONE WAY (S-6)	MAST ARM	V-1	B-2
13	1 - ONE WAY (S-19R)	MAST ARM	V-1	B-2
14, 15	2 - ONE WAY (S-20)	CLAMP	--	--

**TABLE # 2 MAST ARMS & POLES**

LOCATION	MOUNTING HT.	MAST ARMS LENGTHS	FOUNDATION
B	21'	30' T.S.	S-40
C	32'	40' T.S. & 10' LUM.	S-40
D	32'	35' T.S. & 10' LUM.	S-40
E	32'	45' T.S. & 10' LUM.	S-55
F, G	10'	2 - PED. POLES	P-3

**TABLE # 3 ELECTRICAL CABLE**

ELECTRICAL CABLE TO CONTROLLER "A" LOCATION					
B-21C	C-21C	D-21C	E-21C	F-5C/5C	G-5C/5C

**PUSH BUTTON NOTE:**  
 THE POLE ENLARGEMENT DETAIL IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE PLACEMENT OF THE PEDESTRIAN PUSH BUTTONS AND SIGNAL HEADS SHALL BE INSTALLED ON THE POLES SUCH THAT THE SIGNAL HEADS ARE VISIBLE FROM THE CROSSWALK AND THE PUSH BUTTONS ARE ACCESSIBLE FROM THE ADJACENT SIDEWALK. THE HANDHOLE SHALL NOT CONFLICT WITH THE PUSH BUTTON LOCATIONS AS SHOWN.

**VIDEO DETECTION NOTE:**  
 VIDEO DETECTION WILL BE PROVIDED FOR THIS INTERSECTION. THE DETECTOR LOOPS SHOWN ON THE PAVEMENT ARE SHOWN TO DEPICT THE VIDEO DETECTION AREAS ALONG WITH THE PHASES THAT EACH DETECTOR SHALL CALL.

**LEGEND**

- 1/2" ELECT. CONDUIT
- 2" ELECT. CONDUIT
- 3" ELECT. CONDUIT
- 4" ELECT. CONDUIT
- EXISTING CONDUIT
- SIZE I PULL BOX
- EXISTING PULL BOX
- SIZE III PULL BOX
- SERVICE POLE
- CONTROLLER
- PEDESTRIAN PUSH BUTTON
- WALK AND DON'T WALK
- SIGNAL HEAD WITH BACKPLATE
- LUMINAIRE WITH MAST ARM
- OPTICAL DETECTOR
- VIDEO DETECTION
- STREET NAME SIGN
- MAST ARM WITH POLE
- SIGNAL HEAD NO.
- MAST ARM & POLE WITH ABOVE SYMBOLS
- DETECTOR LOOP/VIDEO DETECTION AREA



Design	RWR	08-14-23
Drawn	SB	08-14-23



**SIGNAL PLAN**  
**BORDER AVE. & S. 32nd ST.**

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REVISIONS		
NO.	DESCRIPTION	DATE

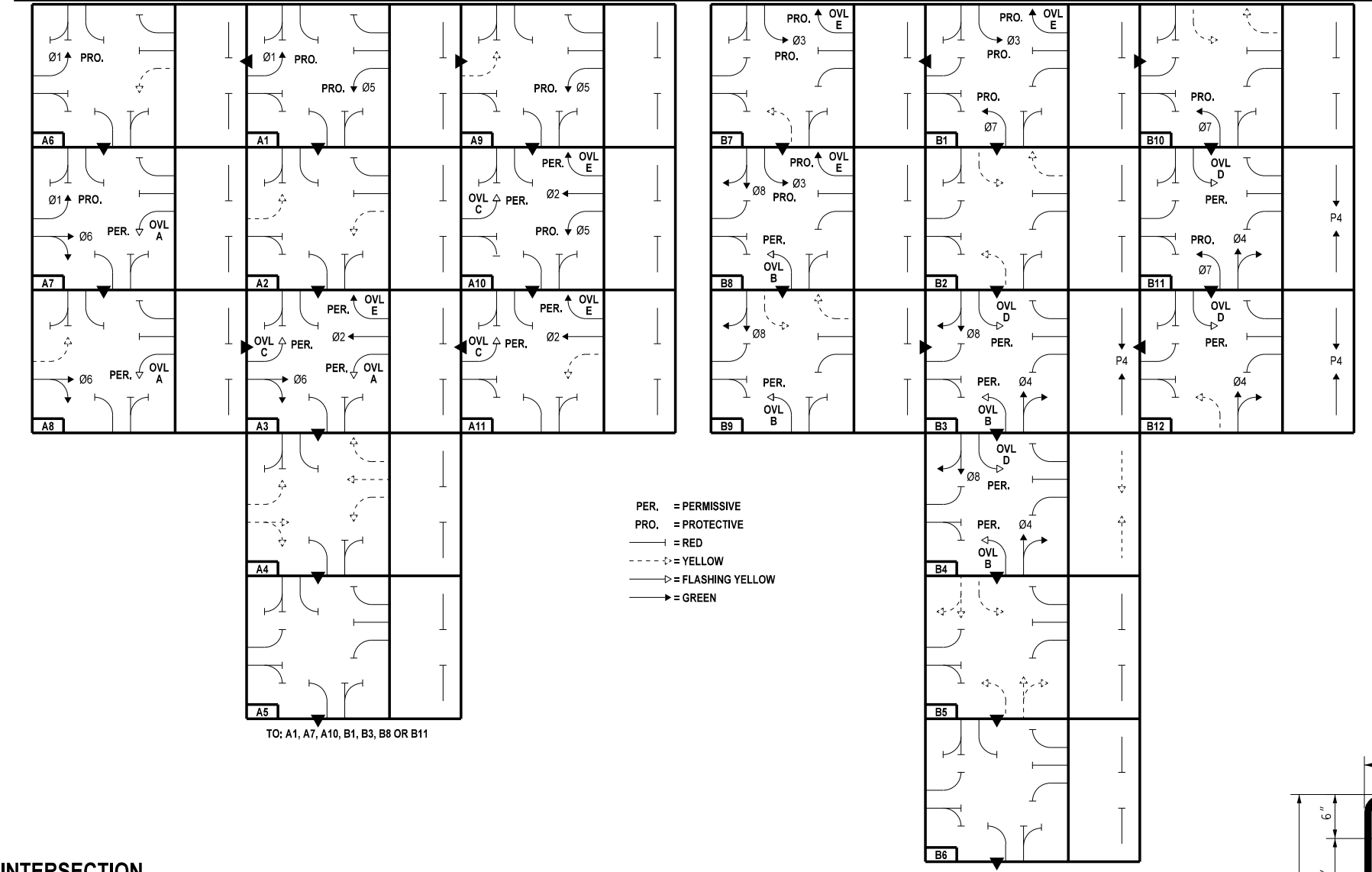
## PHASING DIAGRAM

### PHASE "A"

S. 32nd ST.

### PHASE "B"

BORDER AVE.



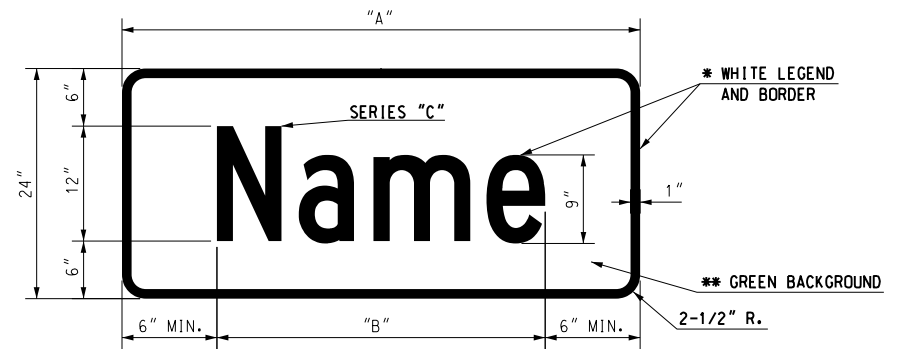
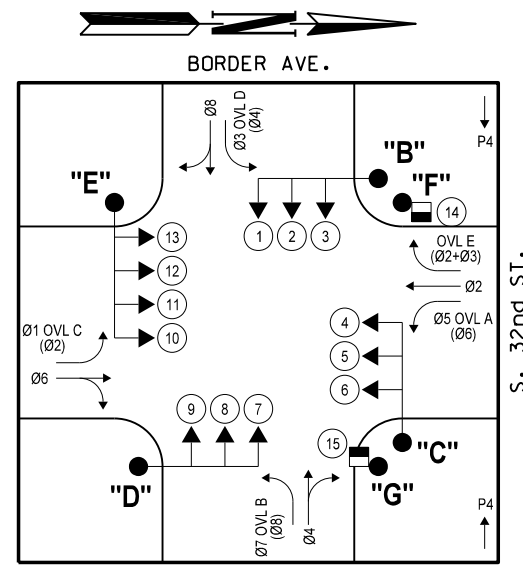
TO: A1, A7, A10, B1, B3, B8 OR B11

TO: B1, B8, B11, A1, A3, A7 OR A10

### SEQUENCE CHART

DIRECTION	BLOCK NO.	PHASE														
		Ø7 OVL B	Ø4	Ø1 OVL C	Ø6	Ø3 OVL D	Ø8	Ø5 OVL A	Ø2	OVL E	P4	SIGNAL HEAD NO.				
		1	2,3	4	5,6	7	8,9	10	11,12	13	14,15					
Ø1, Ø5 ROW	A1	←R	R	←G	R	←R	R	←G	R	R	R	DW				
Ø1, Ø5 CL	A2	←R	R	←Y	R	←R	R	←Y	R	R	R	DW				
Ø2, Ø6, OVL A, OVL C, OVL E ROW	A3	←R	R	←Y	G	←R	R	←Y	G	G	G	DW				
Ø2, Ø6, OVL A, OVL C, OVL E CL	A4	←R	R	←Y	Y	←R	R	←Y	Y	Y	Y	DW				
ALL RED	A5	←R	R	←R	R	←R	R	←R	R	R	R	DW				
Ø1 ROW & Ø5 CL	A6	←R	R	←G	R	←R	R	←Y	R	R	R	DW				
Ø1, Ø6, OVL A ROW	A7	←R	R	←G	G	←R	R	←Y	R	R	R	DW				
Ø6, OVL A ROW & Ø1 CL	A8	←R	R	←Y	G	←R	R	←Y	R	R	R	DW				
Ø5 ROW & Ø1 CL	A9	←R	R	←Y	R	←R	R	←G	R	R	R	DW				
Ø2, Ø5, OVL C, OVL E ROW	A10	←R	R	←Y	R	←R	R	←G	G	G	G	DW				
Ø2, OVL C, OVL E ROW & Ø5 CL	A11	←R	R	←Y	R	←R	R	←Y	G	G	G	DW				
Ø3, Ø7, OVL E ROW	B1	←G	R	←R	R	←G	R	←R	R	R	R	DW			R	G
Ø3, Ø7, OVL E CL	B2	←Y	R	←R	R	←Y	R	←R	R	R	R	DW			R	G
Ø4, Ø8, OVL B, OVL D, P4 ROW	B3	←Y	G	←R	R	←Y	G	←R	R	R	R	W				
Ø4, Ø8, OVL B, OVL D ROW & P4 CL	B4	←Y	G	←R	R	←Y	G	←R	R	R	R	FDW				
Ø4, Ø8, OVL B, OVL D CL	B5	←Y	Y	←R	R	←Y	Y	←R	R	R	R	DW				
ALL RED	B6	←R	R	←R	R	←R	R	←R	R	R	R	DW				
Ø3, OVL E ROW & Ø7 CL	B7	←Y	R	←R	R	←G	R	←R	R	R	R	DW			R	G
Ø3, Ø8, OVL B, OVL E, P8 ROW	B8	←Y	R	←R	R	←G	G	←R	R	R	R	DW			R	G
Ø8, OVL B, P8 ROW & Ø3, OVL E CL	B9	←Y	R	←R	R	←Y	G	←R	R	R	R	DW			R	G
Ø7 ROW & Ø3, OVL E CL	B10	←G	R	←R	R	←Y	R	←R	R	R	R	DW			R	G
Ø4, Ø7, OVL D, P4 ROW	B11	←G	G	←R	R	←Y	R	←R	R	R	R	W				
Ø4, OVL D, P4 ROW & Ø7 CL	B12	←Y	G	←R	R	←Y	R	←R	R	R	R	W				
FLASHING OPERATION	-	←FR	FR	←FR	FR	←FR	FR	←FR	FR	←FR	FR	-				

### INTERSECTION PHASING & SIGNAL HEAD NO.'S



SUMMARY OF MAST ARM MOUNTED SIGNS							
MESSAGE	POLE LOCATION	NO. OF SIGN	A (IN.)	HEIGHT (IN.)	B (IN.)	SIGN AREA (SQ.FT.)	TOTAL SIGN AREA (SQ.FT.)
Border Ave	C.E	2	84	24	70.5	14.00	28.00
S 32nd St	B.D	2	78	24	64.2	13.00	26.00
R10-12ML	B.C.D.E	4	30	36	--	7.50	30.00
						TOTAL	84.00

\* - TYPE VIII VIP REFLECTIVE SHEETING SHALL BE USED  
 \*\* - TYPE III VIP REFLECTIVE SHEETING SHALL BE USED

Design	RWR	08-14-23
Drawn	SB	08-14-23



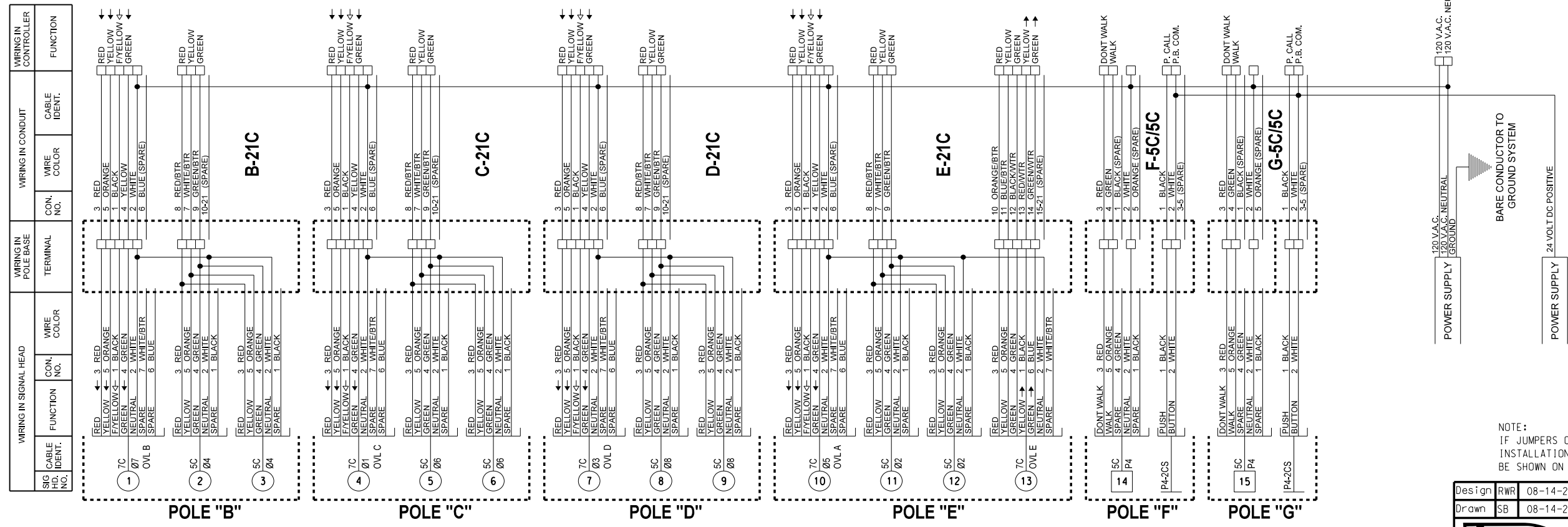
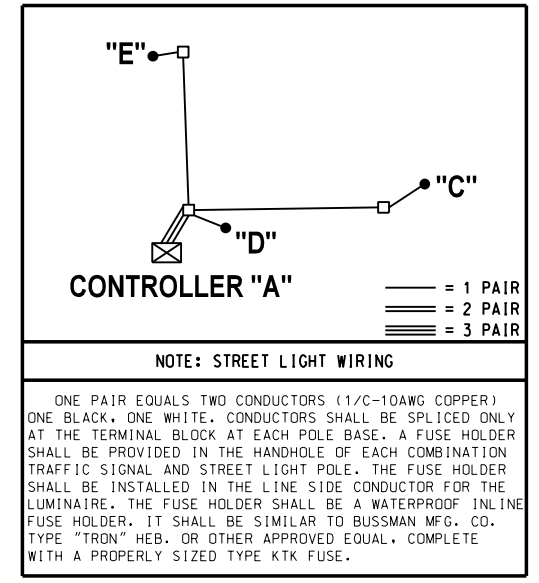
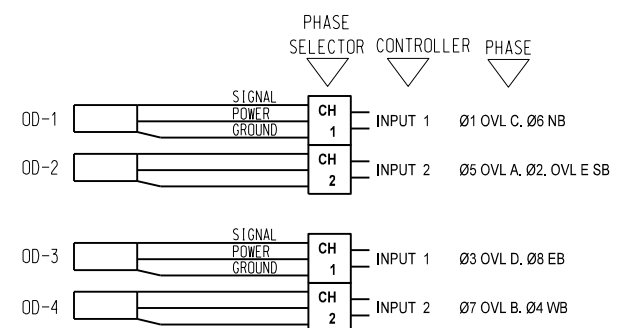
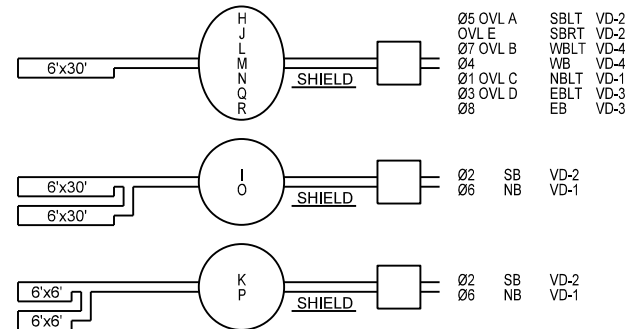
### SIGNAL DETAIL

#### BORDER AVE. & S. 32nd ST.

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REVISIONS		
NO.	DESCRIPTION	DATE



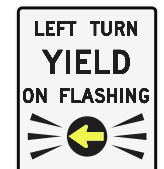
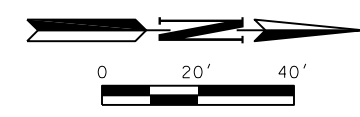
NOTE: IF JUMPERS OR OTHER CONNECTIONS ARE MADE IN THE FIELD DURING INSTALLATION, AND ARE ACCEPTED BY THE ENGINEER THIS SHOULD BE SHOWN ON THE WIRING DIAGRAM FOR FUTURE REFERENCE.

Design	RWR	08-14-23
Drawn	SB	08-14-23



**SIGNAL WIRING DIAGRAM**  
**BORDER AVE. & S. 32nd ST.**

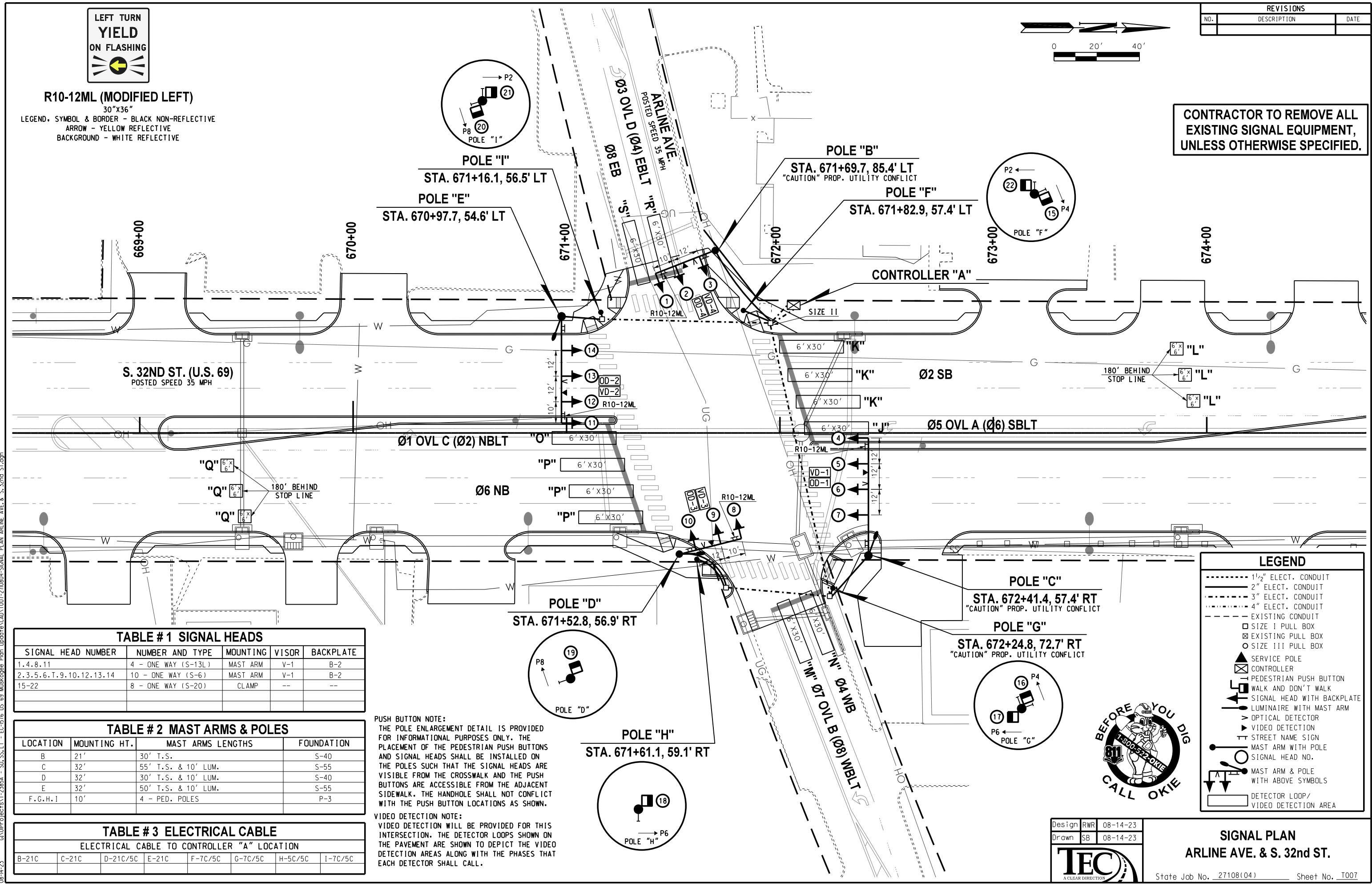
REVISIONS		
NO.	DESCRIPTION	DATE



**R10-12ML (MODIFIED LEFT)**  
30"x36"

LEGEND. SYMBOL & BORDER - BLACK NON-REFLECTIVE  
ARROW - YELLOW REFLECTIVE  
BACKGROUND - WHITE REFLECTIVE

**CONTRACTOR TO REMOVE ALL EXISTING SIGNAL EQUIPMENT, UNLESS OTHERWISE SPECIFIED.**



**TABLE # 1 SIGNAL HEADS**

SIGNAL HEAD NUMBER	NUMBER AND TYPE	MOUNTING	VISOR	BACKPLATE
1, 4, 8, 11	4 - ONE WAY (S-13L)	MAST ARM	V-1	B-2
2, 3, 5, 6, T, 9, 10, 12, 13, 14	10 - ONE WAY (S-6)	MAST ARM	V-1	B-2
15-22	8 - ONE WAY (S-20)	CLAMP	--	--

**TABLE # 2 MAST ARMS & POLES**

LOCATION	MOUNTING HT.	MAST ARMS LENGTHS	FOUNDATION
B	21'	30' T.S.	S-40
C	32'	55' T.S. & 10' LUM.	S-55
D	32'	30' T.S. & 10' LUM.	S-40
E	32'	50' T.S. & 10' LUM.	S-55
F, G, H, I	10'	4 - PED. POLES	P-3

**TABLE # 3 ELECTRICAL CABLE**

ELECTRICAL CABLE TO CONTROLLER "A" LOCATION							
B-21C	C-21C	D-21C/5C	E-21C	F-7C/5C	G-7C/5C	H-5C/5C	I-7C/5C

**PUSH BUTTON NOTE:**  
THE POLE ENLARGEMENT DETAIL IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE PLACEMENT OF THE PEDESTRIAN PUSH BUTTONS AND SIGNAL HEADS SHALL BE INSTALLED ON THE POLES SUCH THAT THE SIGNAL HEADS ARE VISIBLE FROM THE CROSSWALK AND THE PUSH BUTTONS ARE ACCESSIBLE FROM THE ADJACENT SIDEWALK. THE HANDHOLE SHALL NOT CONFLICT WITH THE PUSH BUTTON LOCATIONS AS SHOWN.

**VIDEO DETECTION NOTE:**  
VIDEO DETECTION WILL BE PROVIDED FOR THIS INTERSECTION. THE DETECTOR LOOPS SHOWN ON THE PAVEMENT ARE SHOWN WITH THE PHASES THAT EACH DETECTOR SHALL CALL.

**LEGEND**

- 1 1/2" ELECT. CONDUIT
- 2" ELECT. CONDUIT
- 3" ELECT. CONDUIT
- 4" ELECT. CONDUIT
- EXISTING CONDUIT
- SIZE I PULL BOX
- ⊠ EXISTING PULL BOX
- SIZE III PULL BOX
- ⊠ SERVICE POLE
- ⊠ CONTROLLER
- ⊠ PEDESTRIAN PUSH BUTTON
- ⊠ WALK AND DON'T WALK
- ⊠ SIGNAL HEAD WITH BACKPLATE
- ⊠ LUMINAIRE WITH MAST ARM
- ⊠ OPTICAL DETECTOR
- ⊠ VIDEO DETECTION
- ⊠ STREET NAME SIGN
- ⊠ MAST ARM WITH POLE
- SIGNAL HEAD NO.
- ⊠ MAST ARM & POLE WITH ABOVE SYMBOLS
- ⊠ DETECTOR LOOP/VIDEO DETECTION AREA



Design	RWR	08-14-23
Drawn	SB	08-14-23



**SIGNAL PLAN**  
**ARLINE AVE. & S. 32nd ST.**

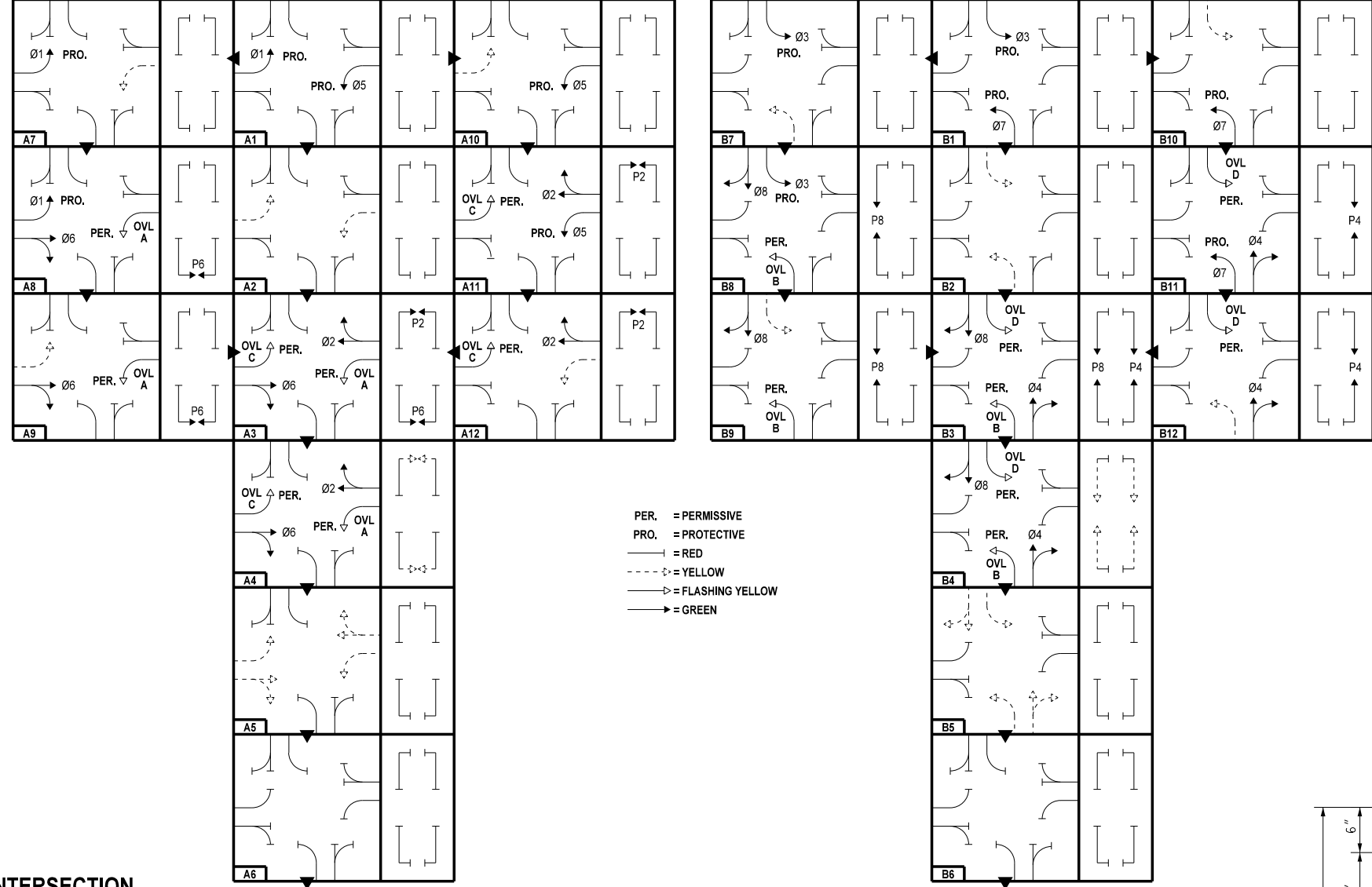
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REVISIONS		
NO.	DESCRIPTION	DATE

**PHASING DIAGRAM**

PHASE "A" S. 32nd ST.	PHASE "B" ARLINE AVE.
--------------------------	--------------------------

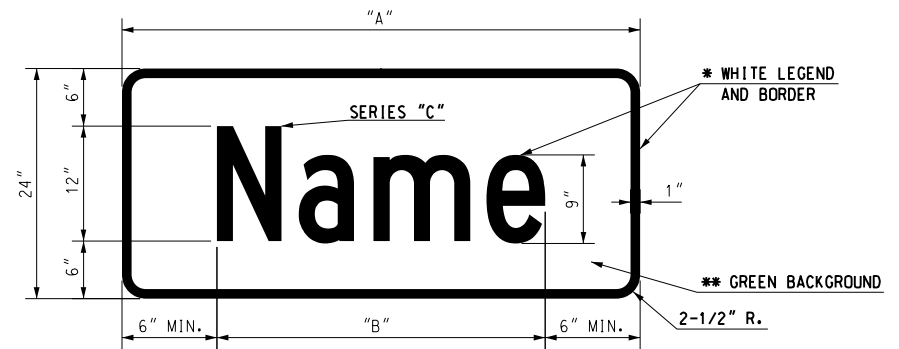
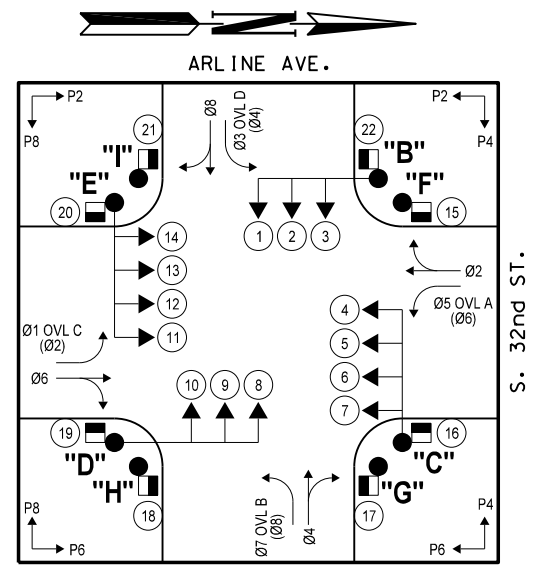


PER. = PERMISSIVE  
 PRO. = PROTECTIVE  
 — = RED  
 - - - = YELLOW  
 - - - - = FLASHING YELLOW  
 — = GREEN

**SEQUENCE CHART**

DIRECTION	BLOCK NO.	PHASE											
		Ø7 OVL B	Ø4	Ø1 OVL C	Ø6	Ø3 OVL D	Ø8	Ø5 OVL A	Ø2	P4	P6	P8	P2
		SIGNAL HEAD NO.											
		1	2,3	4	5,6	7	8,9	10	11,12	13,14	15,16	17,18	19,20
Ø1, Ø5 ROW	A1	←R	R	←G	R	←R	R	←G	R	DW	DW	DW	DW
Ø1, Ø5 CL	A2	←R	R	←Y	R	←R	R	←Y	R	DW	DW	DW	DW
Ø2, Ø6, OVL A, OVL C, P2, P6 ROW	A3	←R	R	←F	G	←R	R	←F	G	DW	W	DW	W
Ø2, Ø6, OVL A, OVL C ROW & P2, P6 CL	A4	←R	R	←F	G	←R	R	←F	G	DW	FDW	DW	FDW
Ø2, Ø6, OVL A, OVL C CL	A5	←R	R	←Y	Y	←R	R	←Y	Y	DW	DW	DW	DW
ALL RED	A6	←R	R	←R	R	←R	R	←R	R	DW	DW	DW	DW
Ø1 ROW & Ø5 CL	A7	←R	R	←G	R	←R	R	←Y	R	DW	DW	DW	DW
Ø1, Ø6, OVL A, P6 ROW	A8	←R	R	←G	G	←R	R	←F	R	DW	W	DW	DW
Ø6, OVL A, P6 ROW & Ø1 CL	A9	←R	R	←Y	G	←R	R	←F	R	DW	W	DW	DW
Ø5 ROW & Ø1 CL	A10	←R	R	←Y	R	←R	R	←G	R	DW	DW	DW	DW
Ø2, Ø5, OVL C, P2 ROW	A11	←R	R	←F	R	←R	R	←G	G	DW	DW	DW	W
Ø2, OVL C, P2 ROW & Ø5 CL	A12	←R	R	←F	R	←R	R	←Y	G	DW	DW	DW	W
Ø3, Ø7 ROW	B1	←G	R	←R	R	←G	R	←R	R	DW	DW	DW	DW
Ø3, Ø7 CL	B2	←Y	R	←R	R	←Y	R	←R	R	DW	DW	DW	DW
Ø4, Ø8, OVL B, OVL D, P4, P8 ROW	B3	←F	G	←R	R	←F	G	←R	R	W	DW	W	DW
Ø4, Ø8, OVL B, OVL D ROW & P4, P8 CL	B4	←F	G	←R	R	←F	G	←R	R	FDW	DW	FDW	DW
Ø4, Ø8, OVL B, OVL D CL	B5	←Y	Y	←R	R	←Y	Y	←R	R	DW	DW	DW	DW
ALL RED	B6	←R	R	←R	R	←R	R	←R	R	DW	DW	DW	DW
Ø3 ROW & Ø7 CL	B7	←Y	R	←R	R	←G	R	←R	R	DW	DW	DW	DW
Ø3, Ø8, OVL B, P8 ROW	B8	←F	R	←R	R	←G	G	←R	R	DW	DW	W	DW
Ø8, OVL B, P8 ROW & Ø3 CL	B9	←F	R	←R	R	←Y	G	←R	R	DW	DW	W	DW
Ø7 ROW & Ø3 CL	B10	←G	R	←R	R	←Y	R	←R	R	DW	DW	DW	DW
Ø4, Ø7, OVL D, P4 ROW	B11	←G	G	←R	R	←F	R	←R	R	W	DW	DW	DW
Ø4, OVL D, P4 ROW & Ø7 CL	B12	←Y	G	←R	R	←F	R	←R	R	W	DW	DW	DW
FLASHING OPERATION	--	←FR	FR	←FR	FR	←FR	FR	←FR	FR	--	--	--	--

**INTERSECTION  
PHASING & SIGNAL HEAD NO.'S**



SUMMARY OF MAST ARM MOUNTED SIGNS							
MESSAGE	POLE LOCATION	NO. OF SIGN	A (IN.)	HEIGHT (IN.)	B (IN.)	SIGN AREA (SQ.FT.)	TOTAL SIGN AREA (SQ.FT.)
Arline Ave	C.E	2	78	24	65.9	13.00	26.00
S 32nd St	B.D	2	78	24	64.2	13.00	26.00
R10-12ML	B.C.D.E	4	30	36	--	7.50	30.00
TOTAL							82.00

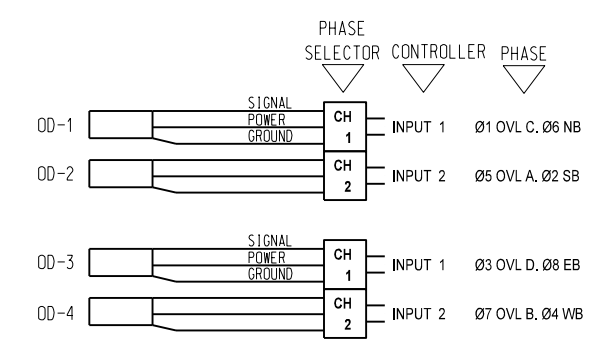
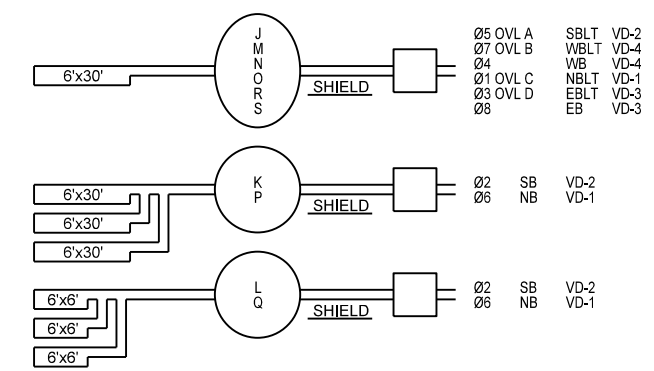
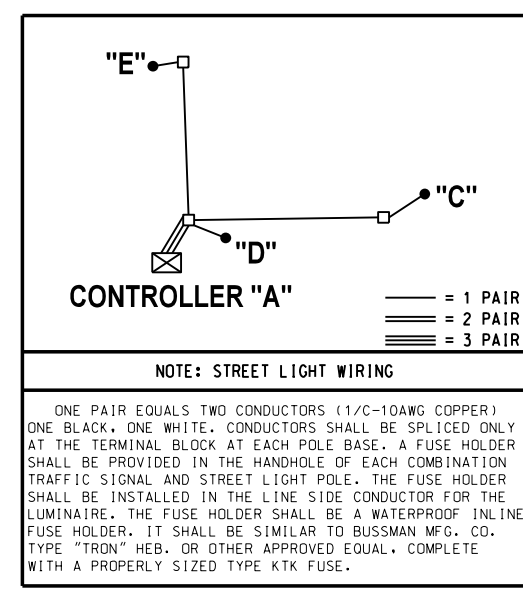
\* - TYPE VIII VIP REFLECTIVE SHEETING SHALL BE USED  
 \*\* - TYPE III VIP REFLECTIVE SHEETING SHALL BE USED

Design RWR 08-14-23  
 Drawn SB 08-14-23



**SIGNAL DETAIL  
ARLINE AVE. & S. 32nd ST.**

08-14-23 G:\Projects\T-2385A - S.D.SS.LT - EC-1516 US 69 Muskogee Plan Update\CAD\1008-270804-SIGNAL DETAIL ARLINE AVE. & S. 32nd ST.dgn



**NOTE:**  
IF JUMPERS OR OTHER CONNECTIONS ARE MADE IN THE FIELD DURING INSTALLATION, AND ARE ACCEPTED BY THE ENGINEER THIS SHOULD BE SHOWN ON THE WIRING DIAGRAM FOR FUTURE REFERENCE.

Design	RWR	08-14-23
Drawn	SB	08-14-23



**SIGNAL WIRING DIAGRAM**  
**ARLINE AVE. & S. 32nd ST.**

REVISIONS		
NO.	DESCRIPTION	DATE



REVISIONS		
NO.	DESCRIPTION	DATE

### SIGN SUMMARY

SHEET NO.	ITEM NO.	APPROXIMATE STATION & LOCATION		SIGN TYPE	POSTS				FOOTINGS				SIGN AREA			REMARKS			
					TYPE	A	L.F.	B L.F.	SPACING	DESIGN NO.	STEEL 511(A) LBS.	60" DRILLED SHAFT L.F.	STRUCTURAL CONCRETE C.Y.	STEEL 804(B) LBS.	SHEET S.F.		PANEL S.F.	PANEL OVERHEAD S.F.	
T021	75	668+50	US-69	R3-9B	2" SQ. TUBE POST	12.00									6.00				
T021	76	668+50	US-69	R3-9B, M4-6	2" SQ. TUBE POST	12.00									6.25				
T021	77	669+15	US-69	R4-7	2" SQ. TUBE POST	12.00									5.00				
T021	78	670+76	US-69	R5-1	2" SQ. TUBE POST	12.00									6.25				
T021	79	671+21	US-69	R4-7	2" SQ. TUBE POST	12.00									5.00				
T021	80	672+17	US-69	R4-7	2" SQ. TUBE POST	12.00									5.00				
T021	81	672+67	US-69	R5-1	2" SQ. TUBE POST	12.00									6.25				
T021	82	674+83	US-69	R4-7	2" SQ. TUBE POST	12.00									5.00				
T021	83	674+98	US-69	HEALTH DEPT. SIGN														REMOVE & RESET EX.SIGN	
T021	84	675+34	US-69	R3-9B, M4-6	2" SQ. TUBE POST	12.00									6.25				
T021	85	675+22	US-69	R3-9B	2" SQ. TUBE POST	12.00									6.00				
T022	86	677+65	US-69	R3-9B	2" SQ. TUBE POST	12.00									6.00				
T022	87	677+82	US-69	R3-9B, M4-6	2" SQ. TUBE POST	12.00									6.25				
T022	88	678+24	US-69	R4-7	2" SQ. TUBE POST	12.00									5.00				
T022	89	680+03	US-69	R5-1	2" SQ. TUBE POST	12.00									6.25				
T022	90	680+48	US-69	R4-7	2" SQ. TUBE POST	12.00									5.00				
T022	91	680+63	US-69	R1-1, R6-1R, R6-1L	2" SQ. TUBE POST	16.00									11.18				
T022	92	681+09	US-69	R1-1, R6-1R, R6-1L	2" SQ. TUBE POST	16.00									11.18				
T022	93	681+25	US-69	R4-7	2" SQ. TUBE POST	12.00									5.00				
T022	94	681+75	US-69	R5-1	2" SQ. TUBE POST	12.00									6.25				
T022	95	683+23	US-69	R5-1	2" SQ. TUBE POST	12.00									6.25				
T022	96	683+68	US-69	R4-7	2" SQ. TUBE POST	12.00									5.00				
T022	97	683+89	US-69	R1-1, R6-1R, R6-1L	2" SQ. TUBE POST	16.00									11.18				
T022	98	684+26	US-69	R1-1, R6-1R, R6-1L	2" SQ. TUBE POST	16.00									11.18				
T022	99	684+46	US-69	R4-7	2" SQ. TUBE POST	12.00									5.00				
T022	100	684+96	US-69	R5-1	2" SQ. TUBE POST	12.00									6.25				
T022	101	686+86	US-69	R4-7	2" SQ. TUBE POST	12.00									5.00				
T022	102	687+26	US-69	R3-9B	2" SQ. TUBE POST	12.00									6.00				
T022	103	687+41	US-69	R3-9B, M4-6	2" SQ. TUBE POST	12.00									6.25				
T023	104	692+10	US-69	R2-1(35)	2" SQ. TUBE POST	13.50									5.00				
T023	105	AS SHOWN	US-69	MEDICAL CENTER SIGN														REMOVE & RESET EX.SIGN	
T023	106	693+50	US-69	R3-9B	2" SQ. TUBE POST	12.00									6.00				
T023	107	693+53	US-69	R3-9B, M4-6	2" SQ. TUBE POST	12.00									6.25				
T023	108	693+87	US-69	R4-7	2" SQ. TUBE POST	12.00									5.00				
T023	109	AS SHOWN	US-69	R3-9B, M4-6	2" SQ. TUBE POST	12.00									6.25				
T023	110	694+75	US-69	ROUTE ASSEMBLY NO. 1	2" SQ. TUBE POST	16.00	16.00								12.00				
T023	111	695+90	US-69	ROUTE ASSEMBLY NO. 2	4" PIPE POST	20.00	20.00			A-6		0.60		84.00	38.57				
T023	112	AS SHOWN	US-69	ROUTE ASSEMBLY NO. 3	4" PIPE POST	20.00	20.00			A-6		0.60		84.00	38.57				
<b>TOTALS</b>					2" SQ. TUBE POST	1352.00						1.20		168.00	739.40				
					2-1/2" SQ. TUBE POST														
					4" PIPE POST	80.00													
					4" WF @ 13														
					6" WF @ 15														
					6" WF @ 25														
					8" WF @ 31														

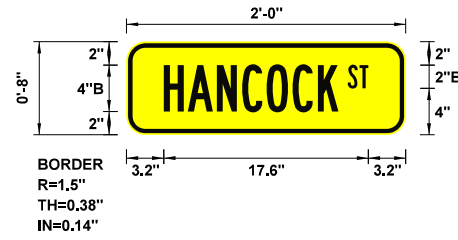
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Design	RWR	08-14-23
Drawn	SB	08-14-23



### SIGN SUMMARY (2 of 2)

REVISIONS		
NO.	DESCRIPTION	DATE

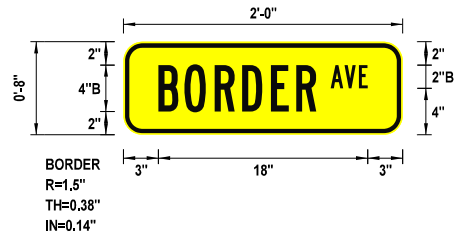


SPECIAL SIGN NO.	<b>1(W16-8P)</b>
WIDTH x HGHT.	<b>2'-0" x 0'-8"</b>
BORDER WIDTH	<b>0.38"</b>
CORNER RADIUS	<b>1.5"</b>
MOUNTING	<b>Ground</b>
SIGN AREA	<b>1.3 Sq.Ft.</b>
BACKGROUND	TYPE: <b>Reflective</b> COLOR: <b>Yellow</b>
LEGENDBORDER	TYPE: <b>Reflective</b> COLOR: <b>Black</b>

SYMBOL	X	Y	WID	HT

Dimensions are in: Inches.tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES / SIZE
S	T									1.8	B 2000
19	20										
H	A	N	C	O	C	K				15	B 2000
3.2	5.3	7.8	9.9	12	14.3	16.4					



SPECIAL SIGN NO.	<b>2(W16-8P)</b>
WIDTH x HGHT.	<b>2'-0" x 0'-8"</b>
BORDER WIDTH	<b>0.38"</b>
CORNER RADIUS	<b>1.5"</b>
MOUNTING	<b>Ground</b>
SIGN AREA	<b>1.3 Sq.Ft.</b>
BACKGROUND	TYPE: <b>Reflective</b> COLOR: <b>Yellow</b>
LEGENDBORDER	TYPE: <b>Reflective</b> COLOR: <b>Black</b>

SYMBOL	X	Y	WID	HT

Dimensions are in: Inches.tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES / SIZE
A	V	E								3.2	B 2000
17.8	19	20.2									
B	O	R	D	E	R					13.6	B 2000
3	5.2	7.8	10.2	12.7	14.8						

SPECIAL SIGN NO.	
WIDTH x HGHT.	
BORDER WIDTH	
CORNER RADIUS	
MOUNTING	
SIGN AREA	
BACKGROUND	TYPE:
	COLOR:
LEGENDBORDER	TYPE:
	COLOR:

SYMBOL	X	Y	WID	HT

LETTER POSITIONS (X)										LENGTH	SERIES / SIZE

SPECIAL SIGN NO.	
WIDTH x HGHT.	
BORDER WIDTH	
CORNER RADIUS	
MOUNTING	
SIGN AREA	
BACKGROUND	TYPE:
	COLOR:
LEGENDBORDER	TYPE:
	COLOR:

SYMBOL	X	Y	WID	HT

LETTER POSITIONS (X)										LENGTH	SERIES / SIZE

08-14-23 G:\Projects\2385A - SD,SS,LT - EC-1516 US 69 Muskogee Plan Update\CAD\102-2710804-SPECIAL SIGNS DETAIL.dgn

Design BJH 08-14-23  
Drawn CCC 08-14-23

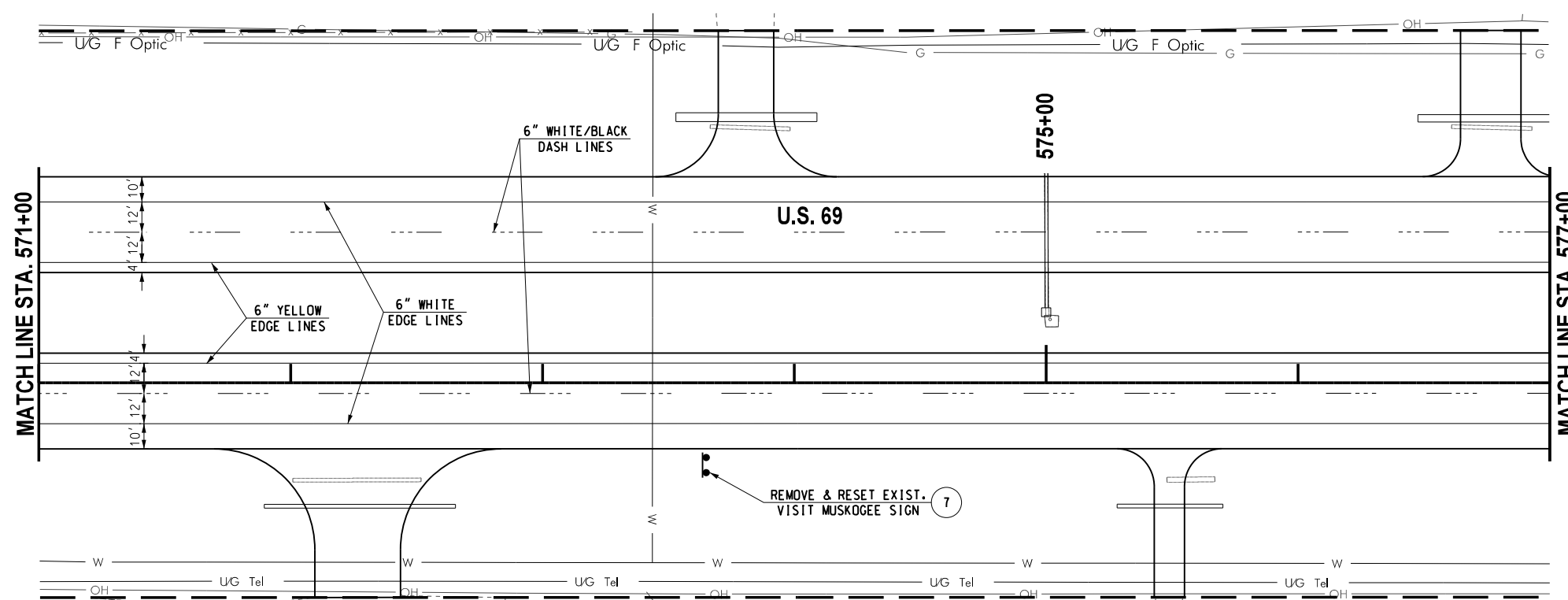
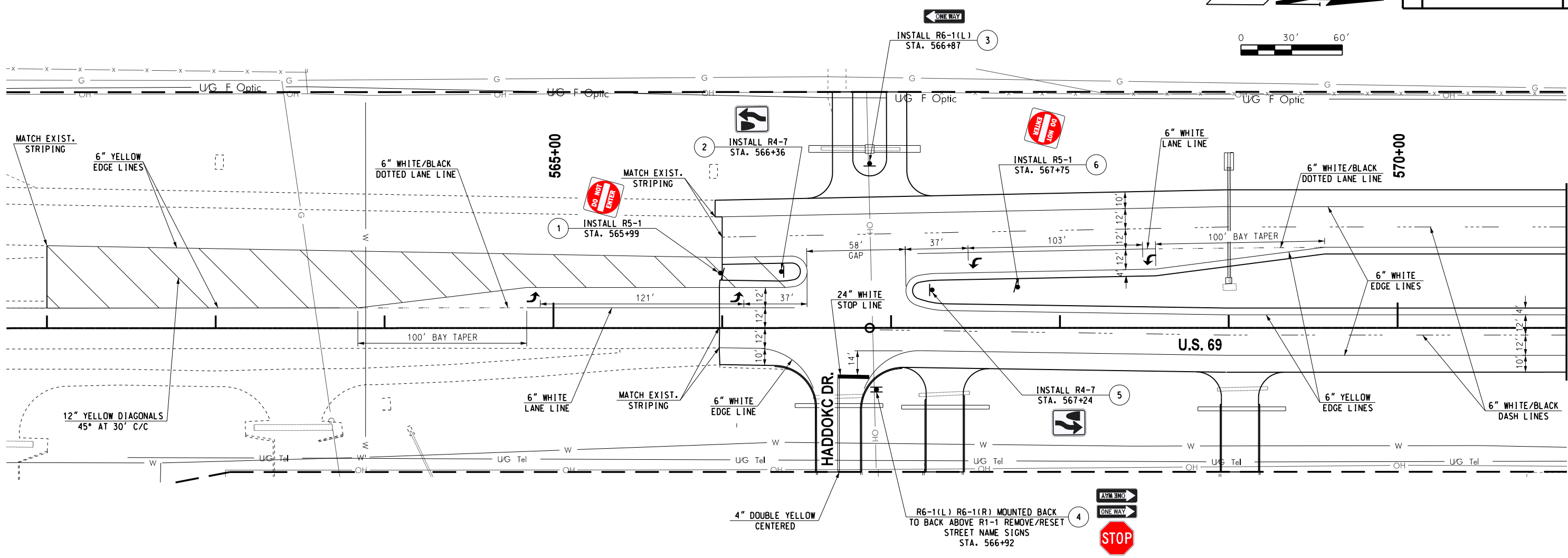
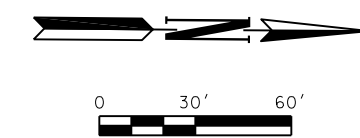


**SPECIAL SIGN DETAILS**

State Job No. 27108(04) Sheet No. 1012

MUSKOGEE COUNTY

REVISIONS		
NO.	DESCRIPTION	DATE



MULTI-POLY STRIPING SUM. TABLE		
DESCRIPTION	UNIT	TOTALS
TRAFFIC STRIPE (MULTI-POLY) 4" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 4" YELLOW	L.F.	110
TRAFFIC STRIPE (MULTI-POLY) 4" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 6" WHITE	L.F.	3000
TRAFFIC STRIPE (MULTI-POLY) 6" YELLOW	L.F.	120
TRAFFIC STRIPE (MULTI-POLY) 6" BLACK	L.F.	610
TRAFFIC STRIPE (MULTI-POLY) 8" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 8" YELLOW	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 8" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" YELLOW	L.F.	660
TRAFFIC STRIPE (MULTI-POLY) 12" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 24" WHITE	L.F.	20
TRAFFIC STRIPE (MULTI-POLY) ARROWS	EA.	4
TRAFFIC STRIPE (MULTI-POLY) WORDS	EA.	0
TRAFFIC STRIPE (MULTI-POLY) SYMBOLS	EA.	0



Design	RWR	08-14-23
Drawn	CAL	08-14-23



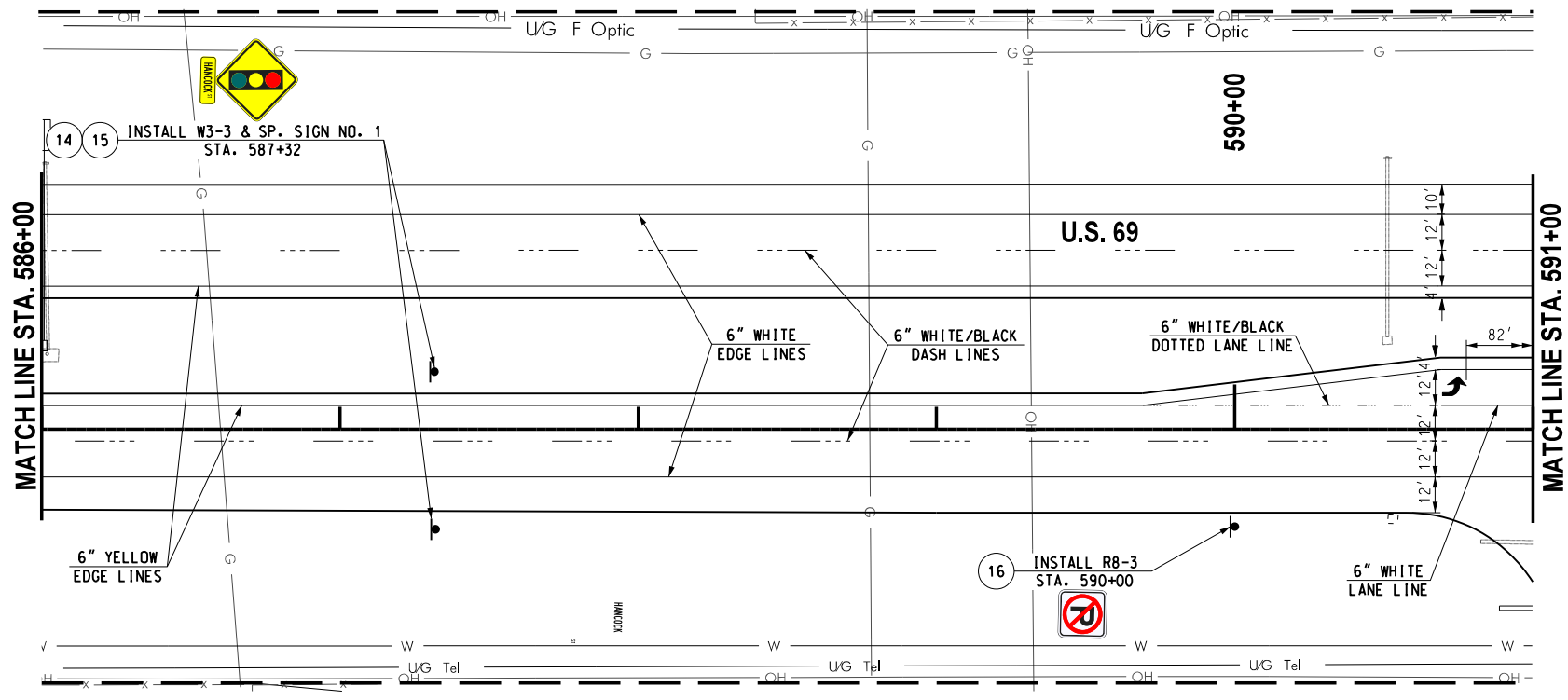
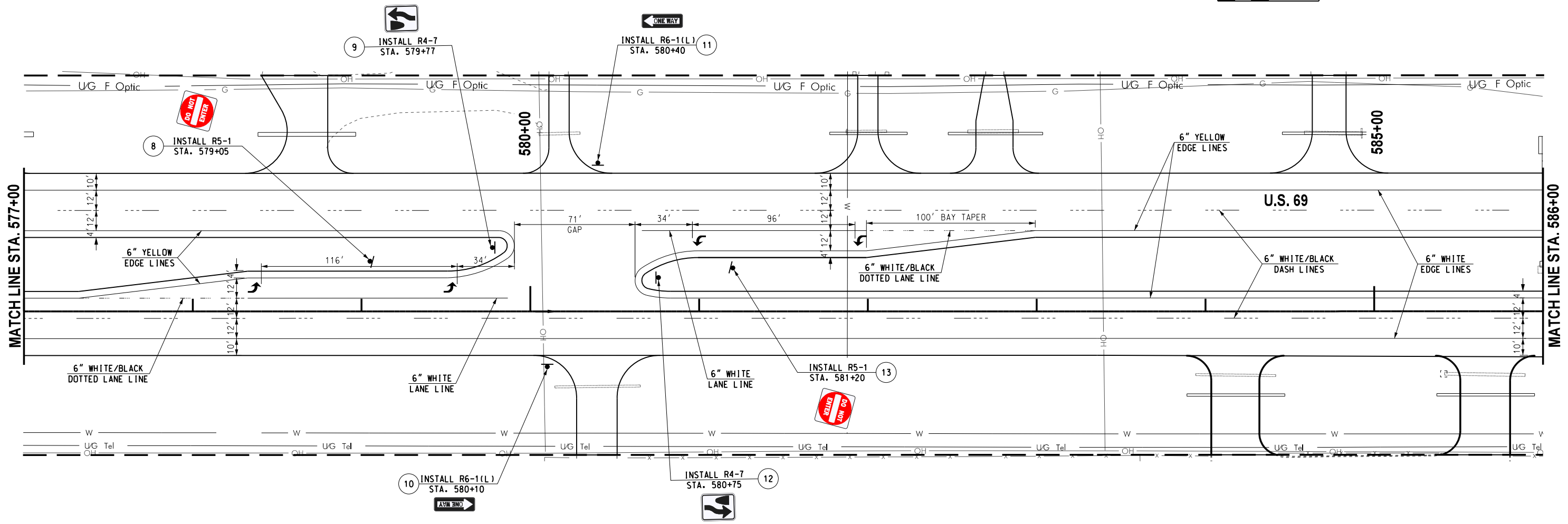
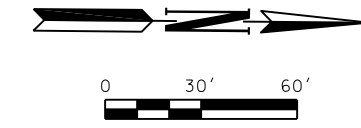
**SIGNING & STRIPING PLAN**  
(1 OF 11)

Project No. 27108(04) Sheet No. T013

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REVISIONS		
NO.	DESCRIPTION	DATE



MULTI-POLY STRIPING SUM. TABLE		
DESCRIPTION	UNIT	TOTALS
TRAFFIC STRIPE (MULTI-POLY) 4" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 4" YELLOW	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 4" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 6" WHITE	L.F.	3900
TRAFFIC STRIPE (MULTI-POLY) 6" YELLOW	L.F.	2680
TRAFFIC STRIPE (MULTI-POLY) 6" BLACK	L.F.	790
TRAFFIC STRIPE (MULTI-POLY) 8" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 8" YELLOW	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 8" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" YELLOW	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 24" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) ARROWS	EA.	5
TRAFFIC STRIPE (MULTI-POLY) WORDS	EA.	0
TRAFFIC STRIPE (MULTI-POLY) SYMBOLS	EA.	0

Design	RWR	08-14-23
Drawn	CAL	08-14-23



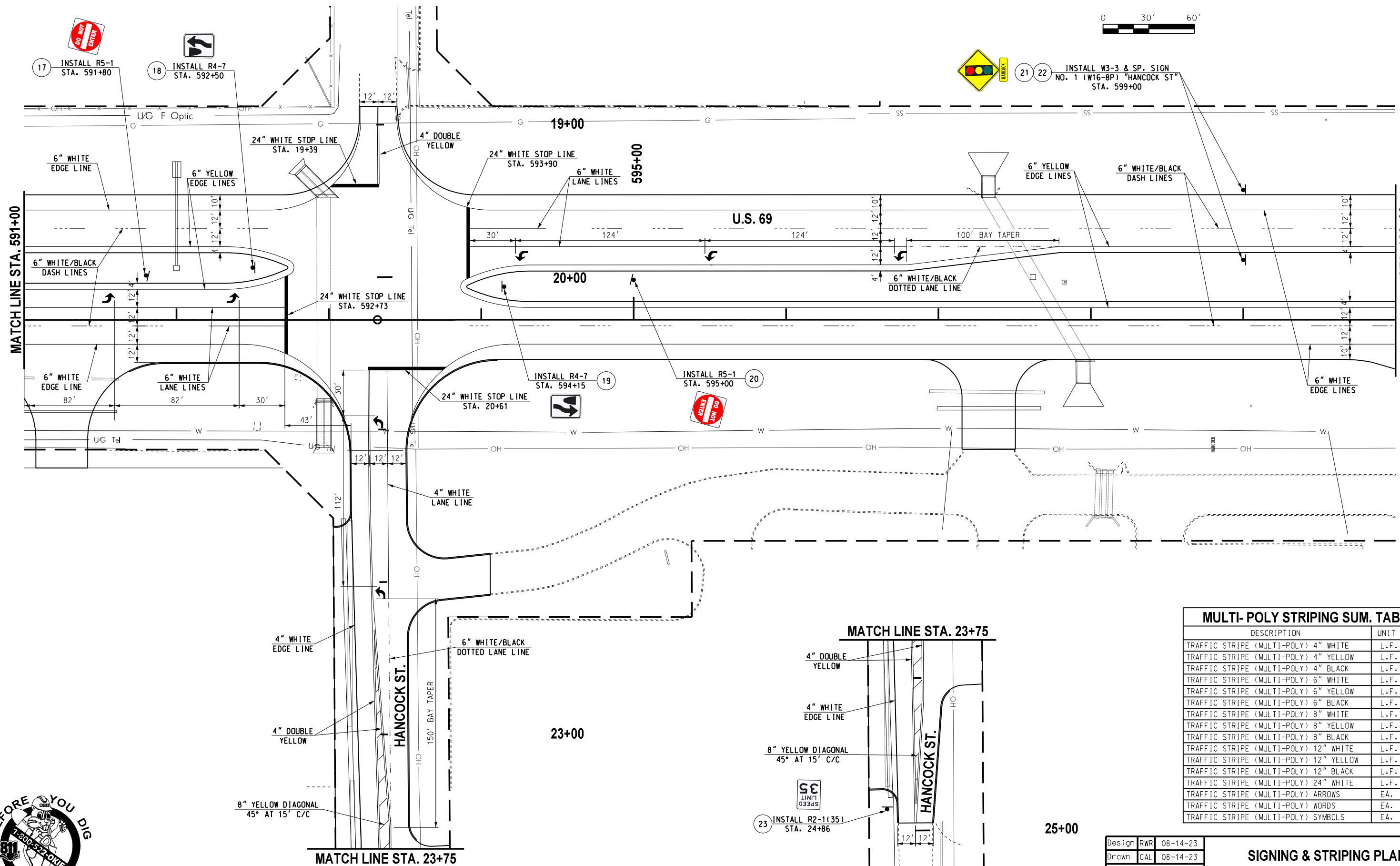
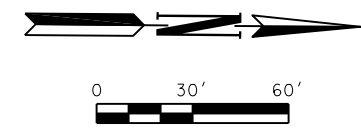
**SIGNING & STRIPING PLAN  
(2 OF 11)**

Project No. 27108(04) Sheet No. T014

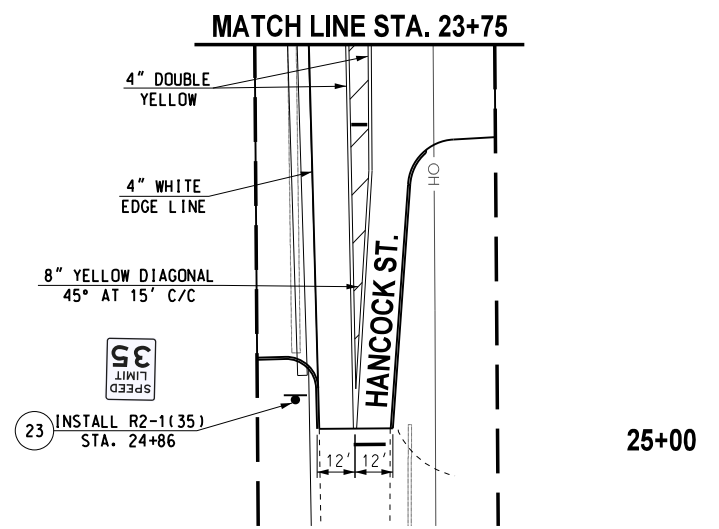
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REVISIONS		
NO.	DESCRIPTION	DATE



MULTI-POLY STRIPING SUM. TABLE		
DESCRIPTION	UNIT	TOTALS
TRAFFIC STRIPE (MULTI-POLY) 4" WHITE	L.F.	500
TRAFFIC STRIPE (MULTI-POLY) 4" YELLOW	L.F.	1570
TRAFFIC STRIPE (MULTI-POLY) 4" BLACK	L.F.	40
TRAFFIC STRIPE (MULTI-POLY) 6" WHITE	L.F.	2770
TRAFFIC STRIPE (MULTI-POLY) 6" YELLOW	L.F.	1245
TRAFFIC STRIPE (MULTI-POLY) 6" BLACK	L.F.	430
TRAFFIC STRIPE (MULTI-POLY) 8" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 8" YELLOW	L.F.	95
TRAFFIC STRIPE (MULTI-POLY) 8" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" YELLOW	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 24" WHITE	L.F.	180
TRAFFIC STRIPE (MULTI-POLY) ARROWS	EA.	7
TRAFFIC STRIPE (MULTI-POLY) WORDS	EA.	0
TRAFFIC STRIPE (MULTI-POLY) SYMBOLS	EA.	0



08-14-23 G:\Projects\T-2385A - SD, SS, LT - EC-516 US 69 Muskogee Plan Update\CAD\T05-270804-SIGNING & STRIPING PLAN 13 OF 11.dgn

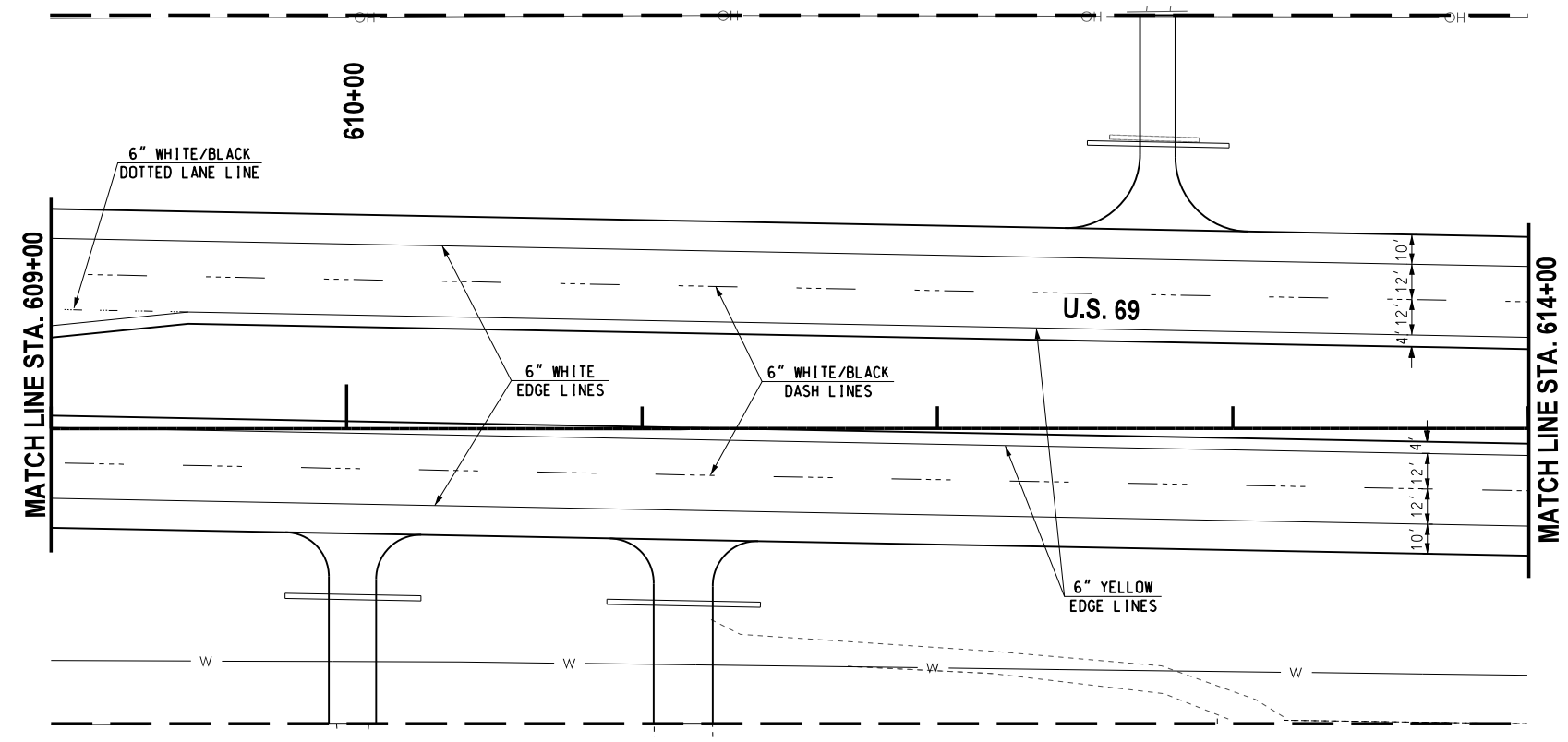
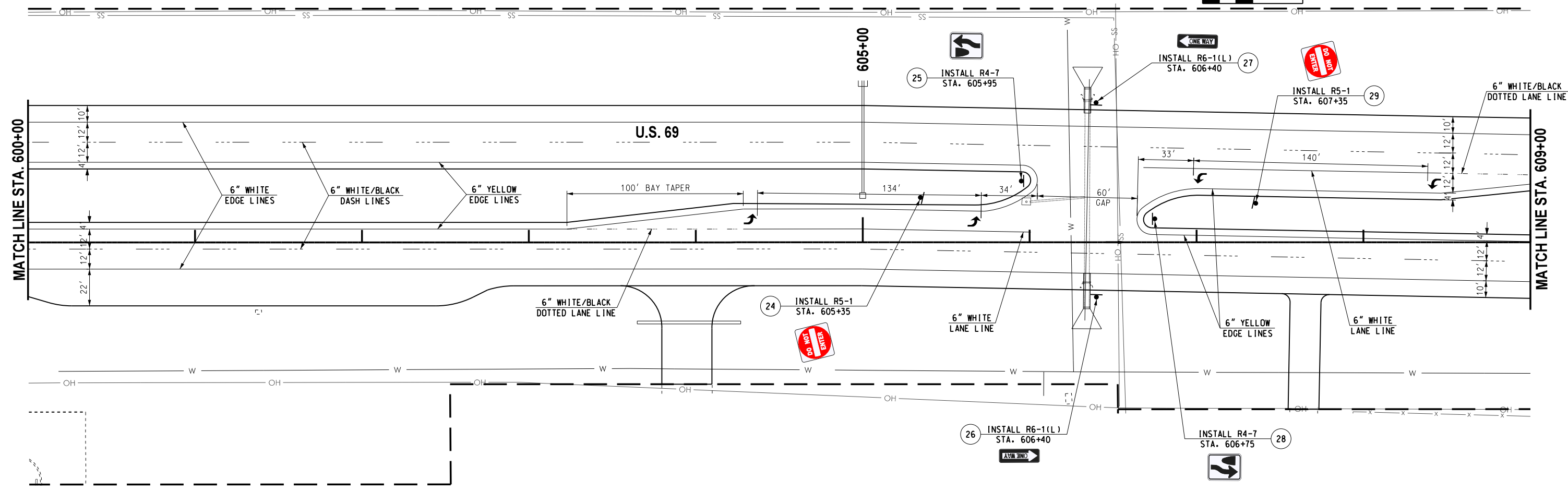
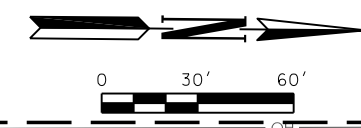


Design	RWR	08-14-23
Drawn	CAL	08-14-23
<b>TEC</b> A CLEAR DIRECTION		

**SIGNING & STRIPING PLAN**  
(3 OF 11)

Project No. 27108(04) Sheet No. T015

REVISIONS		
NO.	DESCRIPTION	DATE



MULTI-POLY STRIPING SUM. TABLE		
DESCRIPTION	UNIT	TOTALS
TRAFFIC STRIPE (MULTI-POLY) 4" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 4" YELLOW	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 4" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 6" WHITE	L.F.	3780
TRAFFIC STRIPE (MULTI-POLY) 6" YELLOW	L.F.	2720
TRAFFIC STRIPE (MULTI-POLY) 6" BLACK	L.F.	630
TRAFFIC STRIPE (MULTI-POLY) 8" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 8" YELLOW	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 8" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" YELLOW	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 24" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) ARROWS	EA.	4
TRAFFIC STRIPE (MULTI-POLY) WORDS	EA.	0
TRAFFIC STRIPE (MULTI-POLY) SYMBOLS	EA.	0

Design RWR 08-14-23  
 Drawn CAL 08-14-23



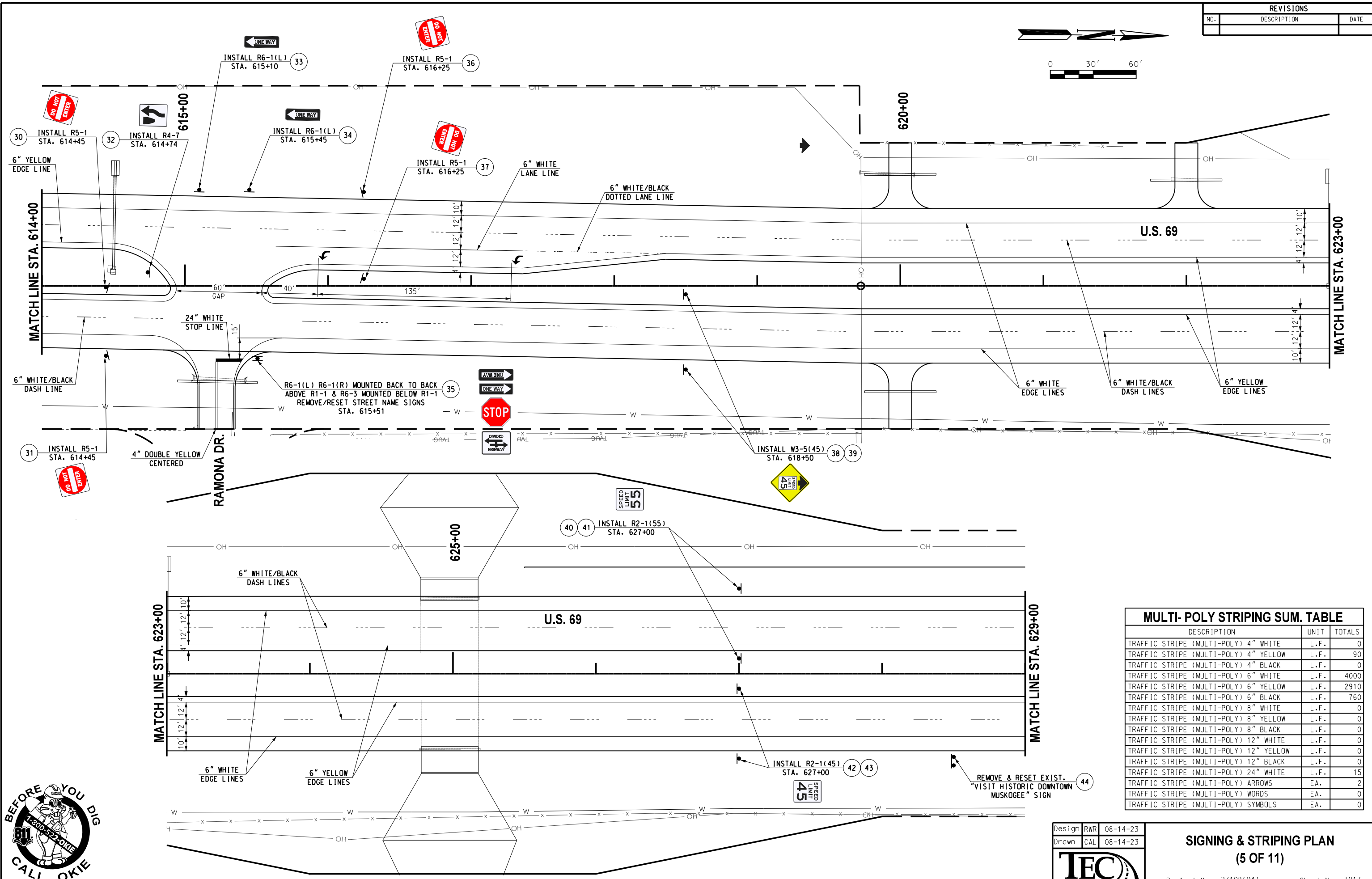
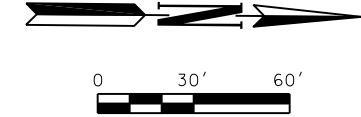
**SIGNING & STRIPING PLAN**  
 (4 OF 11)

Project No. 27108(04) Sheet No. T016

08-14-23 G:\Projects\T-2385A - SD, SS, LT - EC-516 US 69 Muskogee Plan Update\CAD\T06-270804-SIGNING & STRIPING PLAN 14 OF 11.dgn



REVISIONS		
NO.	DESCRIPTION	DATE



MULTI-POLY STRIPING SUM. TABLE		
DESCRIPTION	UNIT	TOTALS
TRAFFIC STRIPE (MULTI-POLY) 4" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 4" YELLOW	L.F.	90
TRAFFIC STRIPE (MULTI-POLY) 4" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 6" WHITE	L.F.	4000
TRAFFIC STRIPE (MULTI-POLY) 6" YELLOW	L.F.	2910
TRAFFIC STRIPE (MULTI-POLY) 6" BLACK	L.F.	760
TRAFFIC STRIPE (MULTI-POLY) 8" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 8" YELLOW	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 8" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" YELLOW	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 24" WHITE	L.F.	15
TRAFFIC STRIPE (MULTI-POLY) ARROWS	EA.	2
TRAFFIC STRIPE (MULTI-POLY) WORDS	EA.	0
TRAFFIC STRIPE (MULTI-POLY) SYMBOLS	EA.	0

08-14-23 G:\Projects\1-2385A - SD, SS, LT - EC-516 US 69 Muskogee Plan Update\CAD\T017-2710804-SIGNING & STRIPING PLAN IS OF .dgn



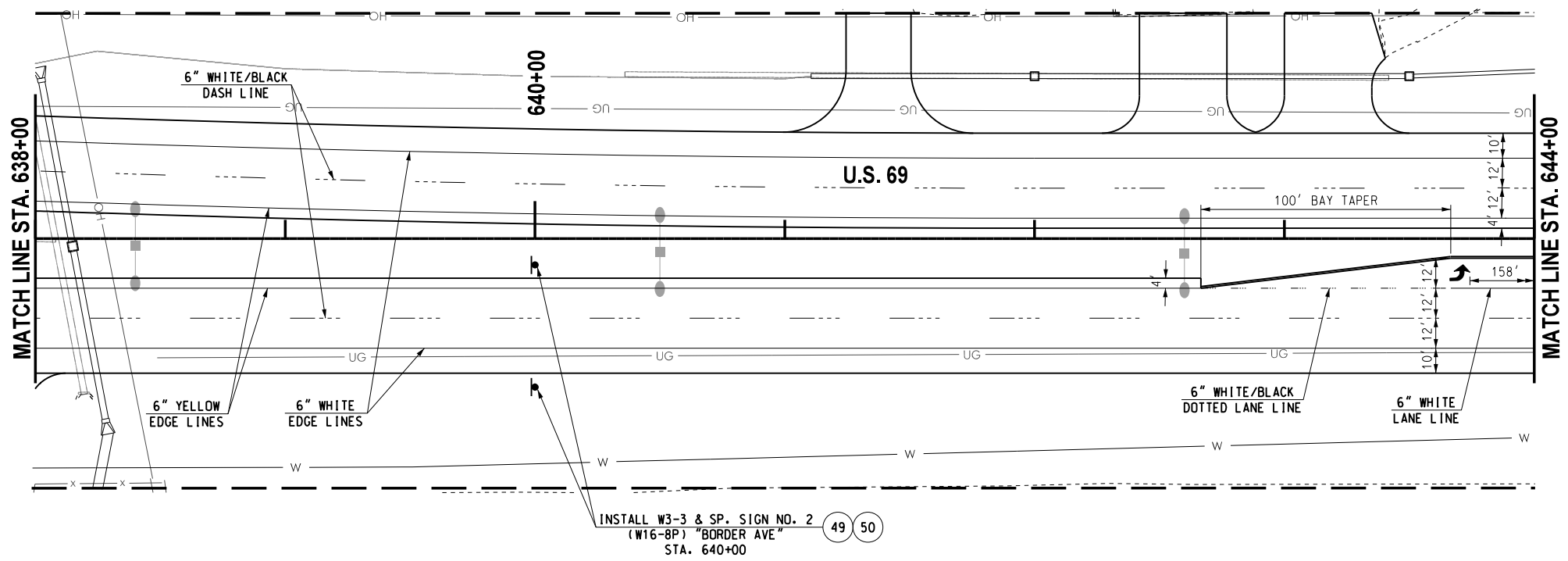
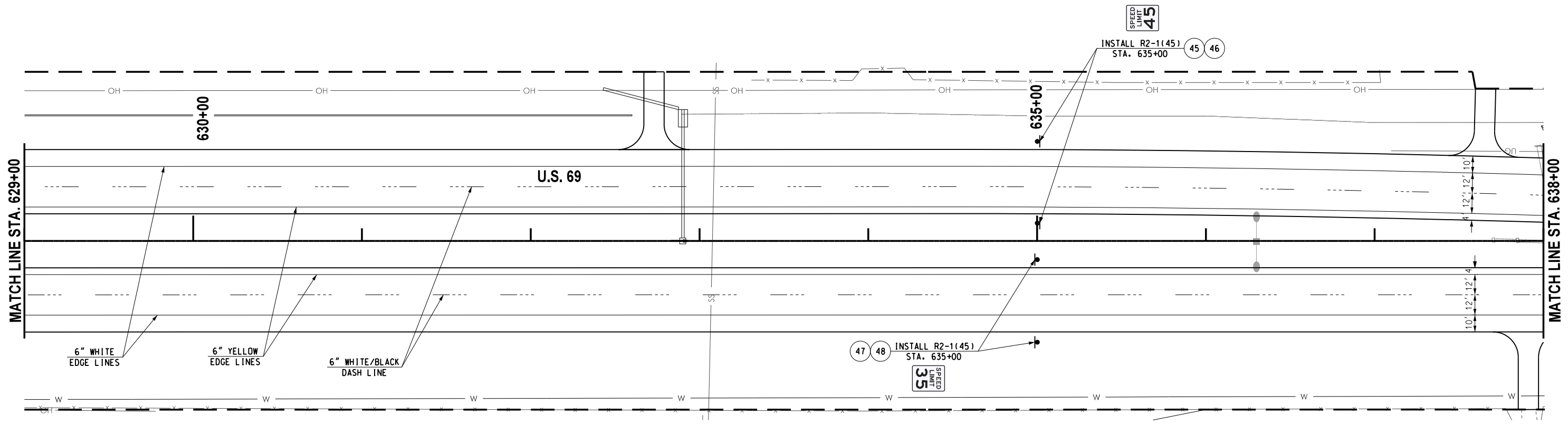
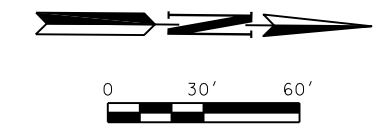
Design	RWR	08-14-23
Drawn	CAL	08-14-23



**SIGNING & STRIPING PLAN**  
(5 OF 11)

Project No. 27108(04) Sheet No. T017

REVISIONS		
NO.	DESCRIPTION	DATE



MULTI-POLY STRIPING SUM. TABLE		
DESCRIPTION	UNIT	TOTALS
TRAFFIC STRIPE (MULTI-POLY) 4" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 4" YELLOW	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 4" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 6" WHITE	L.F.	3825
TRAFFIC STRIPE (MULTI-POLY) 6" YELLOW	L.F.	2865
TRAFFIC STRIPE (MULTI-POLY) 6" BLACK	L.F.	790
TRAFFIC STRIPE (MULTI-POLY) 8" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 8" YELLOW	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 8" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" YELLOW	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 24" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) ARROWS	EA.	1
TRAFFIC STRIPE (MULTI-POLY) WORDS	EA.	0
TRAFFIC STRIPE (MULTI-POLY) SYMBOLS	EA.	0

08-14-23 G:\Projects\1-2385A - SD, SS, LT - EC-516 US 69 Muskogee Plan Update\CAD\T08-27108-STRIPING & STRIPING PLAN 16 OF 11.dgn



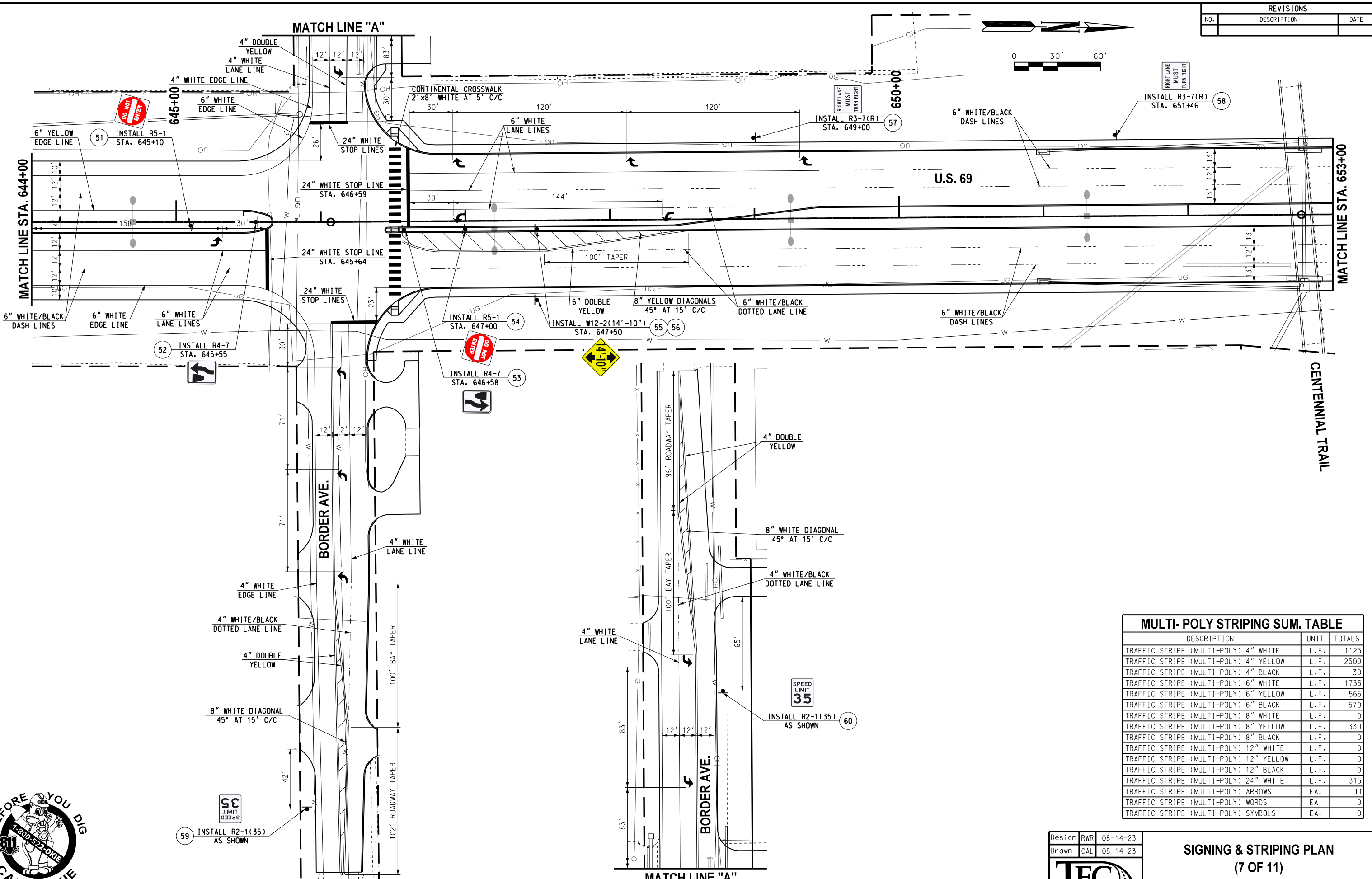
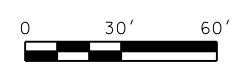
Design	RWR	08-14-23
Drawn	CAL	08-14-23



**SIGNING & STRIPING PLAN**  
(6 OF 11)

Project No. 27108(04) Sheet No. T018

REVISIONS		
NO.	DESCRIPTION	DATE



MULTI-POLY STRIPING SUM. TABLE		
DESCRIPTION	UNIT	TOTALS
TRAFFIC STRIPE (MULTI-POLY) 4" WHITE	L.F.	1125
TRAFFIC STRIPE (MULTI-POLY) 4" YELLOW	L.F.	2500
TRAFFIC STRIPE (MULTI-POLY) 4" BLACK	L.F.	30
TRAFFIC STRIPE (MULTI-POLY) 6" WHITE	L.F.	1735
TRAFFIC STRIPE (MULTI-POLY) 6" YELLOW	L.F.	565
TRAFFIC STRIPE (MULTI-POLY) 6" BLACK	L.F.	570
TRAFFIC STRIPE (MULTI-POLY) 8" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 8" YELLOW	L.F.	330
TRAFFIC STRIPE (MULTI-POLY) 8" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" YELLOW	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 24" WHITE	L.F.	315
TRAFFIC STRIPE (MULTI-POLY) ARROWS	EA.	11
TRAFFIC STRIPE (MULTI-POLY) WORDS	EA.	0
TRAFFIC STRIPE (MULTI-POLY) SYMBOLS	EA.	0

Design RWR 08-14-23  
 Drawn CAL 08-14-23



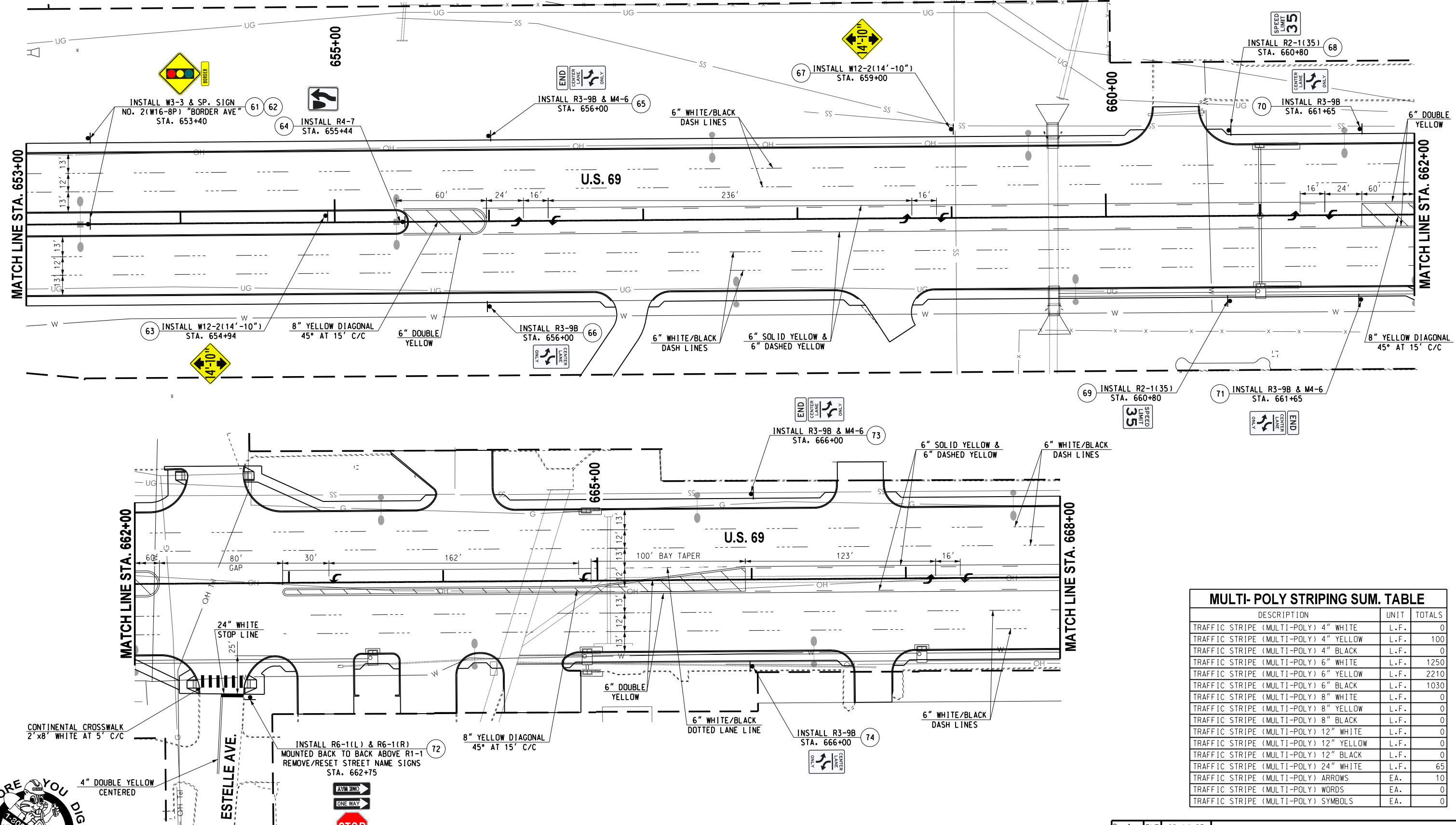
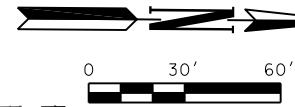
**SIGNING & STRIPING PLAN**  
 (7 OF 11)

Project No. 27108(04) Sheet No. T019

08-14-23 G:\08\projects\T-2385A - SD, SS, LT - EC-516 US 69 Muskogee Plan Update\CAD\T05-27108(04)-SIGNING & STRIPING PLAN (7 OF 11).dgn



REVISIONS		
NO.	DESCRIPTION	DATE



MULTI-POLY STRIPING SUM. TABLE		
DESCRIPTION	UNIT	TOTALS
TRAFFIC STRIPE (MULTI-POLY) 4" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 4" YELLOW	L.F.	100
TRAFFIC STRIPE (MULTI-POLY) 4" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 6" WHITE	L.F.	1250
TRAFFIC STRIPE (MULTI-POLY) 6" YELLOW	L.F.	2210
TRAFFIC STRIPE (MULTI-POLY) 6" BLACK	L.F.	1030
TRAFFIC STRIPE (MULTI-POLY) 8" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 8" YELLOW	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 8" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" YELLOW	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 24" WHITE	L.F.	65
TRAFFIC STRIPE (MULTI-POLY) ARROWS	EA.	10
TRAFFIC STRIPE (MULTI-POLY) WORDS	EA.	0
TRAFFIC STRIPE (MULTI-POLY) SYMBOLS	EA.	0

08-14-23 G:\00\projects\1-2385A - SD, SS, LT - EC-5176 US 69 Muskogee Plan Update\CAD\T020-2710804-SIGNING & STRIPING PLAN (8 OF 11).dgn



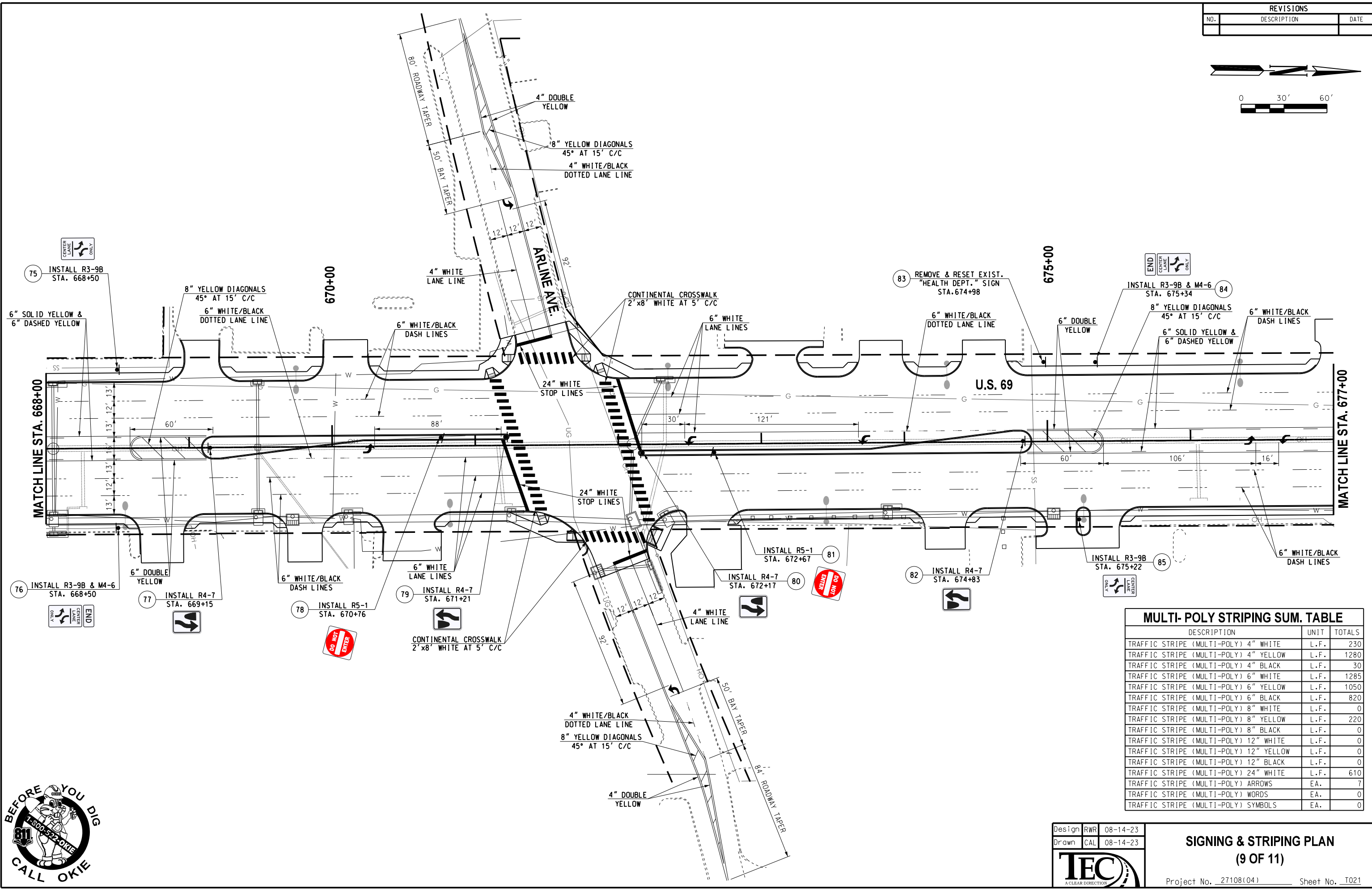
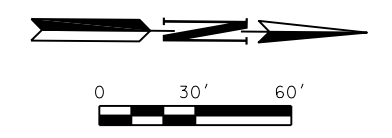
Design	RWR	08-14-23
Drawn	CAL	08-14-23



**SIGNING & STRIPING PLAN**  
(8 OF 11)

Project No. 27108(04) Sheet No. T020

REVISIONS		
NO.	DESCRIPTION	DATE



MULTI-POLY STRIPING SUM. TABLE		
DESCRIPTION	UNIT	TOTALS
TRAFFIC STRIPE (MULTI-POLY) 4" WHITE	L.F.	230
TRAFFIC STRIPE (MULTI-POLY) 4" YELLOW	L.F.	1280
TRAFFIC STRIPE (MULTI-POLY) 4" BLACK	L.F.	30
TRAFFIC STRIPE (MULTI-POLY) 6" WHITE	L.F.	1285
TRAFFIC STRIPE (MULTI-POLY) 6" YELLOW	L.F.	1050
TRAFFIC STRIPE (MULTI-POLY) 6" BLACK	L.F.	820
TRAFFIC STRIPE (MULTI-POLY) 8" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 8" YELLOW	L.F.	220
TRAFFIC STRIPE (MULTI-POLY) 8" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" YELLOW	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 24" WHITE	L.F.	610
TRAFFIC STRIPE (MULTI-POLY) ARROWS	EA.	7
TRAFFIC STRIPE (MULTI-POLY) WORDS	EA.	0
TRAFFIC STRIPE (MULTI-POLY) SYMBOLS	EA.	0

Design RWR 08-14-23  
 Drawn CAL 08-14-23



**SIGNING & STRIPING PLAN**  
 (9 OF 11)

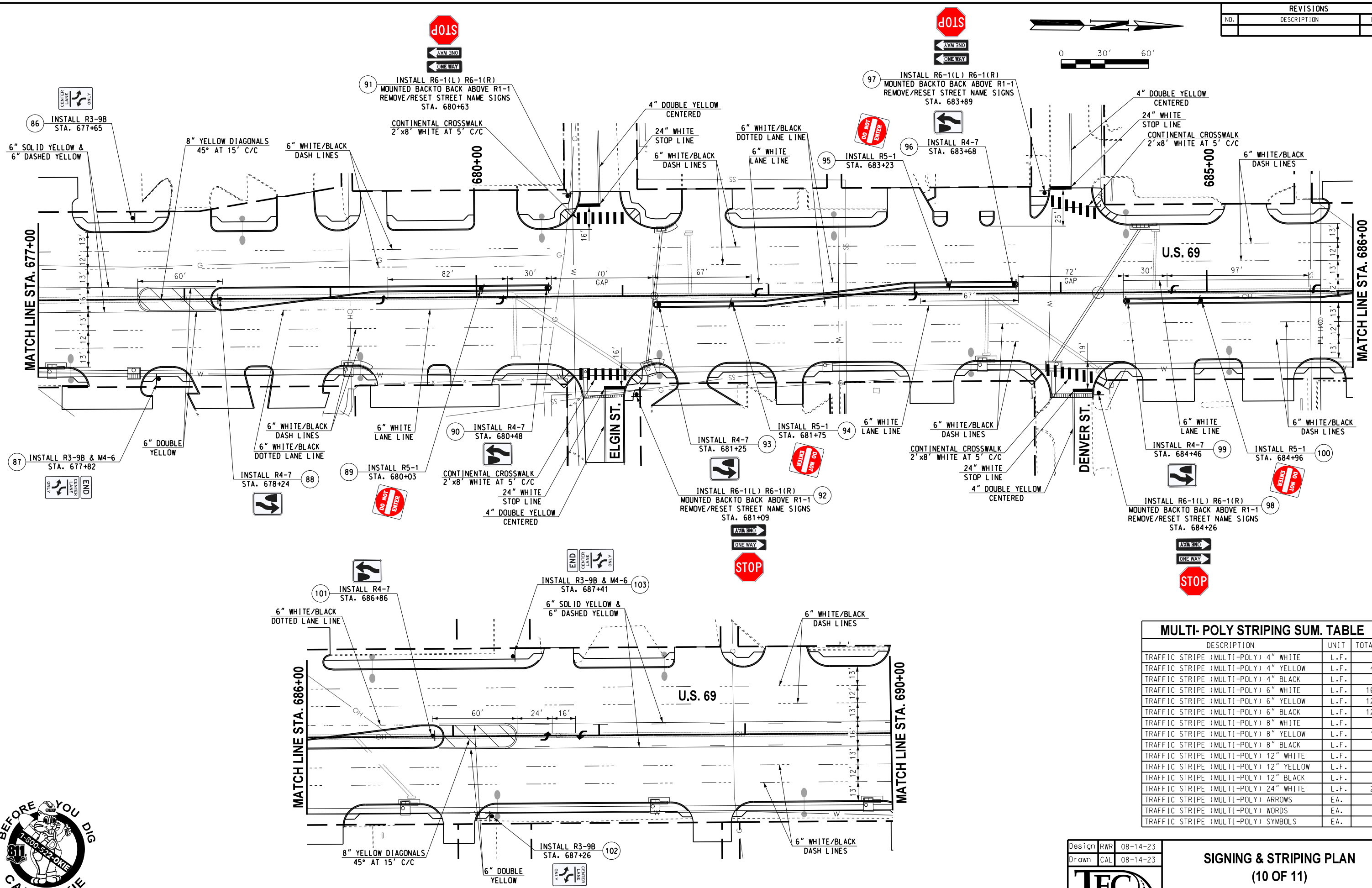
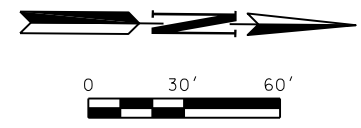
Project No. 27108(04) Sheet No. T021

08-14-23 G:\01\Projects\T-2385A - SD, SS, LT - EC-516 US 69 Muskogee Plan Update\CAD\T021-27108(04)-SIGNING & STRIPING PLAN (9 OF 11).dgn





REVISIONS		
NO.	DESCRIPTION	DATE



Design RWR 08-14-23  
 Drawn CAL 08-14-23



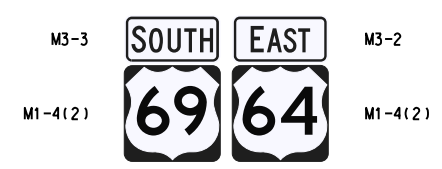
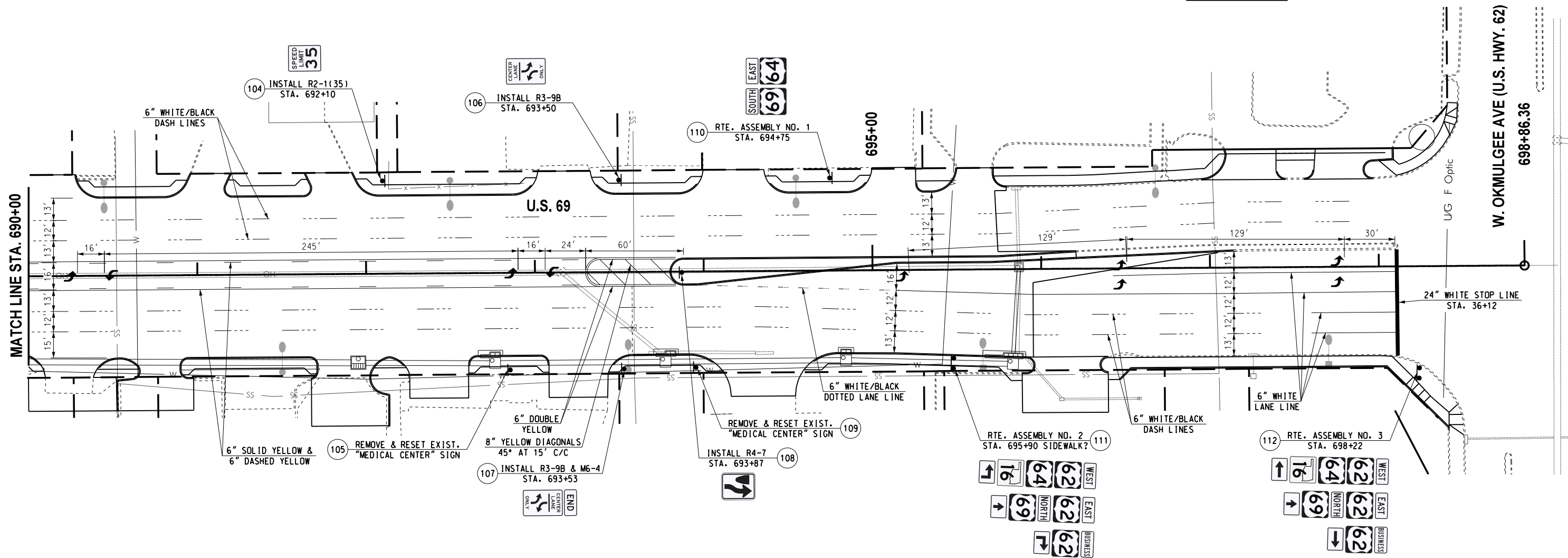
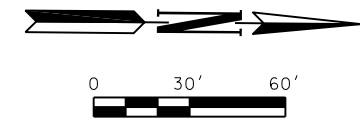
**SIGNING & STRIPING PLAN**  
 (10 OF 11)

Project No. 27108(04) Sheet No. T022

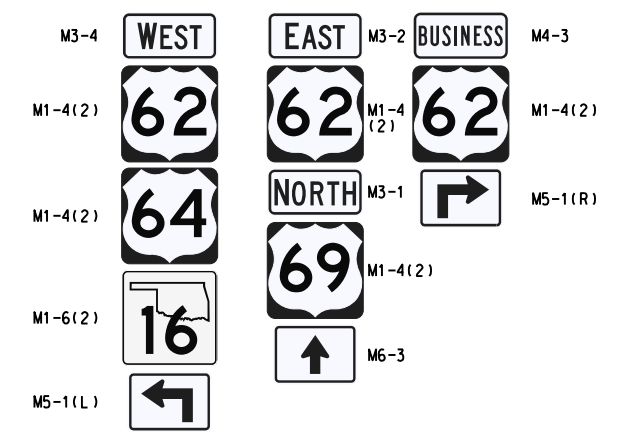
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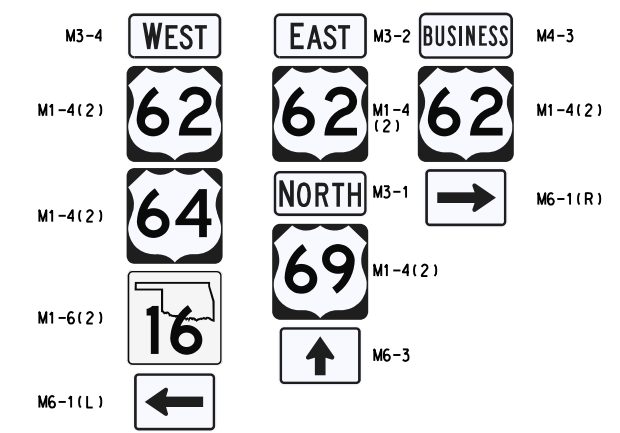
REVISIONS		
NO.	DESCRIPTION	DATE



**ROUTE ASSEMBLY NO. 1**  
12.00 S.F.



**ROUTE ASSEMBLY NO. 2**  
38.57 S.F.



**ROUTE ASSEMBLY NO. 3**  
38.57 S.F.

MULTI- POLY STRIPING SUM. TABLE		
DESCRIPTION	UNIT	TOTALS
TRAFFIC STRIPE (MULTI-POLY) 4" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 4" YELLOW	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 4" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 6" WHITE	L.F.	1330
TRAFFIC STRIPE (MULTI-POLY) 6" YELLOW	L.F.	1070
TRAFFIC STRIPE (MULTI-POLY) 6" BLACK	L.F.	790
TRAFFIC STRIPE (MULTI-POLY) 8" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 8" YELLOW	L.F.	70
TRAFFIC STRIPE (MULTI-POLY) 8" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" WHITE	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" YELLOW	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 12" BLACK	L.F.	0
TRAFFIC STRIPE (MULTI-POLY) 24" WHITE	L.F.	65
TRAFFIC STRIPE (MULTI-POLY) ARROWS	EA.	9
TRAFFIC STRIPE (MULTI-POLY) WORDS	EA.	0
TRAFFIC STRIPE (MULTI-POLY) SYMBOLS	EA.	0

08-14-23 G:\Projects\17-2385A - SD, SS, LT - EC-576 US 69 Muskogee Plan Update\CAD\T023-270804-SIGNING & STRIPING PLAN (11 OF 11).dgn



Design: RWR 08-14-23  
 Drawn: CAL 08-14-23

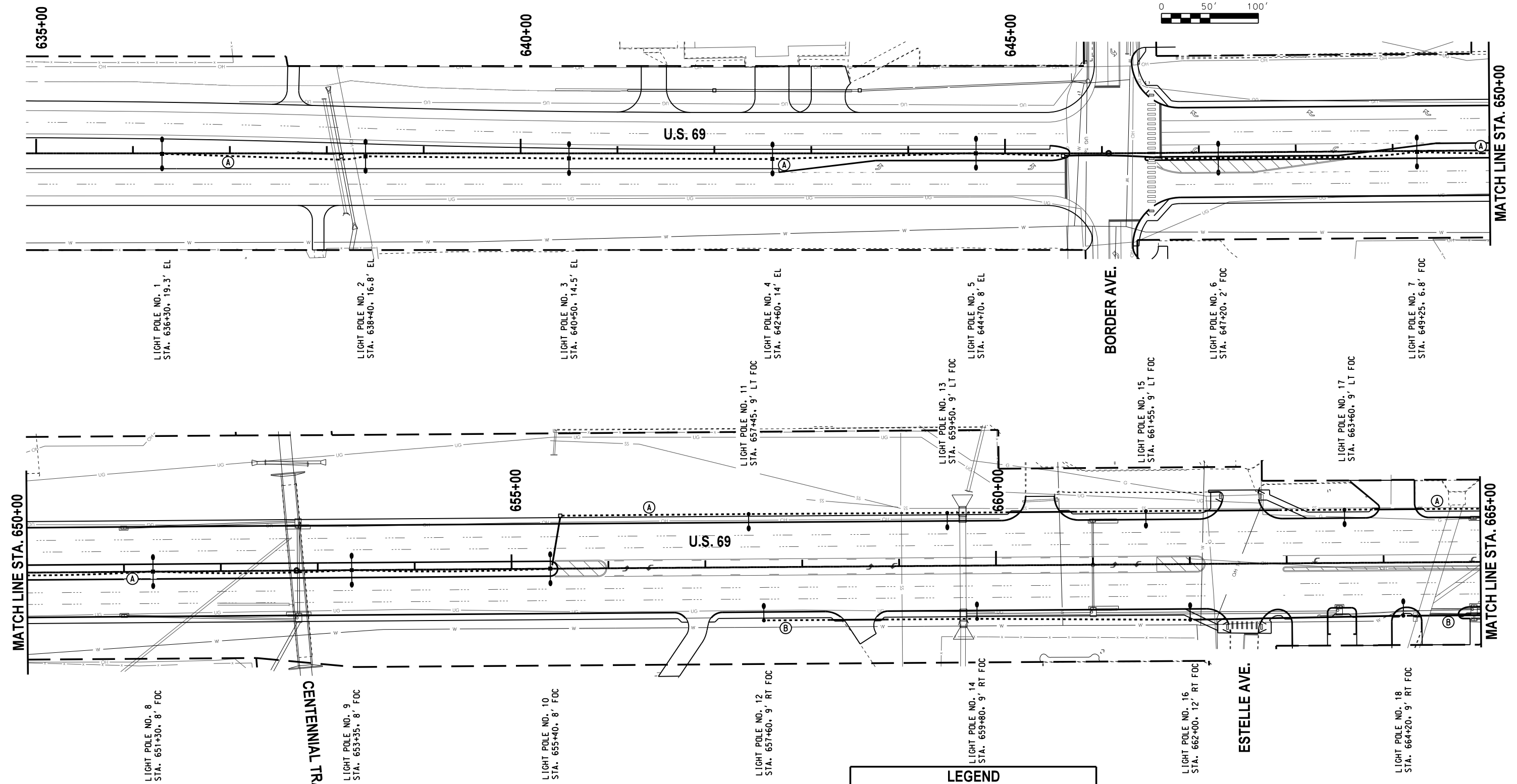
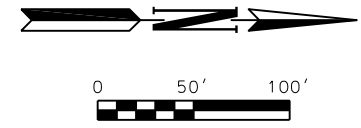
**SIGNING & STRIPING PLAN**  
(11 OF 11)  
 Project No. 27108(04) Sheet No. T023  
 MUSKOGEE COUNTY



08-14-23 Ga:\Projects\T-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\T025-2710804-LIGHTING PLAN (00F 2).dgn



REVISIONS		
NO.	DESCRIPTION	DATE



LEGEND	
---	1 1/4" ELECT. CONDUIT (EXPOSED)
----	2" ELECT. PVC CONDUIT (TRENCHED)
----	2" ELECT. CONDUIT (BORED)
----	2" ELECT. PVC CONDUIT (HDPE) IN BARRIER
----	EXISTING CONDUIT
□	SPECIAL BARRIER WALL PULL BOX
□	SIZE 1 PULL BOX
▲	ELECTRIC SERVICE LOCATION
Ⓐ	CIRCUIT DESIGNATION
⋮	LIGHT POLE W/O BREAKAWAY BASE
⋮	LIGHT POLE W/ BREAKAWAY BASE
⋮	TWIN LIGHT POLE W/O BREAKAWAY BASE
⋮	TWIN LIGHT POLE W/ BREAKAWAY BASE

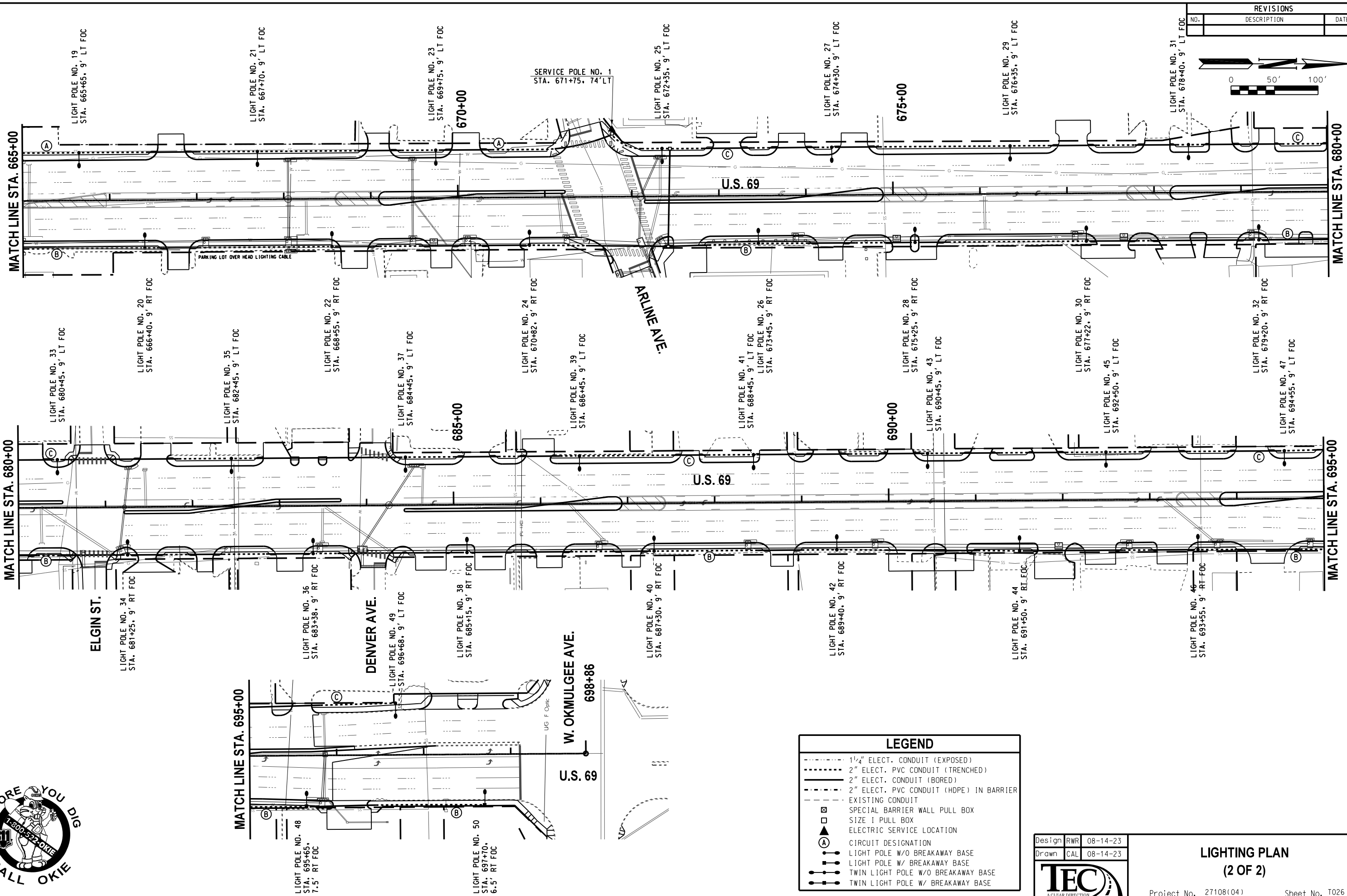
Design	RWR	08-14-23
Drawn	CAL	08-14-23



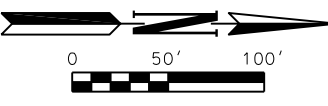
**LIGHTING PLAN**  
(1 OF 2)

Project No. 27108(04) Sheet No. T025

MUSKOGEE COUNTY



REVISIONS		
NO.	DESCRIPTION	DATE



LEGEND	
	1 1/2" ELECT. CONDUIT (EXPOSED)
	2" ELECT. PVC CONDUIT (TRENCHED)
	2" ELECT. CONDUIT (BORED)
	2" ELECT. PVC CONDUIT (HDPE) IN BARRIER
	EXISTING CONDUIT
	SPECIAL BARRIER WALL PULL BOX
	SIZE 1 PULL BOX
	ELECTRIC SERVICE LOCATION
	CIRCUIT DESIGNATION
	LIGHT POLE W/O BREAKAWAY BASE
	LIGHT POLE W/ BREAKAWAY BASE
	TWIN LIGHT POLE W/O BREAKAWAY BASE
	TWIN LIGHT POLE W/ BREAKAWAY BASE

Design	RWR	08-14-23
Drawn	CAL	08-14-23



**LIGHTING PLAN**  
(2 OF 2)

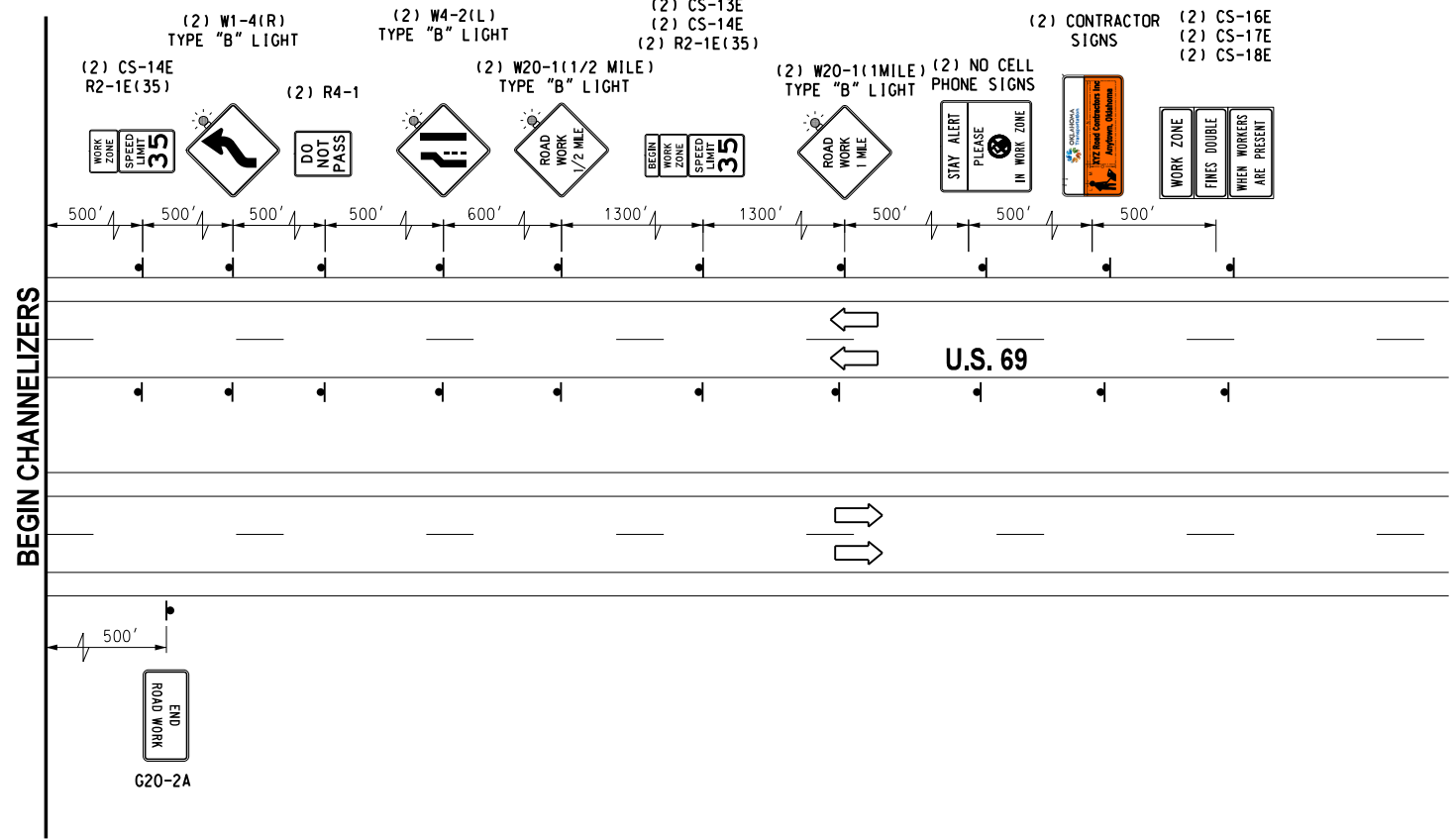
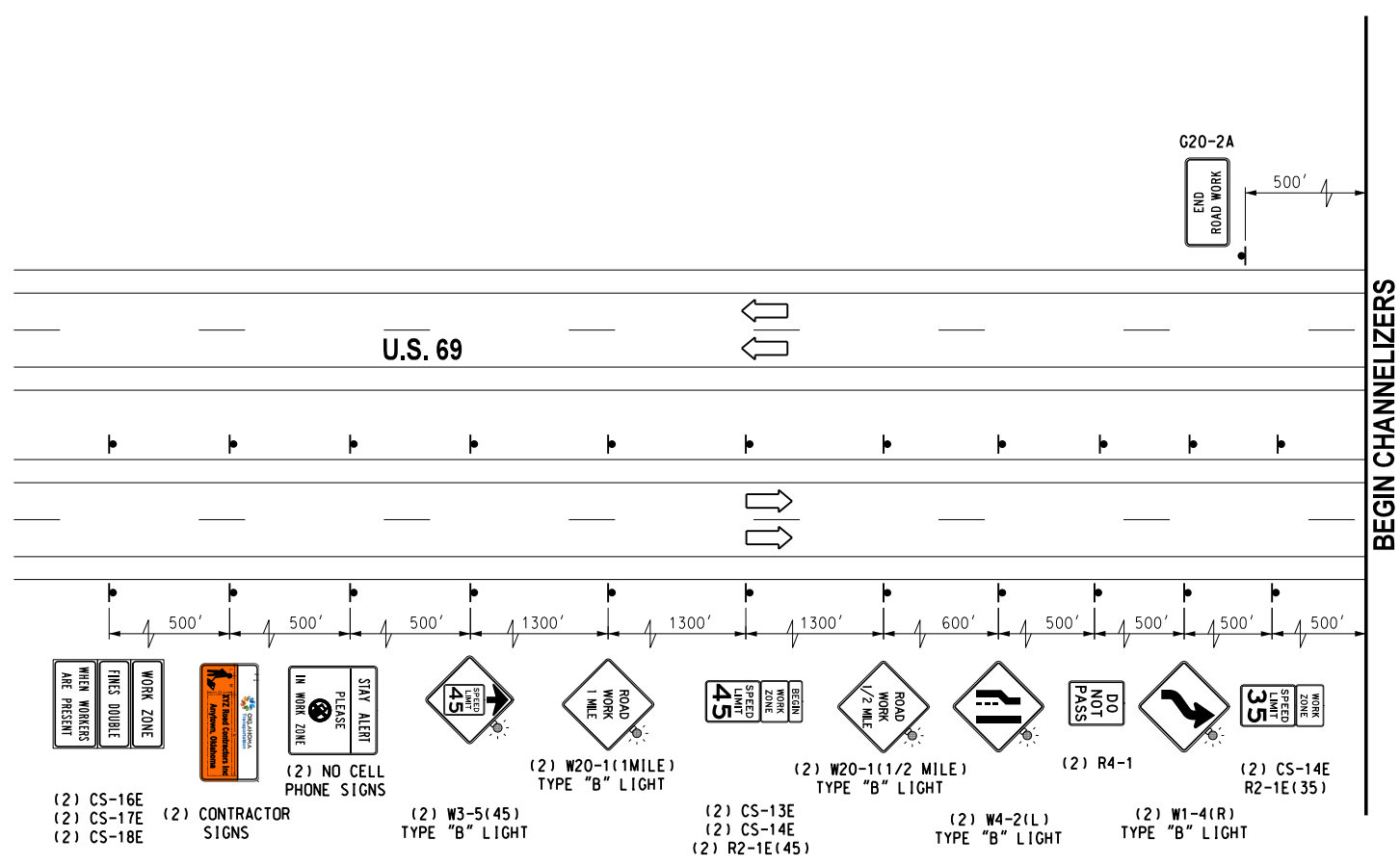
REVISIONS		
NO.	DESCRIPTION	DATE



**CONTRACTOR SIGN**

**CONTRACTOR SUPPLEMENTAL PLAQUES**

FOR MORE INFORMATION AND SPECIFICATIONS SEE LINK BELOW:  
<https://oklahoma.gov/content/dam/ok/en/odot/traffic/Contractor%20Sign%20-%20Color.pdf>



08-14-23 G:\VOP\Projects\T-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\T027-2710804-TYPICAL ADVANCE WARNING SIGNS PHASE 1.0.dgn

**Phase 1.0 - U.S. Highway 69**  
 Close inner south north bound lanes. Shift Southbound and Northbound traffic to outside lanes traffic.  
 Begin incidental construction operations removal of exist median and construction of Crossover No.1 from Sta. 562+00 to Sta. 566+50 (Typical Section No. 4).

DRAWING NOT TO SCALE

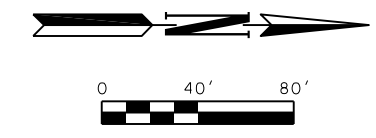
Design	RWR	08-14-23
Drawn	CAL	08-14-23



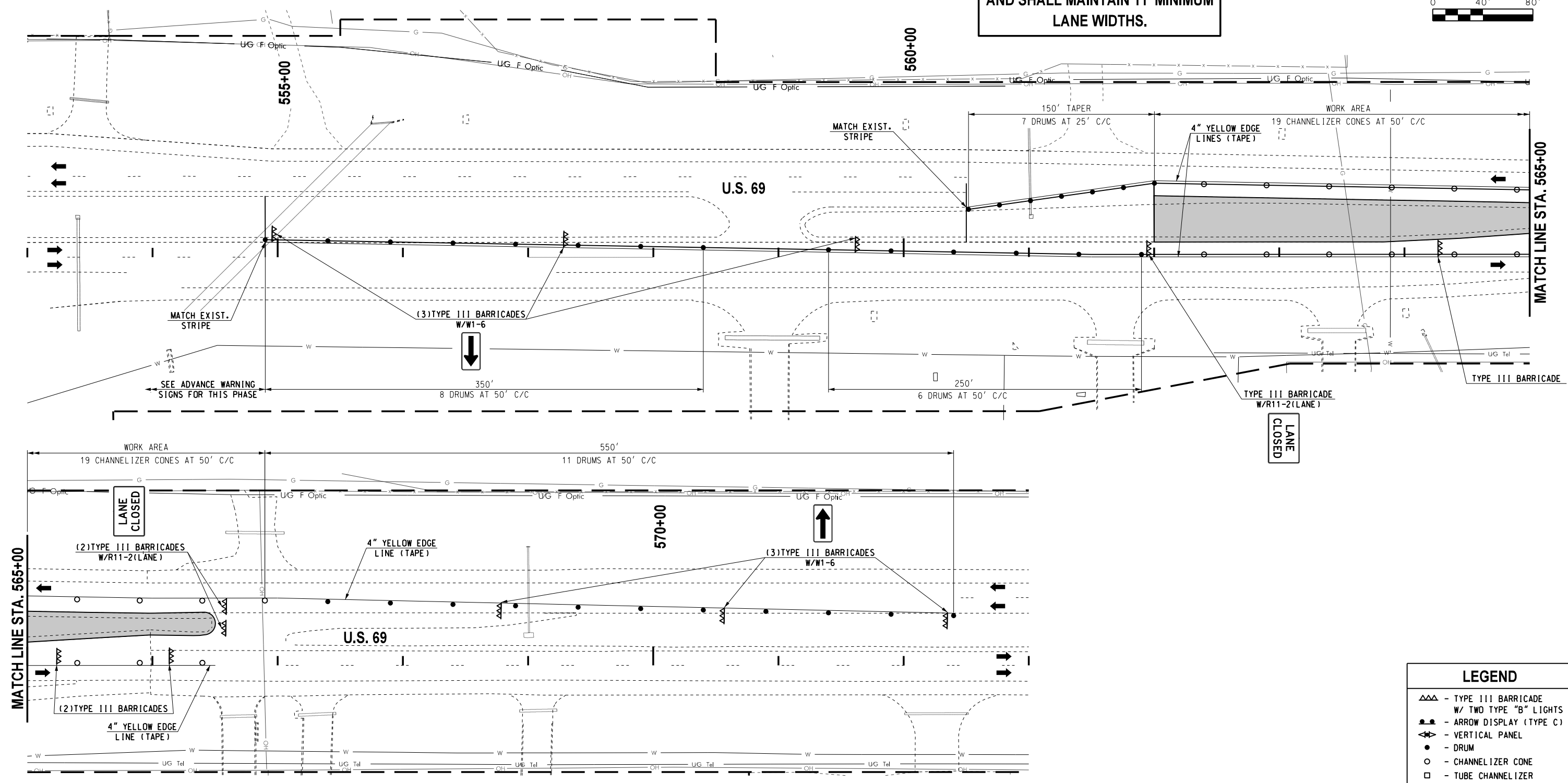
**TYPICAL ADVANCE WARNING SIGNS  
 PHASE 1.0**

State Job No. 2710804 Sheet No. T027

REVISIONS		
NO.	DESCRIPTION	DATE



**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.**



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA



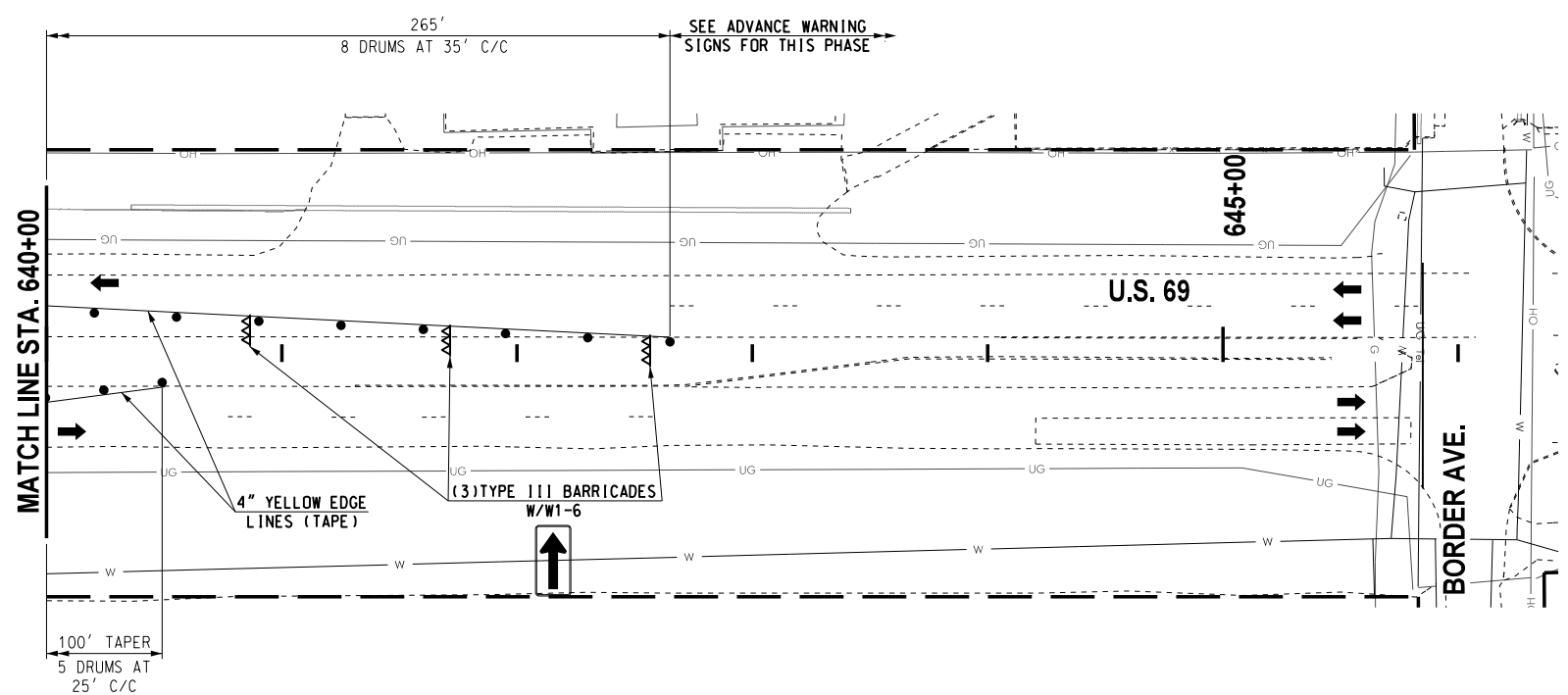
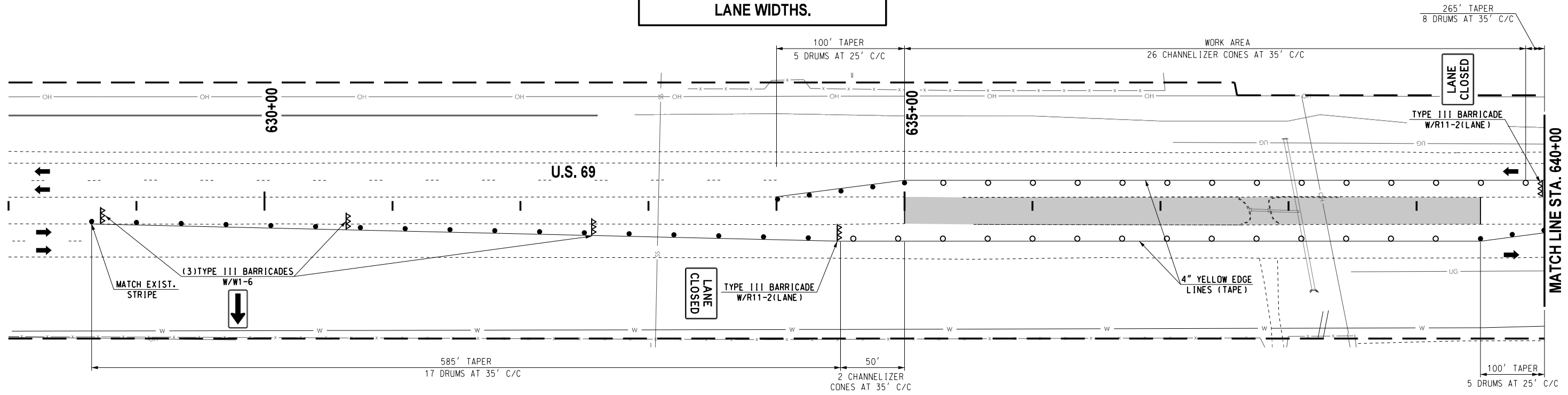
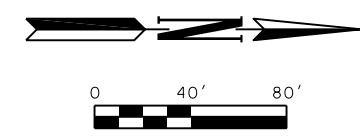
Design	RWR	08-14-23
Drawn	CAL	08-14-23
<b>TEC</b> A CLEAR DIRECTION		

**TRAFFIC CONTROL PLAN  
PHASE 1.0  
(1 OF 2)**  
Project No. 2710804 Sheet No. 1028  
MUSKOGEE COUNTY

08-14-23 G:\V\Projects\1-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\1028-270804-TRAFFIC CONTROL PLAN PHASE 1.0 (1 OF 2).dgn

REVISIONS		
NO.	DESCRIPTION	DATE

**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.**



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA

08-14-23 Ga:\0\Projects\1-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\1029-270804-TRAFFIC CONTROL PLAN PHASE 1.0 (2 OF 2).dgn



Design	RWR	08-14-23
Drawn	CAL	08-14-23
<b>TEC</b> A CLEAR DIRECTION		

**TRAFFIC CONTROL PLAN  
PHASE 1.0  
(2 OF 2)**

Project No. 2710804      Sheet No. 1029  
MUSKOGEE COUNTY



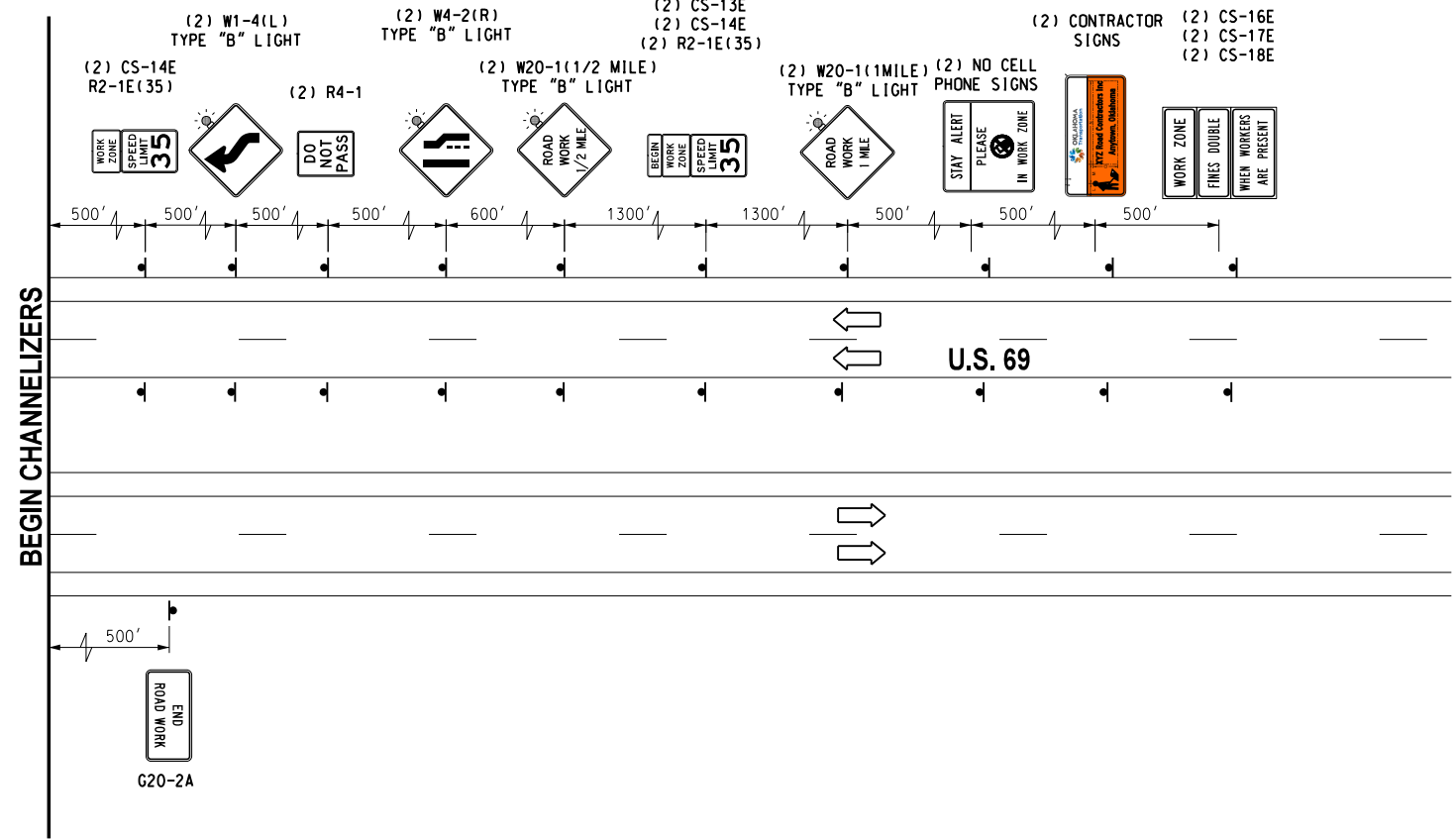
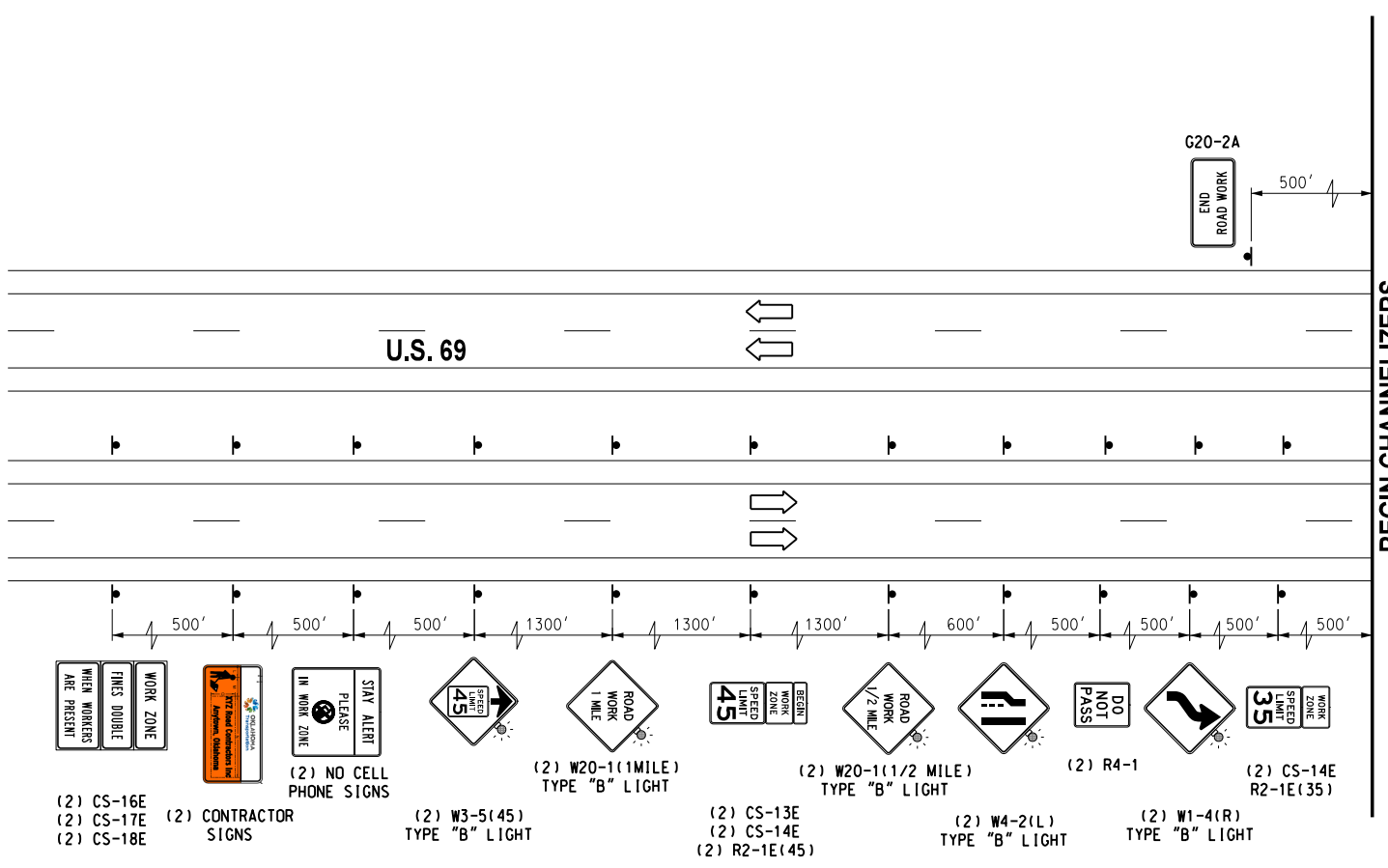
REVISIONS		
NO.	DESCRIPTION	DATE



**CONTRACTOR SIGN**

**CONTRACTOR SUPPLEMENTAL PLAQUES**

FOR MORE INFORMATION AND SPECIFICATIONS SEE LINK BELOW:  
<https://oklahoma.gov/content/dam/ok/en/odot/traffic/Contractor%20Sign%20-%20Color.pdf>



**Phase 1.1 - U.S. Highway 69**  
 Shift southbound traffic to northbound traffic inside driving lane. From Sta. 635+00 to Sta 656+00. Keep northbound traffic in the outside driving lane. Install southbound drainage structures No. 1 & No. 3, side structures No. S24 & S25. Construct southbound Proposed curbs, gutters, sidewalks, & Driveways. Construct southbound intersection return and handicap ramps. Perform grading place Fabric, Agg. Base, prime coat, Cement Base, tack coat, and paving operations in southbound traffic lanes and shoulder from Sta. 642+00 to Sta. 656+46+06.85 (Typical Section No. 1) and Sta. 646+06.86 to Sta. 556+00.00 (Typical Section No. 3).

DRAWING NOT TO SCALE

Design	RWR	08-14-23
Drawn	CAL	08-14-23



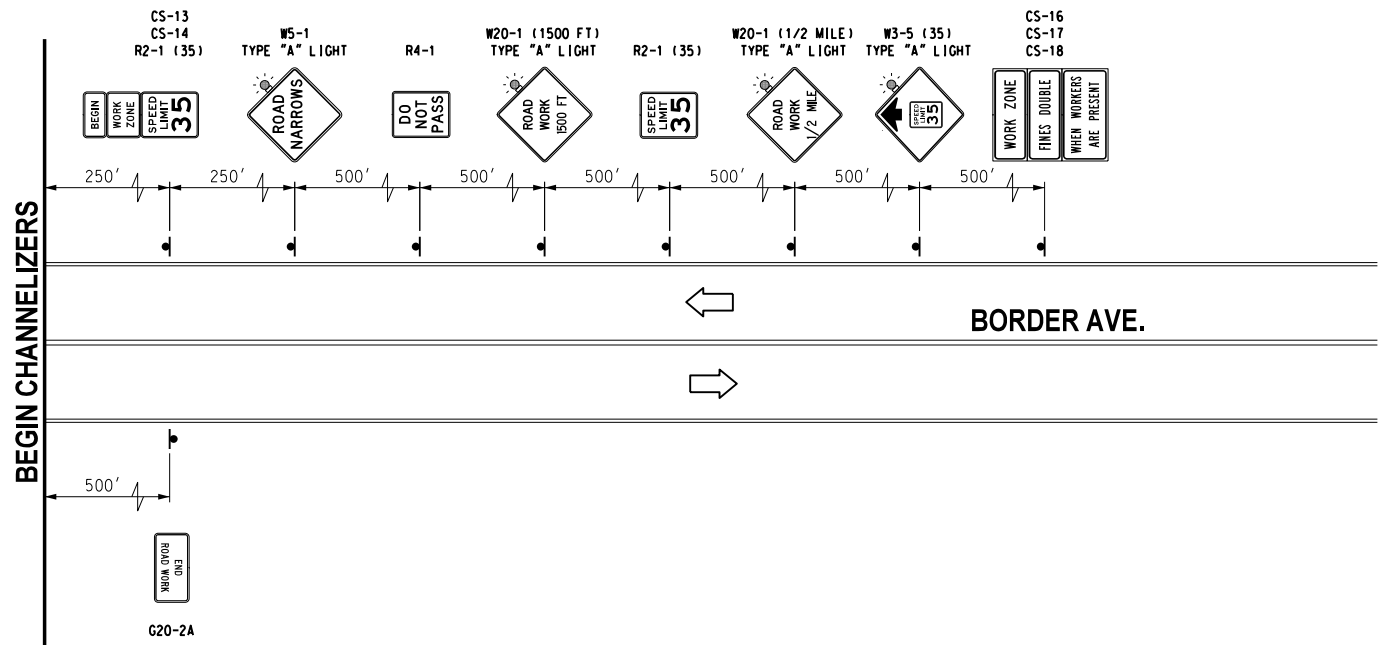
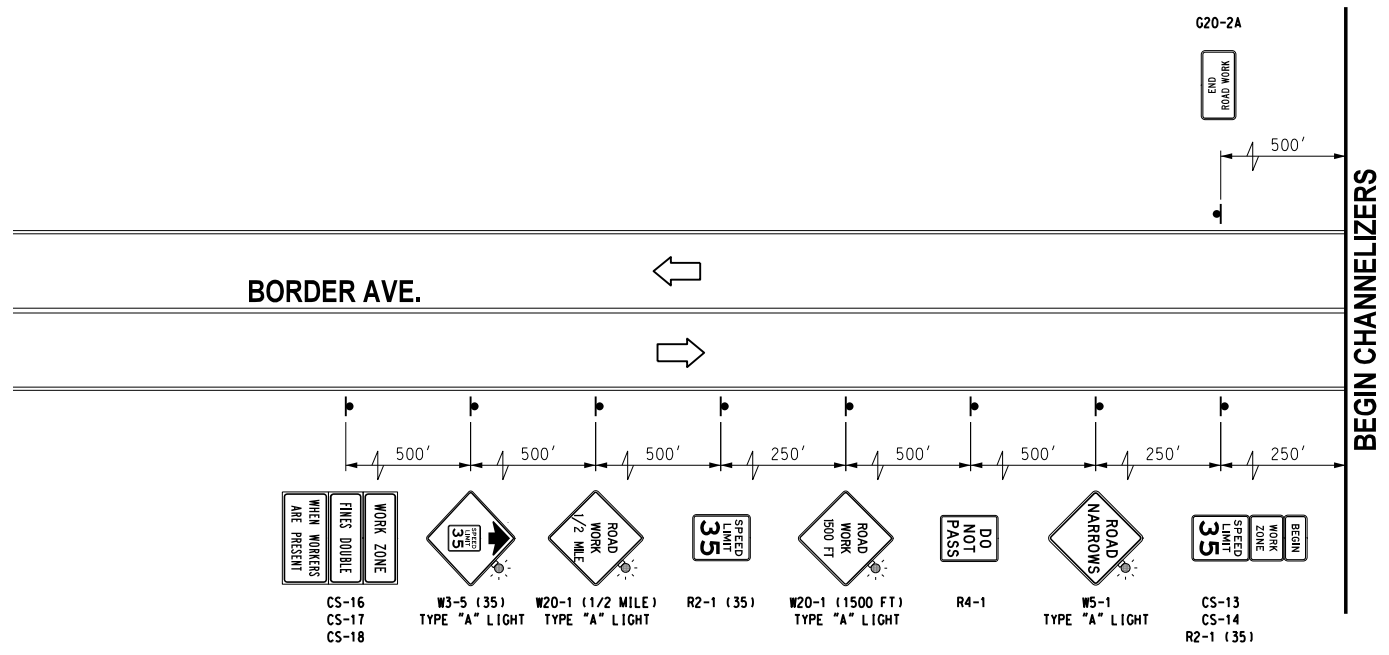
**TYPICAL ADVANCE WARNING SIGNS  
 PHASE 1.1 (U.S. 69)**

State Job No. 2710804 Sheet No. I030

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REVISIONS		
NO.	DESCRIPTION	DATE



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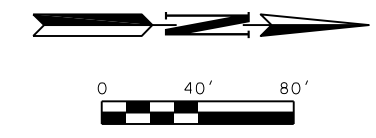
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Drawn	CAL	08-14-23



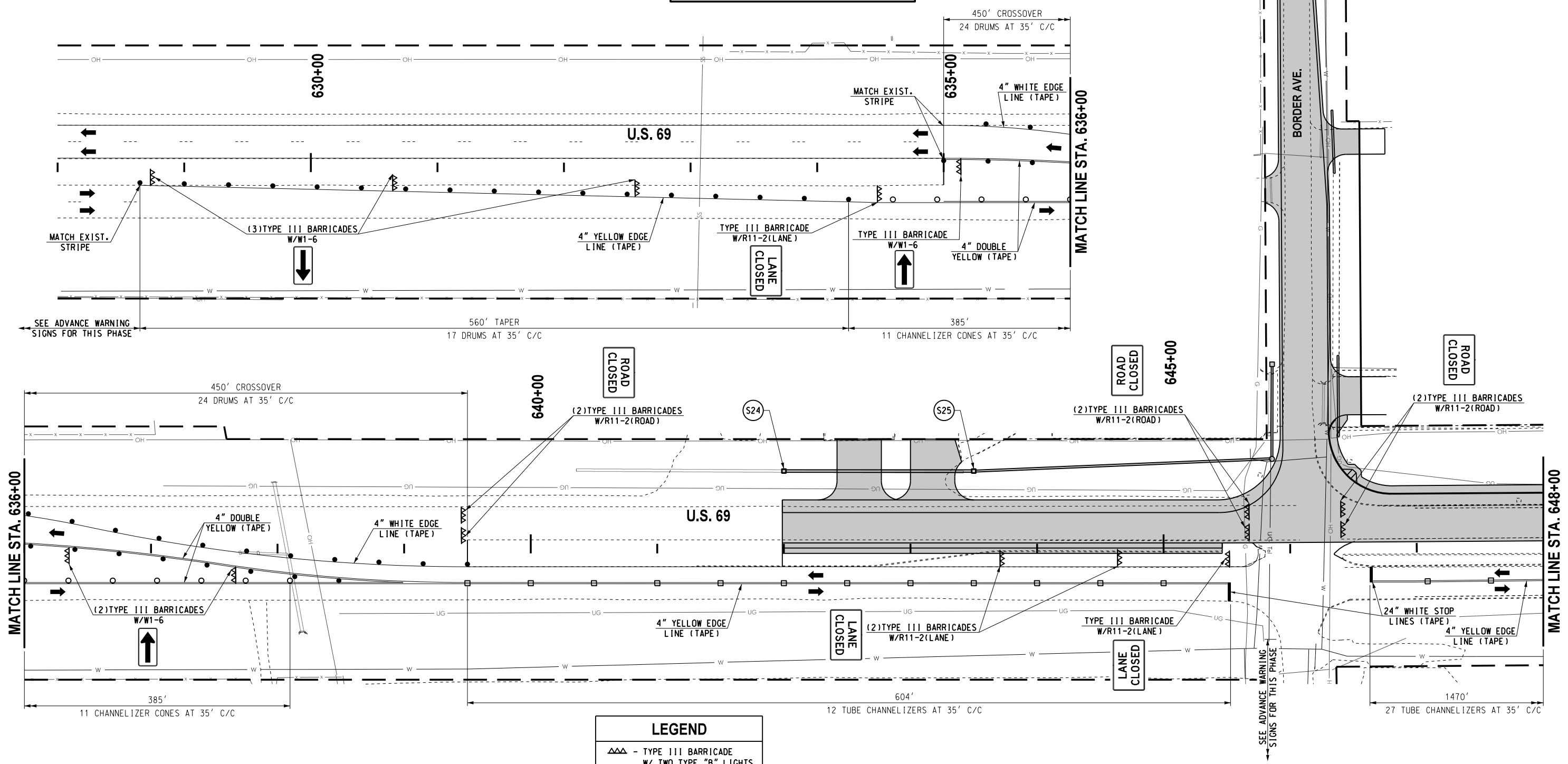
**TYPICAL ADVANCE WARNING SIGNS  
PHASE 1.1 (BORDER AVE.)**

State Job No. 2710804 Sheet No. T031

REVISIONS		
NO.	DESCRIPTION	DATE



**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 10' MINIMUM LANE WIDTHS.**



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA



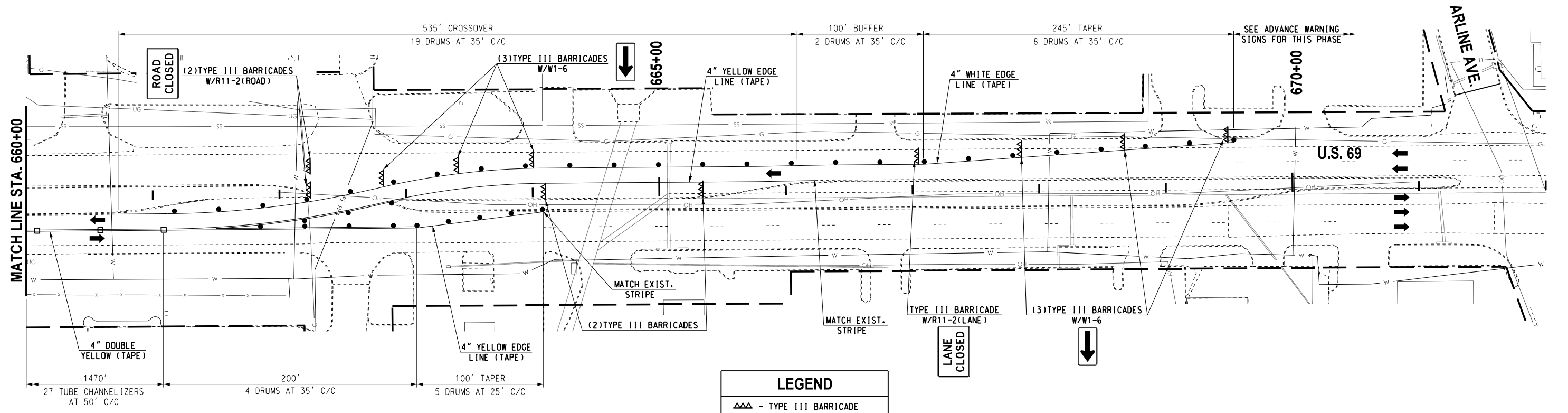
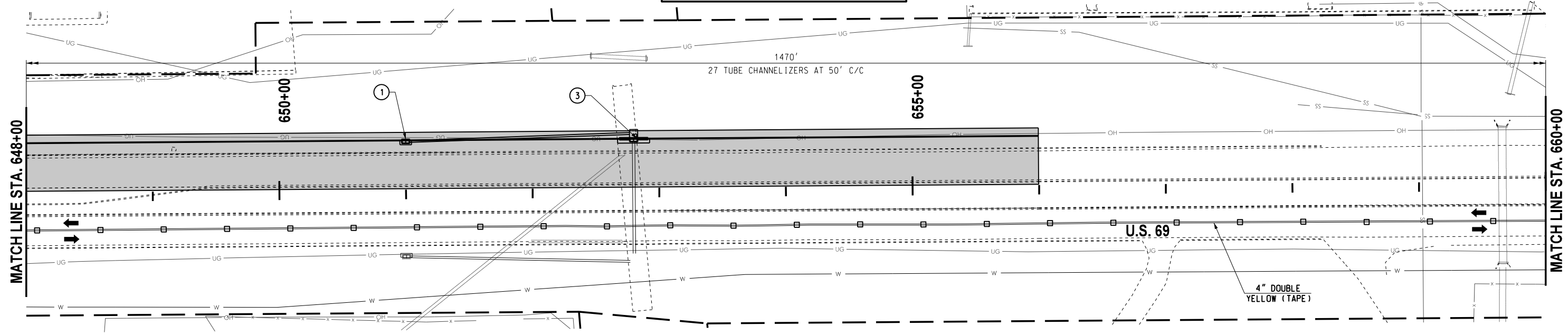
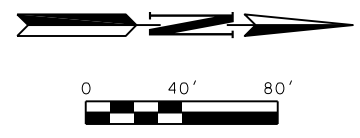
Design	RWR	08-14-23
Drawn	CAL	08-14-23

**TRAFFIC CONTROL PLAN  
PHASE 1.1  
(1 OF 2)**  
Project No. 2710804 Sheet No. I032  
MUSKOGEE COUNTY

08-14-23 G:\V\Projects\1-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\I032-270804-TRAFFIC CONTROL PLAN PHASE 1.1\I032.dgn

REVISIONS		
NO.	DESCRIPTION	DATE

**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.**



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA



Design	RWR	08-14-23
Drawn	CAL	08-14-23

**TRAFFIC CONTROL PLAN  
PHASE 1.1  
(2 OF 2)**

Project No. 2710804 Sheet No. I033  
MUSKOGEE COUNTY

08-14-23 G:\V\Projects\T-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\I033-270804-TRAFFIC CONTROL PLAN PHASE 1.1 (2 OF 2).dgn

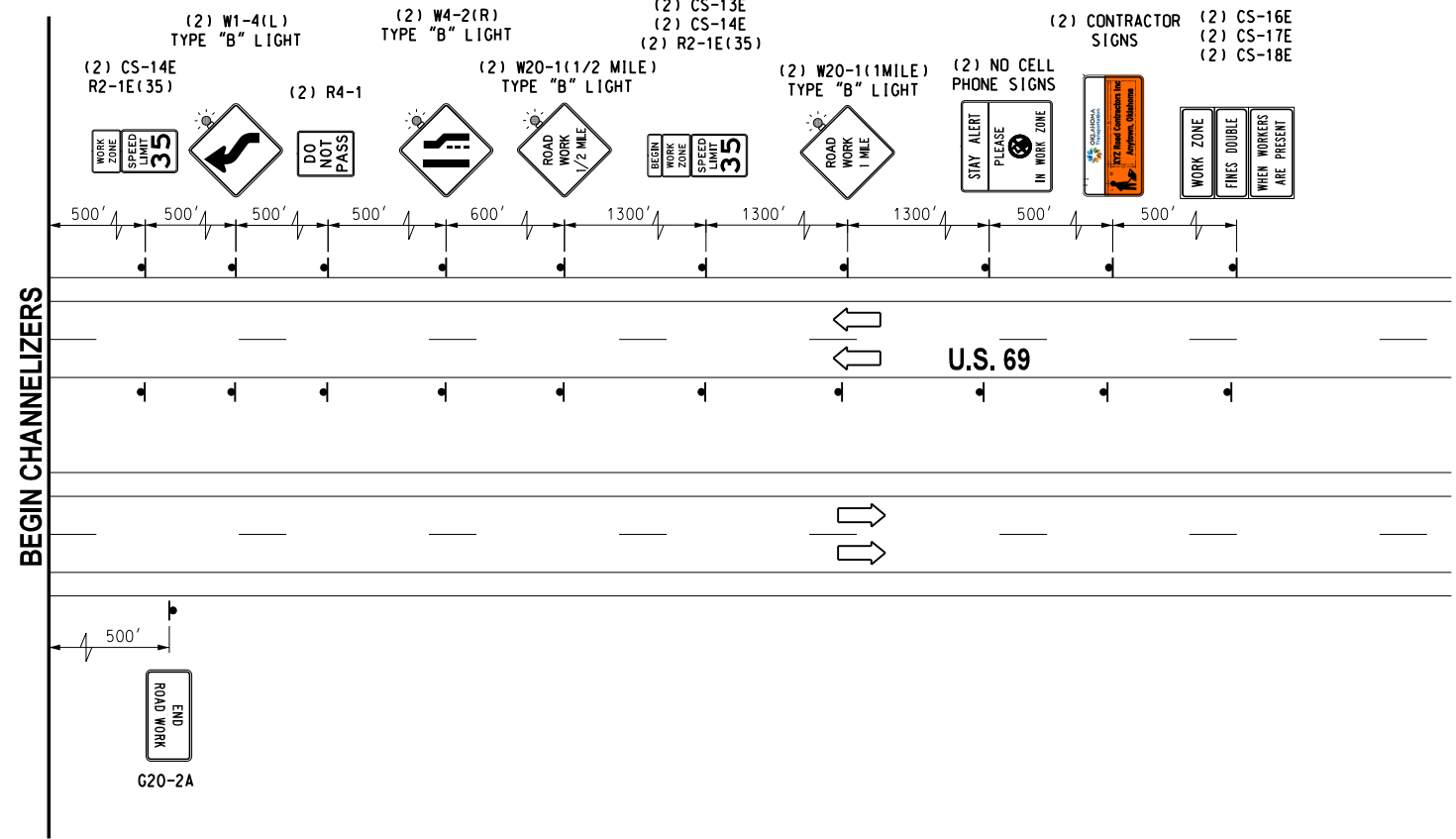
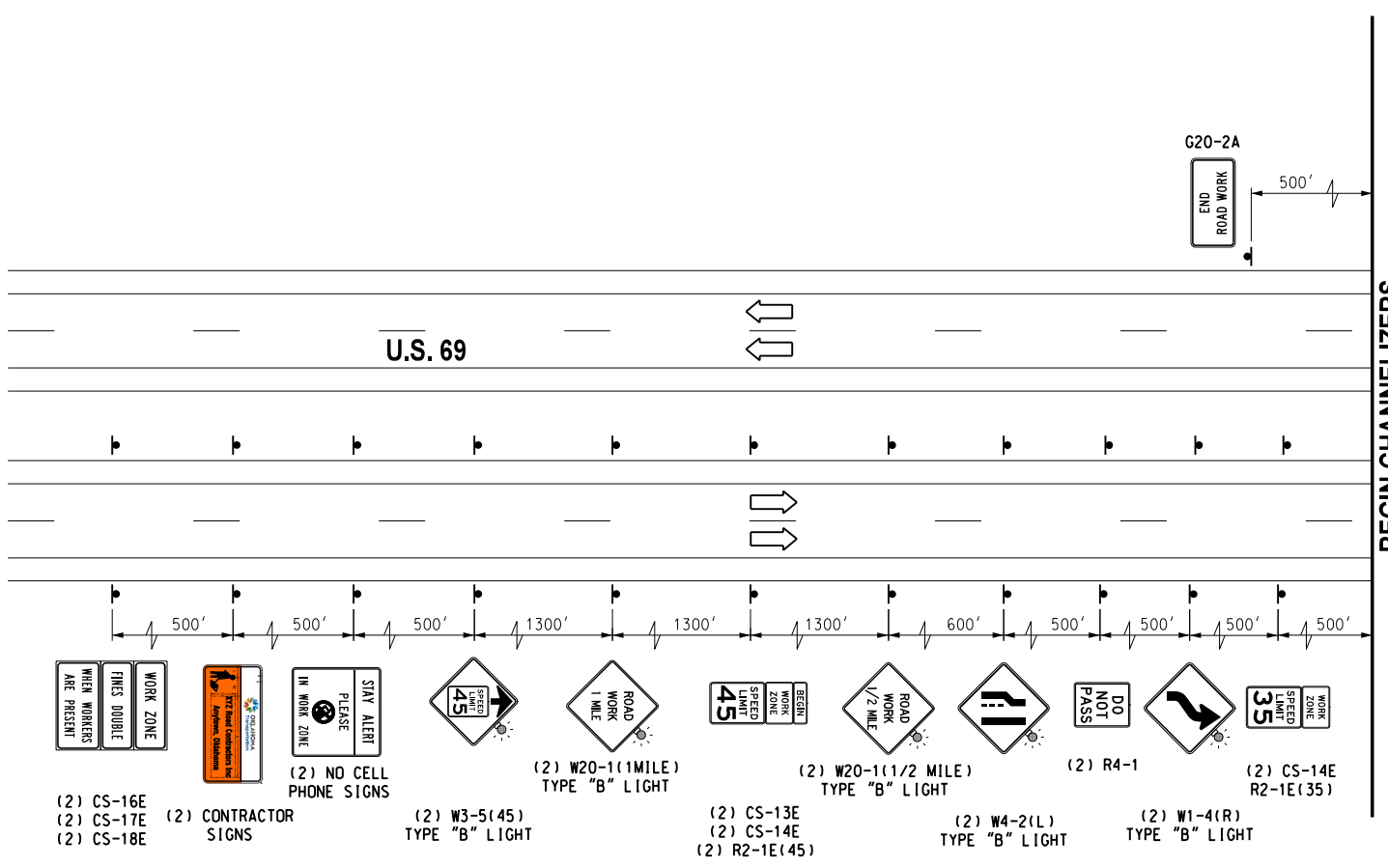
REVISIONS		
NO.	DESCRIPTION	DATE



**CONTRACTOR SIGN**

**CONTRACTOR SUPPLEMENTAL PLAQUES**

FOR MORE INFORMATION AND SPECIFICATIONS SEE LINK BELOW:  
<https://oklahoma.gov/content/dam/ok/en/odot/traffic/Contractor%20Sign%20-%20Color.pdf>



**Phase 1.2 - U.S. Highway 69**  
 Maintain southbound traffic on northbound inside driving lane. Shift northbound traffic to northbound outside driving lane. From Sta. 635+00 to Sta 652+00. Install northbound drainage structures No. 2 & 4, and Structure No. 5. Construct northbound Proposed curbs, gutters, sidewalks, & Driveways. Construct northbound intersection return and handicap ramps. Perform grading, place Fabric, Agg. Base, prime coat, Cement Base, tack coat, and paving operations in northbound traffic lanes & shoulder grading and paving operations from Sta. 642+00 to Sta. 656+46+06.85 (Typical Section No. 2) and Sta. 646+06.86 to Sta. 556+00.00 (Typical Section No. 3).

(Concurrent with Phase 1.2 and Phase 1.3) Cross southbound traffic to northbound inside driving lane (two-way traffic). Bike/trail overpass demolition and new construction over US Highway 69  
 Once Phase 1.2 is completed, begin demolition on northbound bridge abutment, pier and approximately 80 feet of deck slab span, leaving a minimum of 15 feet of deck slab span from centerline of middle pier.

**Phase 1.3 - U.S. Highway 69**  
 Shift traffic control and reduce traffic disturbance during construction of Trail Overpass construction. Shift northbound traffic to northbound outside driving lane. Cross southbound traffic to northbound inside driving lane (two-way traffic). Provide adequate clearance necessary for 15 feet of deck slab span remaining to the south. Once traffic has been safely moved, moved continue demolition on southbound bridge remaining deck slab span, pier, and bridge abutment. Construct Proposed Trail Overpass on Border Ave. from Sta. 18+00 to Sta. 22+50. See Centennial Trail Section and Trail Overpass Plan and Profile Bridge "A" Plans. Once phase 1.3 is completed shift traffic and proceed to phase 2.

DRAWING NOT TO SCALE

Design	RWR	08-14-23
Drawn	CAL	08-14-23



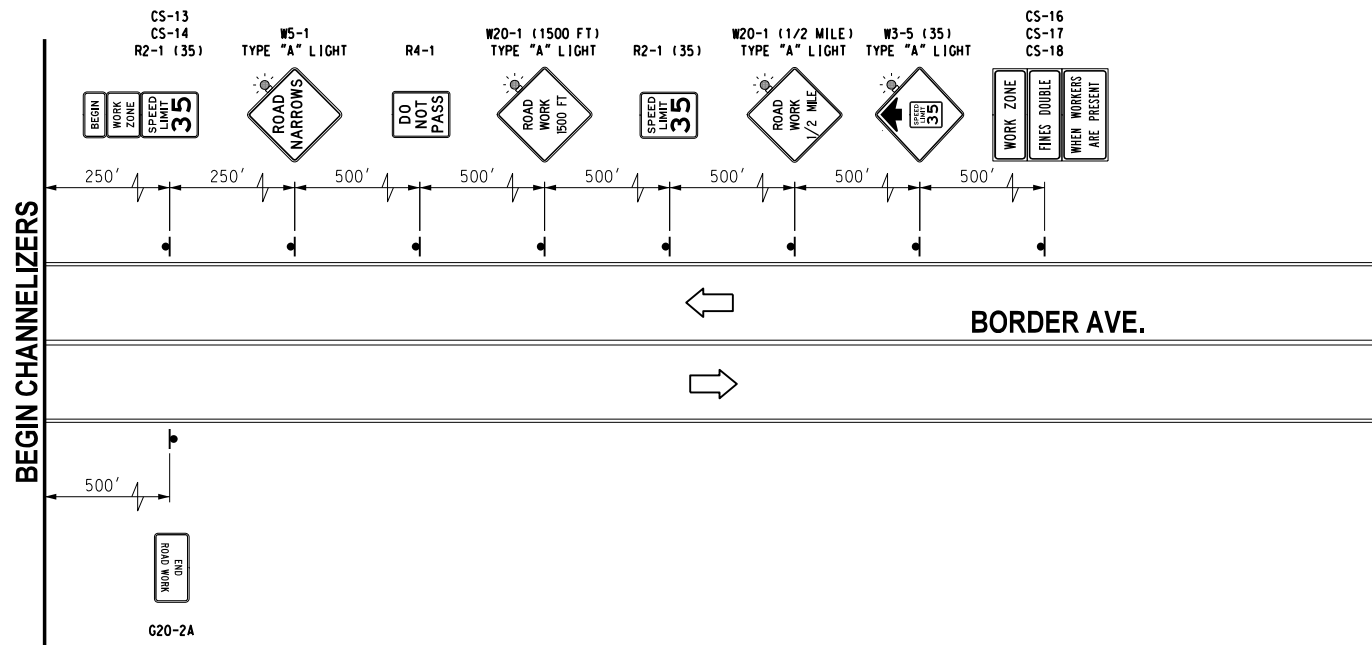
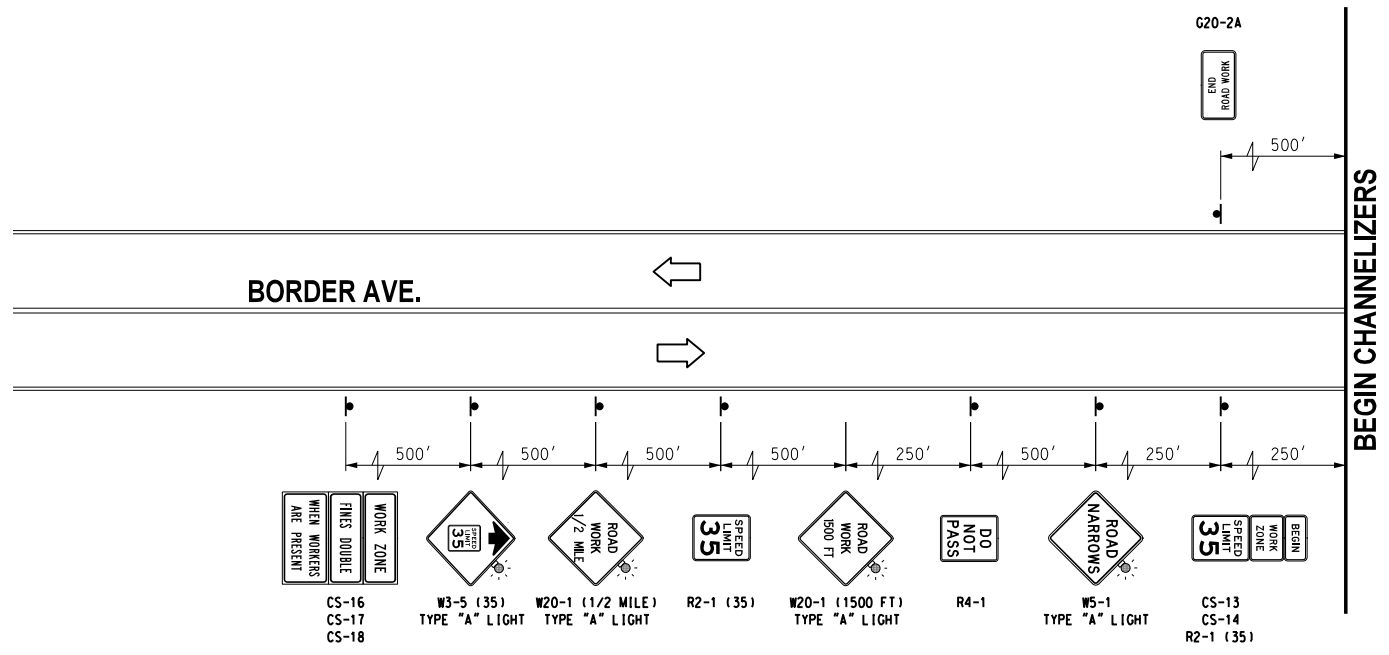
**TYPICAL ADVANCE WARNING SIGNS  
 PHASES 1.2 & 1.3 (U.S. 69)**

State Job No. 2710804 Sheet No. 1034

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REVISIONS		
NO.	DESCRIPTION	DATE



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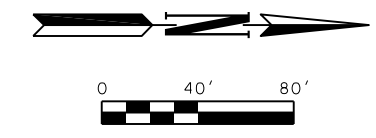
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Drawn	CAL	08-14-23



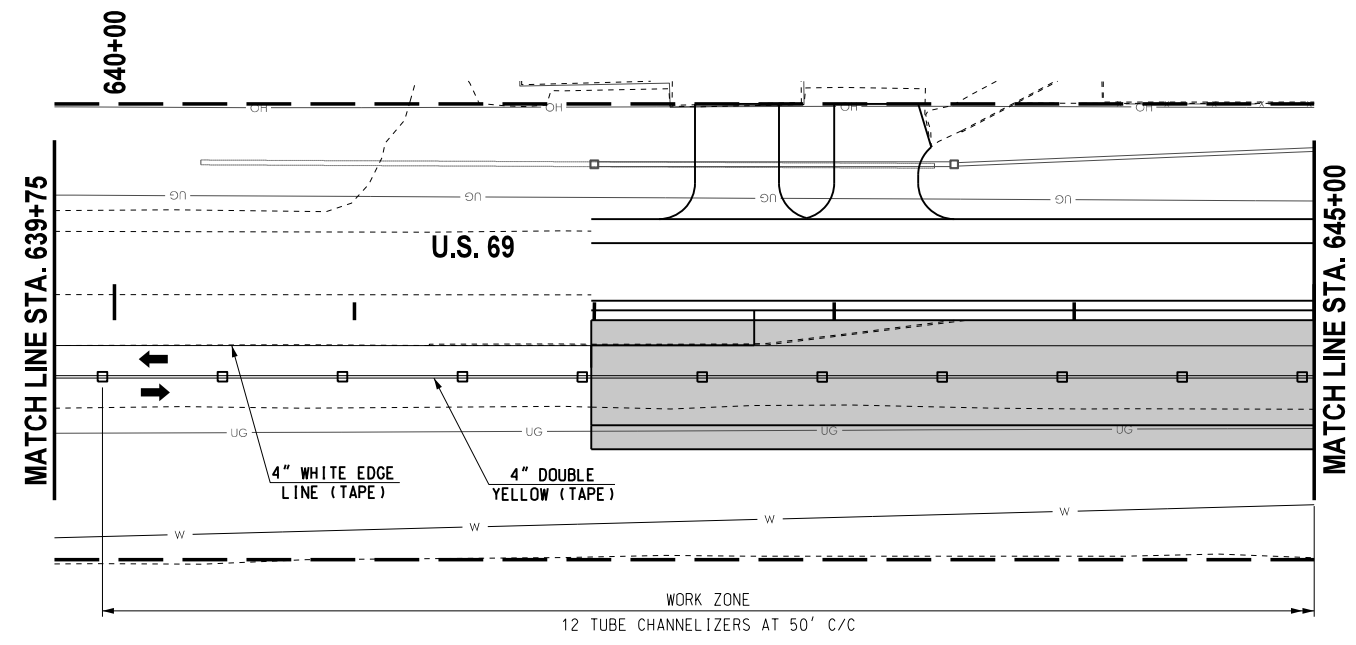
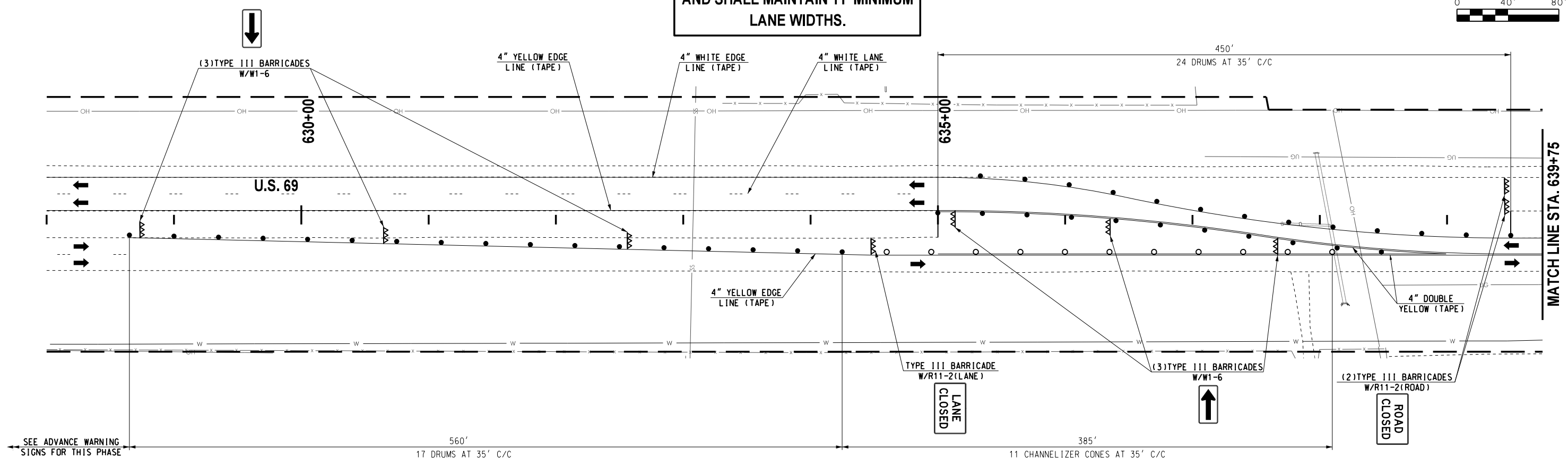
**TYPICAL ADVANCE WARNING SIGNS  
PHASE 1.2 & 1.3 (BORDER AVE.)**

State Job No. 2710804 Sheet No. T035

REVISIONS		
NO.	DESCRIPTION	DATE



**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.**



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA

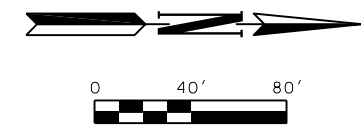


Design	RWR	08-14-23
Drawn	CAL	08-14-23
<b>TEC</b> A CLEAR DIRECTION		

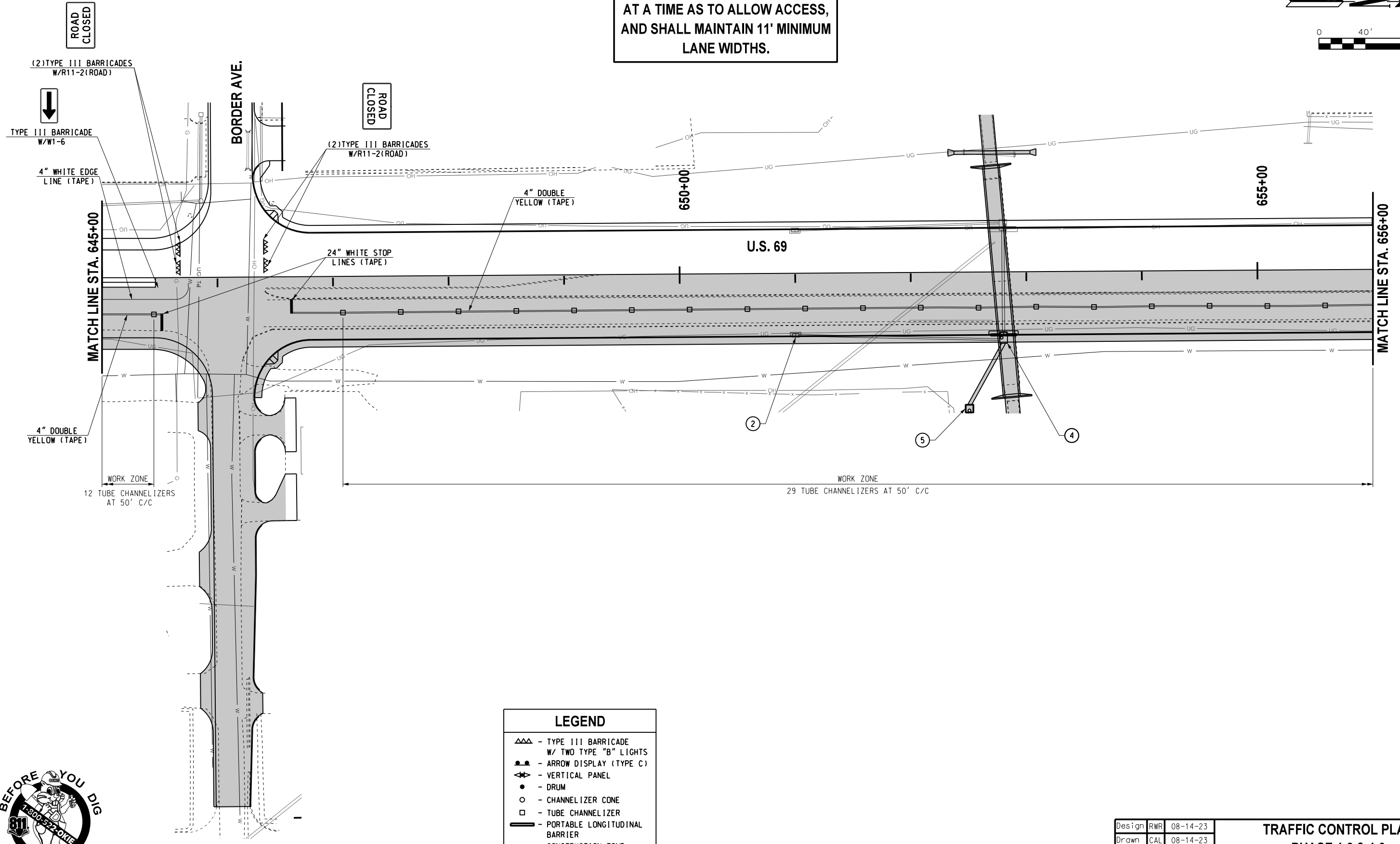
**TRAFFIC CONTROL PLAN**  
**PHASE 1.2 & 1.3**  
**(1 OF 3)**  
 Project No. 2710804 Sheet No. I036

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REVISIONS		
NO.	DESCRIPTION	DATE



**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.**



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA



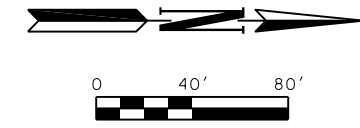
Design	RWR	08-14-23
Drawn	CAL	08-14-23
<b>TEC</b> A CLEAR DIRECTION		

**TRAFFIC CONTROL PLAN**  
**PHASE 1.2 & 1.3**  
**(2 OF 3)**  
 Project No. 2710804 Sheet No. I037

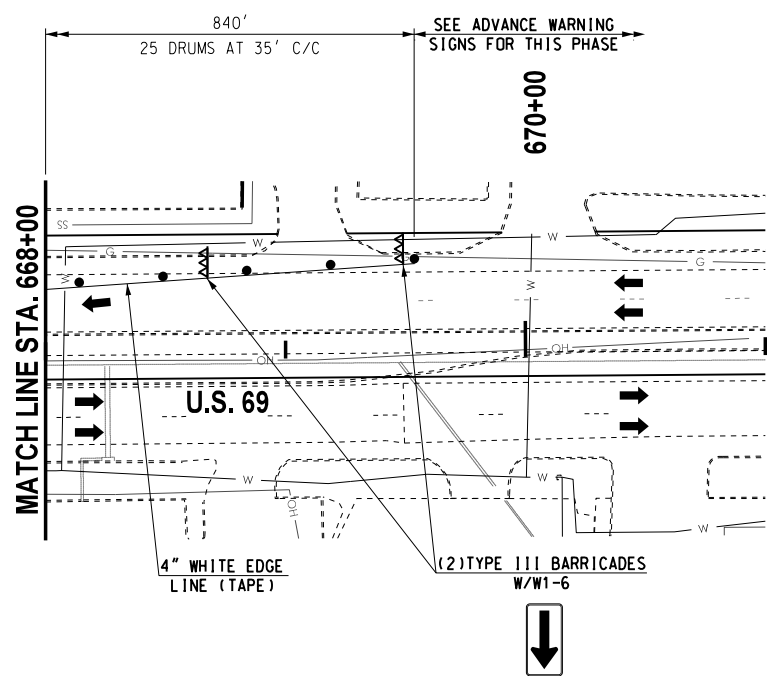
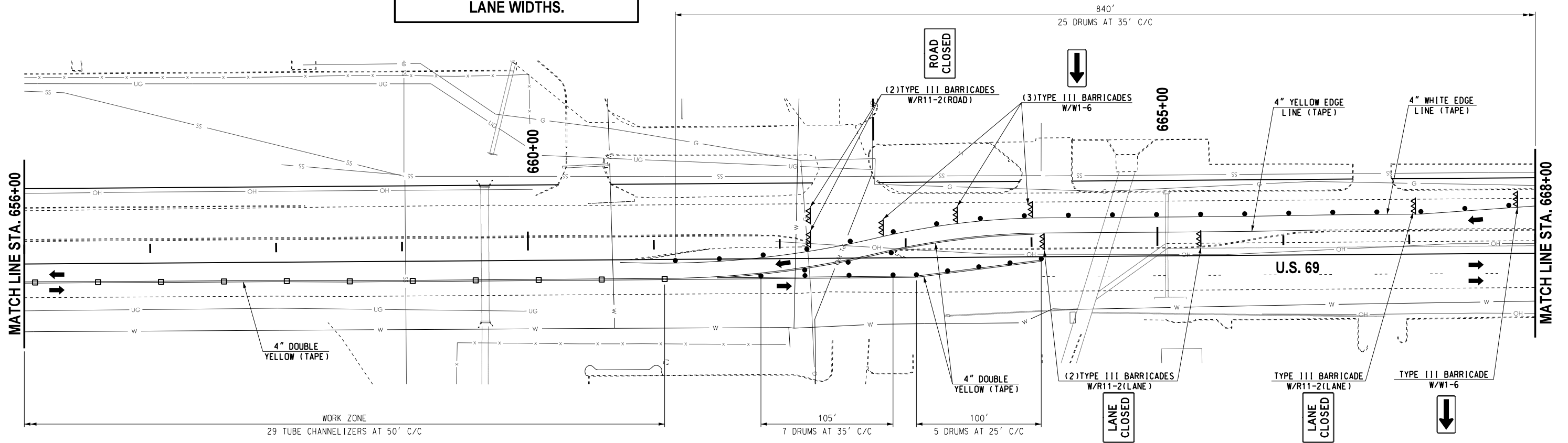
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REVISIONS		
NO.	DESCRIPTION	DATE



**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.**



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA

08-14-23 Ga:\Projects\T-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\T038-270804-TRAFFIC CONTROL PLAN PHASE 1.2 & 1.3 OF 3.dgn



Design	RWR	08-14-23
Drawn	CAL	08-14-23
<b>TEC</b> A CLEAR DIRECTION		

**TRAFFIC CONTROL PLAN**  
**PHASE 1.2 & 1.3**  
**(3 OF 3)**

Project No. 2710804 Sheet No. T038  
MUSKOGEE COUNTY

REVISIONS		
NO.	DESCRIPTION	DATE



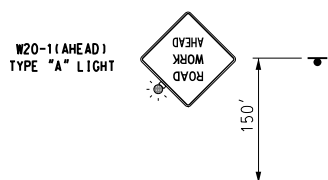
**ROAD WORK NEXT XX MILES**

**EST. COMPLETION - SUMMER 20XX**

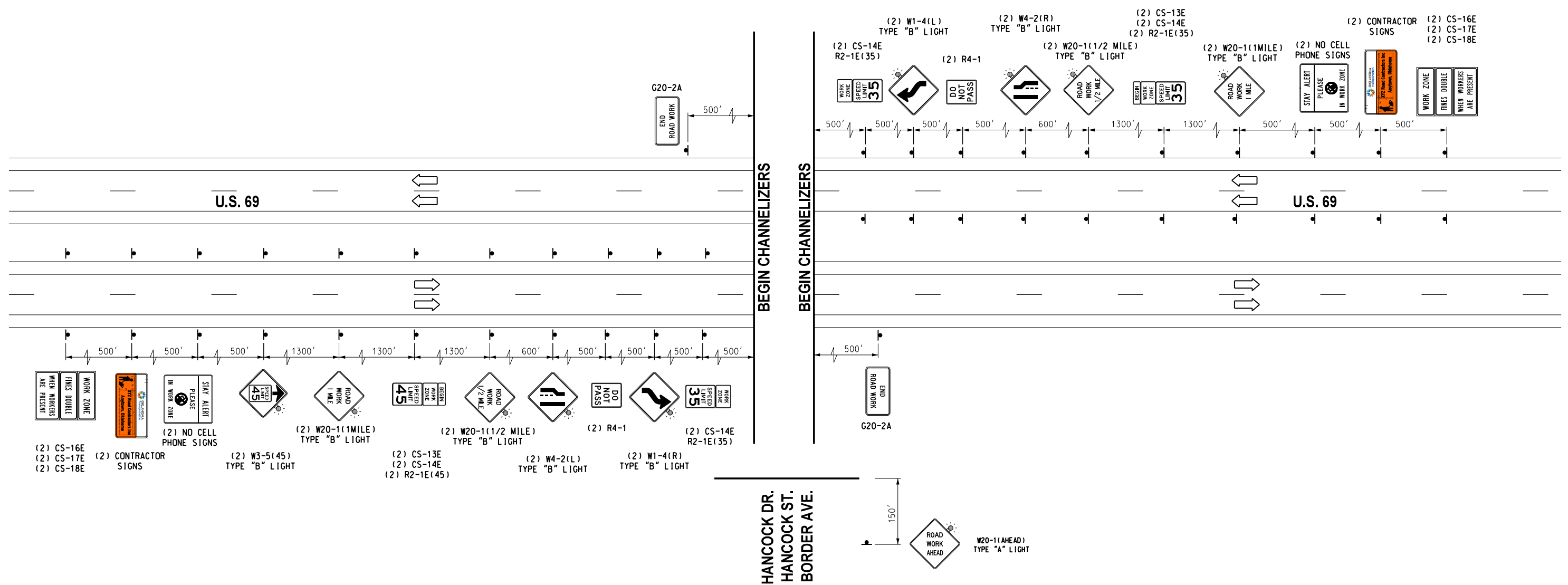
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**CONTRACTOR SUPPLEMENTAL PLAQUES**

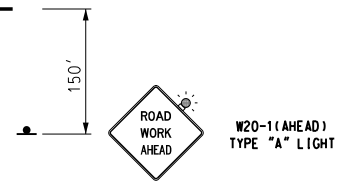
FOR MORE INFORMATION AND SPECIFICATIONS SEE LINK BELOW:  
<https://oklahoma.gov/content/dam/ok/en/odot/traffic/Contractor%20Sign%20-%20Color.pdf>



HANCOCK DR.  
HANCOCK ST.  
BORDER AVE.



HANCOCK DR.  
HANCOCK ST.  
BORDER AVE.



**Phase 2.0- U.S. Highway 69**  
 Shift southbound traffic on northbound inside driving lane and cross northbound traffic to southbound inside driving lane (two-way traffic) from Sta 561+00 to Sta 642+00. Install southbound drainage structures No. M1-M9, Cross Drain Structures 1-4, & No. 3, side structures No. S6, S8-S11, S13, S20, S22, S23, & S24. Install Bridge "A" to CRL. Perform southbound widening and traffic lanes with shoulder construction operations from Sta. 566+00 to Sta. 642+00 (Typical Section No. 1): Perform grading place Fabric, Agg. Base, prime coat, Cement Base, tack coat, and paving operations proposed curbs, gutters, sidewalks, & driveways. Construct southbound intersection return and handicap ramps.

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Design	RWR	08-14-23
Drawn	CAL	08-14-23

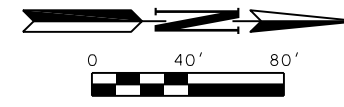
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**TYPICAL ADVANCE WARNING SIGNS  
PHASE 2**

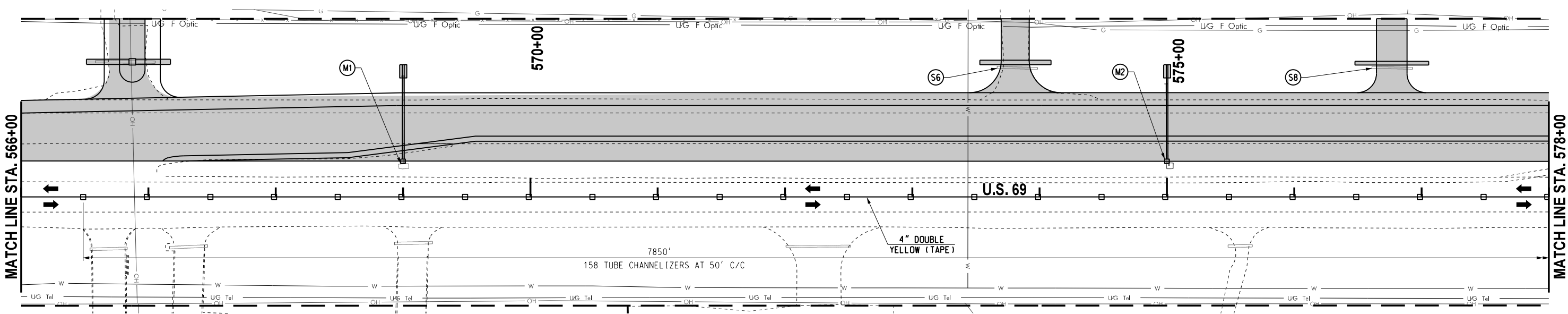
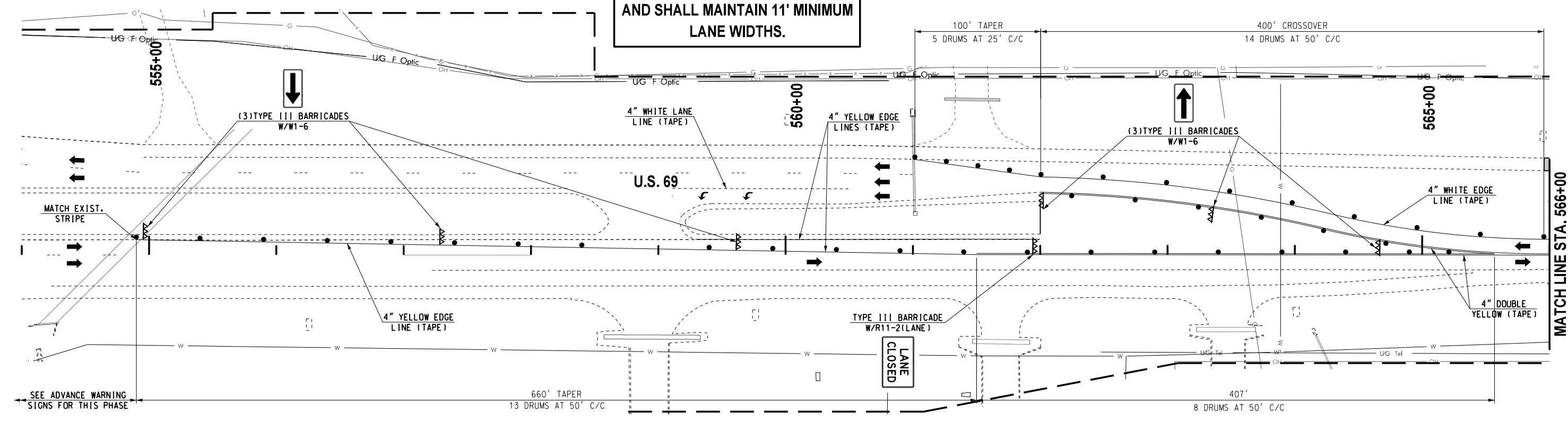
State Job No. 2710804 Sheet No. I039

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REVISIONS		
NO.	DESCRIPTION	DATE



**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.**



**LEGEND**

- ▲▲ - TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
- - ARROW DISPLAY (TYPE C)
- ▬ - VERTICAL PANEL
- - DRUM
- - CHANNELIZER CONE
- - TUBE CHANNELIZER
- ▬ - PORTABLE LONGITUDINAL BARRIER
- ▬ - CONSTRUCTION ZONE IMPACT ATTENUATOR
- - WORK AREA



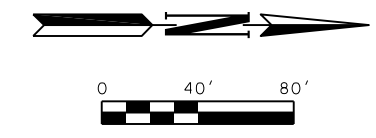
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Drawn	CAL	08-14-23

**TRAFFIC CONTROL PLAN  
PHASE 2  
(1 OF 6)**

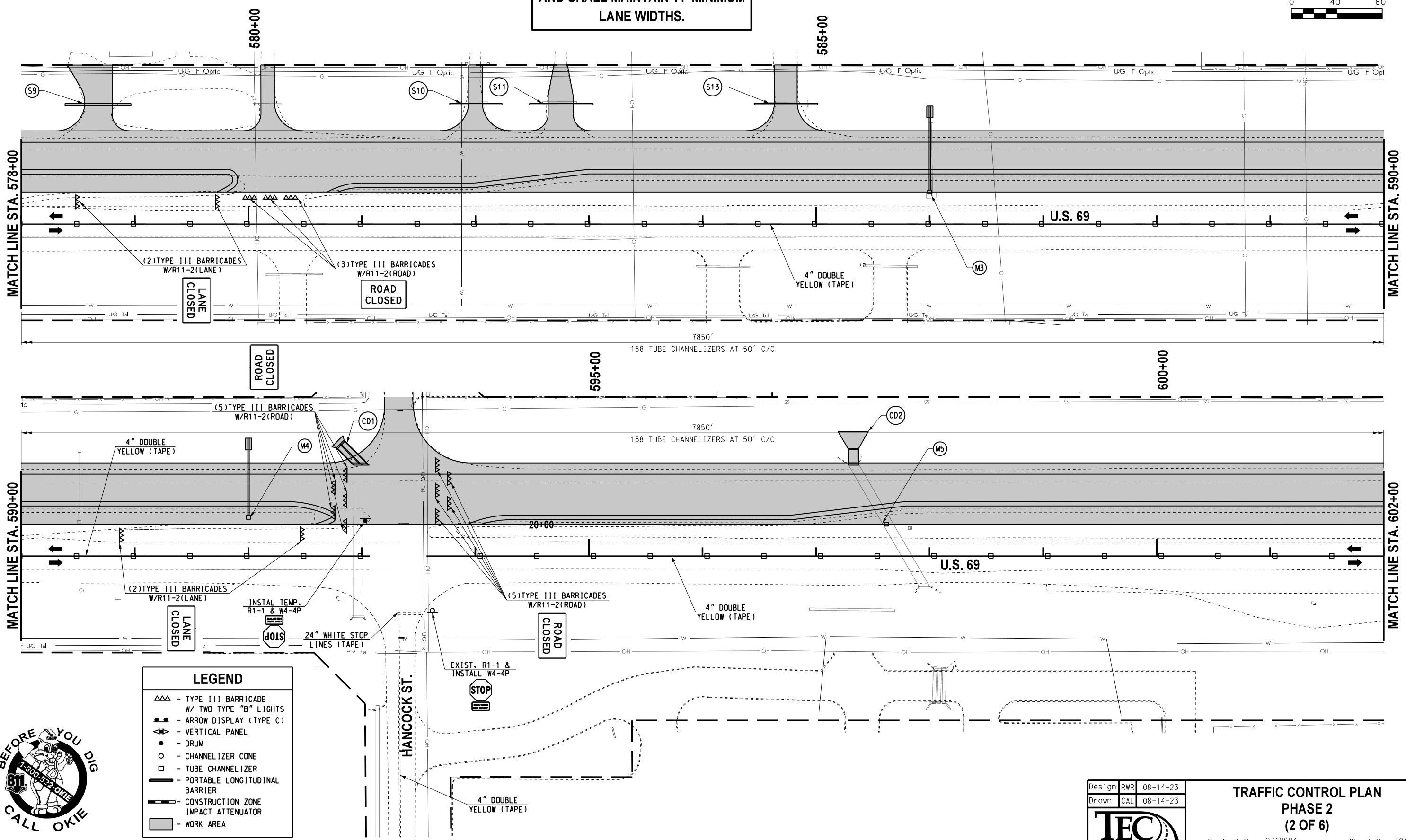
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REVISIONS		
NO.	DESCRIPTION	DATE



**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.**



**LEGEND**

- ▲▲ - TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
- ▶ - ARROW DISPLAY (TYPE C)
- ▬ - VERTICAL PANEL
- - DRUM
- - CHANNELIZER CONE
- ▭ - TUBE CHANNELIZER
- ▬ - PORTABLE LONGITUDINAL BARRIER
- ▬ - CONSTRUCTION ZONE IMPACT ATTENUATOR
- - WORK AREA



Design	RWR	08-14-23
Drawn	CAL	08-14-23
<b>TEC</b> A CLEAR DIRECTION		

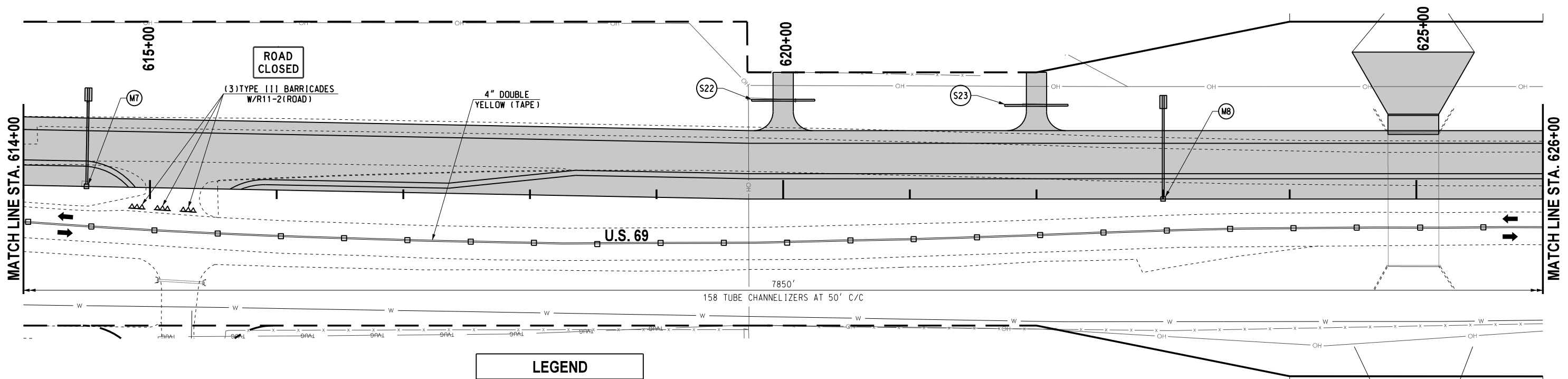
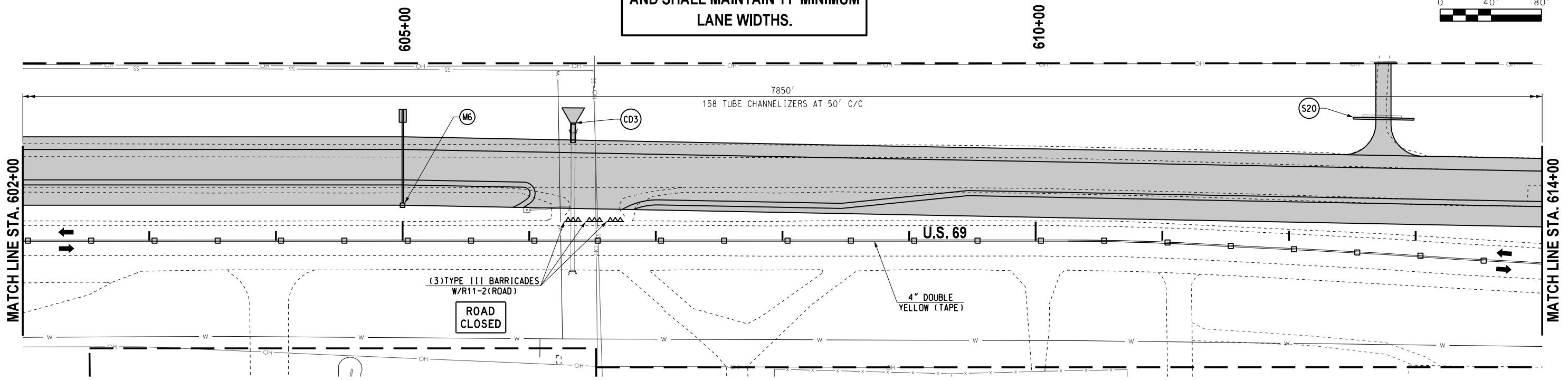
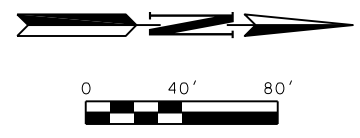
**TRAFFIC CONTROL PLAN  
PHASE 2  
(2 OF 6)**

Project No. 2710804 Sheet No. T041  
MUSKOGEE COUNTY

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REVISIONS		
NO.	DESCRIPTION	DATE

CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA



Design	RWR	08-14-23
Drawn	CAL	08-14-23

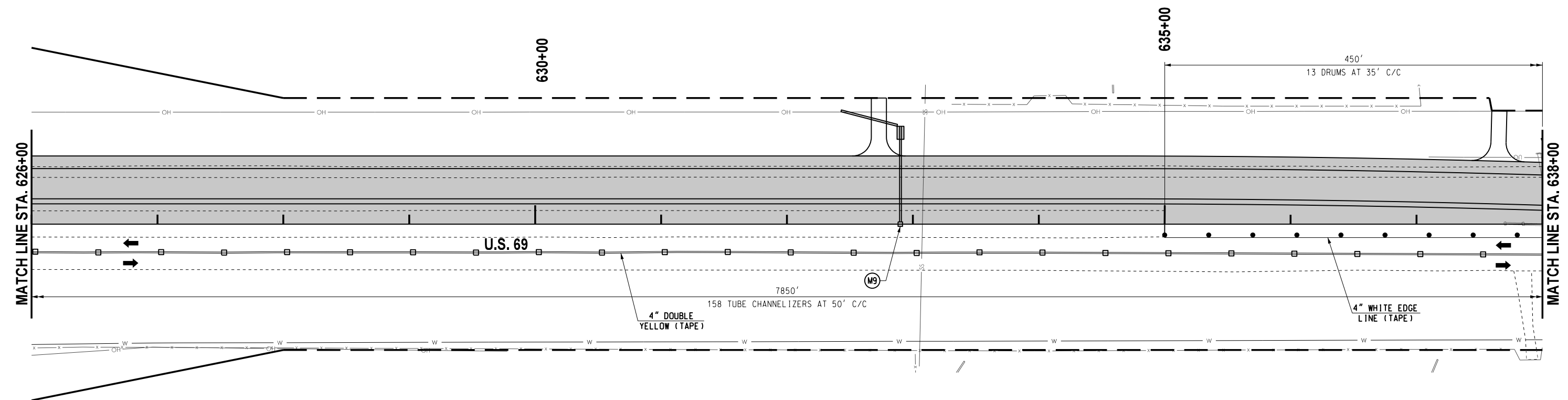
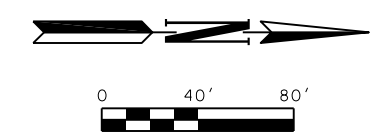
**TRAFFIC CONTROL PLAN PHASE 2**  
(3 OF 6)

Project No. 2710804 Sheet No. T042

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REVISIONS		
NO.	DESCRIPTION	DATE

CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA



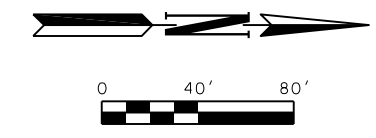
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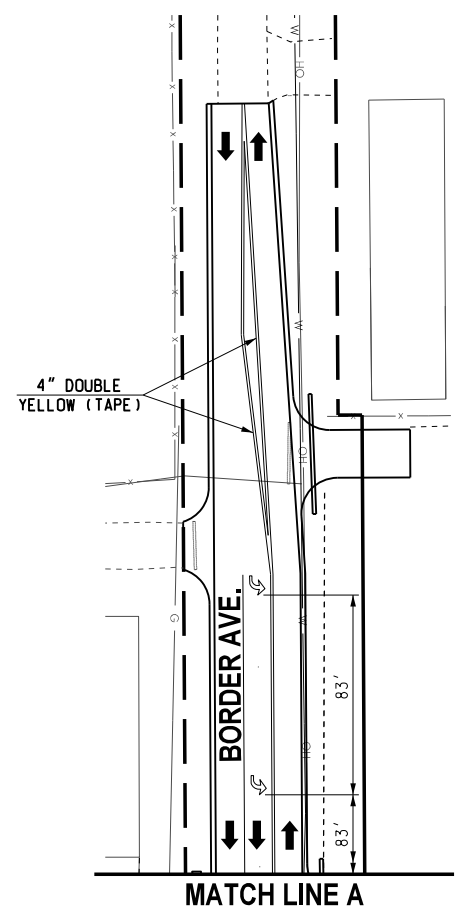
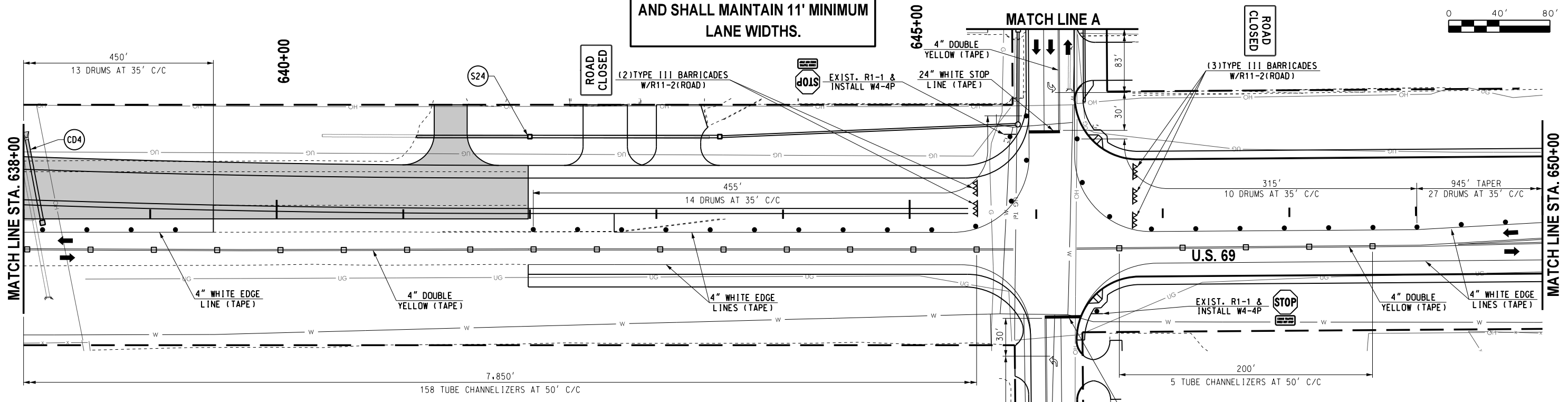
**TRAFFIC CONTROL PLAN  
PHASE 2  
(4 OF 6)**  
Project No. 2710804 Sheet No. T043

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REVISIONS		
NO.	DESCRIPTION	DATE



**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.**



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA



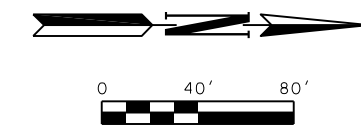
Design	RWR	08-14-23
Drawn	CAL	08-14-23



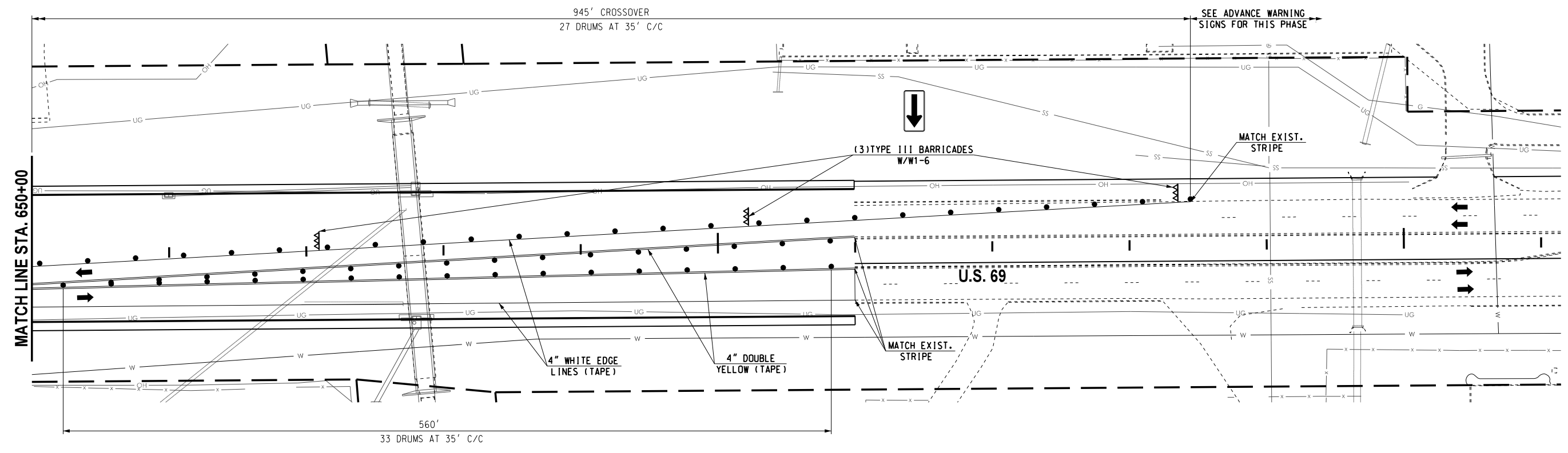
**TRAFFIC CONTROL PLAN  
PHASE 2  
(5 OF 6)**  
Project No. 2710804 Sheet No. T044  
MUSKOGEE COUNTY

08-14-23 G:\V\Projects\T-2385A - SD, SS, LT - EC-1576 US 69 Muskogee Plan Update\CAD\T044-270804-TRAFFIC CONTROL PLAN PHASE 2 IS OF 6.dgn

REVISIONS		
NO.	DESCRIPTION	DATE



**CONTRACTOR SHALL BUILD ALL  
STREETS AND DRIVEWAYS HALF  
AT A TIME AS TO ALLOW ACCESS,  
AND SHALL MAINTAIN 11' MINIMUM  
LANE WIDTHS.**



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA



Design	RWR	08-14-23
Drawn	CAL	08-14-23

**TRAFFIC CONTROL PLAN  
PHASE 2  
(6 OF 6)**  
Project No. 2710804 Sheet No. T045  
MUSKOGEE COUNTY

08-14-23 G:\V\Projects\T-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\T045-2710804-TRAFFIC CONTROL PLAN PHASE 2 16 OF 61.dgn



REVISIONS		
NO.	DESCRIPTION	DATE



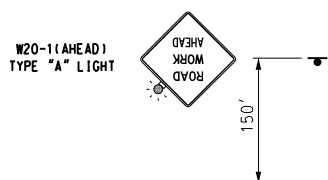
**ROAD WORK NEXT XX MILES**

**EST. COMPLETION - SUMMER 20XX**

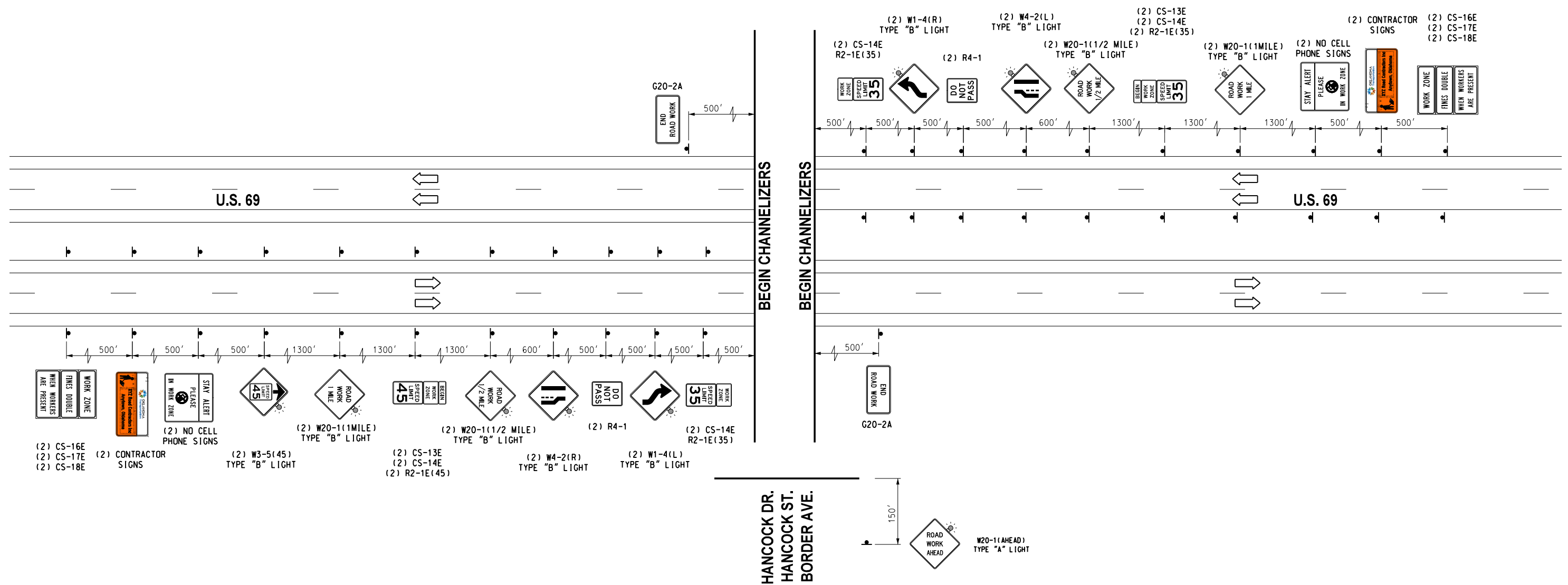
**CONTRACTOR SIGN**

**CONTRACTOR SUPPLEMENTAL PLAQUES**

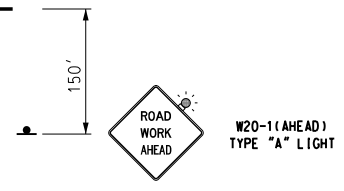
FOR MORE INFORMATION AND SPECIFICATIONS SEE LINK BELOW:  
<https://oklahoma.gov/content/dam/ok/en/odot/traffic/Contractor%20Sign%20-%20Color.pdf>



HANCOCK DR.  
HANCOCK ST.  
BORDER AVE.



HANCOCK DR.  
HANCOCK ST.  
BORDER AVE.



**Phase 3.0 - U.S. Highway 69**  
 Shift the northbound traffic on southbound inside driving lane and cross northbound traffic to northbound outside driving lane (two-way traffic) from Sta 561+00 to Sta 642+00. Install northbound drainage side structures No. S1, S3, S4, S5, S7, S12, S14-S19, & S21. Install Bridge "A" from CRL to apron. Construct paved ditch right side. Perform northbound widening and northbound traffic lane with construction operations from Sta. 566+00 to Sta. 642+00 (Typical Section No. 1). Perform grading place Fabric, Agg. Base, prime coat, Cement Base, Tack Coat, and Paving Operations. Construct proposed curbs, gutters, sidewalks, & driveways. Construct northbound intersection return and handicap ramps.

DRAWING NOT TO SCALE

Design	RWR	08-14-23
Drawn	CAL	08-14-23

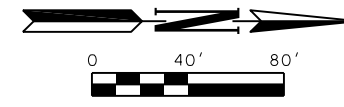


**TYPICAL ADVANCE WARNING SIGNS  
PHASE 3**

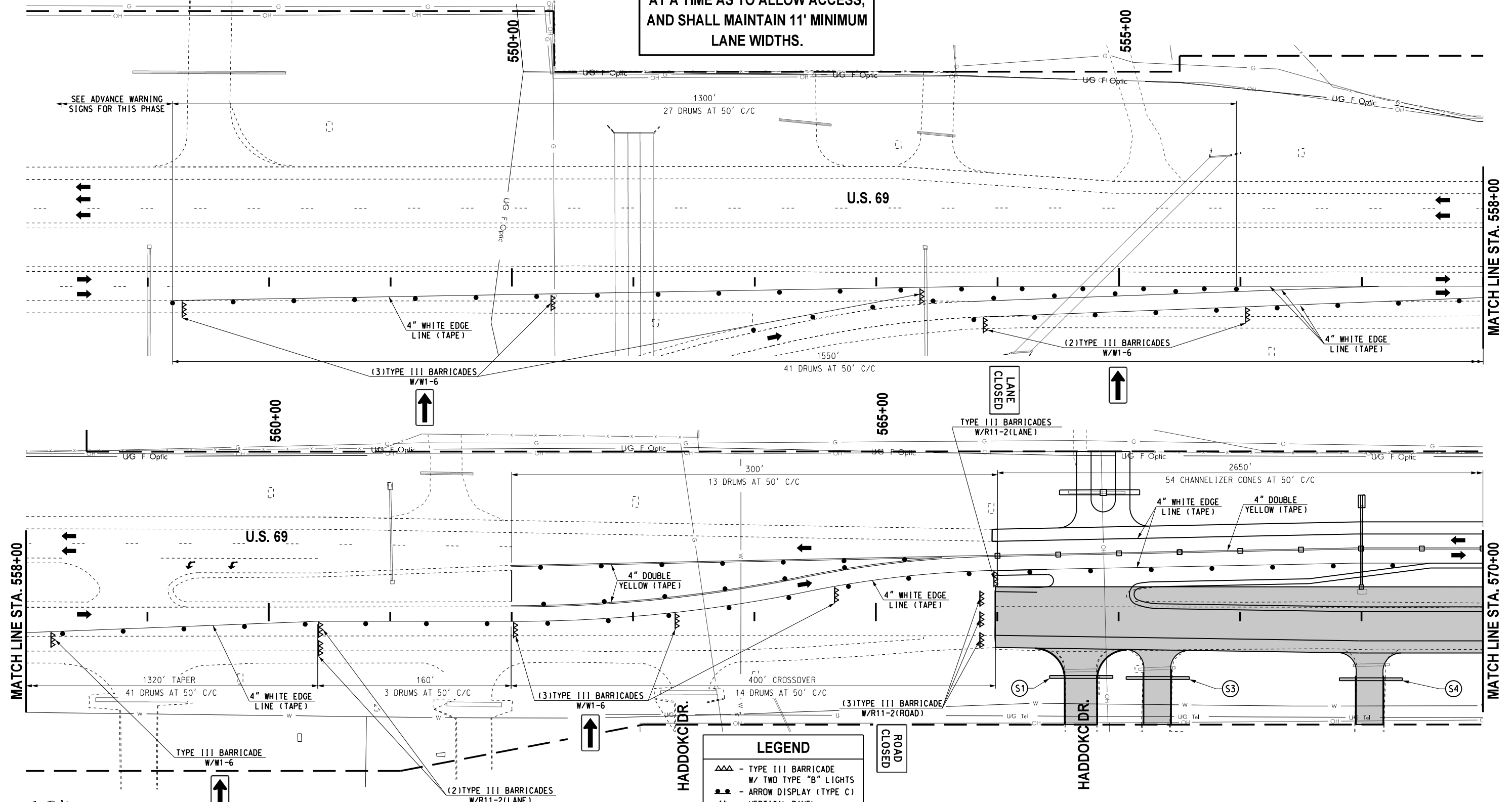
State Job No. 2710804 Sheet No. I046

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REVISIONS		
NO.	DESCRIPTION	DATE



**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.**



**LEGEND**

- ▲ - TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
- - ARROW DISPLAY (TYPE C)
- ▲ - VERTICAL PANEL
- - DRUM
- - CHANNELIZER CONE
- - TUBE CHANNELIZER
- - PORTABLE LONGITUDINAL BARRIER
- - CONSTRUCTION ZONE IMPACT ATTENUATOR
- - WORK AREA



Design	RWR	08-14-23
Drawn	CAL	08-14-23

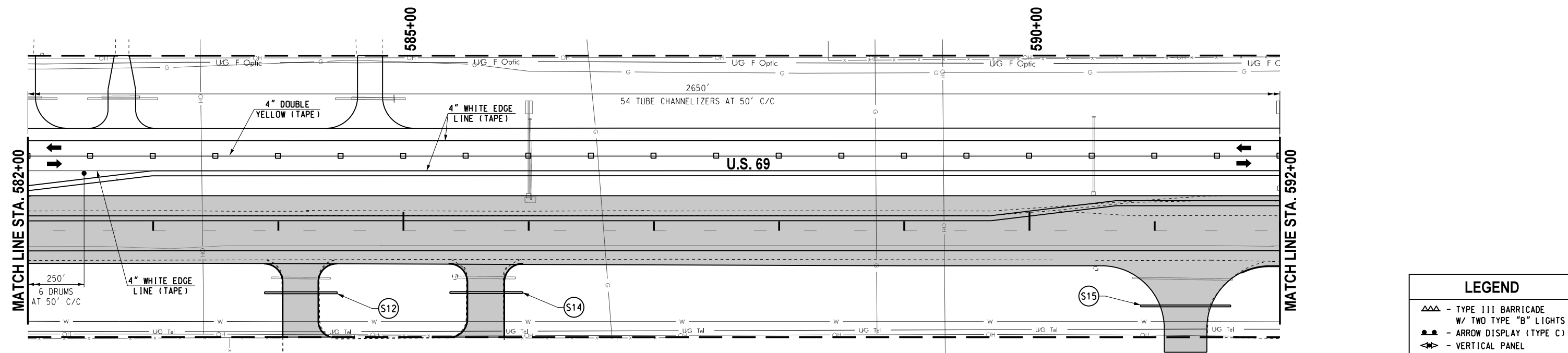
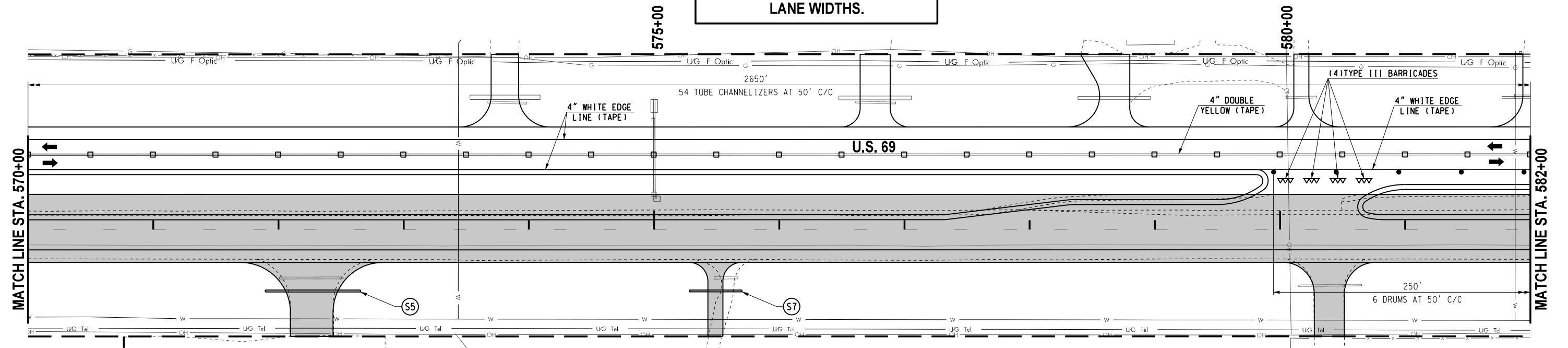
**TRAFFIC CONTROL PLAN  
PHASE 3  
(1 OF 6)**

Project No. 2710804 Sheet No. T047  
MUSKOGEE COUNTY

08-14-23 G:\V\Projects\T-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\T047-2710804-TRAFFIC CONTROL PLAN PHASE 3 T047.dwg

REVISIONS		
NO.	DESCRIPTION	DATE

**CONTRACTOR SHALL BUILD ALL  
STREETS AND DRIVEWAYS HALF  
AT A TIME AS TO ALLOW ACCESS,  
AND SHALL MAINTAIN 11' MINIMUM  
LANE WIDTHS.**



LEGEND	
	- TYPE III BARRICADE
	- W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA



Design	RWR	08-14-23
Drawn	CAL	08-14-23

**TRAFFIC CONTROL PLAN  
PHASE 3  
(2 OF 6)**

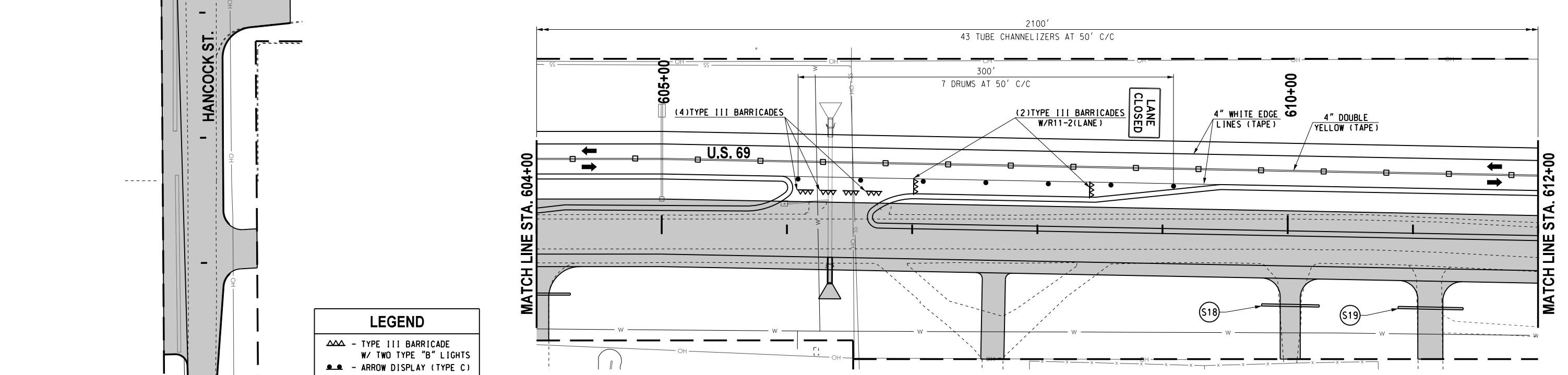
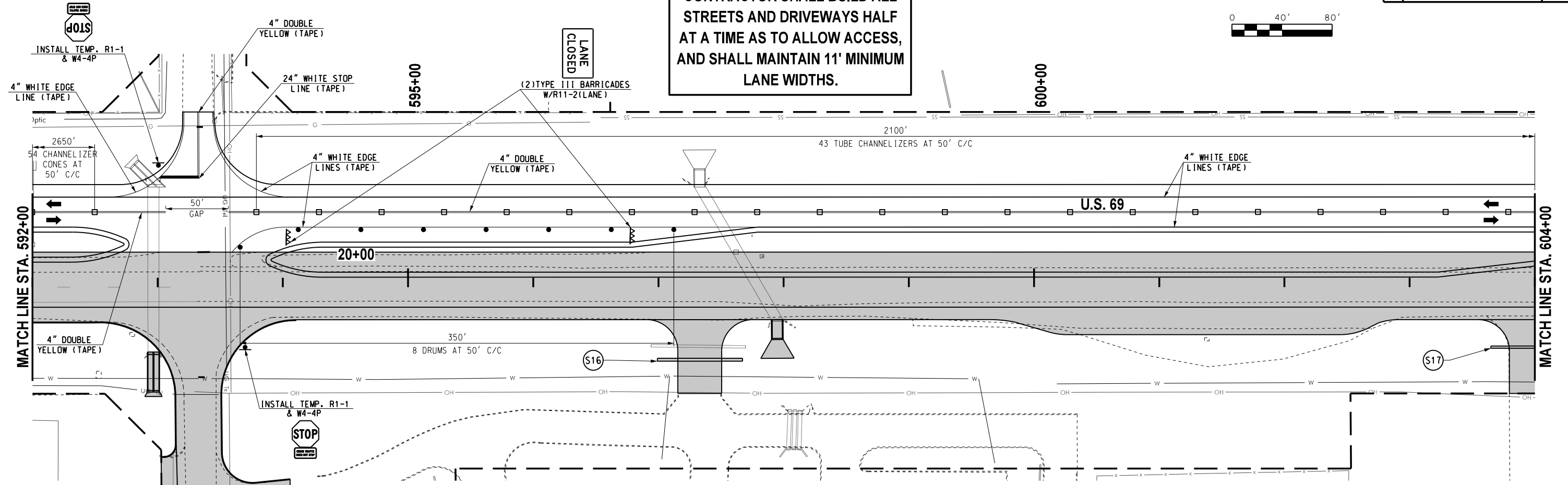
Project No. 2710804 Sheet No. T048

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REVISIONS		
NO.	DESCRIPTION	DATE



**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.**



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA



SEE ADVANCE WARNING SIGNS FOR THIS PHASE

Design	RWR	08-14-23
Drawn	CAL	08-14-23



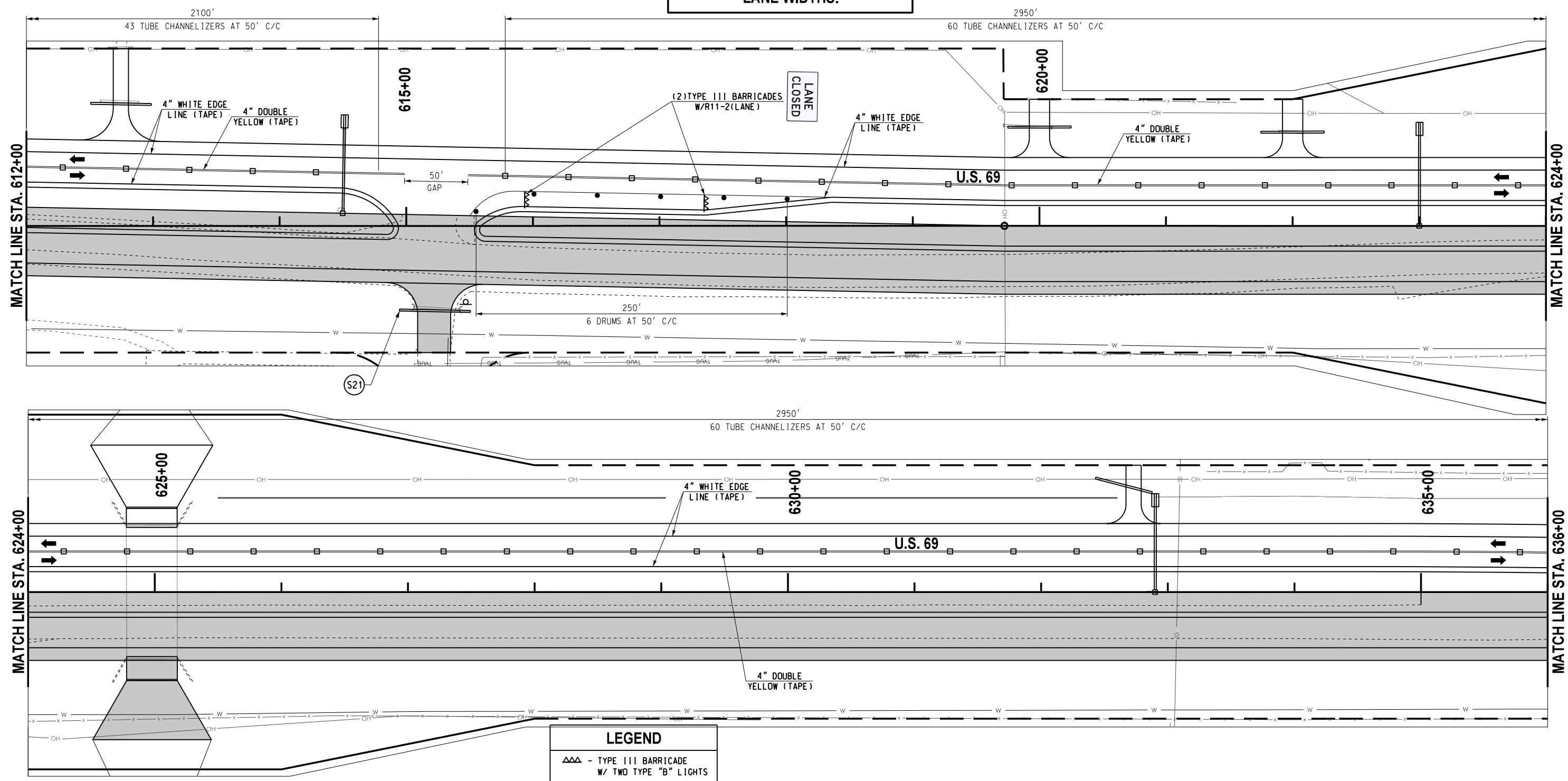
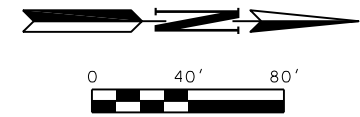
**TRAFFIC CONTROL PLAN  
PHASE 3  
(3 OF 6)**

Project No. 2710804 Sheet No. T049

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REVISIONS		
NO.	DESCRIPTION	DATE

**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.**



**LEGEND**

- ▲▲ - TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
- ▶ - ARROW DISPLAY (TYPE C)
- ⬆ - VERTICAL PANEL
- - DRUM
- - CHANNELIZER CONE
- - TUBE CHANNELIZER
- - PORTABLE LONGITUDINAL BARRIER
- - CONSTRUCTION ZONE IMPACT ATTENUATOR
- - WORK AREA

08-14-23 G:\0\Projects\1-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\1050-270804-TRAFFIC CONTROL\_PLAN\_PHASE 3 14 OF 61.dgn



Design	RWR	08-14-23
Drawn	CAL	08-14-23
<b>TEC</b> A CLEAR DIRECTION		

**TRAFFIC CONTROL PLAN  
PHASE 3  
(4 OF 6)**

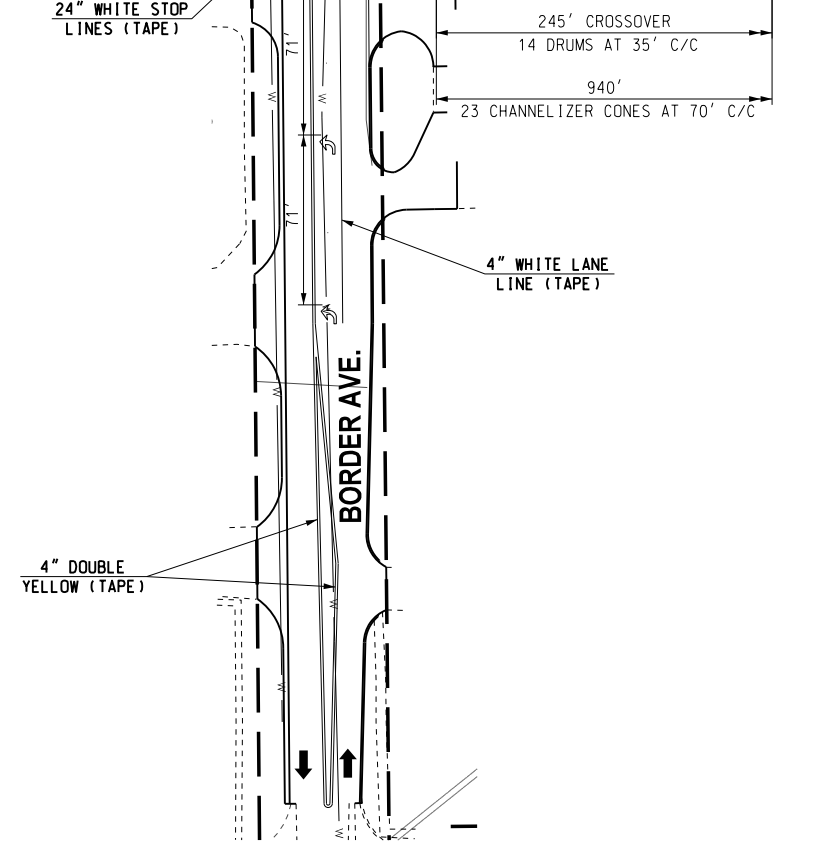
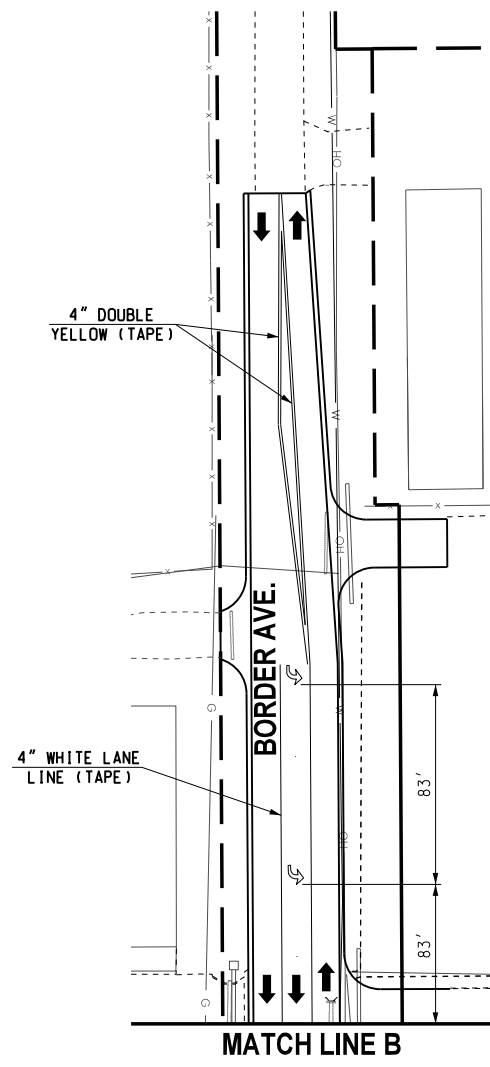
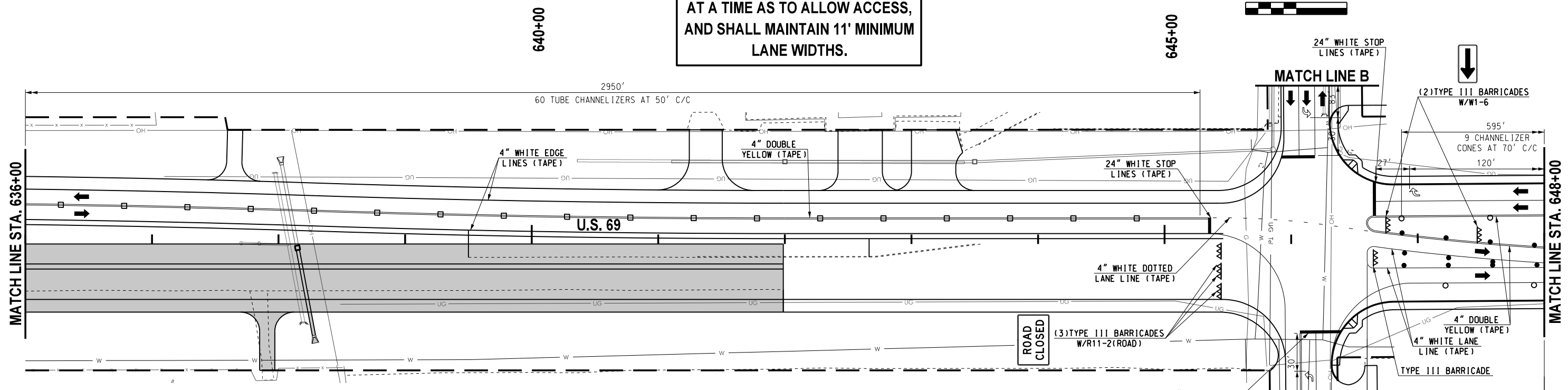
Project No. 2710804 Sheet No. 1050  
MUSKOGEE COUNTY

08-14-23 G:\V\Projects\T-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\T051-270804-TRAFFIC CONTROL PLAN PHASE 3 (5 OF 6).dgn



**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.**

REVISIONS		
NO.	DESCRIPTION	DATE

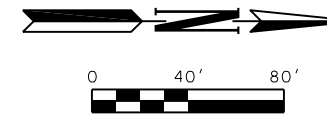


LEGEND	
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	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA

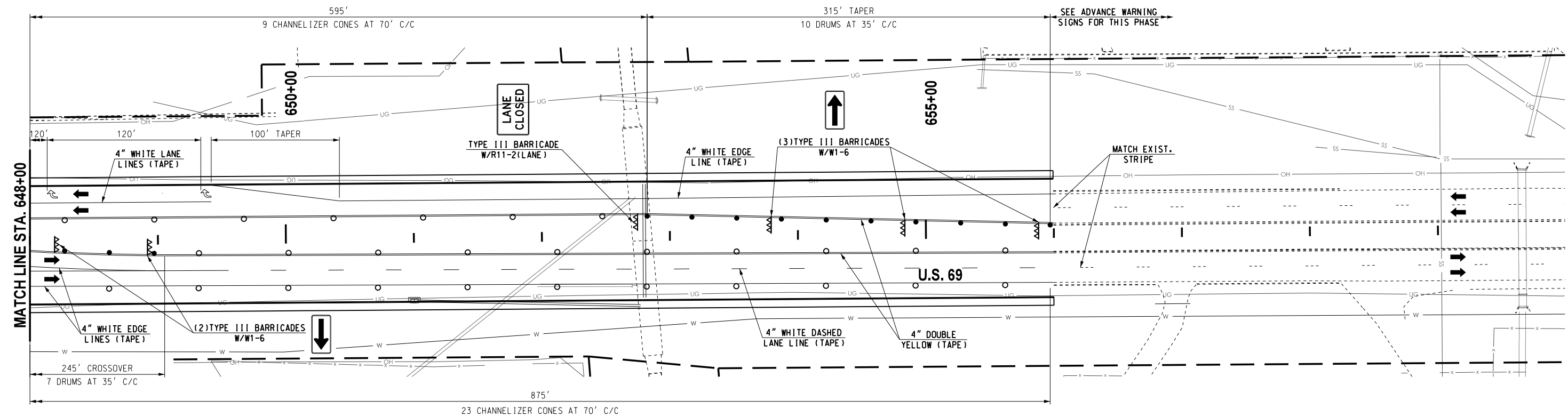
Design	RWR	08-14-23
Drawn	CAL	08-14-23

**TRAFFIC CONTROL PLAN PHASE 3**  
**(5 OF 6)**  
 Project No. 2710804 Sheet No. T051  
 MUSKOGEE COUNTY

**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.**



REVISIONS		
NO.	DESCRIPTION	DATE



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE
	- IMPACT ATTENUATOR
	- WORK AREA

Design	RWR	08-14-23
Drawn	CAL	08-14-23



**TRAFFIC CONTROL PLAN  
PHASE 3  
(6 OF 6)**

Project No. 2710804 Sheet No. I052

08-14-23 G:\V\Projects\T-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\I052-270804-TRAFFIC CONTROL PLAN PHASE 3 16 OF 61.dgn



REVISIONS		
NO.	DESCRIPTION	DATE

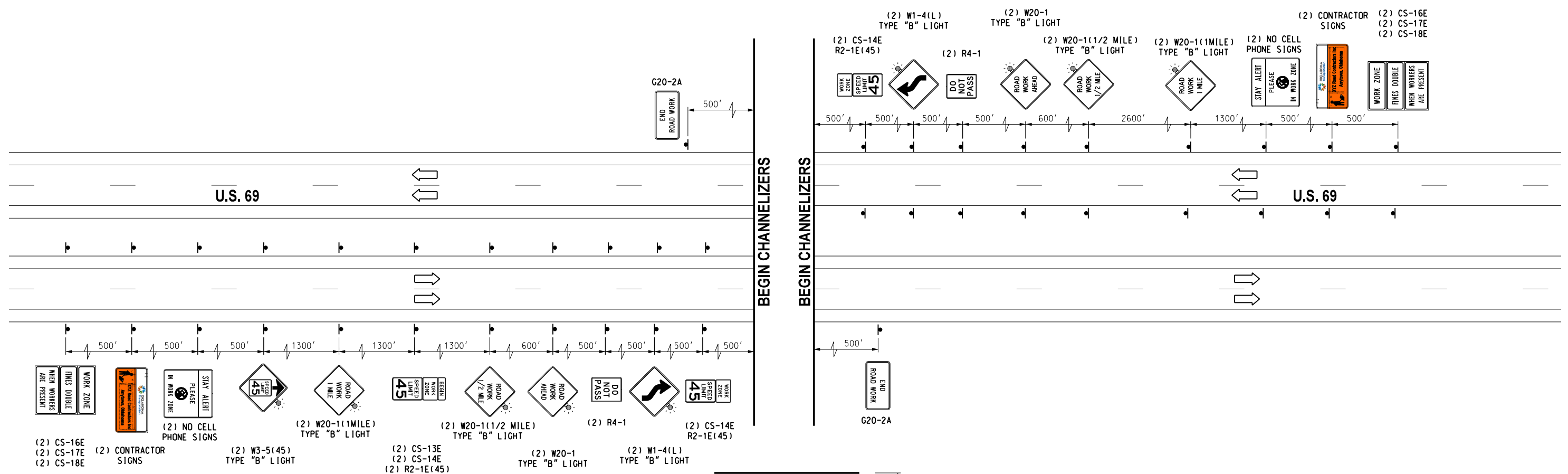
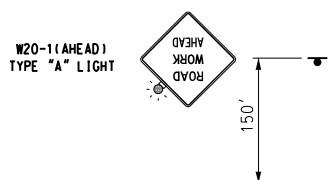


**CONTRACTOR SIGN**

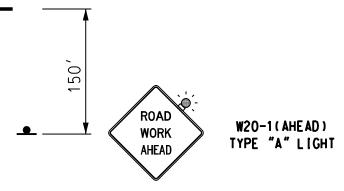
FOR MORE INFORMATION AND SPECIFICATIONS SEE LINK BELOW:  
<https://oklahoma.gov/content/dam/ok/en/odot/traffic/Contractor%20Sign%20-%20Color.pdf>

**CONTRACTOR SUPPLEMENTAL PLAQUES**

BORDER AVE.  
 ARLINE AVE.  
 ELGIN ST.  
 DENVER ST.



BORDER AVE.  
 ESTELLE AVE.  
 ARLINE AVE.  
 ELGIN ST.  
 DENVER ST.



**Phase 4.0 - U.S. Highway 69**  
 Shift southbound traffic to inside driving lane. No changes to traffic operations on Northbound traffic from Sta 656+00 to Sta 696+00. Construct southbound widening Perform grading, place Fabric, Agg. Base, prime coat, Cement Base, tack coat, and paving operations in detour from Sta 656+00 to Sta 696+00. Perform subgrade stabilization, grading and paving operations in southbound proposed detour (Typical Section No. 5)

DRAWING NOT TO SCALE

Design	RWR	08-14-23
Drawn	CAL	08-14-23



**TYPICAL ADVANCE WARNING SIGNS  
 PHASE 4**

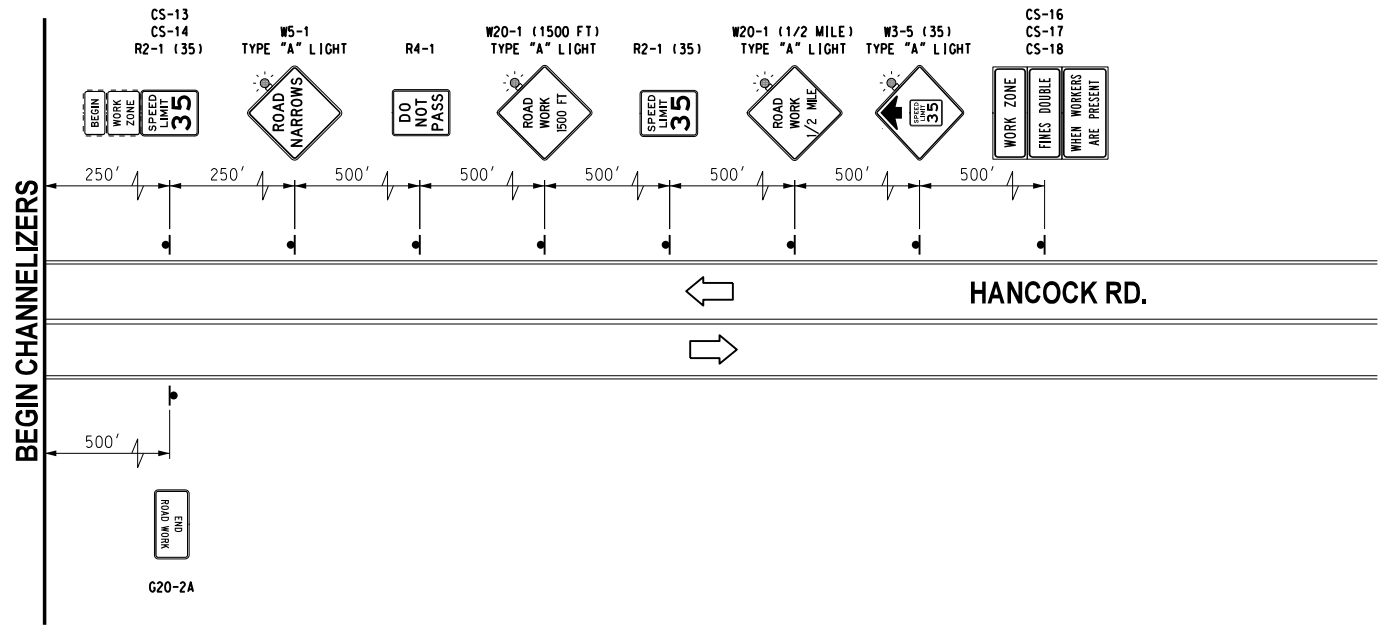
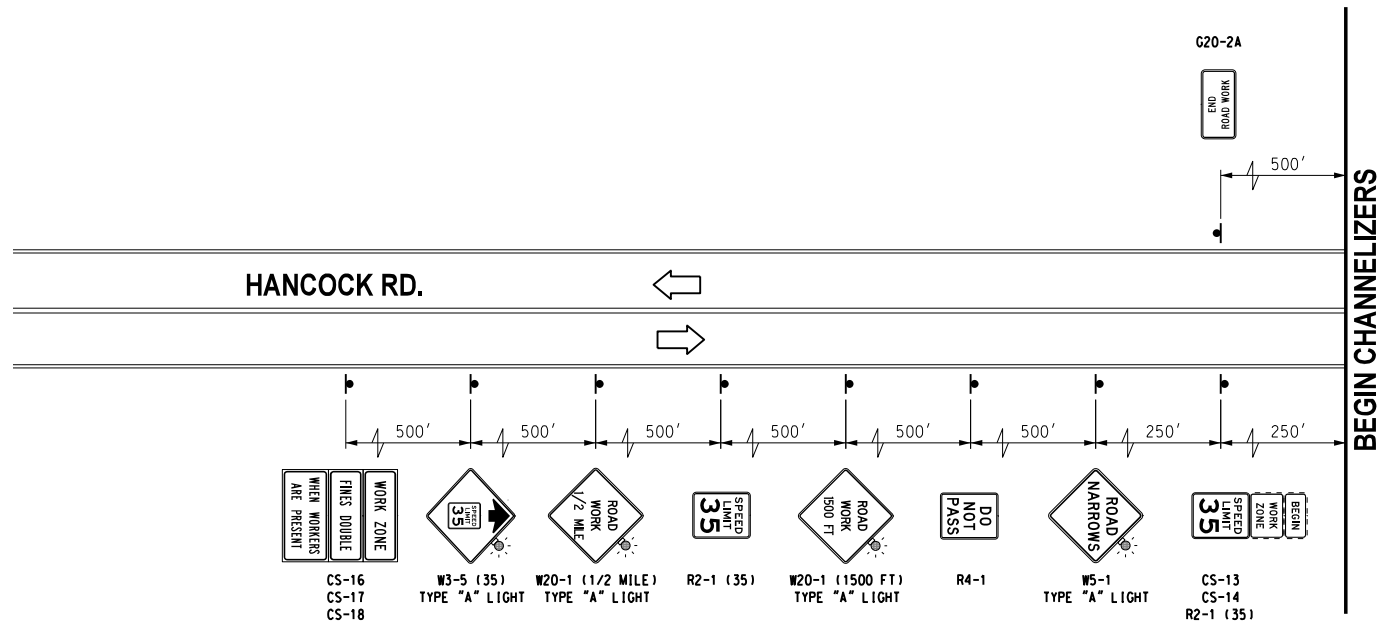
State Job No. 2710804 Sheet No. 1053

08-14-23 G:\V\Projects\T-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\1053-270804-TYPICAL ADVANCE WARNING SIGNS PHASE 4 .dgn



08-14-23 G:\0\Projects\T-2385A - SD, SS, LT - EC-1576 US 69 Muskogee Plan Update\CAD\T054-270804-TYPICAL\_ADVANCE\_WARNING\_SIGNS\_PHASE\_4 (HANCOCK RD).dgn

REVISIONS		
NO.	DESCRIPTION	DATE



DRAWING NOT TO SCALE

Design	RWR	08-14-23
Drawn	CAL	08-14-23

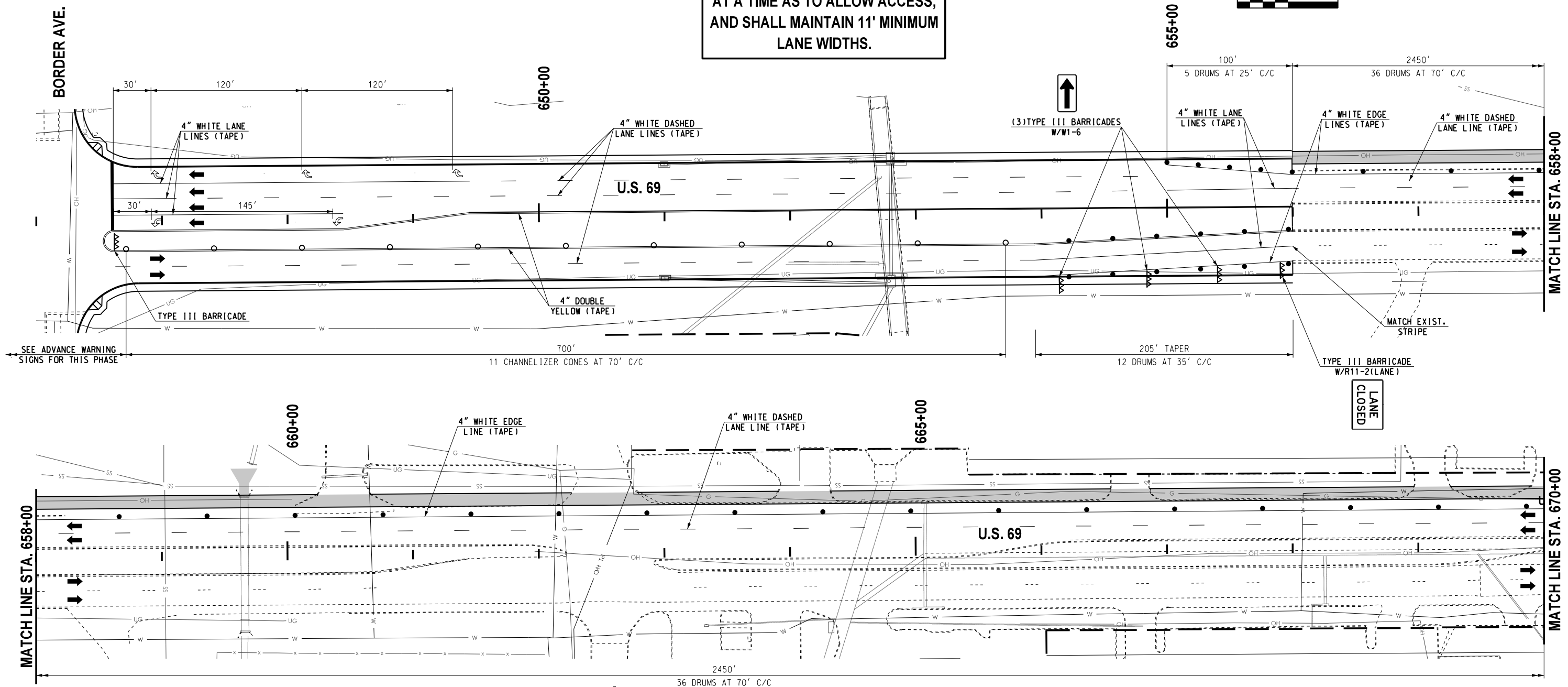
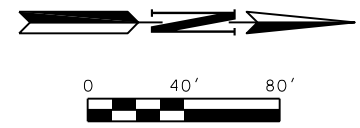


**TYPICAL ADVANCE WARNING SIGNS  
PHASE 4 (HANCOCK RD.)**

State Job No. 2710804 Sheet No. T054

REVISIONS		
NO.	DESCRIPTION	DATE

**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.**



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA

08-14-23 G:\Projects\T-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\1055-2710804-TRAFFIC CONTROL PLAN PHASE 4 1055.dgn

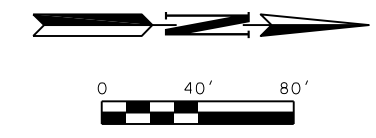


Design	RWR	08-14-23
Drawn	CAL	08-14-23
<b>TEC</b> A CLEAR DIRECTION		

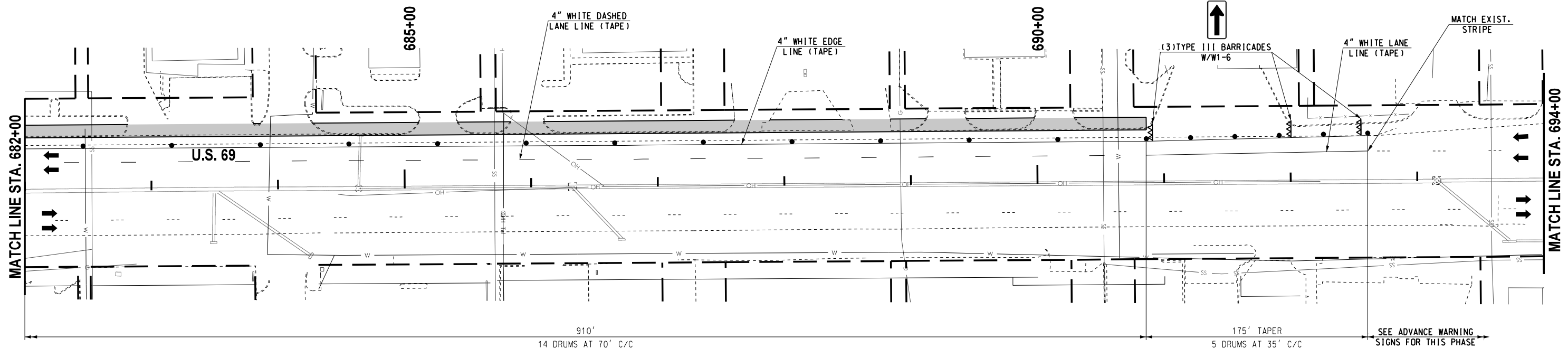
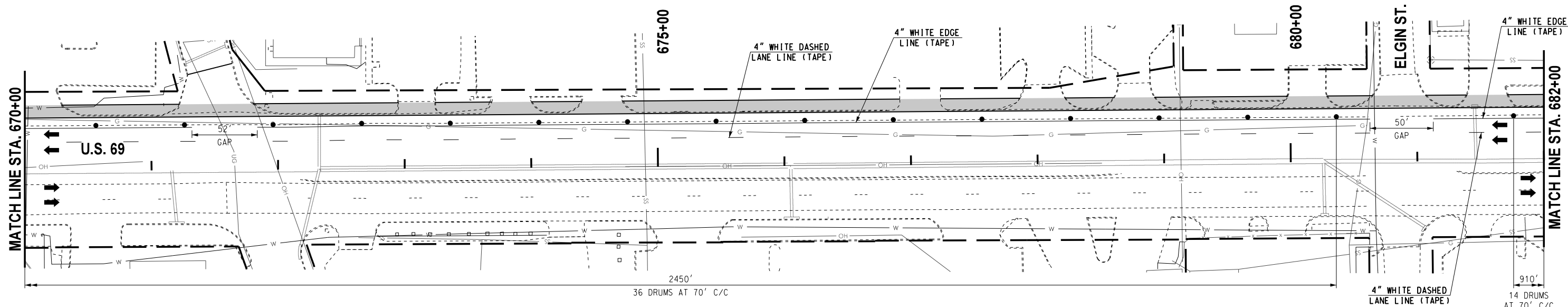
**TRAFFIC CONTROL PLAN**  
**PHASE 4**  
**(1 OF 3)**

Project No. 2710804 Sheet No. 1055

REVISIONS		
NO.	DESCRIPTION	DATE



**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.**



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA

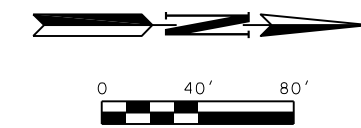


Design	RWR	08-14-23
Drawn	CAL	08-14-23

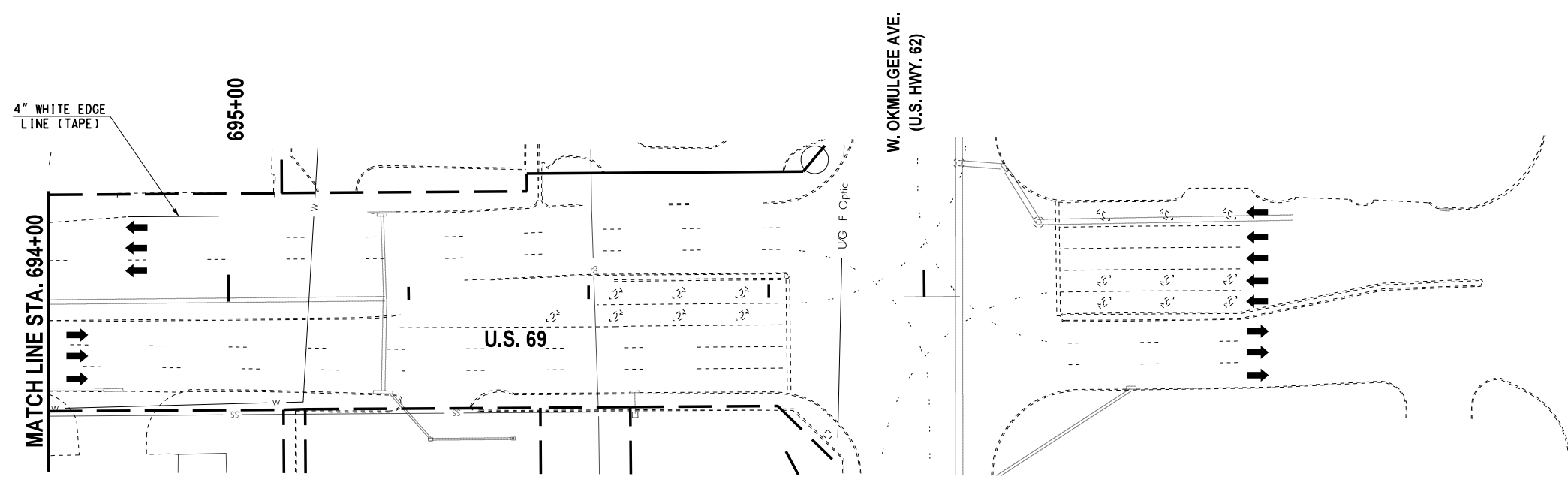
**TRAFFIC CONTROL PLAN**  
**PHASE 4**  
**(2 OF 3)**  
 Project No. 2710804 Sheet No. I056

08-14-23 G:\Projects\T-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\I056-270804-TRAFFIC CONTROL PLAN PHASE 4 12 OF 31.dgn

REVISIONS		
NO.	DESCRIPTION	DATE



CONTRACTOR SHALL BUILD ALL  
STREETS AND DRIVEWAYS HALF  
AT A TIME AS TO ALLOW ACCESS,  
AND SHALL MAINTAIN 11' MINIMUM  
LANE WIDTHS.



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA



Design	RWR	08-14-23
Drawn	CAL	08-14-23

**TRAFFIC CONTROL PLAN**  
**PHASE 4**  
**(3 OF 3)**  
Project No. 2710804 Sheet No. I027  
MUSKOGEE COUNTY

08-14-23 G:\Projects\T-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\T051-2710804-TRAFFIC CONTROL PLAN PHASE 4 13 OF 31.dgn

REVISIONS		
NO.	DESCRIPTION	DATE



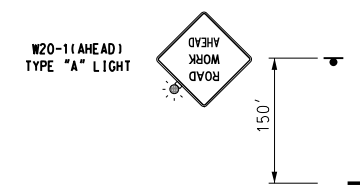
**ROAD WORK NEXT XX MILES**

**EST. COMPLETION - SUMMER 20XX**

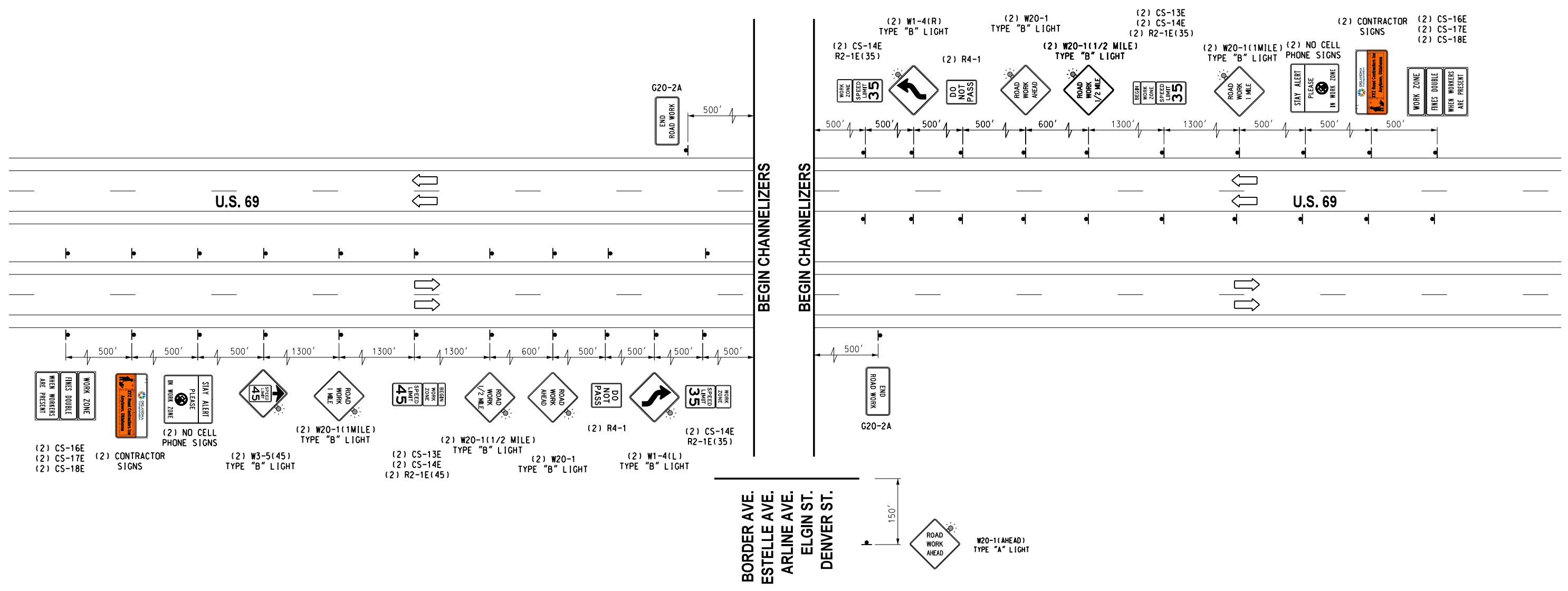
**CONTRACTOR SIGN**

FOR MORE INFORMATION AND SPECIFICATIONS SEE LINK BELOW:  
<https://oklahoma.gov/content/dam/ok/en/odot/traffic/Contractor%20Sign%20-%20Color.pdf>

**CONTRACTOR SUPPLEMENTAL PLAQUES**



BORDER AVE.  
 ARLINE AVE.  
 ELGIN ST.  
 DENVER ST.



**Phase 5.0 - U.S. Highway 69**  
 Shift northbound and southbound traffic to outside driving lanes. Maintain two lane traffic from Sta 656+00 to Sta 696+00. Construct center median pavement from Sta 656+00 to Sta 695+00. Install drainage junction boxes and Manholes. Install a 4ft RCP stub east from JNCT/MI of the CRL. Perform subgrade. Perform grading place Fabric, Agg. Base, prime coat, Cement Base, tack coat, and paving operations in proposed concrete center median (Typical Section No. 3 and Typical Section No. 4)

DRAWING NOT TO SCALE

Design	RWR	08-14-23
Drawn	CAL	08-14-23

**TEC**  
A CLEAR DIRECTION

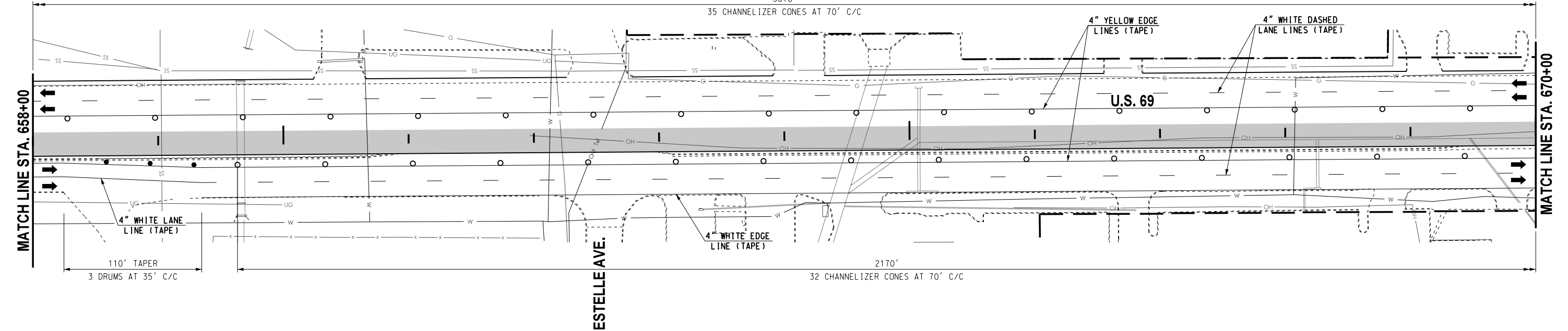
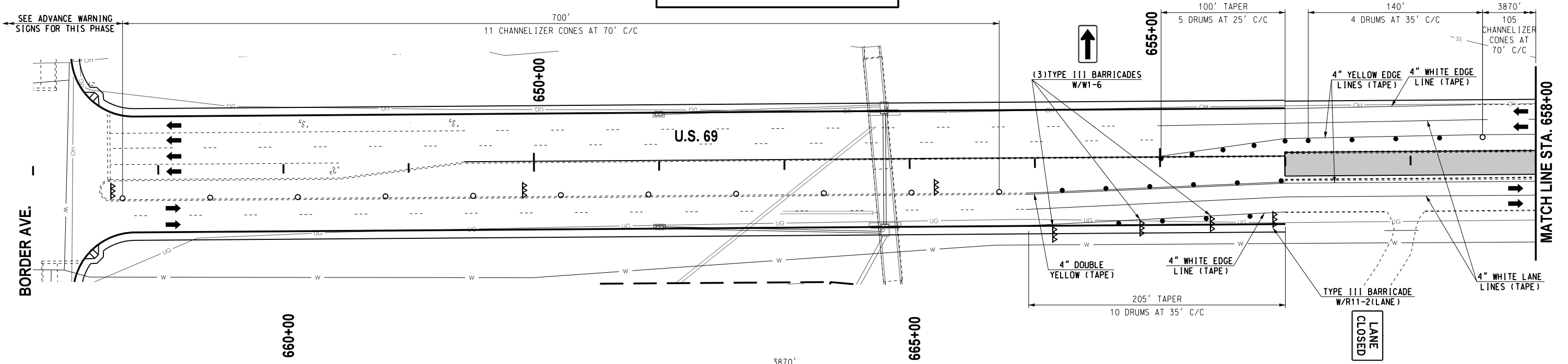
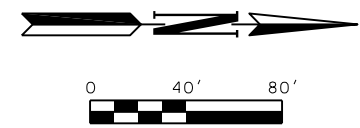
**TYPICAL ADVANCE WARNING SIGNS  
 PHASE 5**

State Job No. 2710804 Sheet No. 1058

08-14-23 G:\01Projects\T-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\1058-270804-TYPICAL ADVANCE WARNING SIGNS PHASE 5.dgn

REVISIONS		
NO.	DESCRIPTION	DATE

**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.**



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA



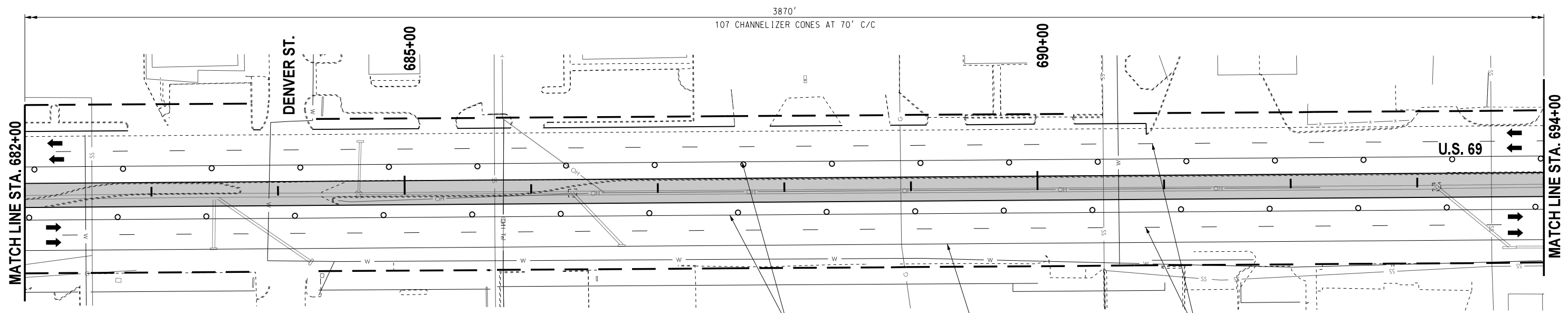
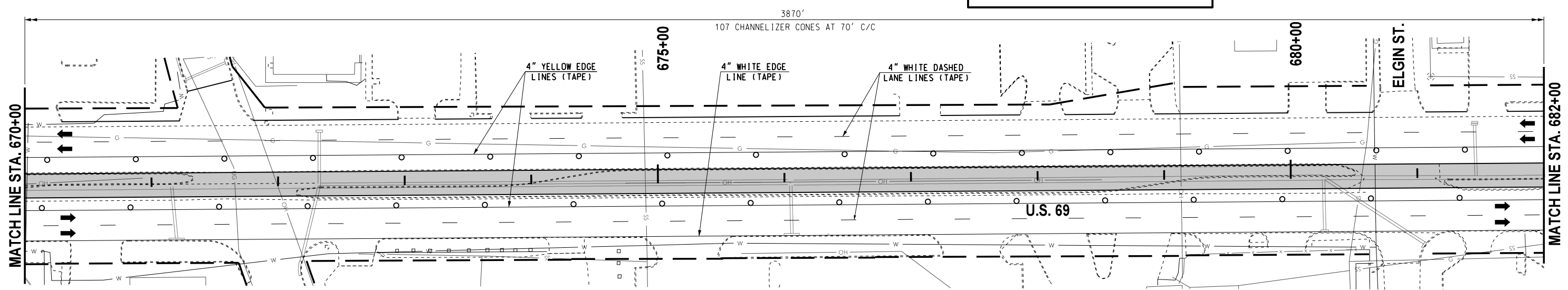
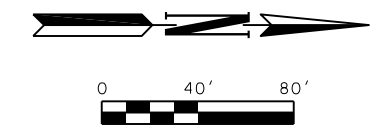
Design	RWR	08-14-23
Drawn	CAL	08-14-23
<b>TEC</b> A CLEAR DIRECTION		

<b>TRAFFIC CONTROL PLAN</b>	
<b>PHASE 5</b>	
<b>(1 OF 3)</b>	
Project No. 2710804	Sheet No. I059

08-14-23 G:\Projects\T-2385A - SD, SS, LT - EC-1576 US 69 Muskogee Plan Update\CAD\T059-270804-TRAFFIC CONTROL PLAN PHASE 5 (1 OF 3).dgn

REVISIONS		
NO.	DESCRIPTION	DATE

**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 10' MINIMUM LANE WIDTHS.**



LEGEND	
	- TYPE III BARRICADE
	W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA



Design	RWR	08-14-23
Drawn	CAL	08-14-23

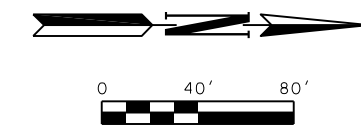


**TRAFFIC CONTROL PLAN  
PHASE 5  
(2 OF 3)**

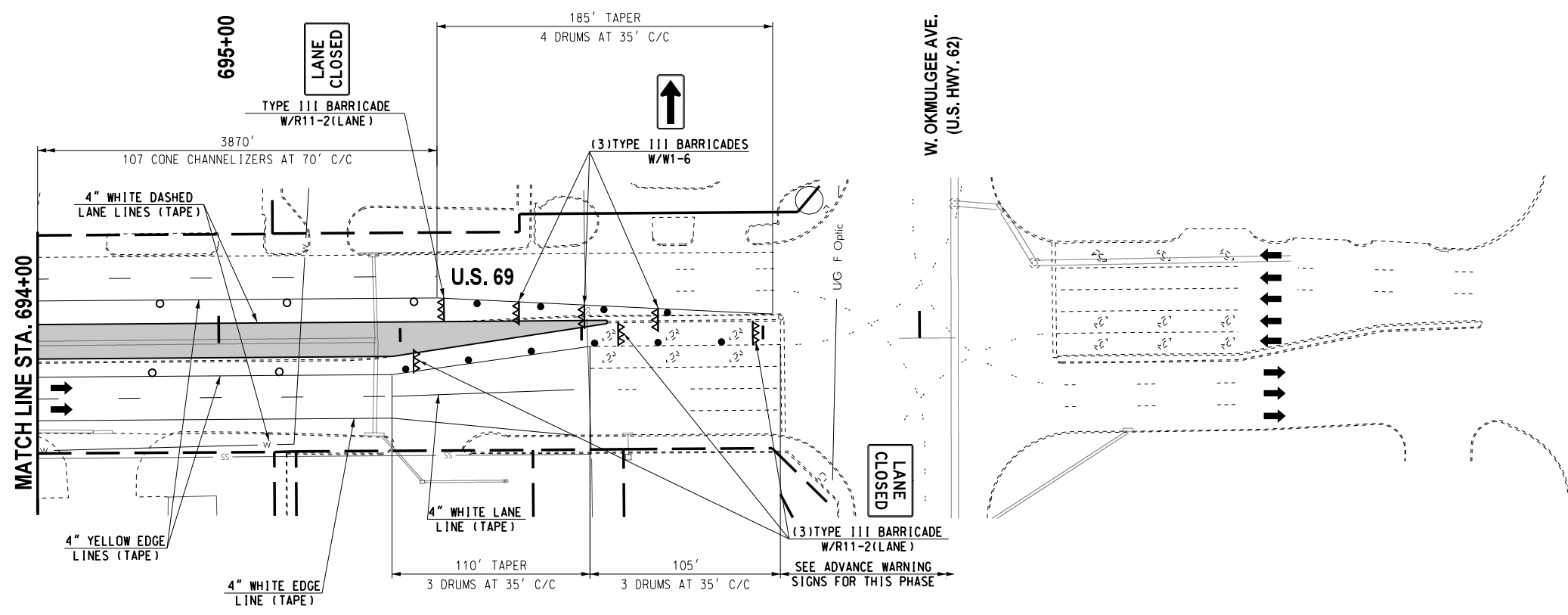
Project No. 2710804 Sheet No. I060

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REVISIONS		
NO.	DESCRIPTION	DATE



**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 10' MINIMUM LANE WIDTHS.**



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA

Design	RWR	08-14-23
Drawn	CAL	08-14-23



**TRAFFIC CONTROL PLAN  
PHASE 5  
(3 OF 3)**

Project No. 2710804 Sheet No. T061  
MUSKOGEE COUNTY



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REVISIONS		
NO.	DESCRIPTION	DATE



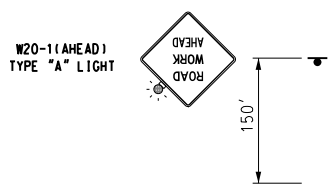
**ROAD WORK NEXT XX MILES**

**EST. COMPLETION - SUMMER 20XX**

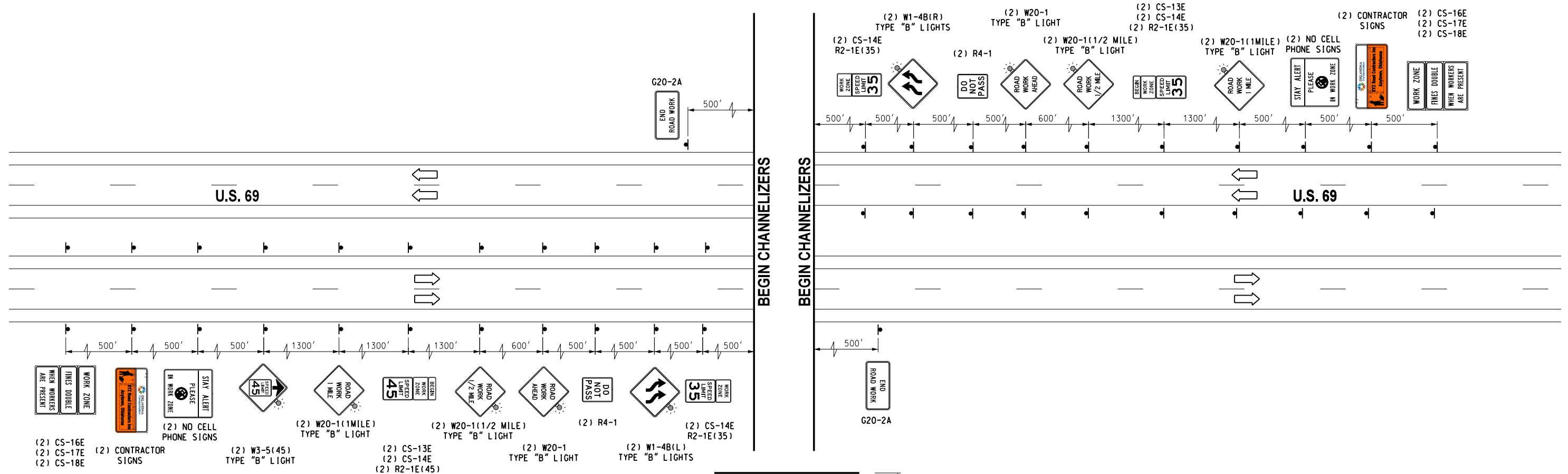
**CONTRACTOR SIGN**

**CONTRACTOR SUPPLEMENTAL PLAQUES**

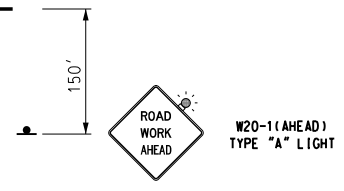
FOR MORE INFORMATION AND SPECIFICATIONS SEE LINK BELOW:  
<https://oklahoma.gov/content/dam/ok/en/odot/traffic/Contractor%20Sign%20-%20Color.pdf>



**BORDER AVE.  
 ARLINE AVE.  
 ELGIN ST.  
 DENVER ST.**



**BORDER AVE.  
 ESTELLE AVE.  
 ARLINE AVE.  
 ELGIN ST.  
 DENVER ST.**



**Phase 6.0 - U.S. Highway 69**  
 Crossover northbound traffic to southbound inside driving lanes. (Maintain two-lane two-way traffic) lanes both ways from Sta 656+00 to Sta 696+00. Install drainage structures No. 7-10A, 12, -14, 17, 18, 20-123, 25-130, 32, 34-36, 38-45, 46. Construct northbound widening: Perform grading, place Fabric, Agg. Base, prime coat, Cement Base, tack coat, and paving operations, construct proposed curbs, gutters, sidewalks, & Driveways. Perform northbound shoulder operations such as subgrade, grading and paving operations to Sta. 656+00 (Typical Section No. 3) Construct northbound pavement from Sta 656+00 to Sta 696+00.

DRAWING NOT TO SCALE

Design	RWR	08-14-23
Drawn	CAL	08-14-23



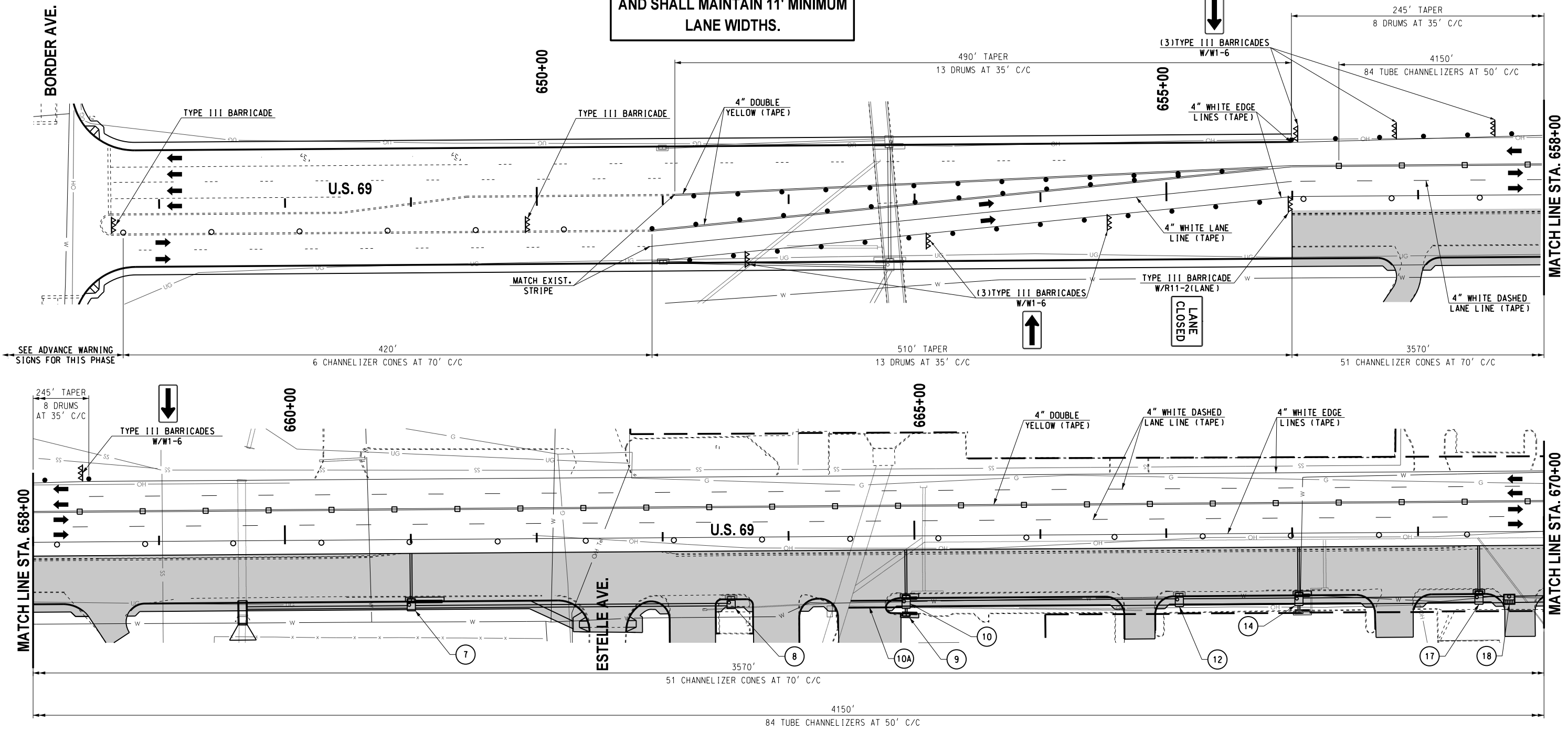
**TYPICAL ADVANCE WARNING SIGNS  
 PHASE 6**

State Job No. 2710804 Sheet No. 1062

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REVISIONS		
NO.	DESCRIPTION	DATE

**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.**



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA

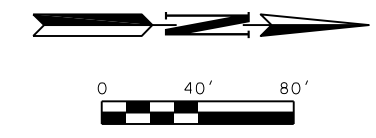


Design	RWR	08-14-23
Drawn	CAL	08-14-23

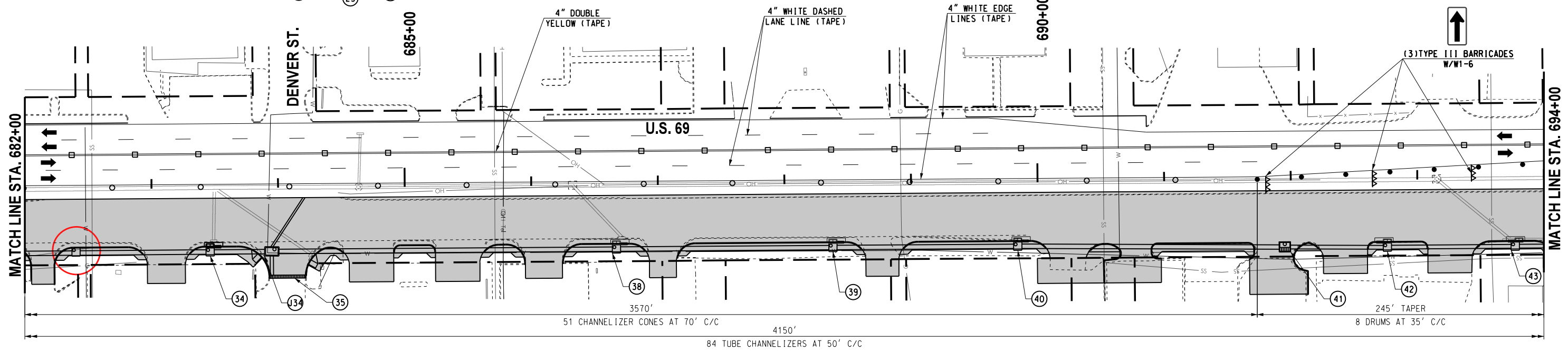
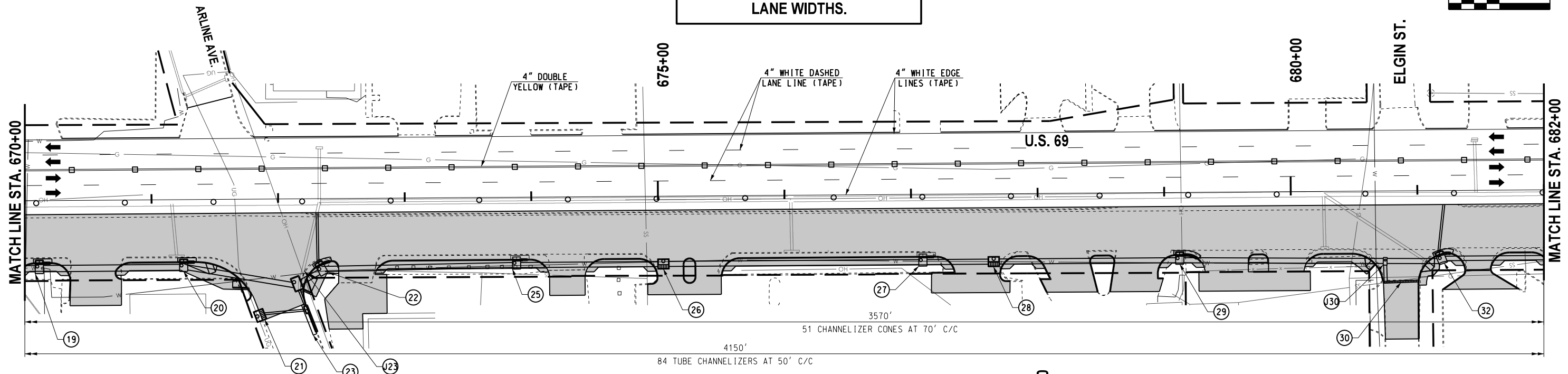
**TRAFFIC CONTROL PLAN**  
**PHASE 6**  
**(1 OF 3)**  
 Project No. 2710804 Sheet No. I063

08-14-23 G:\Projects\T-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\T063-270804-TRAFFIC CONTROL PLAN PHASE 6 (1 OF 3).dgn

REVISIONS		
NO.	DESCRIPTION	DATE



**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.**



**LEGEND**

- ▲▲ - TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
- - ARROW DISPLAY (TYPE C)
- ▼ - VERTICAL PANEL
- - DRUM
- - CHANNELIZER CONE
- - TUBE CHANNELIZER
- ▬ - PORTABLE LONGITUDINAL BARRIER
- ▬ - CONSTRUCTION ZONE IMPACT ATTENUATOR
- - WORK AREA



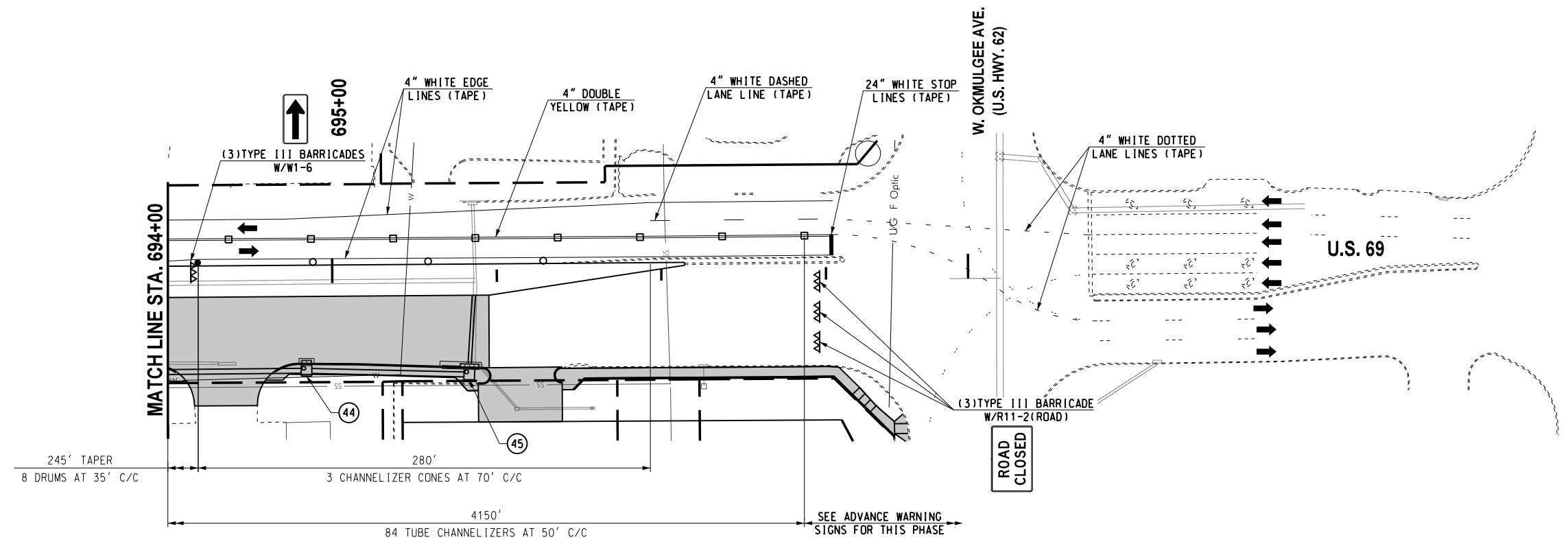
Design	RWR	08-14-23
Drawn	CAL	08-14-23

**TRAFFIC CONTROL PLAN**  
**PHASE 6**  
**(2 OF 3)**  
 Project No. 2710804 Sheet No. I064

08-14-23 G:\V\Projects\T-2385A - SD, SS, LT - EC-1576 US 69 Muskogee Plan Update\CAD\I064-270804-TRAFFIC CONTROL PLAN PHASE 6 (2 OF 3).dgn

**CONTRACTOR SHALL BUILD ALL  
STREETS AND DRIVEWAYS HALF  
AT A TIME AS TO ALLOW ACCESS,  
AND SHALL MAINTAIN 11' MINIMUM  
LANE WIDTHS.**

REVISIONS		
NO.	DESCRIPTION	DATE



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA

Design	RWR	08-14-23
Drawn	CAL	08-14-23

**TRAFFIC CONTROL PLAN  
PHASE 6  
(3 OF 3)**

Project No. 2710804 Sheet No. I065



08-14-23 G:\0\Projects\1-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\I065-270804-TRAFFIC CONTROL PLAN PHASE 6 (3 OF 3).dgn

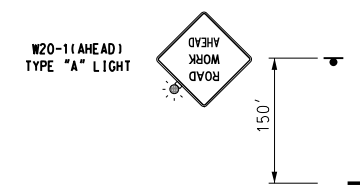
REVISIONS		
NO.	DESCRIPTION	DATE



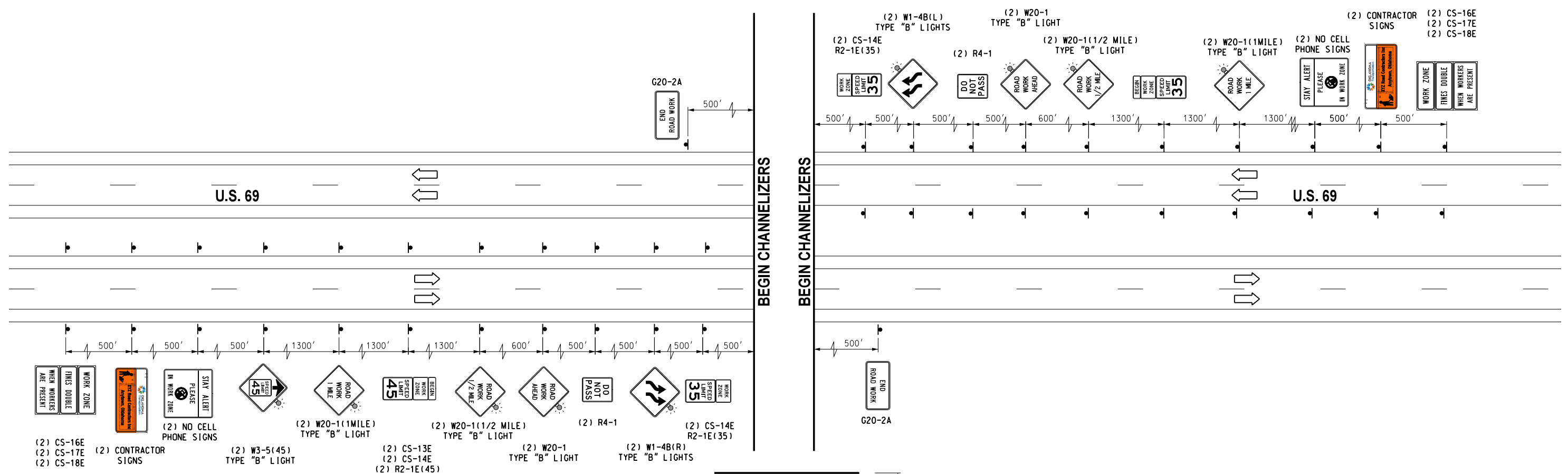
**CONTRACTOR SIGN**

FOR MORE INFORMATION AND SPECIFICATIONS SEE LINK BELOW:  
<https://oklahoma.gov/content/dam/ok/en/odot/traffic/Contractor%20Sign%20-%20Color.pdf>

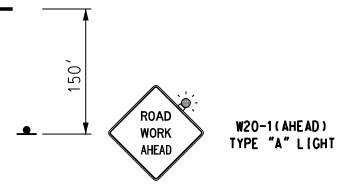
**CONTRACTOR SUPPLEMENTAL PLAQUES**



BORDER AVE.  
 ARLINE AVE.  
 ELGIN ST.  
 DENVER ST.



BORDER AVE.  
 ESTELLE AVE.  
 ARLINE AVE.  
 ELGIN ST.  
 DENVER ST.



**Phase 7.0 - U.S. Highway 69**  
 Move northbound traffic to northbound outside driving lanes. Crossover southbound traffic to northbound inside driving lanes. (Maintain two-lane two-way traffic) from Sta 656+00 to Sta 696+00. Remove temporary widening. Install drainage structures No. CD5, 6, 11, 15, 16, 24, 33, & 37. Construct southbound widening: Perform grading place Fabric, Agg. Base, prime coat, Cement Base, tack coat, and paving operations, construct proposed curbs, gutters, sidewalks, & Driveways. Perform southbound shoulder operations such as subgrade, grading and paving operations to Sta. 656+00 (Typical Section No. 3) Construct northbound pavement from Sta 656+00 to Sta 696+00.

DRAWING NOT TO SCALE

Design	RWR	08-14-23
Drawn	CAL	08-14-23



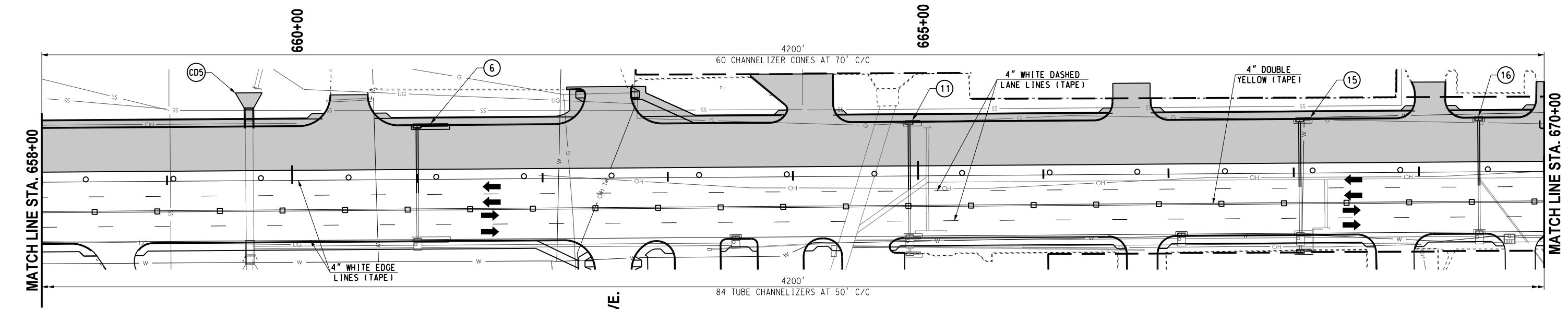
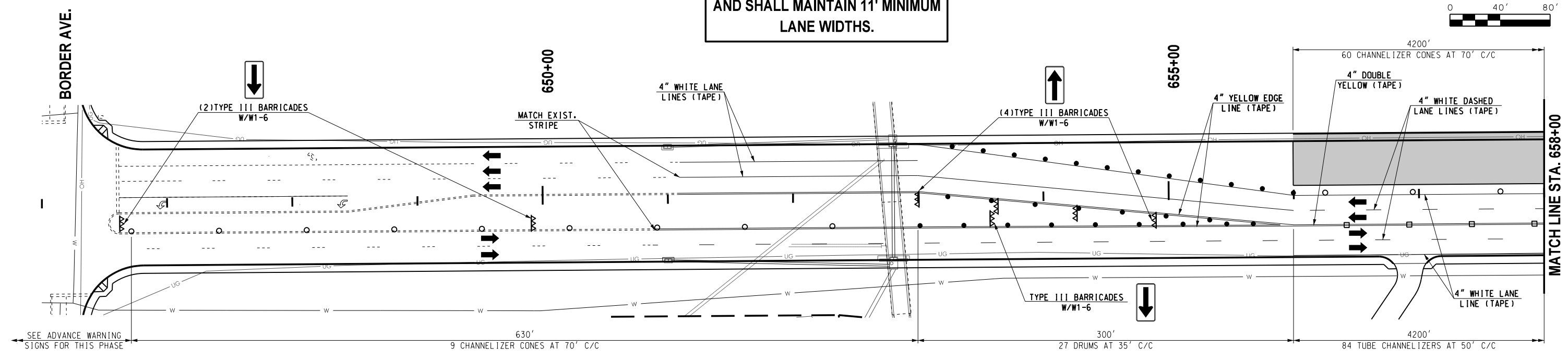
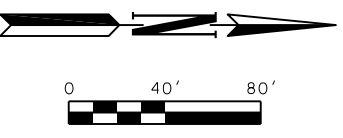
**TYPICAL ADVANCE WARNING SIGNS  
 PHASE 7**

State Job No. 2710804 Sheet No. 1066

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REVISIONS		
NO.	DESCRIPTION	DATE

**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.**



**LEGEND**

- ▲▲▲ - TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
- - ARROW DISPLAY (TYPE C)
- ⊥ - VERTICAL PANEL
- - DRUM
- - CHANNELIZER CONE
- - TUBE CHANNELIZER
- - PORTABLE LONGITUDINAL BARRIER
- - CONSTRUCTION ZONE IMPACT ATTENUATOR
- - WORK AREA

08-14-23 G:\Projects\1-2385A - SD, SS, LT - EC-1576 US 69 Muskogee Plan Update\CAD\1067-270804-TRAFFIC CONTROL PLAN PHASE 7 (1 OF 3).dgn



Design	RWR	08-14-23
Drawn	CAL	08-14-23



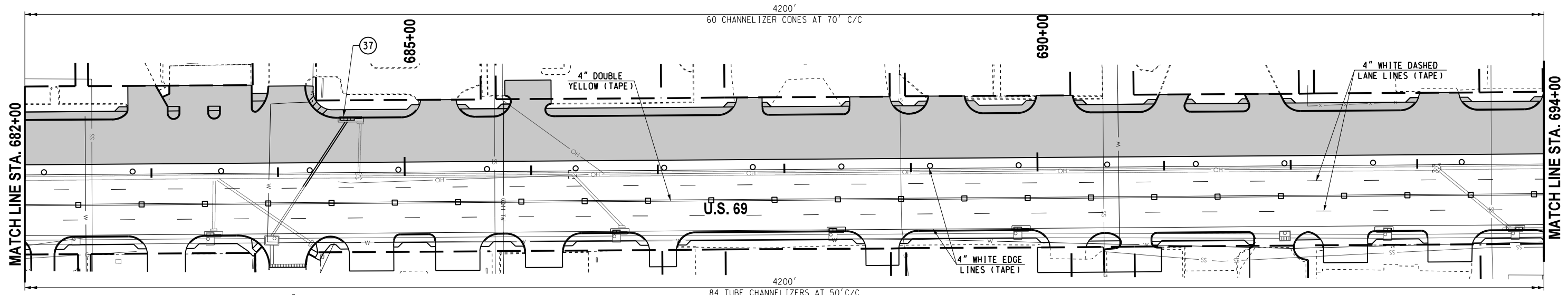
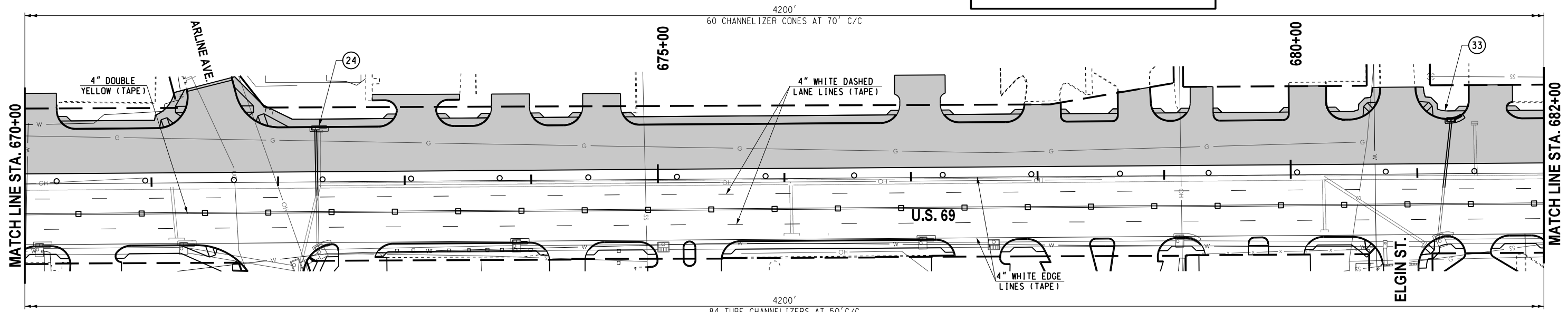
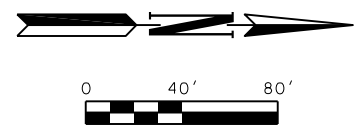
**TRAFFIC CONTROL PLAN  
PHASE 7  
(1 OF 3)**

Project No. 2710804 Sheet No. 1067

MUSKOGEE COUNTY

REVISIONS		
NO.	DESCRIPTION	DATE

**CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.**



LEGEND	
	- TYPE III BARRICADE
	W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA

Design	RWR	08-14-23
Drawn	CAL	08-14-23

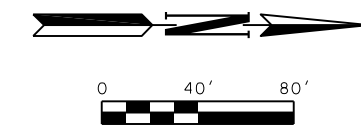
**TRAFFIC CONTROL PLAN  
PHASE 7  
(2 OF 3)**

Project No. 2710804      Sheet No. I068

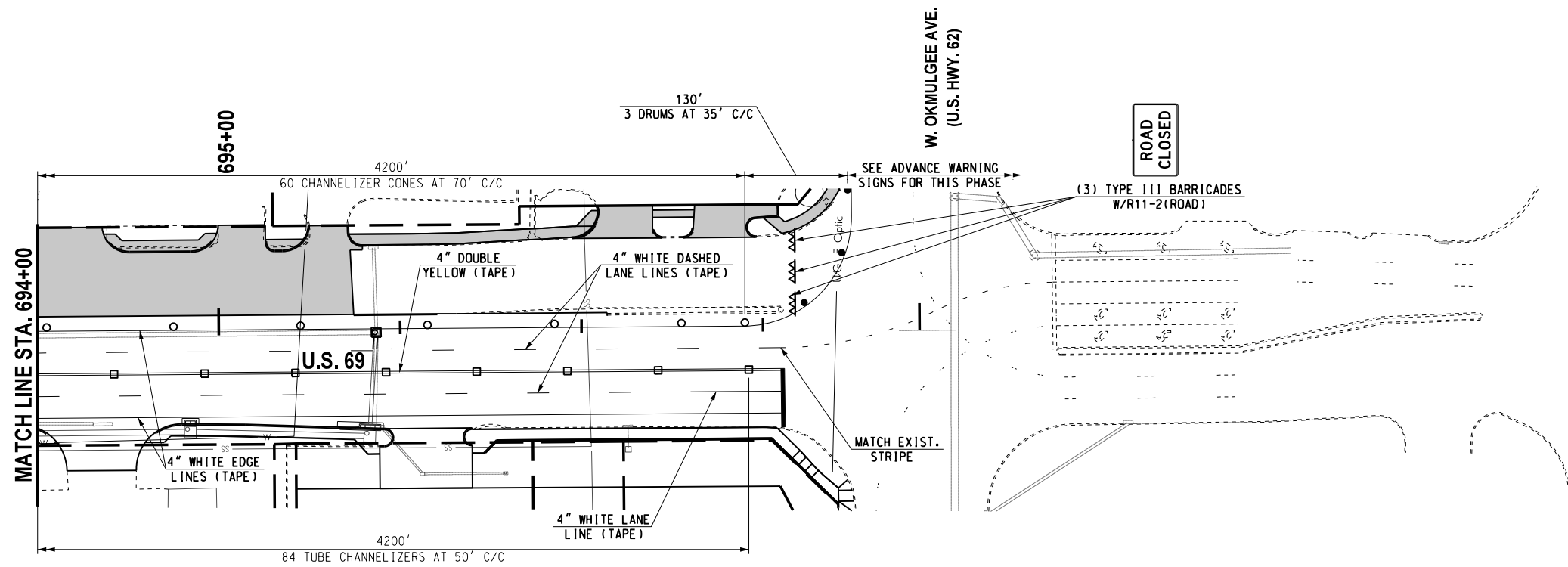


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REVISIONS		
NO.	DESCRIPTION	DATE



**CONTRACTOR SHALL BUILD ALL  
STREETS AND DRIVEWAYS HALF  
AT A TIME AS TO ALLOW ACCESS,  
AND SHALL MAINTAIN 11' MINIMUM  
LANE WIDTHS.**



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA

Design	RWR	08-14-23
Drawn	CAL	08-14-23



**TRAFFIC CONTROL PLAN  
PHASE 7  
(3 OF 3)**

Project No. 2710804 Sheet No. T069  
MUSKOGEE COUNTY



08-14-23 G:\0\Projects\T-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\T069-270804-TRAFFIC CONTROL PLAN PHASE 7 (3 OF 3).dgn



REVISIONS		
NO.	DESCRIPTION	DATE

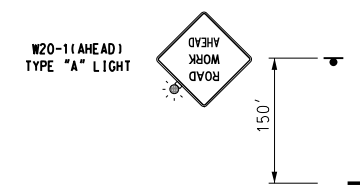


**CONTRACTOR SIGN**

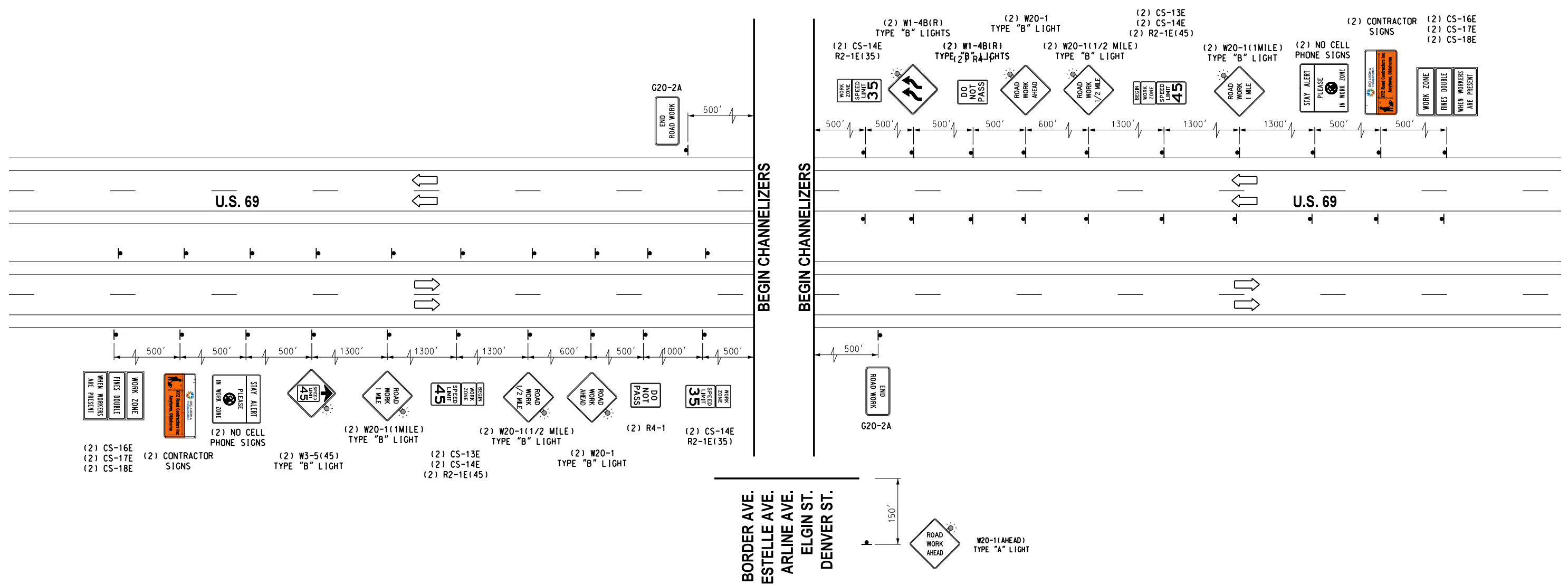
FOR MORE INFORMATION AND SPECIFICATIONS SEE LINK BELOW:  
<https://oklahoma.gov/content/dam/ok/en/odot/traffic/Contractor%20Sign%20-%20Color.pdf>



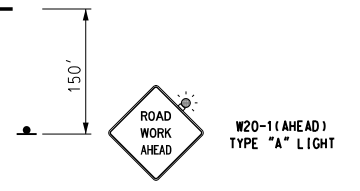
**CONTRACTOR SUPPLEMENTAL PLAQUES**



BORDER AVE.  
 ARLINE AVE.  
 ELGIN ST.  
 DENVER ST.



BORDER AVE.  
 ESTELLE AVE.  
 ARLINE AVE.  
 ELGIN ST.  
 DENVER ST.



**Phase 8.0 - U.S. Highway 69**  
 Move northbound traffic to northbound outside driving lanes. Shift southbound traffic to southbound outside driving lanes. (Maintain two-lane two-way traffic) from Sta 566+00 to Sta 696+00. Remove temporary crossovers. Construct raised concrete medians. Complete final minor grading and paving operations. Complete permanent traffic control including pavement markings and signs. Complete permanent erosion control measure. Ensure all trash and debris has been removed from the construction site.

DRAWING NOT TO SCALE

Design	RWR	08-14-23
Drawn	CAL	08-14-23

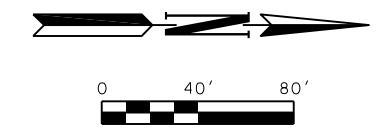
**TEC**  
A CLEAR DIRECTION

**TYPICAL ADVANCE WARNING SIGNS  
PHASE 8**

State Job No. 2710804 Sheet No. 1070

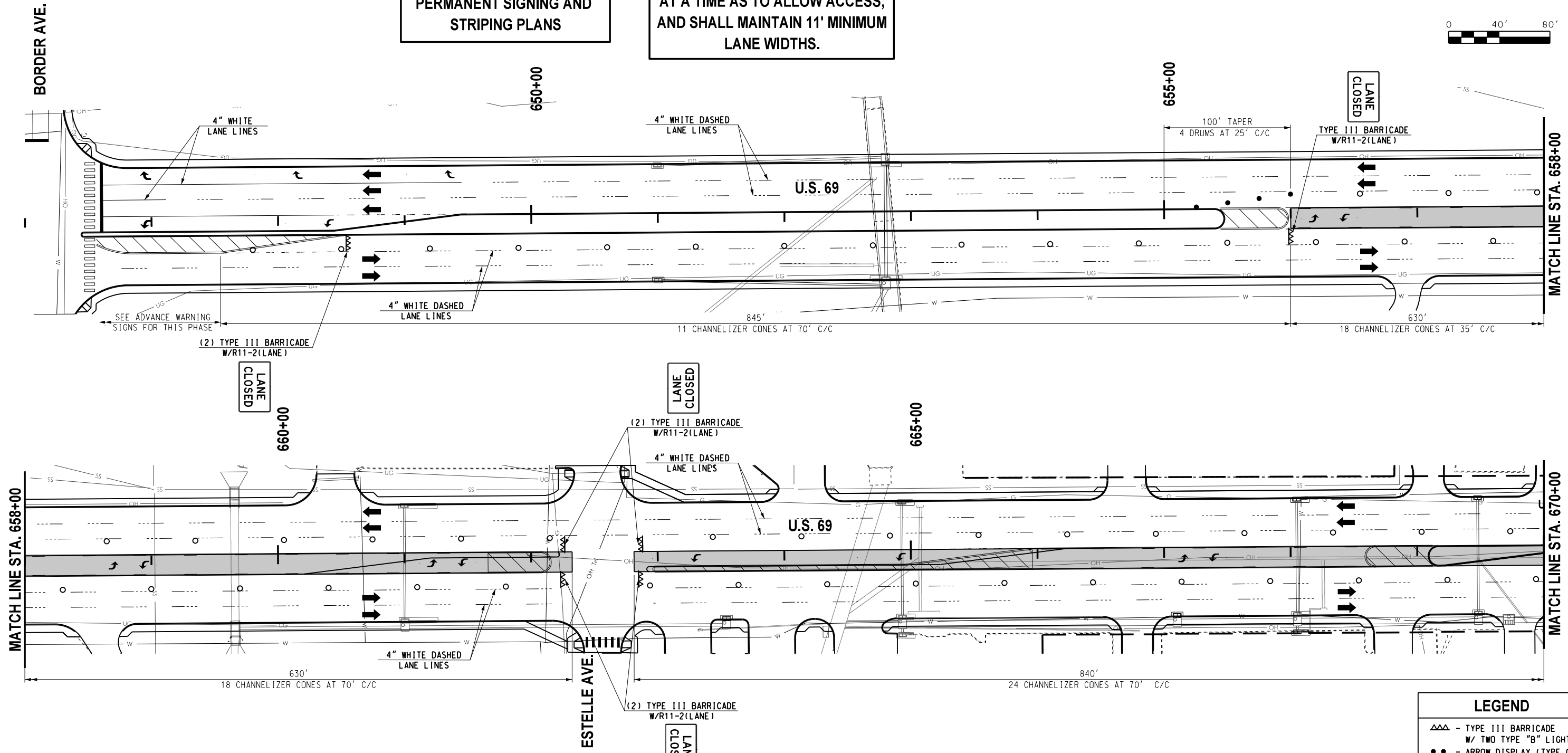
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REVISIONS		
NO.	DESCRIPTION	DATE



FOR STRIPING DIMENSIONS NOT SHOWN REFER TO THE PERMANENT SIGNING AND STRIPING PLANS

CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA



Design	RWR	08-14-23
Drawn	CAL	08-14-23

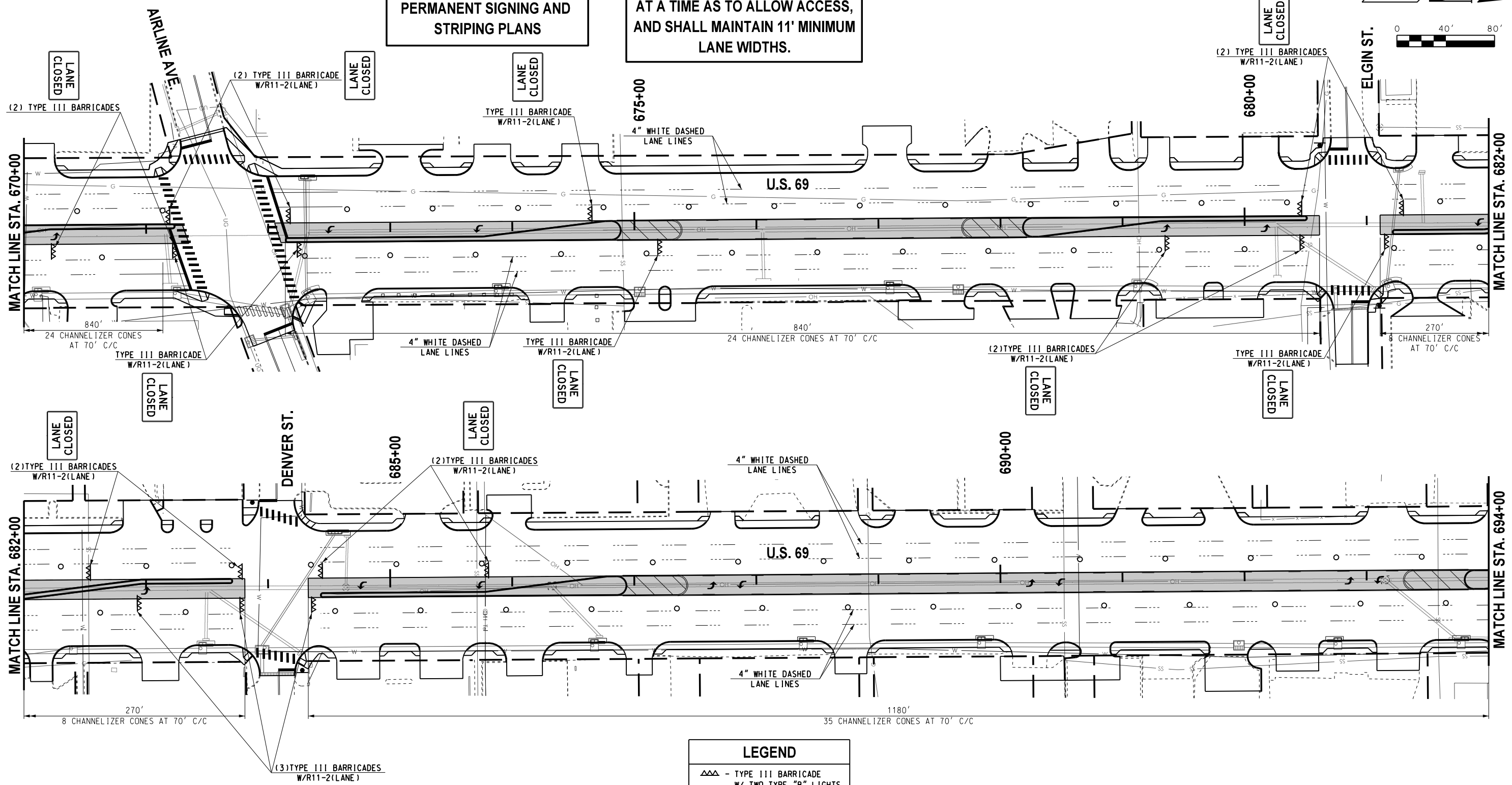
**TRAFFIC CONTROL PLAN**  
**PHASE 8**  
**(1 OF 3)**  
 Project No. 2710804 Sheet No. T071  
 MUSKOGEE COUNTY

08-14-23 Ga\0\Projects\T-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\T071-270804-TRAFFIC CONTROL PLAN PHASE 8 (OF 3).dgn

REVISIONS		
NO.	DESCRIPTION	DATE

FOR STRIPING DIMENSIONS NOT SHOWN REFER TO THE PERMANENT SIGNING AND STRIPING PLANS

CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA



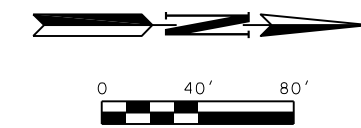
Design	RWR	08-14-23
Drawn	CAL	08-14-23
<b>TEC</b> A CLEAR DIRECTION		

**TRAFFIC CONTROL PLAN**  
**PHASE 8**  
**(2 OF 3)**

Project No. 2710804      Sheet No. 1072

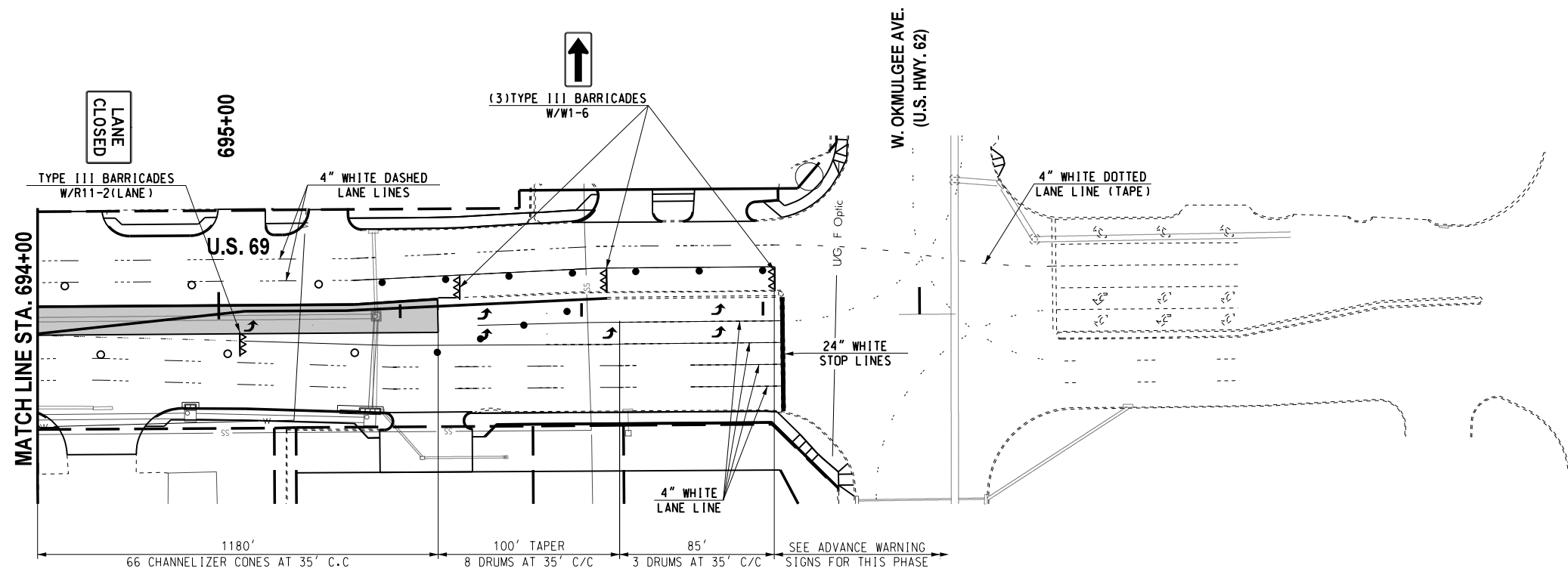
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REVISIONS		
NO.	DESCRIPTION	DATE



FOR STRIPING DIMENSTIONS NOT SHOWN REFERE TO THE PERMANENT SIGNING AND STRIPING PLANS

CONTRACTOR SHALL BUILD ALL STREETS AND DRIVEWAYS HALF AT A TIME AS TO ALLOW ACCESS, AND SHALL MAINTAIN 11' MINIMUM LANE WIDTHS.



LEGEND	
	- TYPE III BARRICADE W/ TWO TYPE "B" LIGHTS
	- ARROW DISPLAY (TYPE C)
	- VERTICAL PANEL
	- DRUM
	- CHANNELIZER CONE
	- TUBE CHANNELIZER
	- PORTABLE LONGITUDINAL BARRIER
	- CONSTRUCTION ZONE IMPACT ATTENUATOR
	- WORK AREA

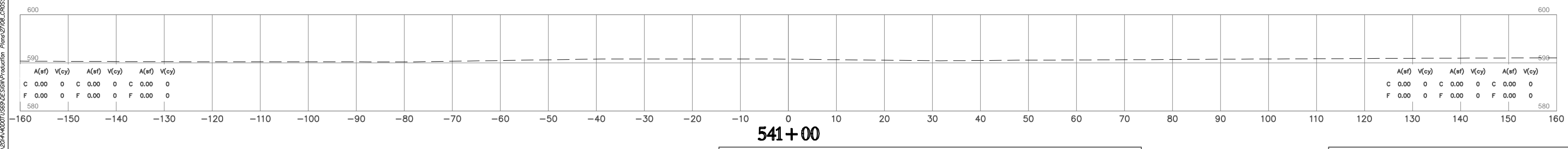
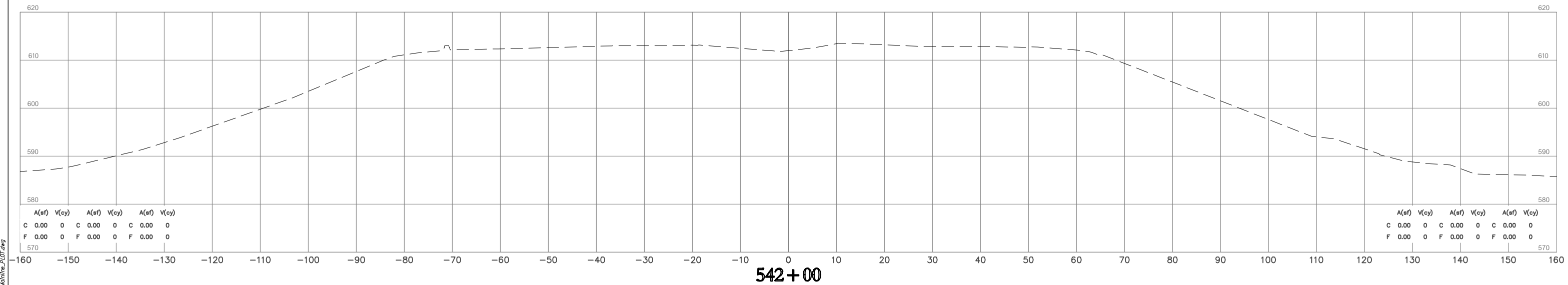
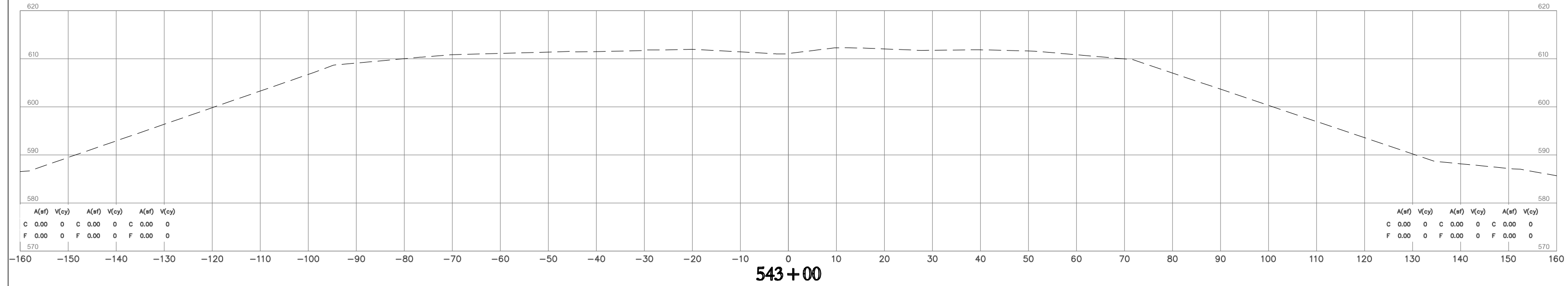
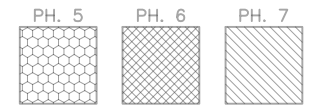
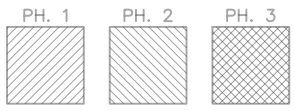


Design	RWR	08-14-23
Drawn	CAL	08-14-23



**TRAFFIC CONTROL PLAN  
PHASE 8  
(3 OF 3)**  
Project No. 2710804 Sheet No. I073

08-14-23 G:\0\Projects\T-2385A - SD, SS, LT - EC-1516 US 69 Muskogee Plan Update\CAD\1073-270804-TRAFFIC CONTROL PLAN PHASE 8 13 OF 31.dgn



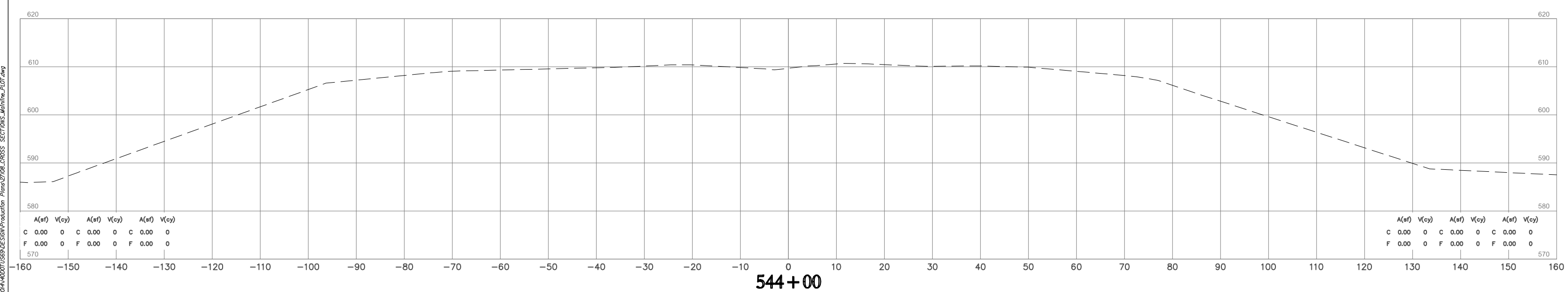
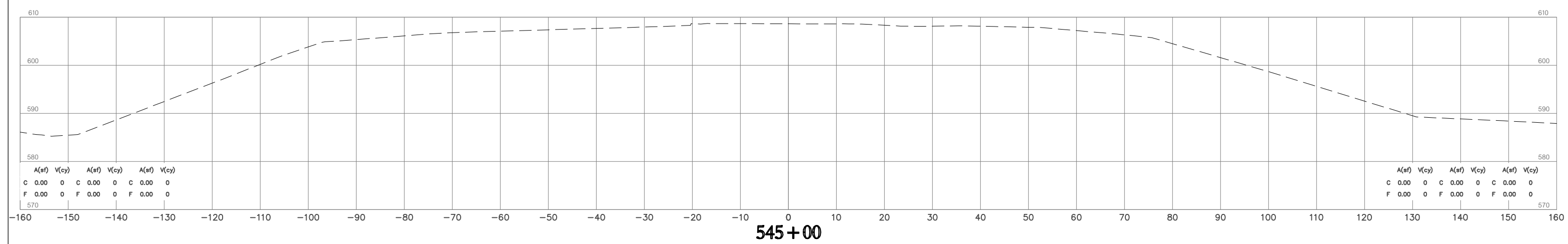
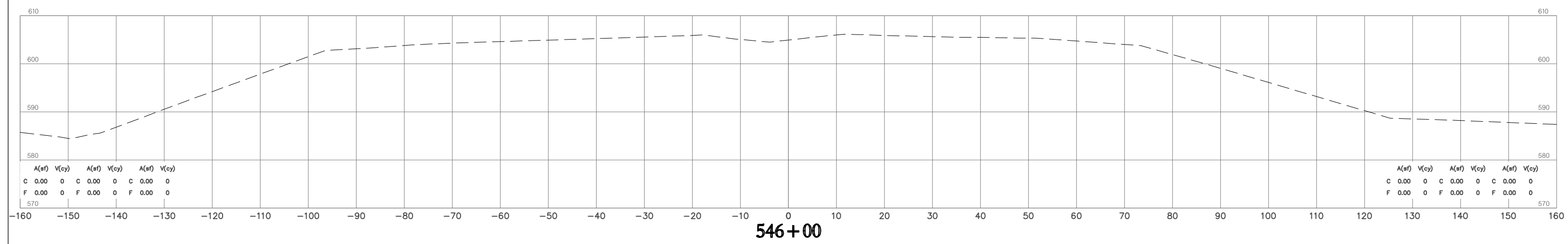
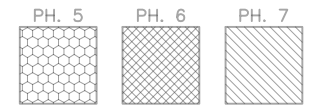
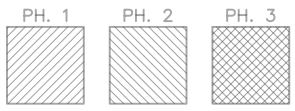
**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X001

H:\B E n g i n e e r s \Time of Plot: 11/21/2023 2:04 AM Plot Style: HP6160L17E (S:\2024\001\059\02\Station\Production\Plan\021002.DWG) SECTIONS.Mch16a\_PLOT.dwg





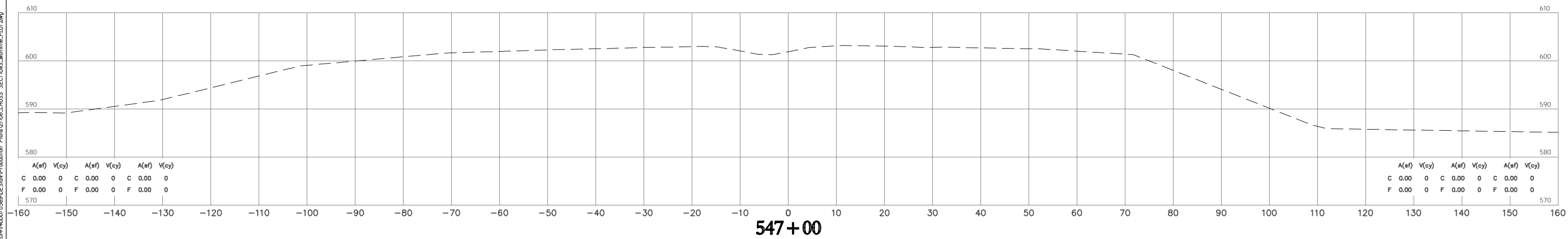
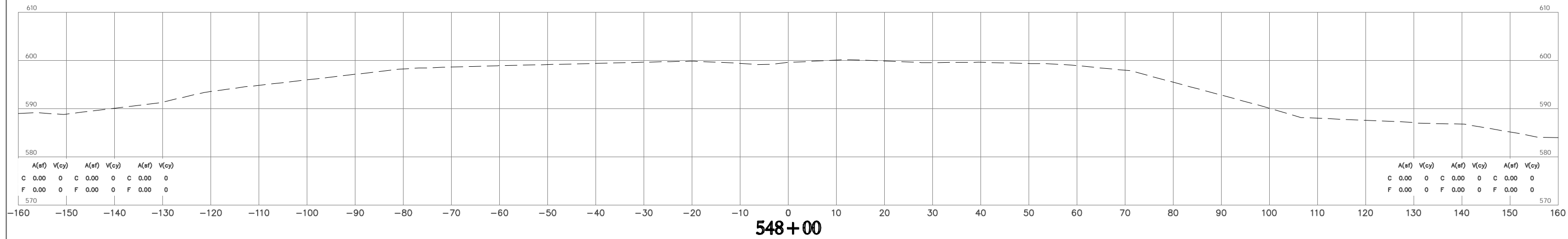
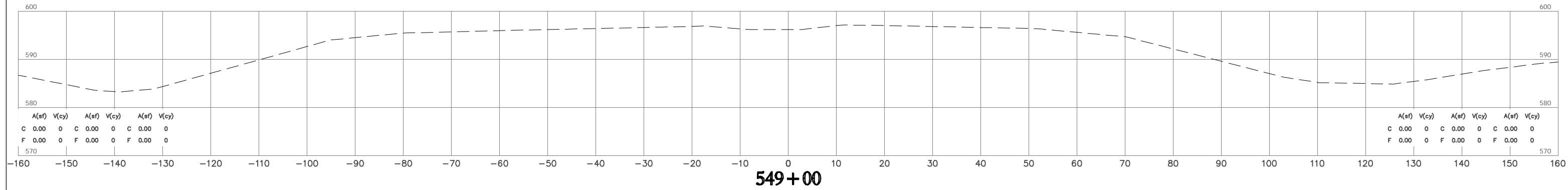
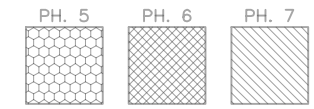
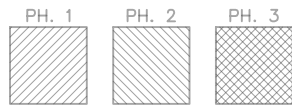
H:\B E n g i n e e r s \Time of Plot: 11/21/2023 2:25 AM Plot Style: HP6500LPT6 (320444001)05902501Production Plans\27108\_04\_CROSS\_SECTIONS\Mch19a\_PLOT.dwg



**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X002

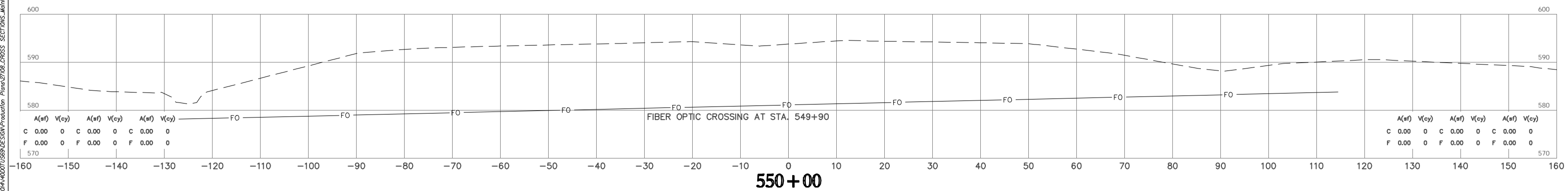
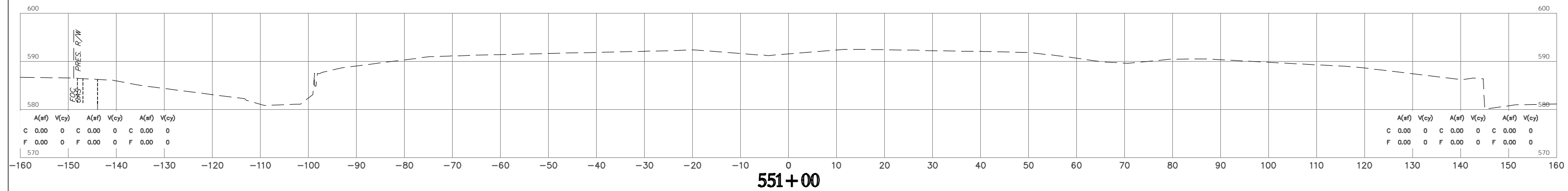
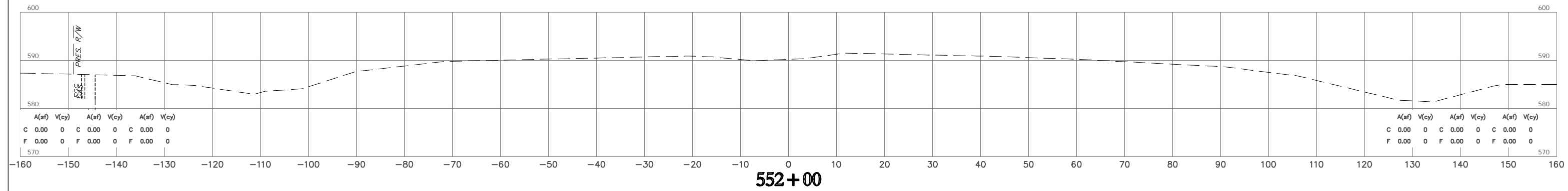
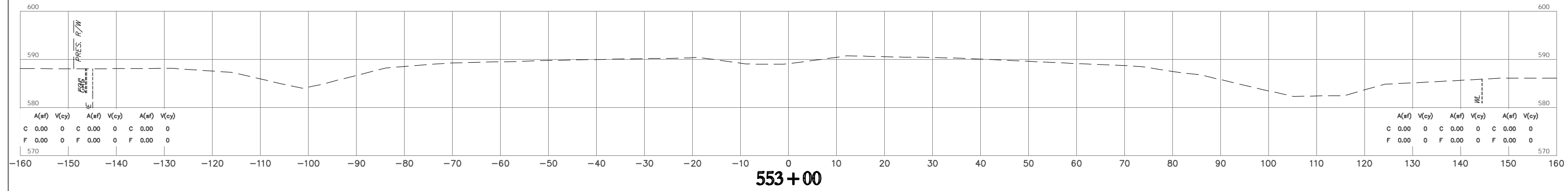
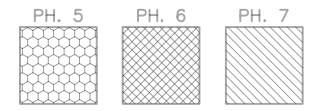
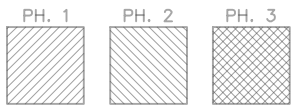


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X003

H:\B E n g i n e e r s \Time of Plot: 11/21/2023 2:30 AM Plot Style: HP6160L.PLT Section: SECTIONS\_Meritine\_PLOT.dwg



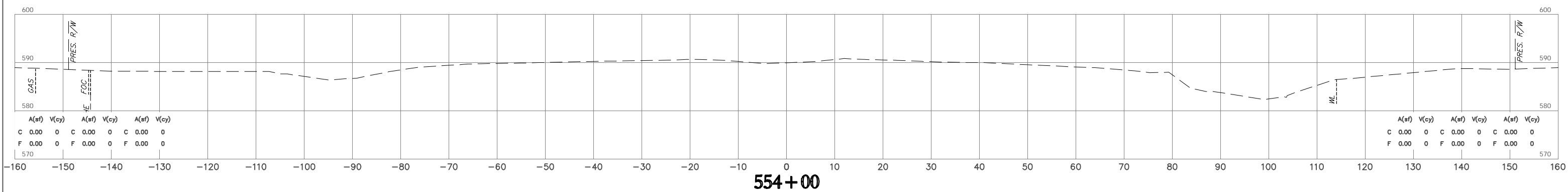
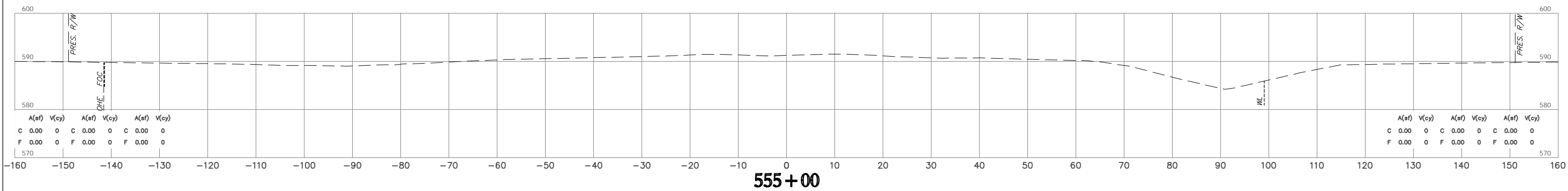
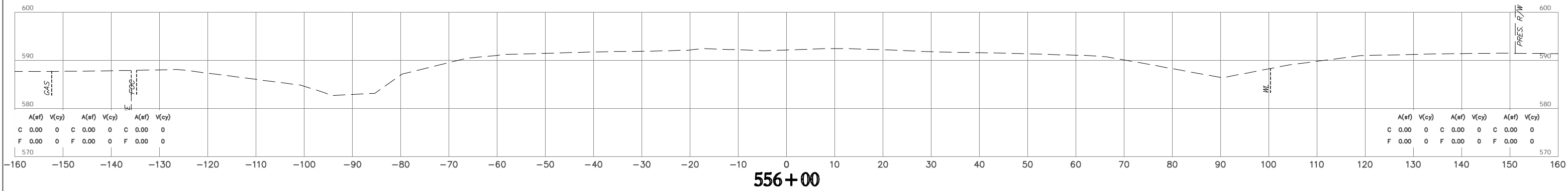
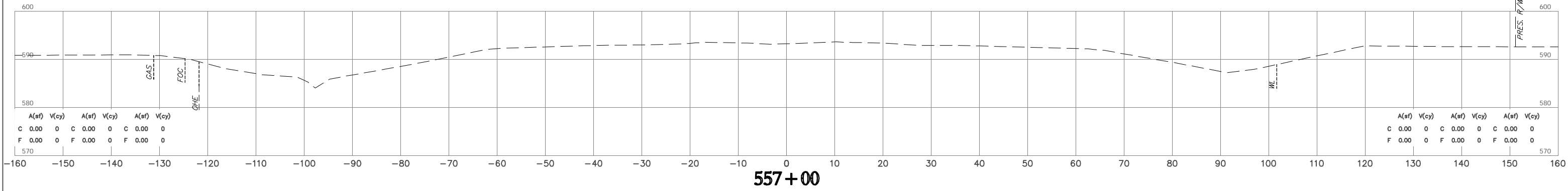
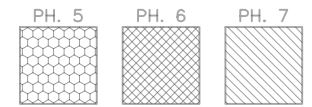
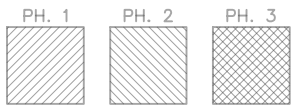
**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X004

HUB E n g i n e e r s  
11/21/2023 2:31 AM Plot Style: HPB50MCTB  
G:\2024\001\059\059\Production Plans\02\06.CROSS SECTIONS\Mchline\_PLOT.dwg



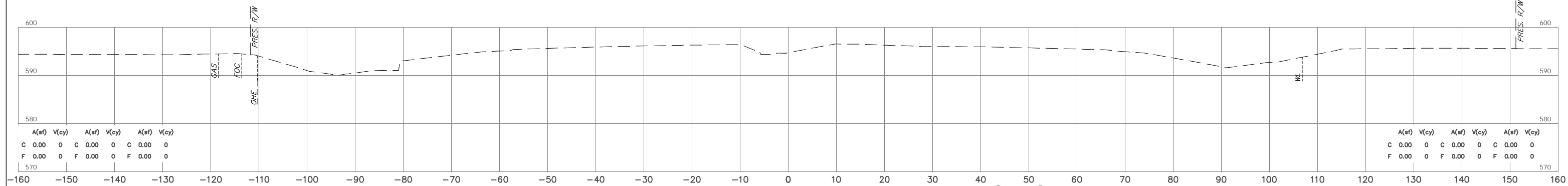
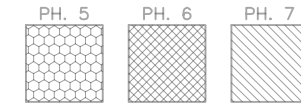
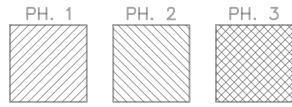


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

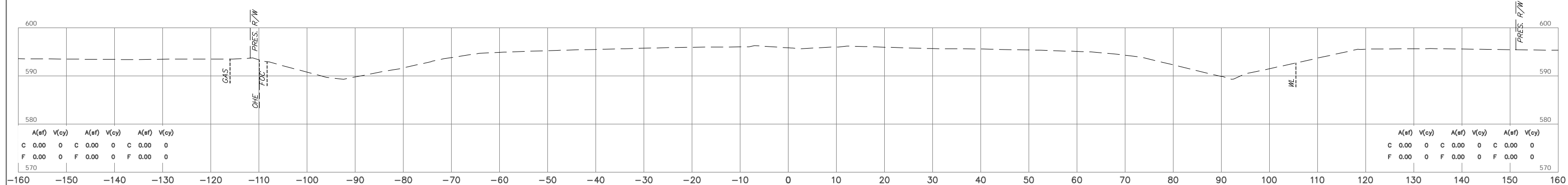
STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X005

H:\B E n g i n e e r s \Time of Plot: 11/21/2023 2:31 AM Plot Style: HP050MCTB (S:\CH44\DOT\059\059\Production\Plans\02\06\CRSS\_SECTION.Metric\_PLOT.dwg)

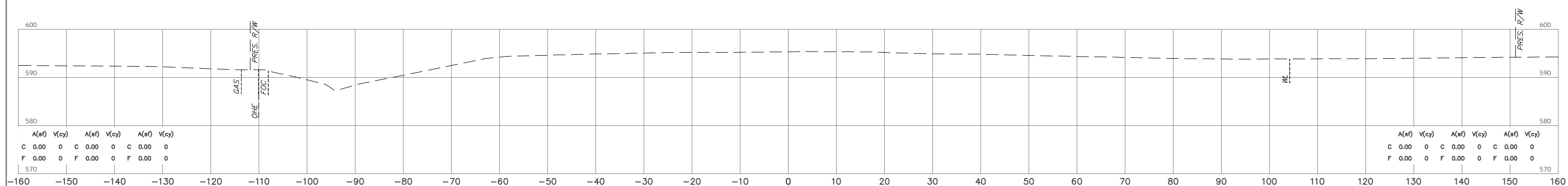


561+00

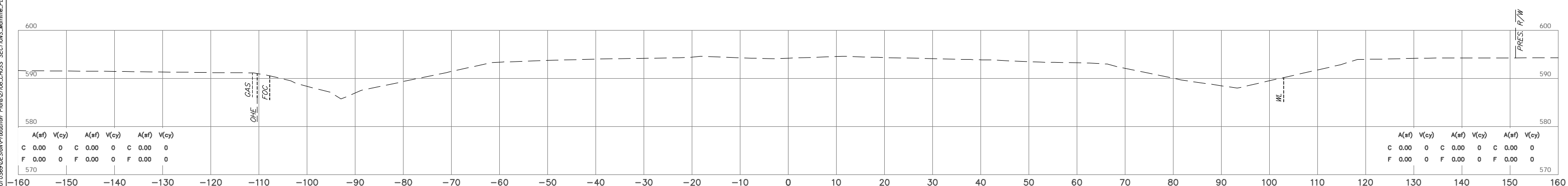
CRL STA. 5561+00  
BEGIN INCIDENTAL CONST.



560+00



559+00



558+00

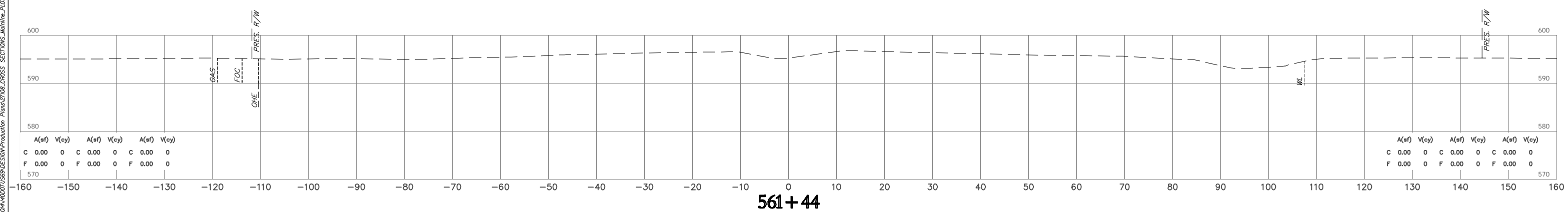
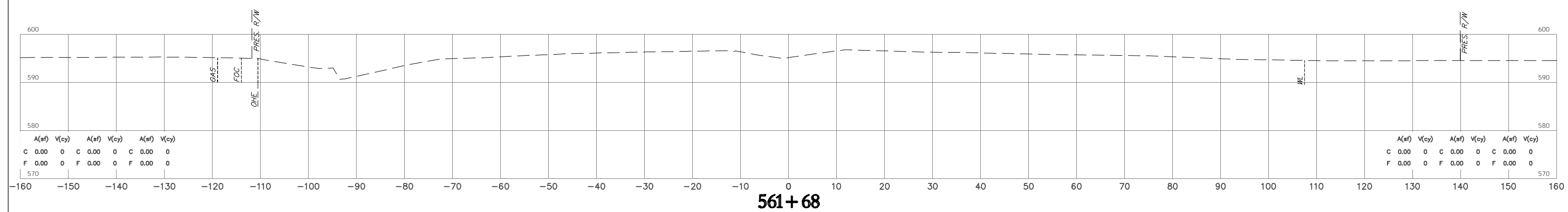
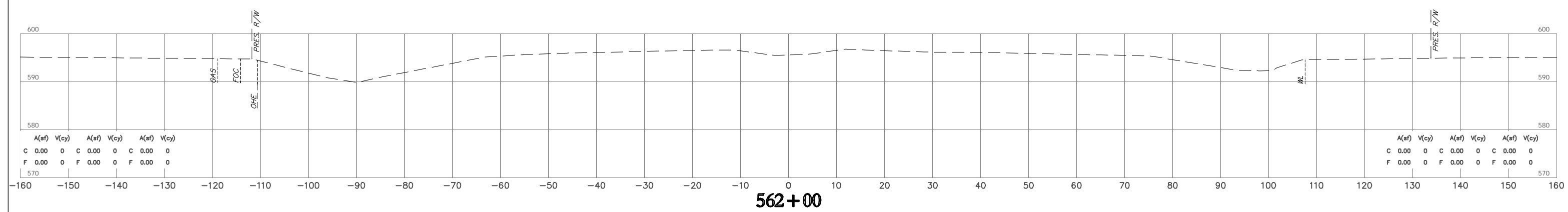
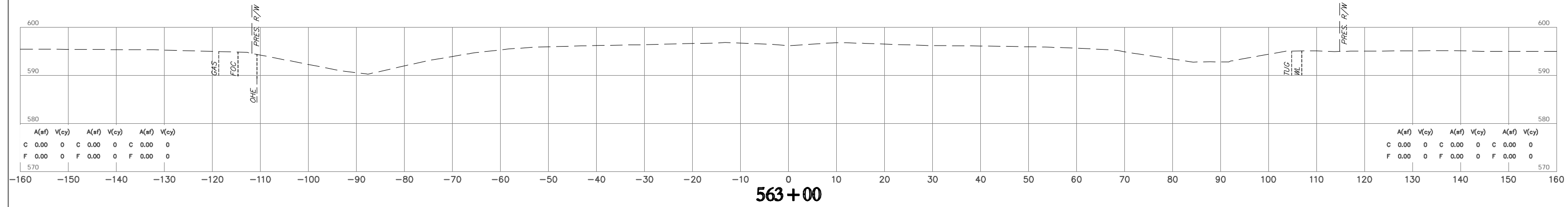
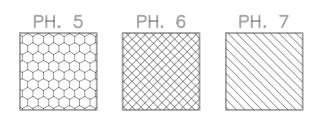
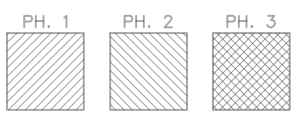
**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY

SHEET NO. X006

H:\B\_E\_n\_g\_i\_n\_e\_e\_r\_s\Time of Plot: 11/21/2023 2:32 AM Plot Style: HPB50MLP7B (G:\CH44\0071059\059\Production Plans\07106.DWG) SECTIONS.Metric\_PLOT.dwg

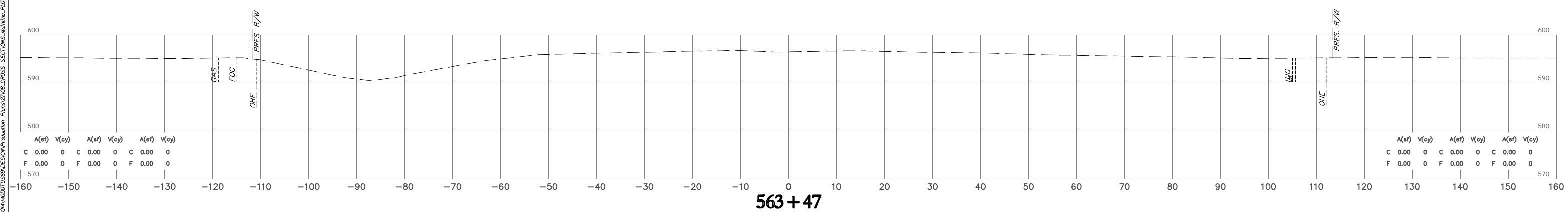
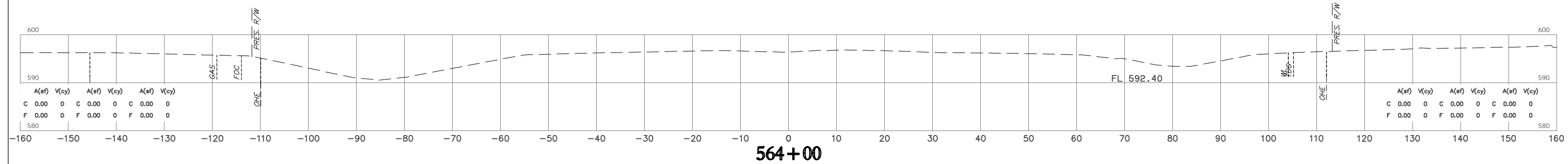
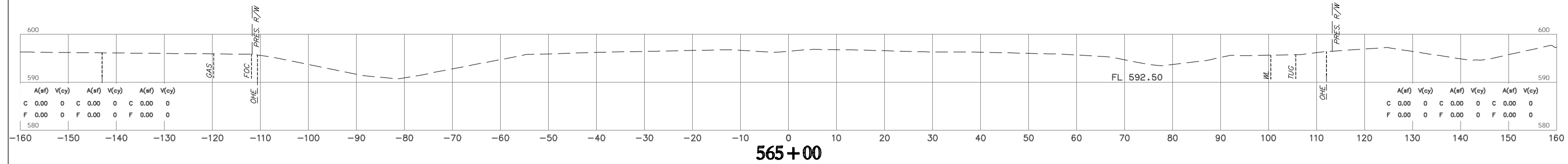
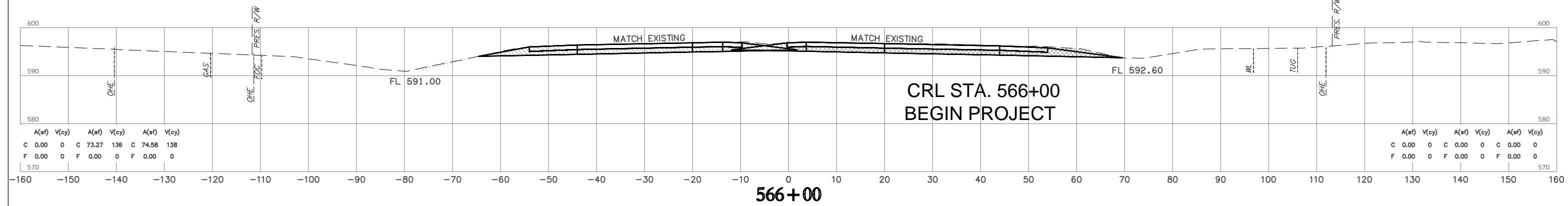
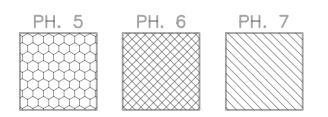
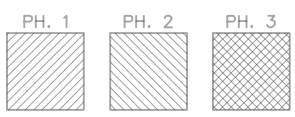


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X007

HUB E n g i n e e r s  
Time of Plot: 11/21/2023 2:33 AM Plot Style: HPB50MUTB  
G:\2024\001\059\059\Production Plans\07108\PROSS SECTIONS\Metric\_Plot.dwg

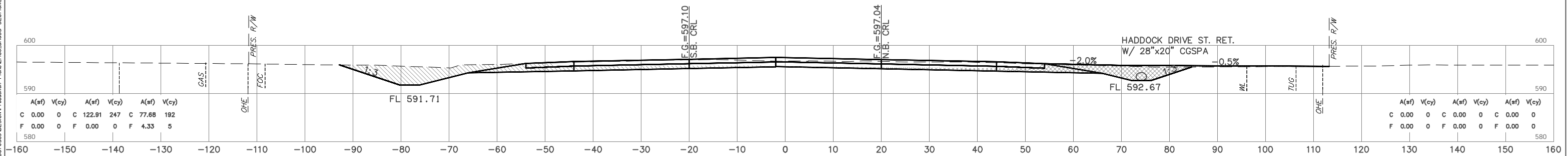
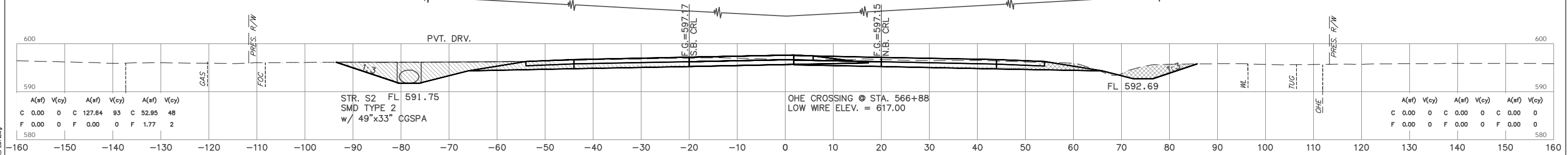
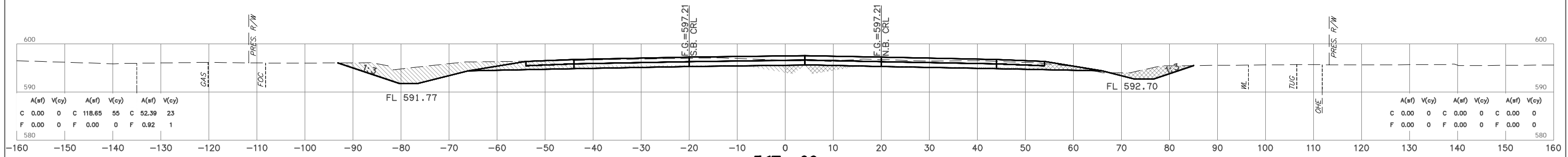
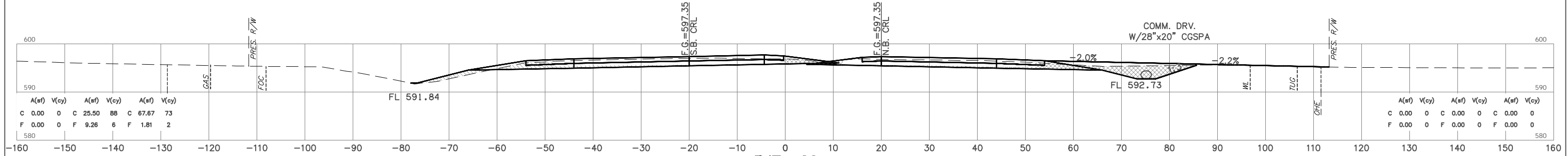
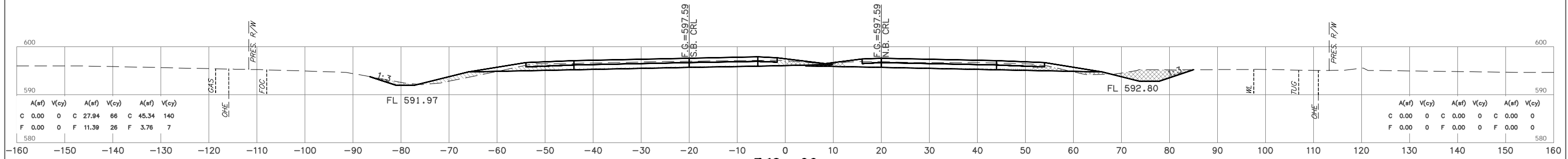
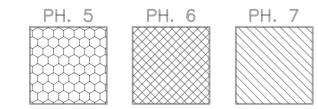
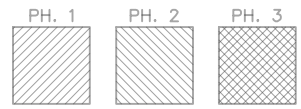


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X008

HUB Engrs & Architects  
11/21/2023 2:33 AM Plot Style: HPB50MCTB  
G:\2024\001\059\059\Production Plans\07108\059\SECTIONS\Metric\_Plot.dwg

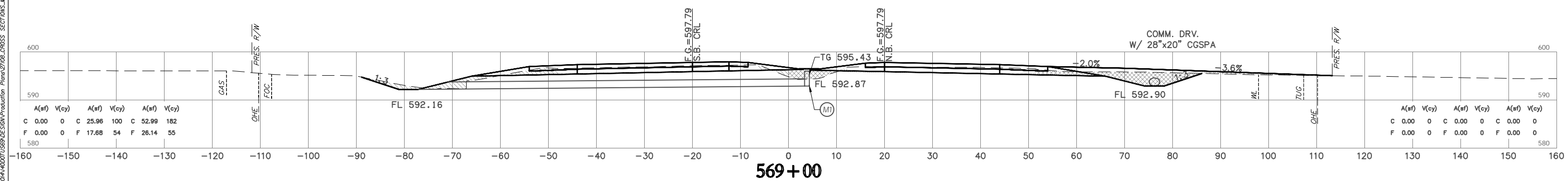
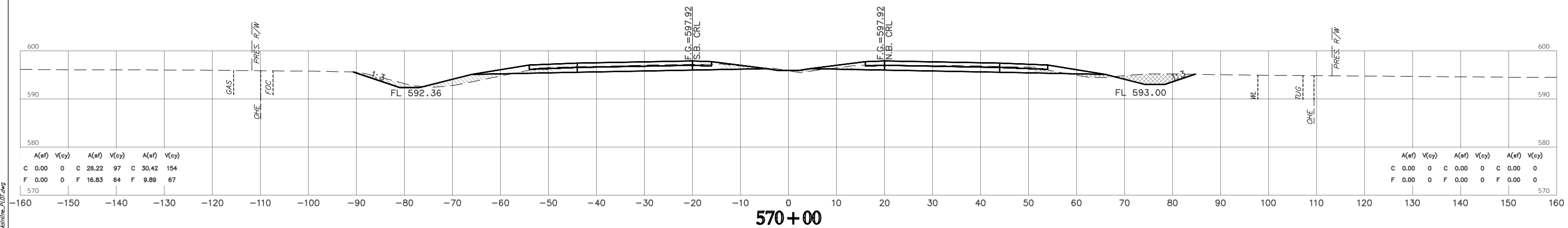
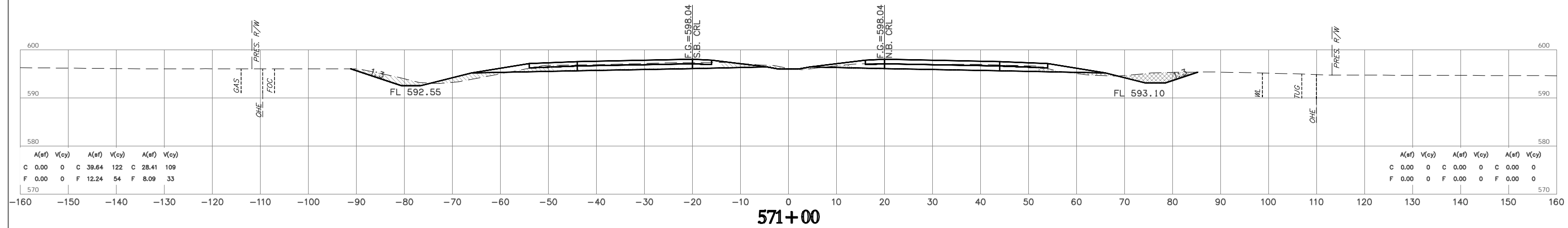
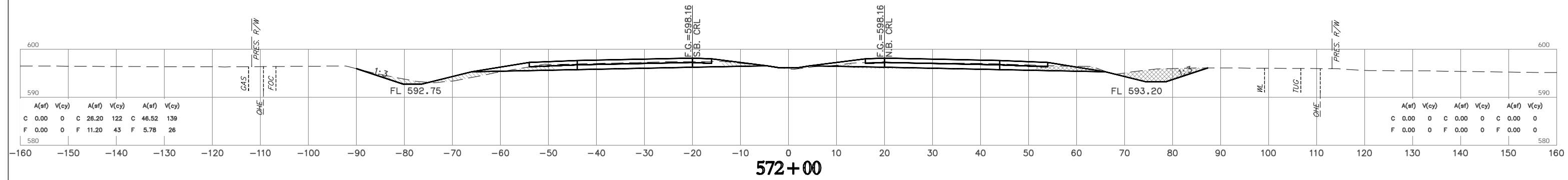
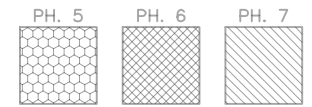
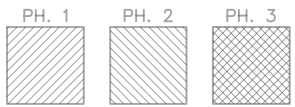


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X009

HUB E n 9 1 n 9 e r s  
 Time of Plot: 11/21/2023 2:33 AM Plot Style: HP9500.DWT  
 (S:\2024\001\059\059\059\Production Plans\27108\04\GROSS SECTIONS\Metric\_Plot.dwg)

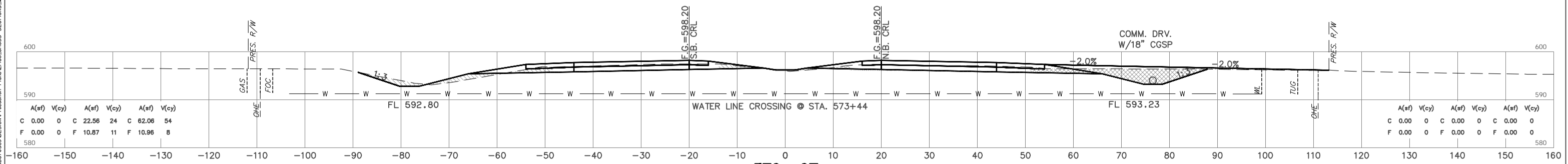
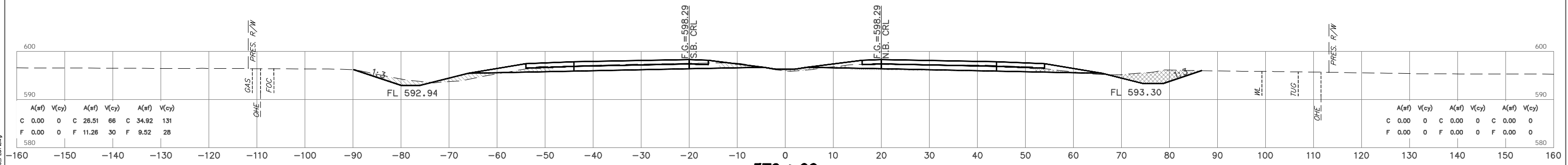
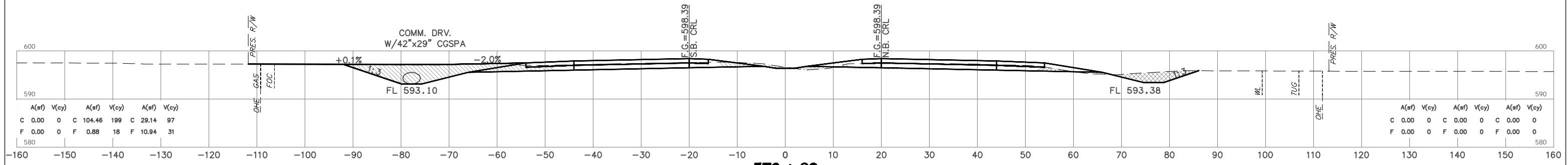
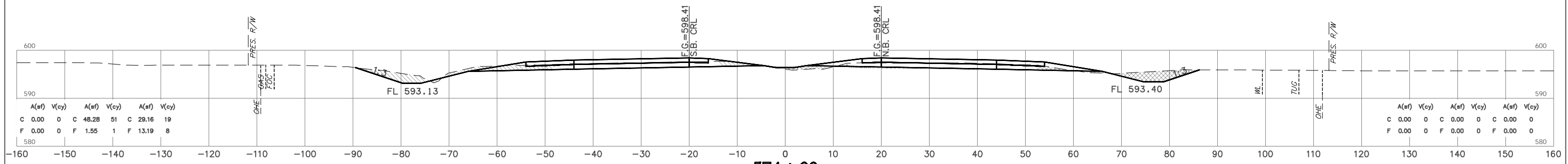
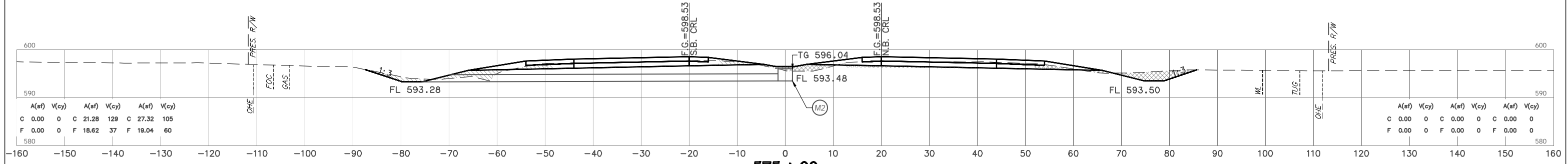
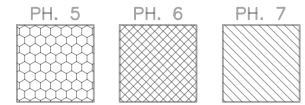
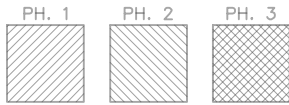


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

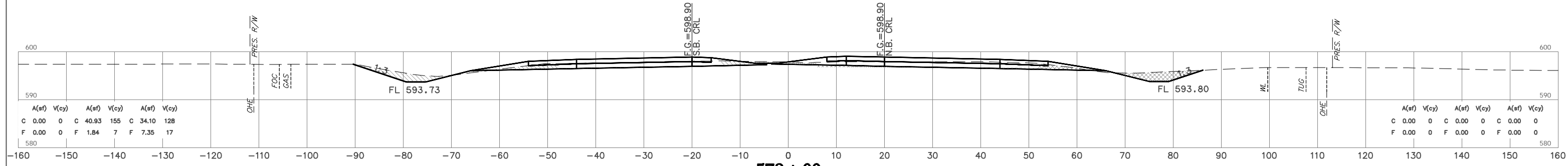
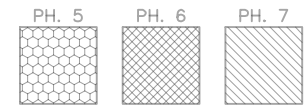
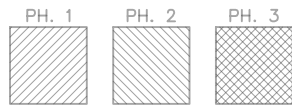
STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X010

H:\B\_E\_n\_g\1\_n\_9\_9\_r\_s\17\m\_of\_Plot\_11/23/2023\_2:34 AM Plot Style: HPB50MLT.B... SECTIONS.Metric\_Plot.dwg

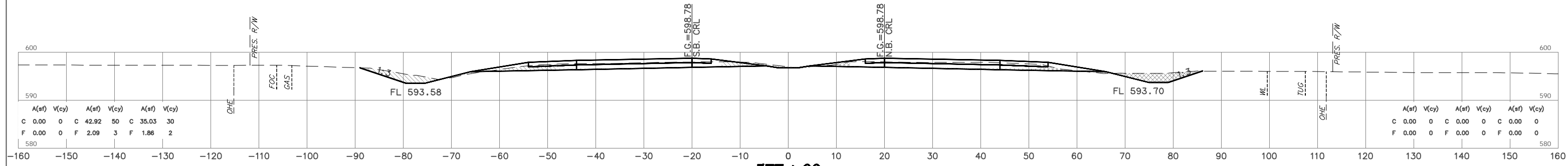


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

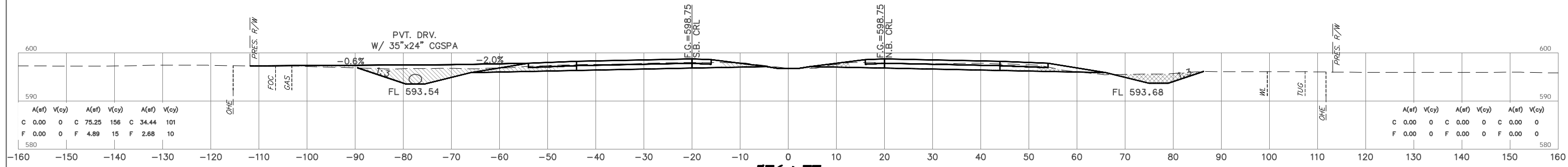
HUB Engr. 11/23/2023 2:34 AM Plot Style: HP9010L.plt  
 I:\Projects\2023\27108\Drawings\ASB\ASB-CROSS SECTIONS\Midline\_Plot.dwg  
 I:\Projects\2023\27108\Drawings\ASB\ASB-CROSS SECTIONS\Midline\_Plot.dwg



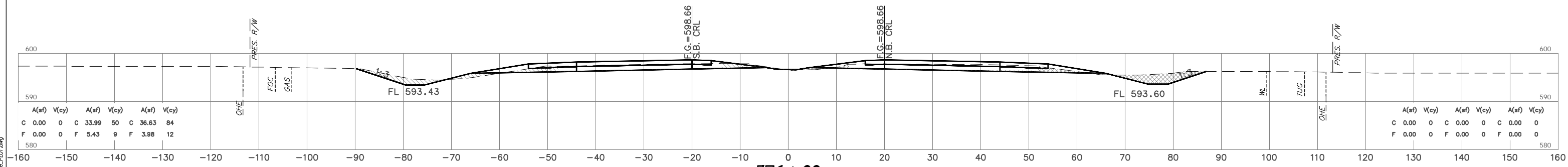
578+00



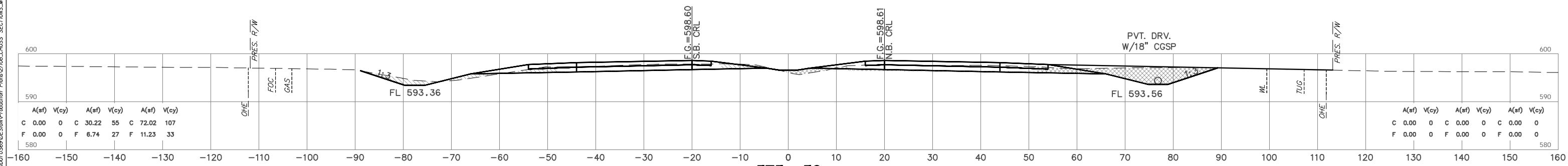
577+00



576+77



576+00



575+58

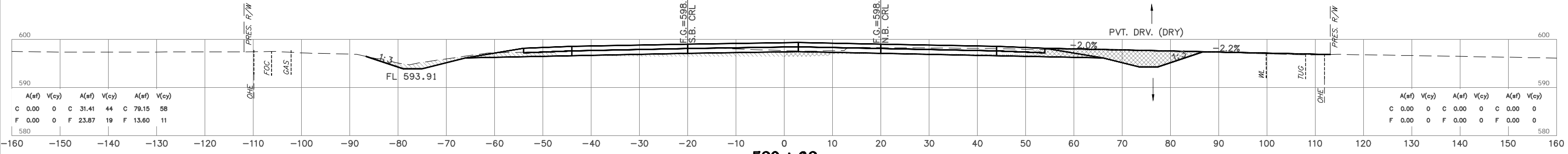
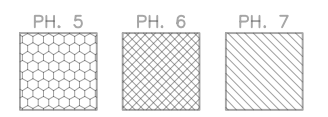
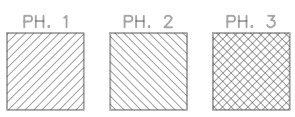
**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

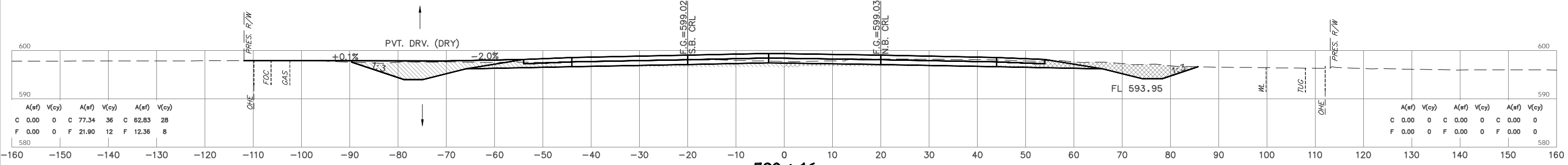
STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X012

HUB E n g i n e e r s  
11/21/2023 2:34 AM Plot Style: HP6150L17B  
G:\2024\001\059\059\059\Production Plans\27108\CRSS SECTIONS\Midline\_PLOT.dwg

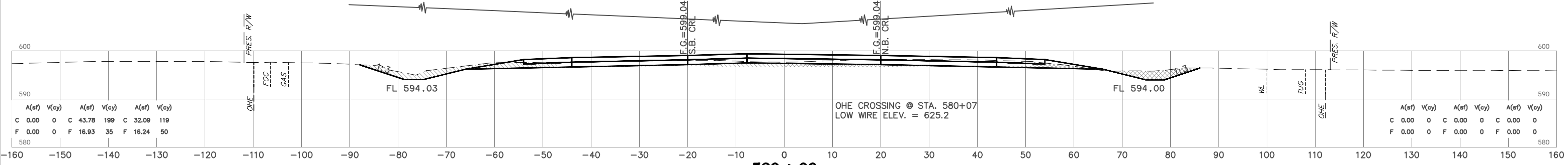




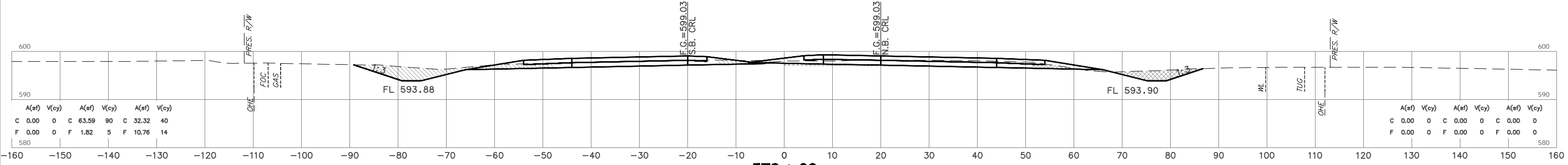
580+38



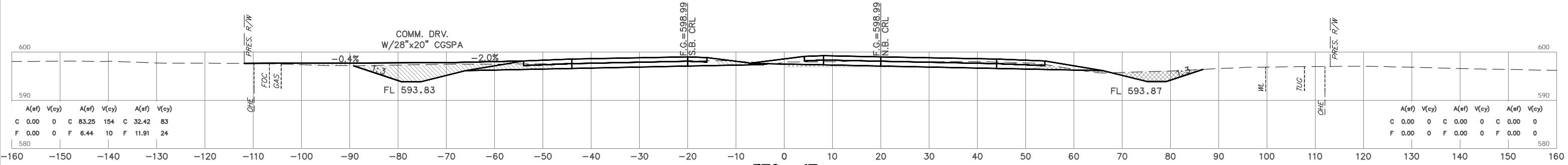
580+16



580+00



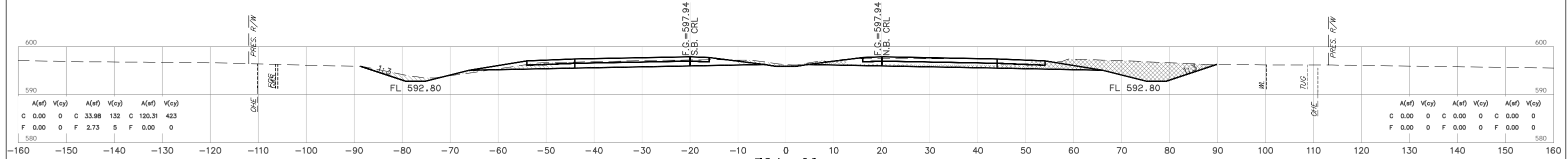
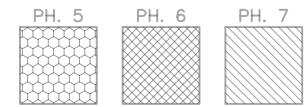
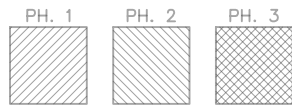
579+00



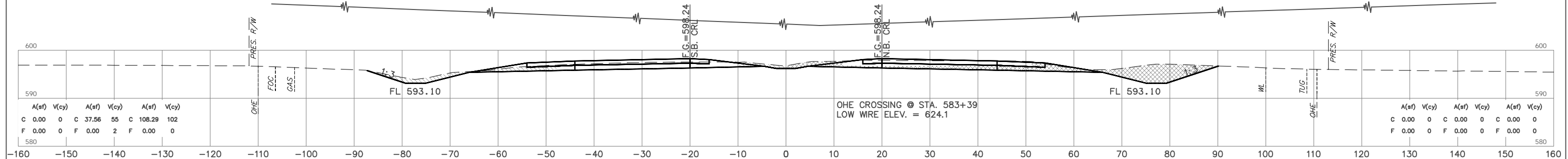
578+67

**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

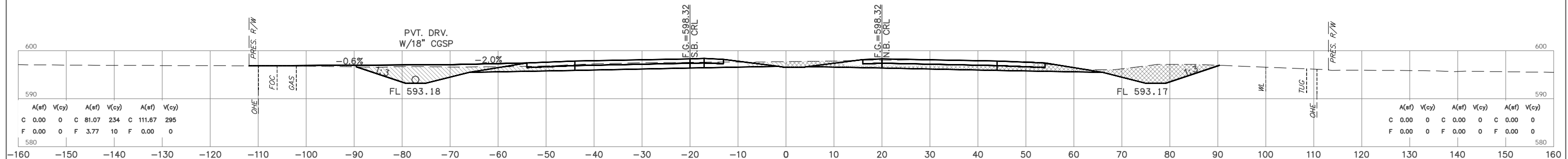
HUB Engrs & Architects  
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G:\2023\01059\059\059\Production Plans\CR08.CROSS SECTIONS\Midline\_Plot.dwg



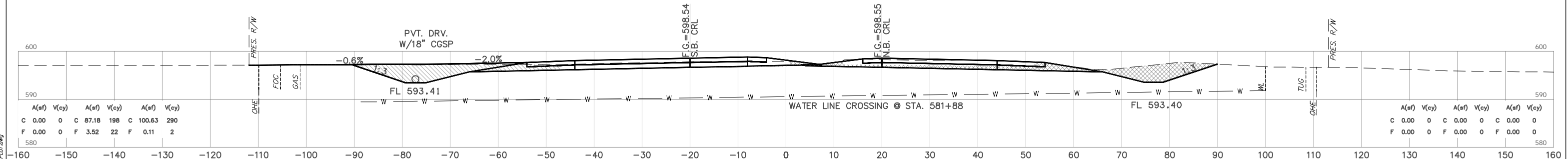
584+00



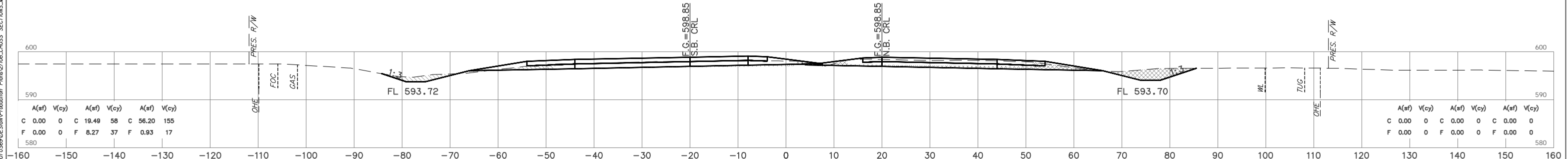
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582+75



582+00



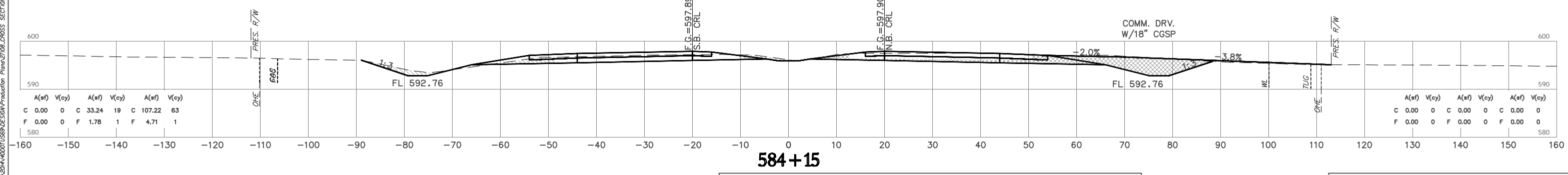
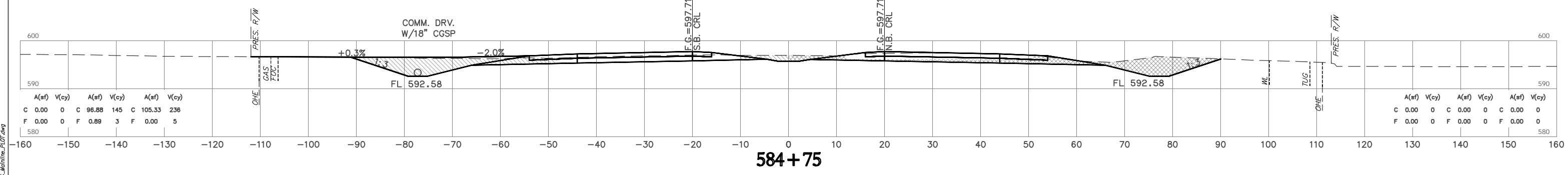
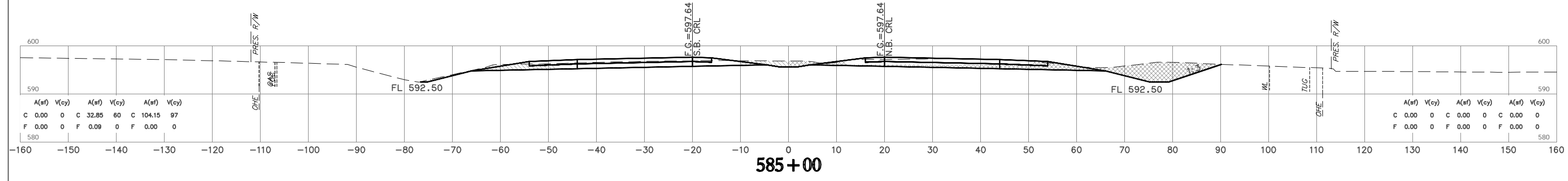
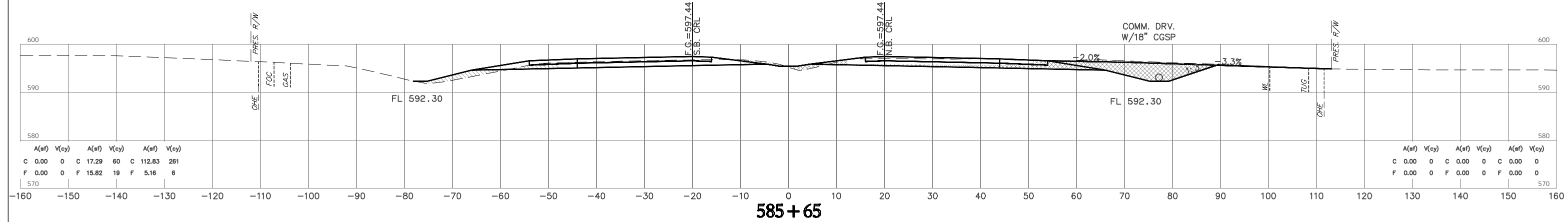
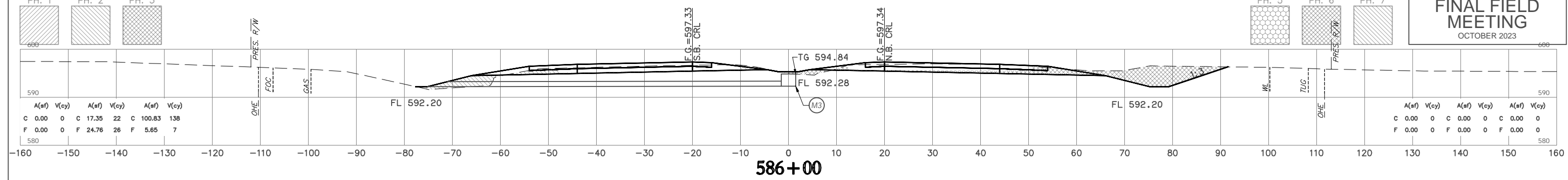
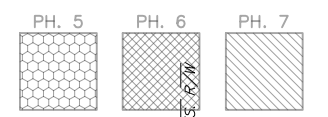
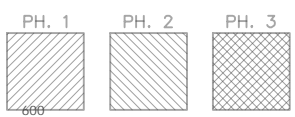
581+00

**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X014

HUB E n g i n e e r s  
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G:\2024\001\059\059\Production Plans\059\059 CROSS SECTIONS\Midline\_Plot.dwg

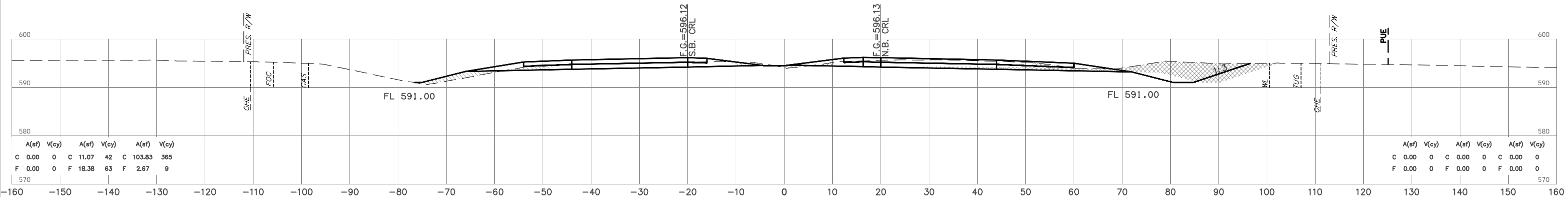
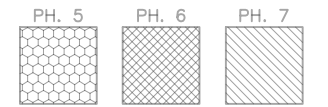
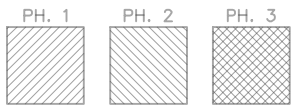


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

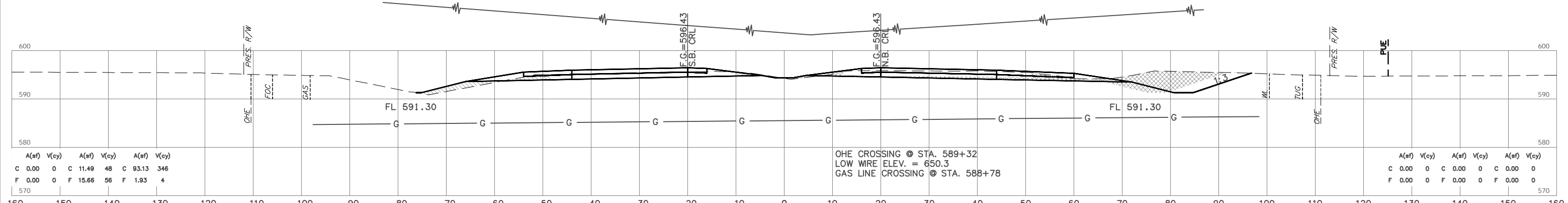
U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X015

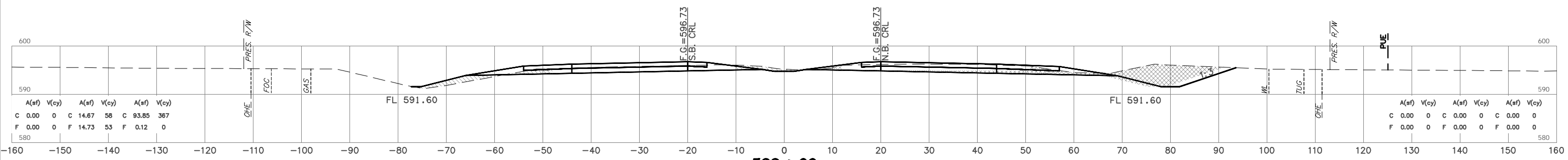
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G:\2024\001\059\059\059\Production Plans\27108.DWG - CROSS SECTIONS\Midline\_Plot.dwg



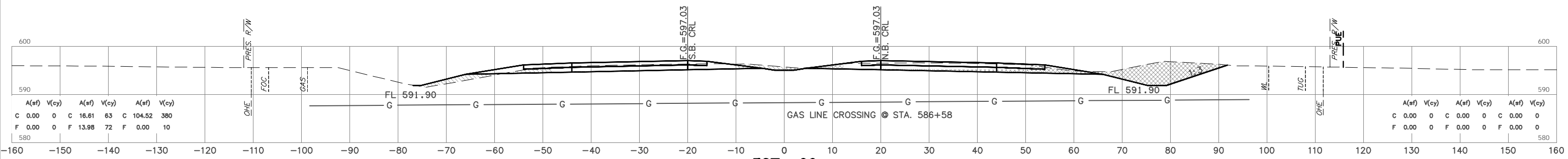
590+00



589+00



588+00



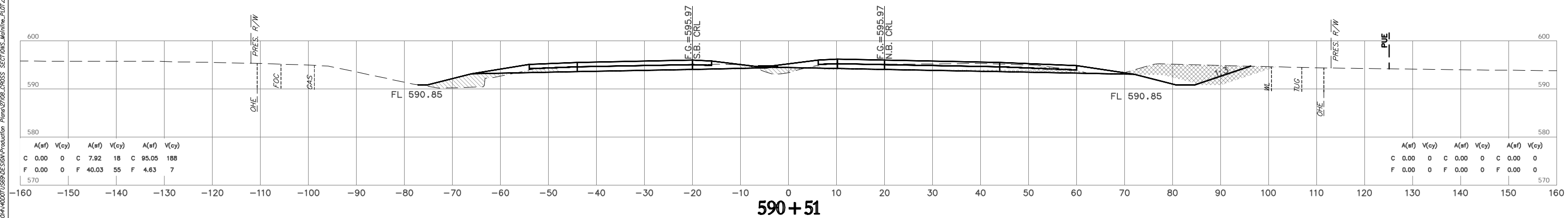
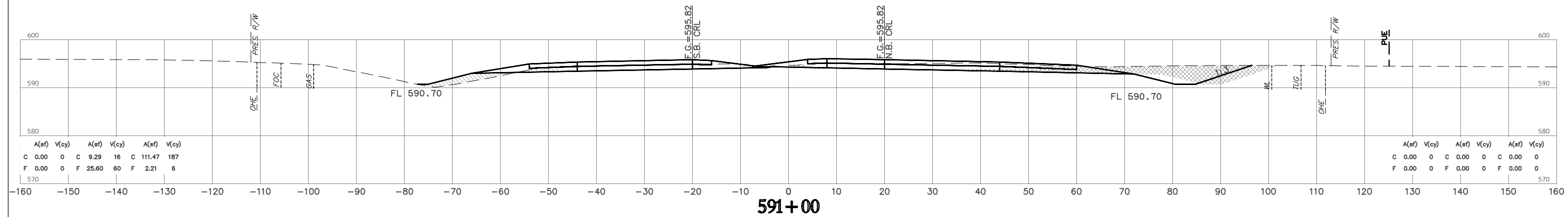
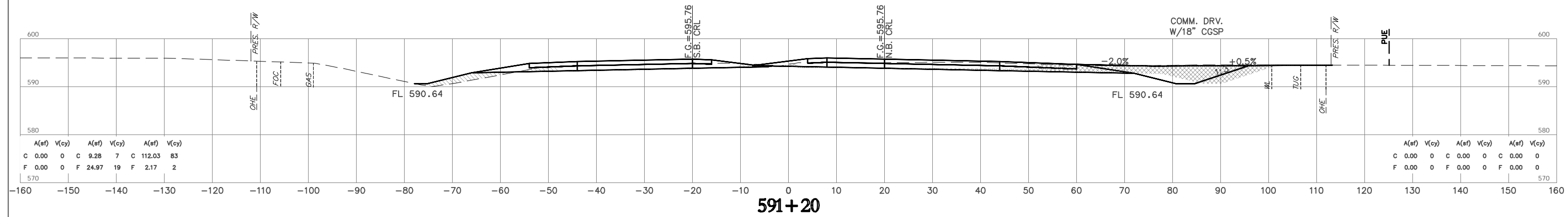
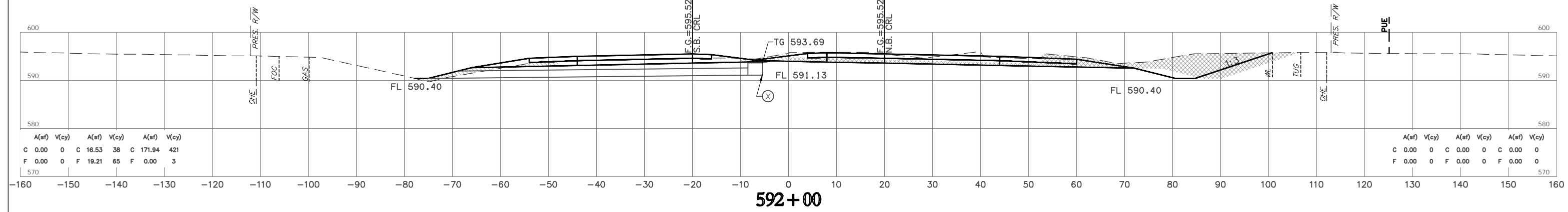
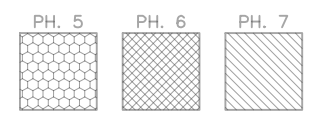
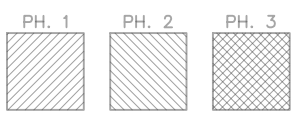
587+00

**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY  
SHEET NO. X016

HUB Engrs & Architects  
1700 E. 17th St., Suite 200  
Tulsa, Oklahoma 74106  
Phone: (918) 438-8800  
Fax: (918) 438-8801  
www.hubengr.com

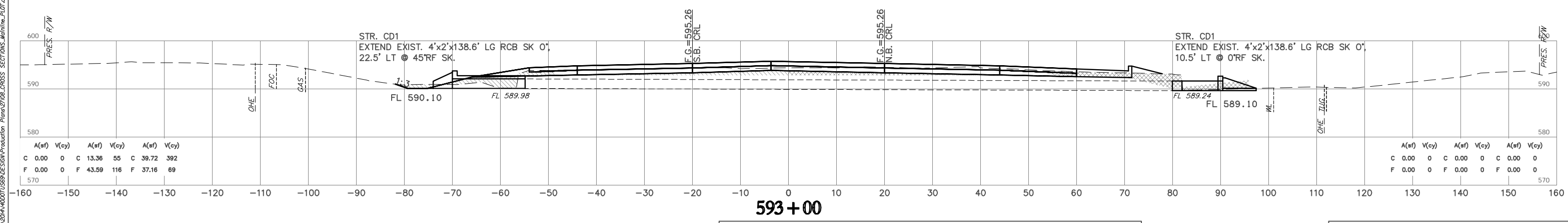
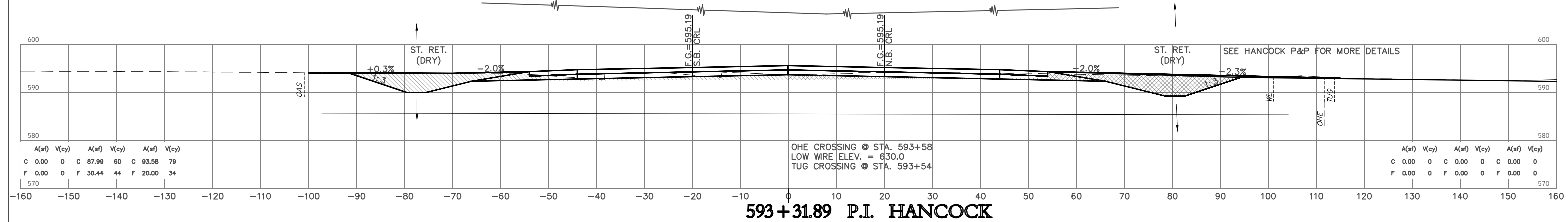
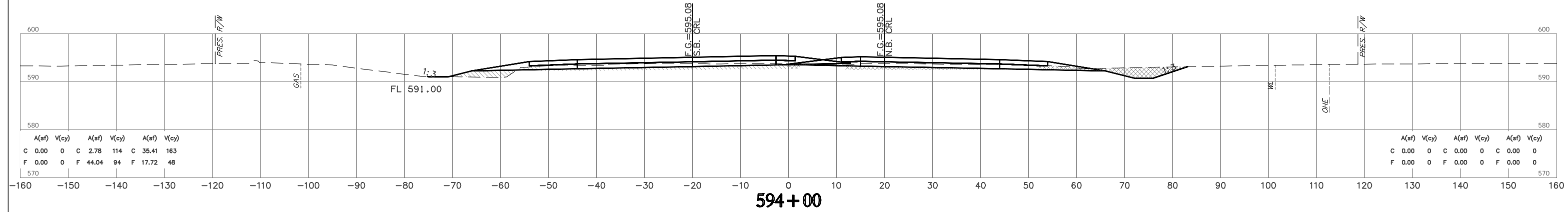
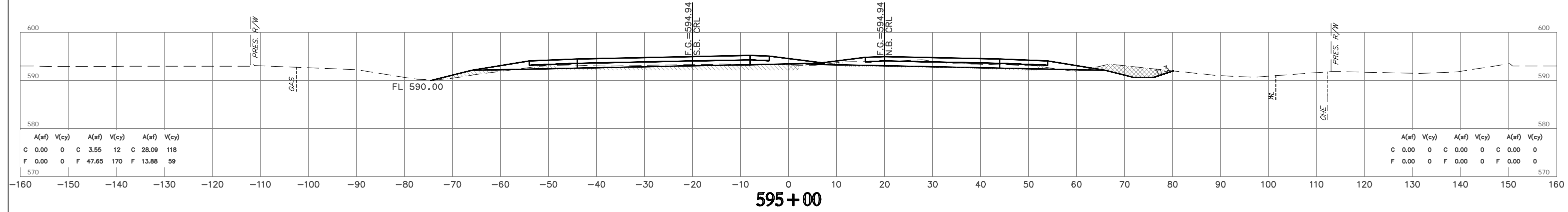
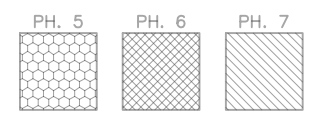
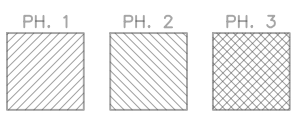


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
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U.S. HWY. 69

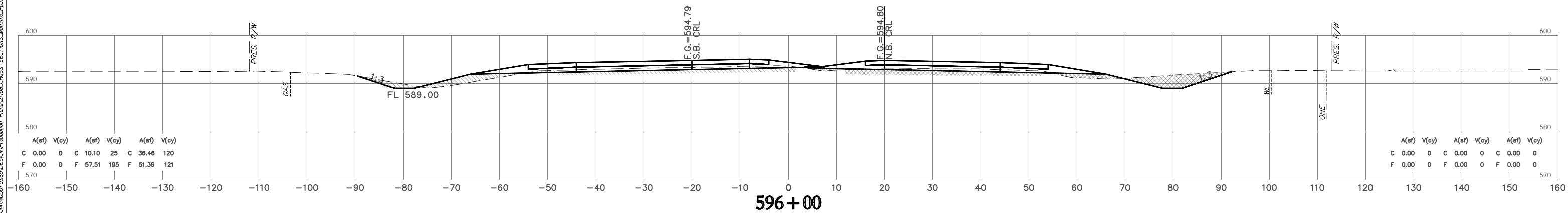
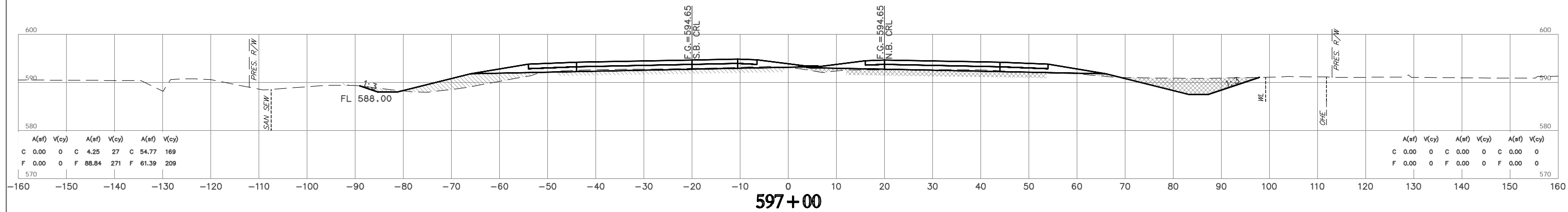
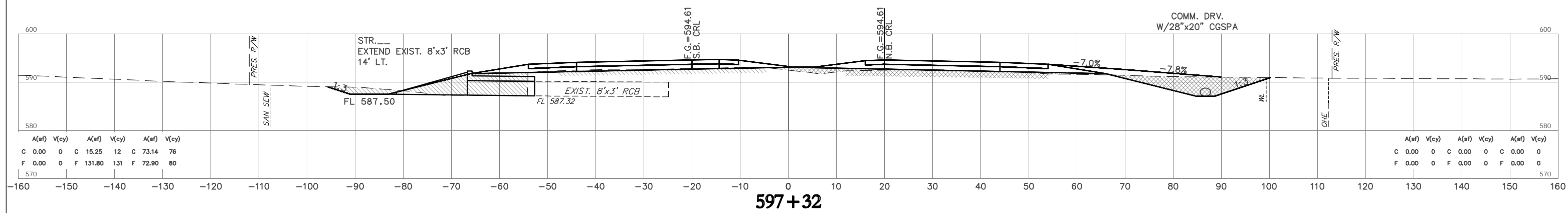
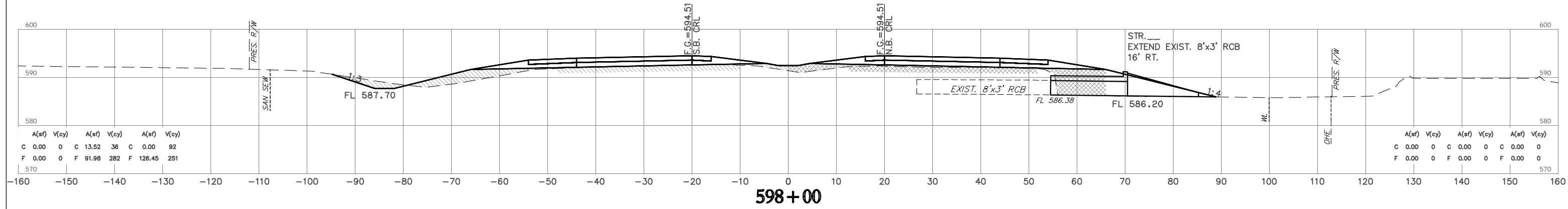
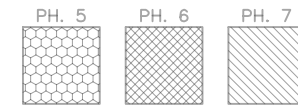
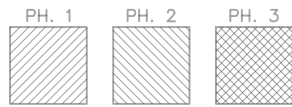
STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X017

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Time of Plot: 11/21/2023 2:36 AM Plot Style: HPB50MLT.B  
G:\2024\027108\04\590+51\Production Plans\27108.DWG SECTIONS\Metric\_Plot.dwg



**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

HUB E n g i n e e r s  
Time of Plot: 11/21/2023 2:36 AM Plot Style: HPB50MLT.B  
G:\2024\001\0593\03\593+31.89\PRODUCTION Plans\27108.DWG SECTIONS\Midline\_Plot.dwg

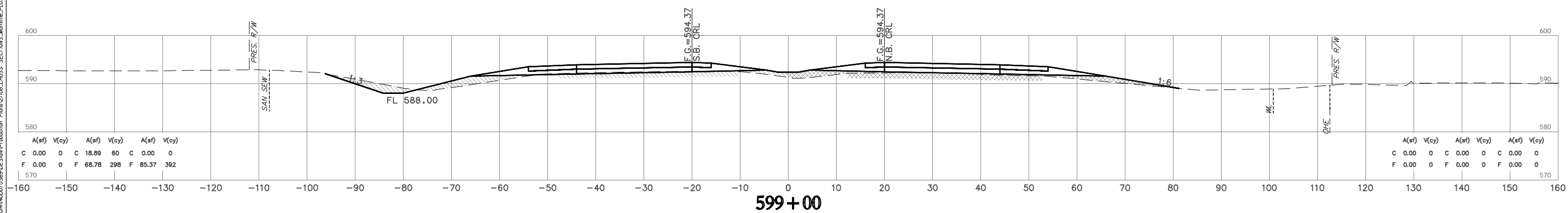
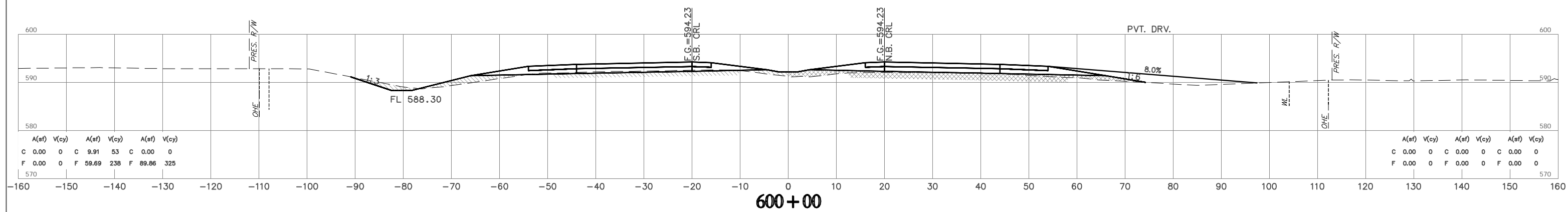
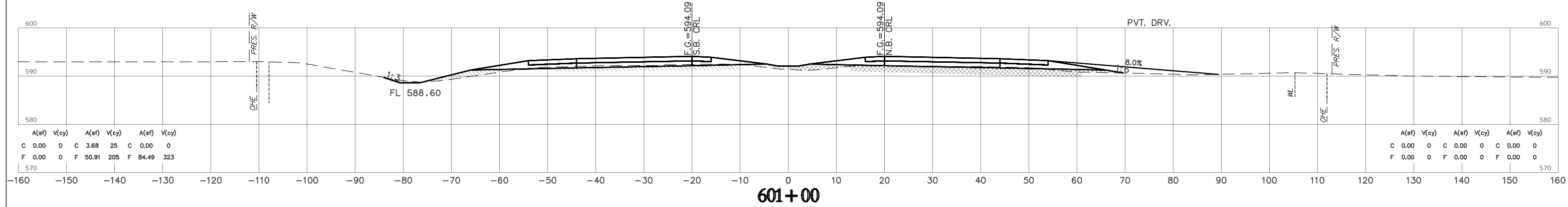
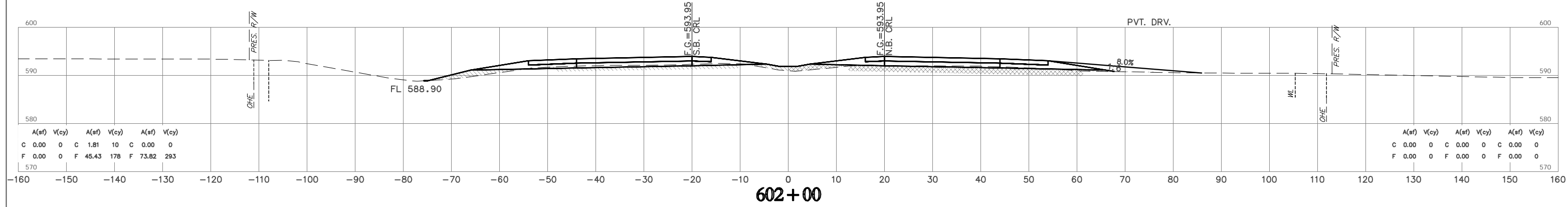
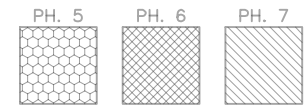
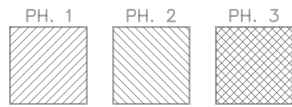


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X019

HUB E n g i n e e r s  
Time of Plot: 11/23/2023 2:37 AM Plot Style: HPB50MLT1B  
G:\2024\007108\01\Production\Plan\27108\_CROSS\_SECTIONS\Metric\_Plot.dwg



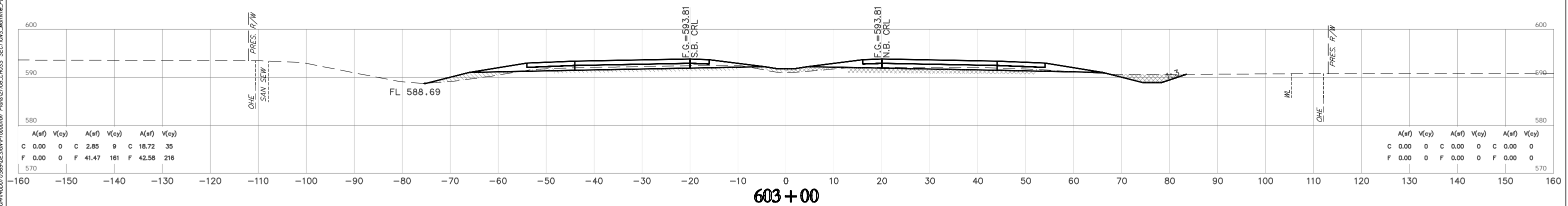
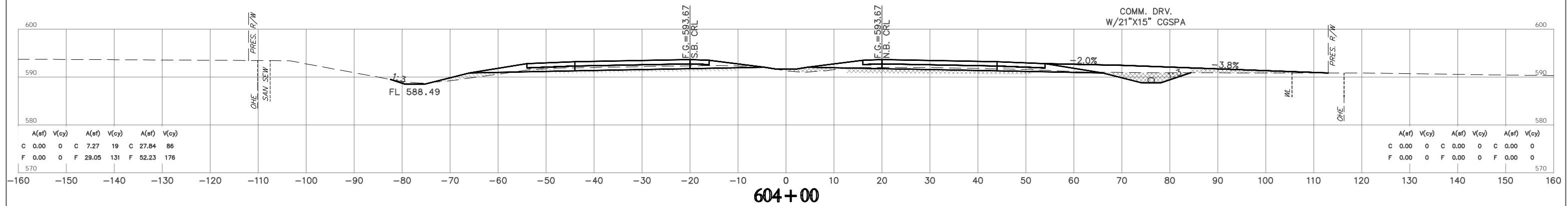
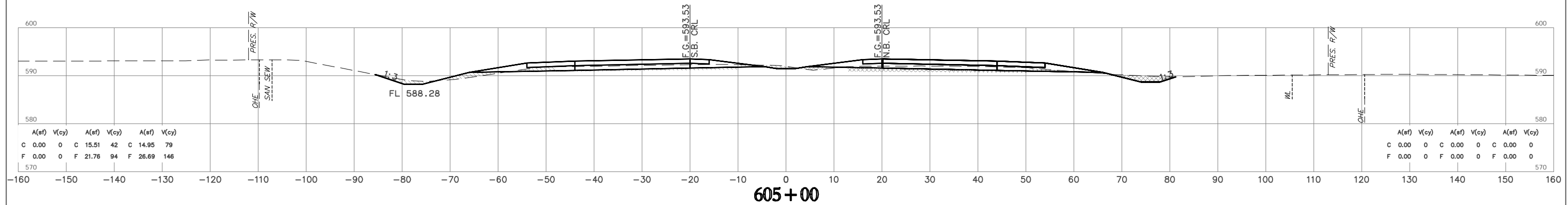
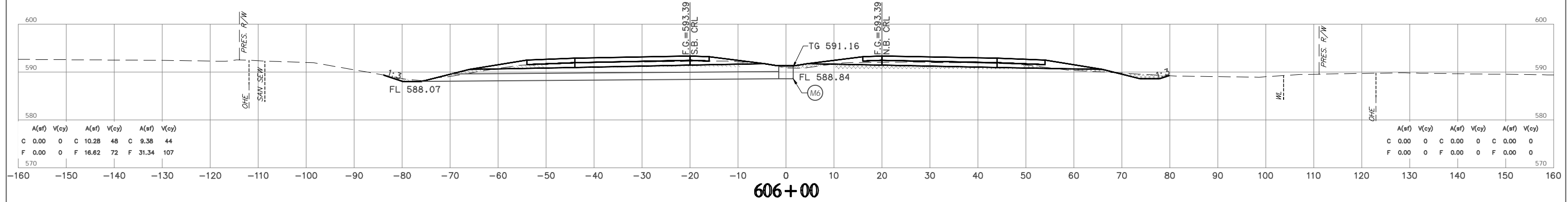
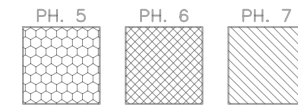
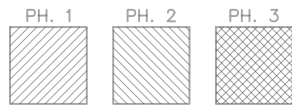
**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X020

H:\B E n g i n e e r s \Time of Plot: 11/21/2023 2:37 AM Plot Style: HPB50MLT1B (G:\CH4\ADDON\USE95\QCS\Production\_Plans\27108.DWG) SECTIONS\Midline\_Plot.dwg





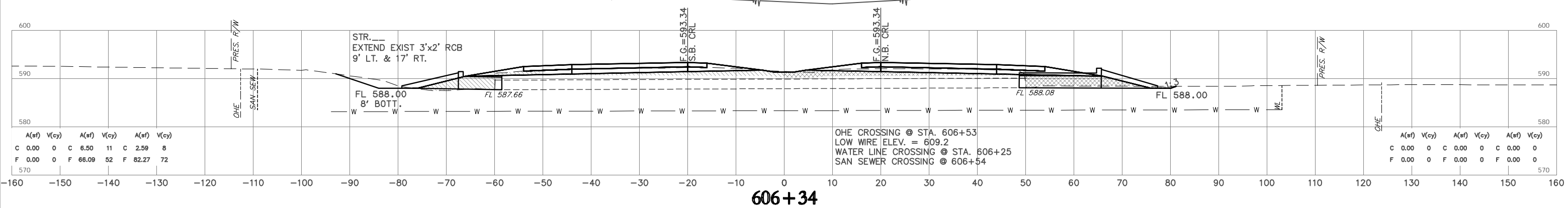
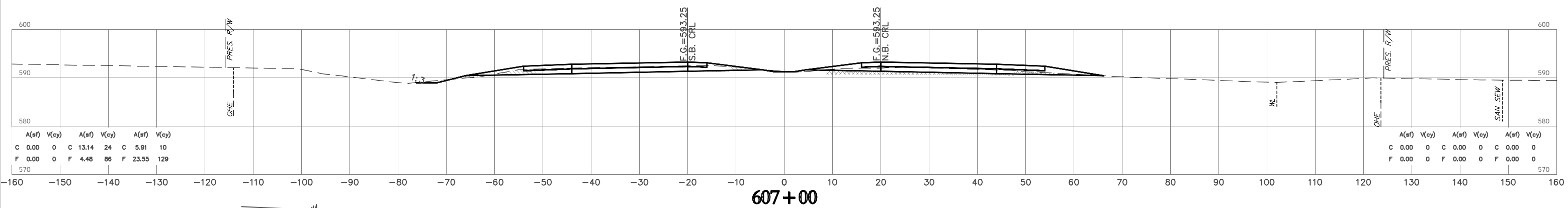
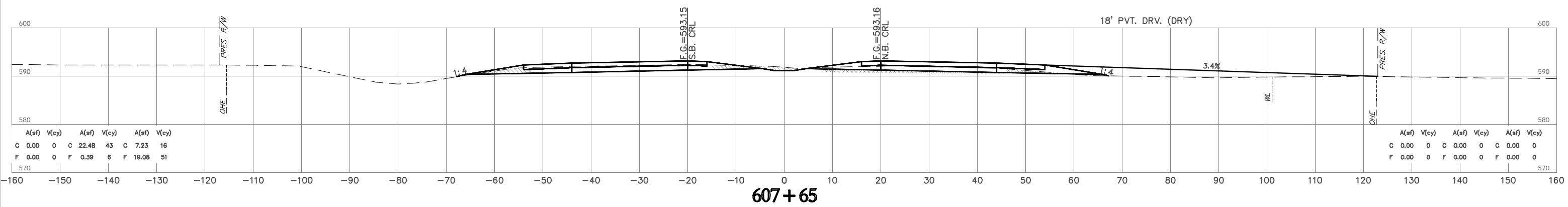
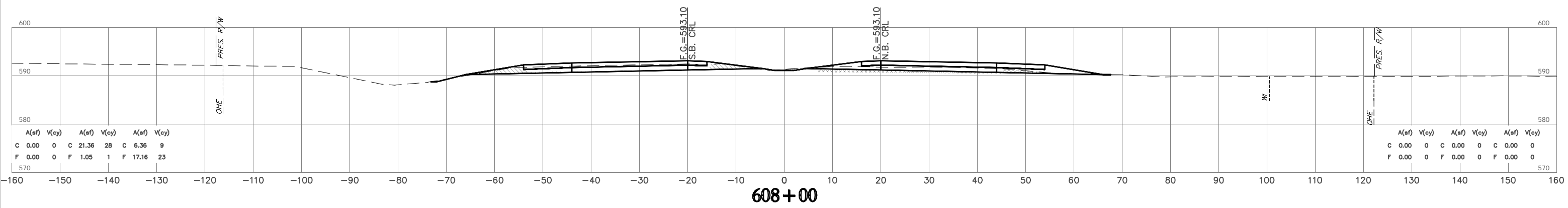
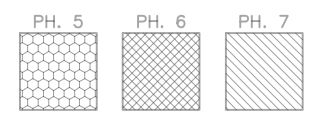
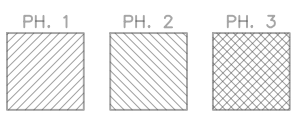
**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY

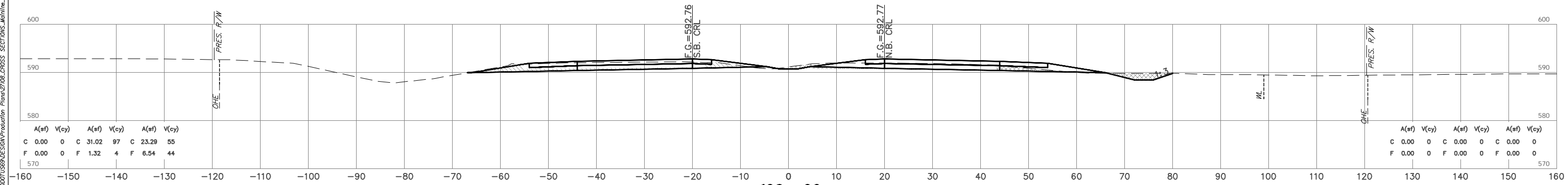
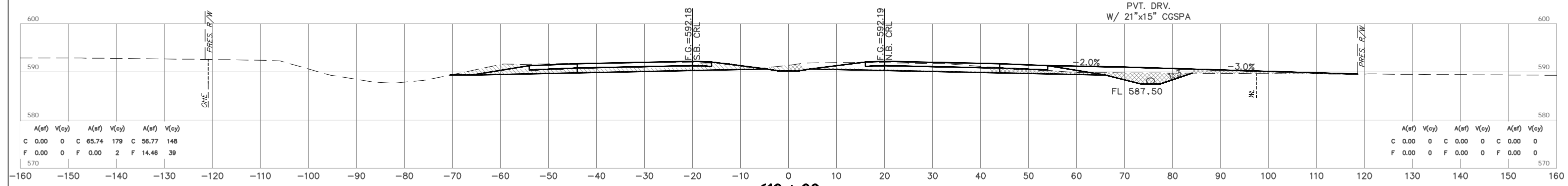
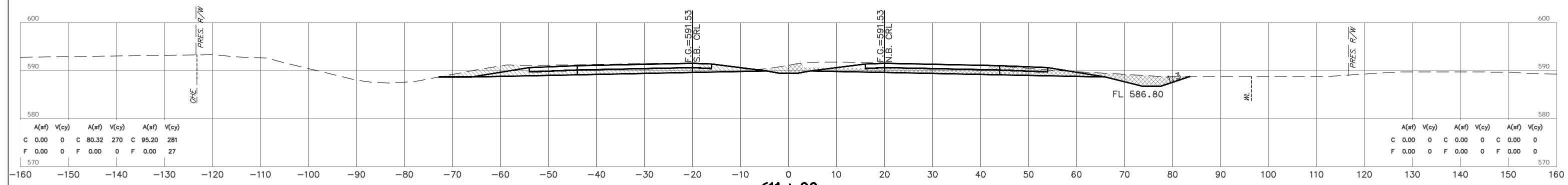
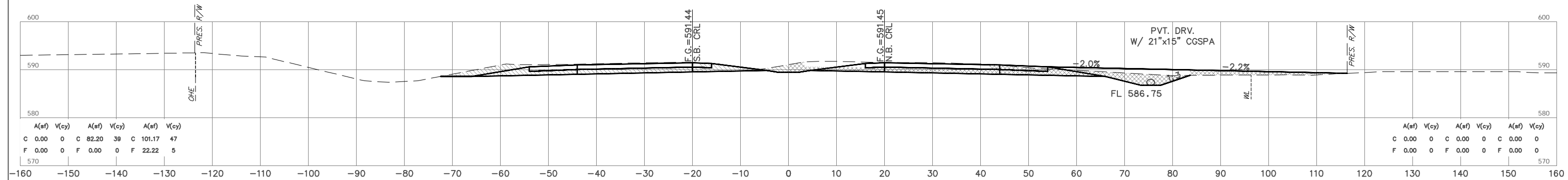
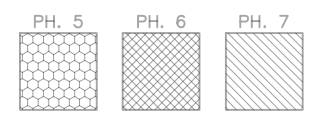
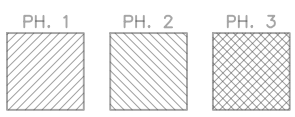
SHEET NO. X021

HUB Engrs & Architects  
11/23/2023 2:37 PM Plot Style: HPB50MLT.B  
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**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

HUB E n g i n e e r s  
11/21/2023 2:36 AM Proj Style: HP150MCTE  
G:\2024\001\059\05\05\Production Plans\02\08.CROSS SECTIONS\Mch19a\_Plot.dwg

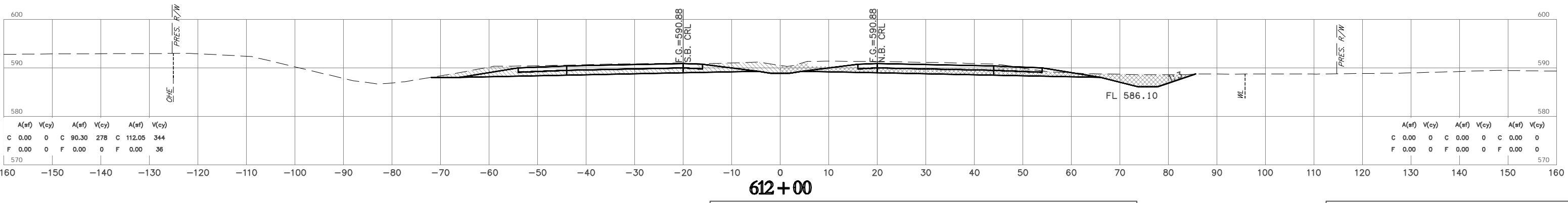
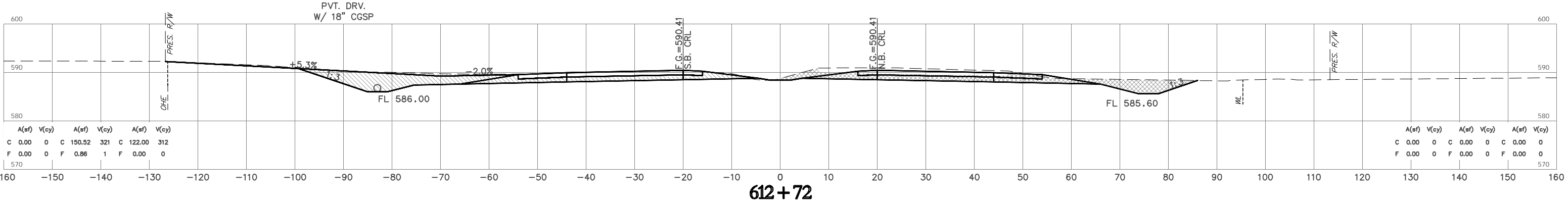
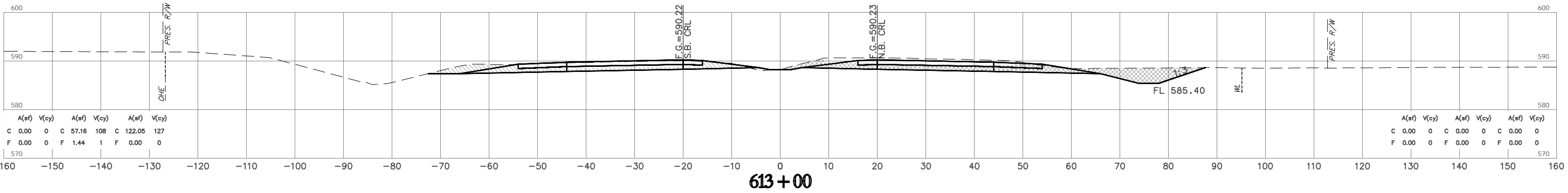
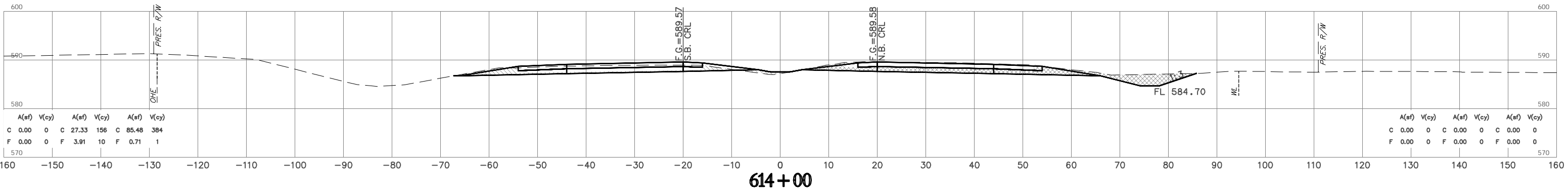
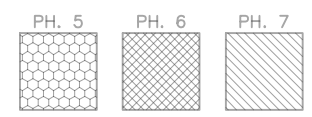
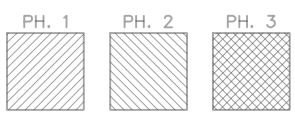


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X023

HUB E n g i n e e r s  
Time of Plot: 11/21/2023 2:36 AM Plot Style: HP6150LCTE  
G:\2024\001\059\059\Production Plans\07108\023\SECTIONS\Mchline\_PLOT.dwg

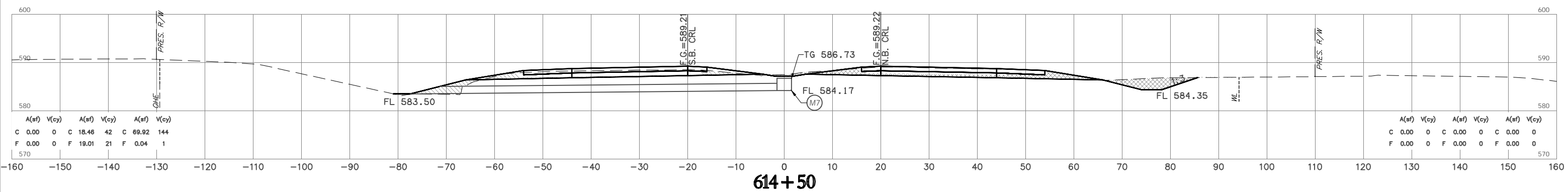
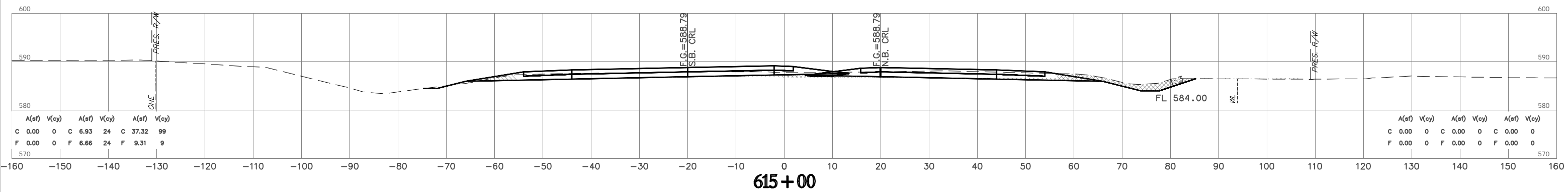
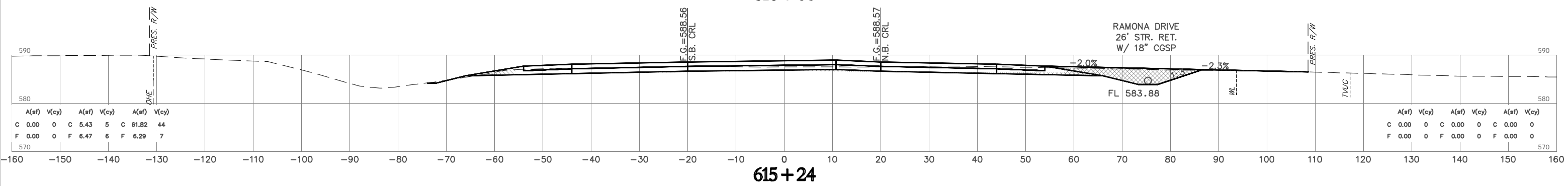
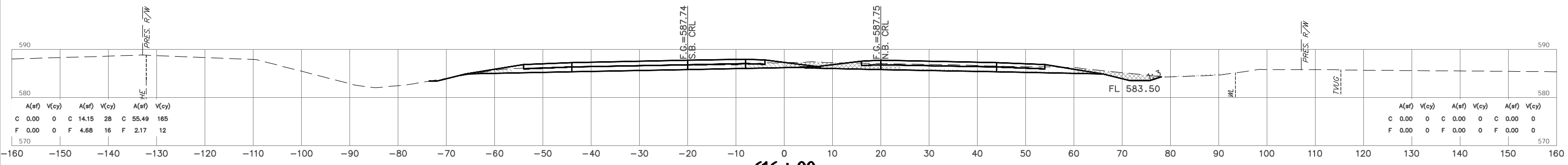
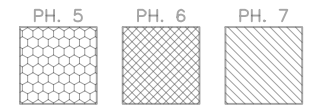
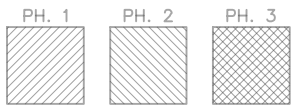


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X024

HUB E n g i n e e r s  
 Title of Plot: 11/21/2023 2:39 AM Plot Style: HPR550LFTB  
 G:\2024\001\059\059\059\Production Plans\27108.X024.X024 SECTIONS\Mchline\_PLOT.dwg

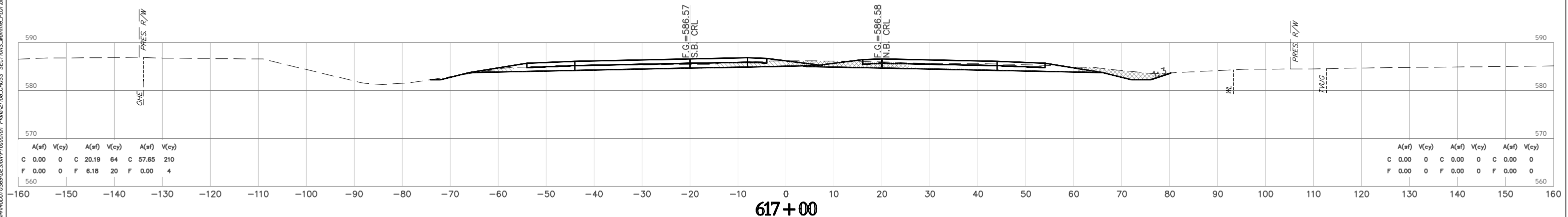
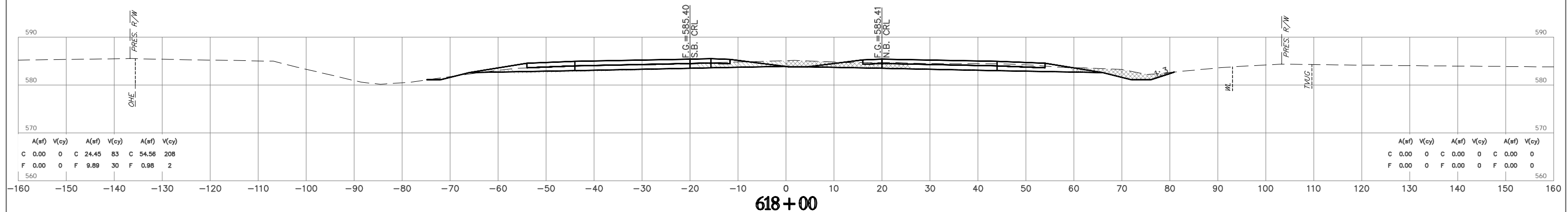
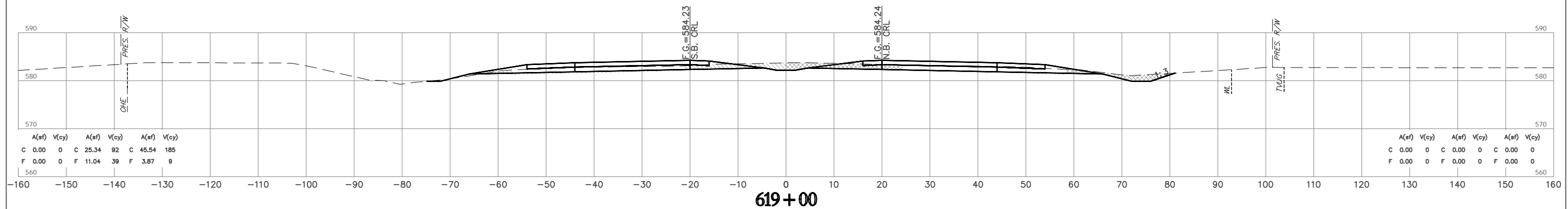
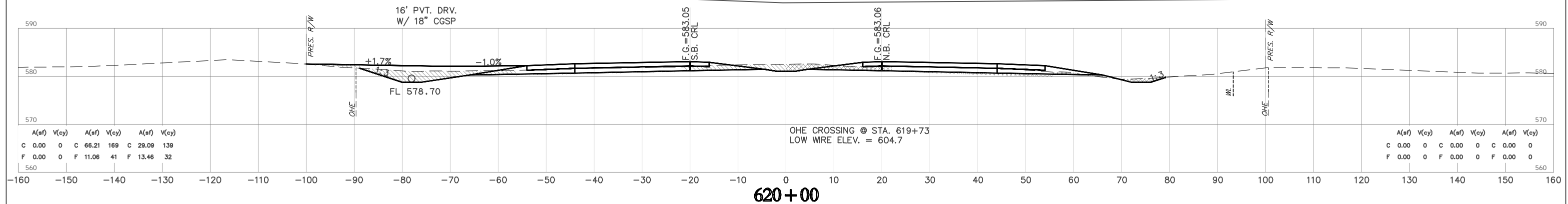
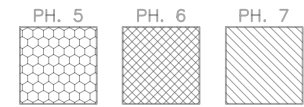
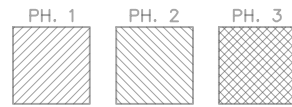


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X025

HUB E n g i n e e r s  
 Time of Plot: 11/23/2023 2:39 AM Plot Style: HPR650LDTB  
 (S:\2024\02\03\05\0503051\roadway\Plan\614050.DWG) SECTIONS.Metric\_PLOT.dwg



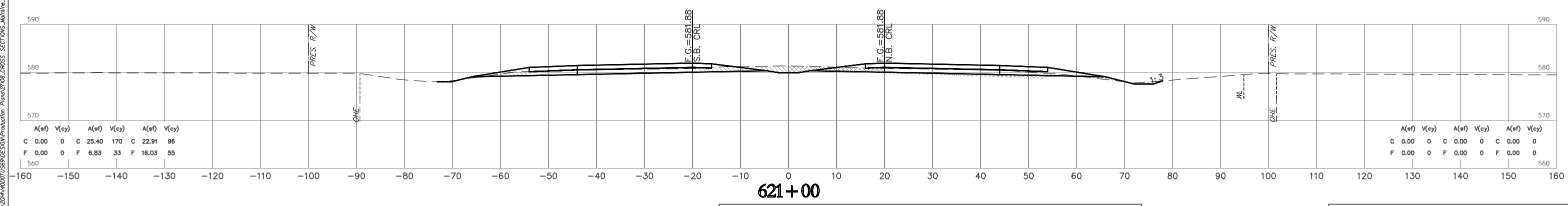
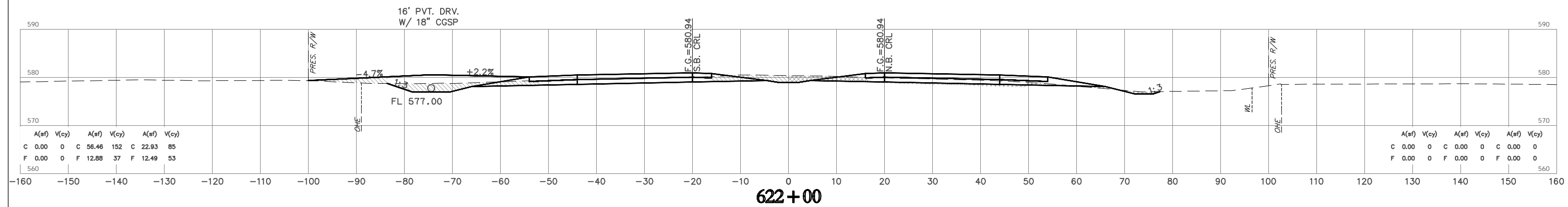
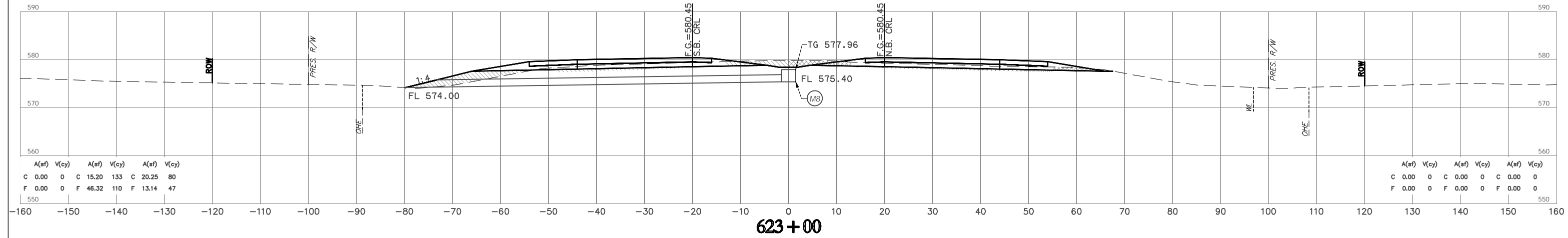
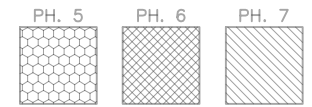
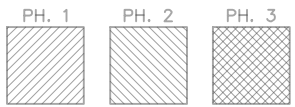
NOTE: LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY

SHEET NO. X026

H:\B\_E\_n\_g\_l\_n\_e\_s\11/21/2023 2:39 AM Plot Style: HPR150MLT1E  
Time of Plot: 11/21/2023 2:39 AM  
G:\2024\001\059\059\059\Production Plans\27108.DWG CROSS SECTIONS\MchLine\_PLOT.dwg



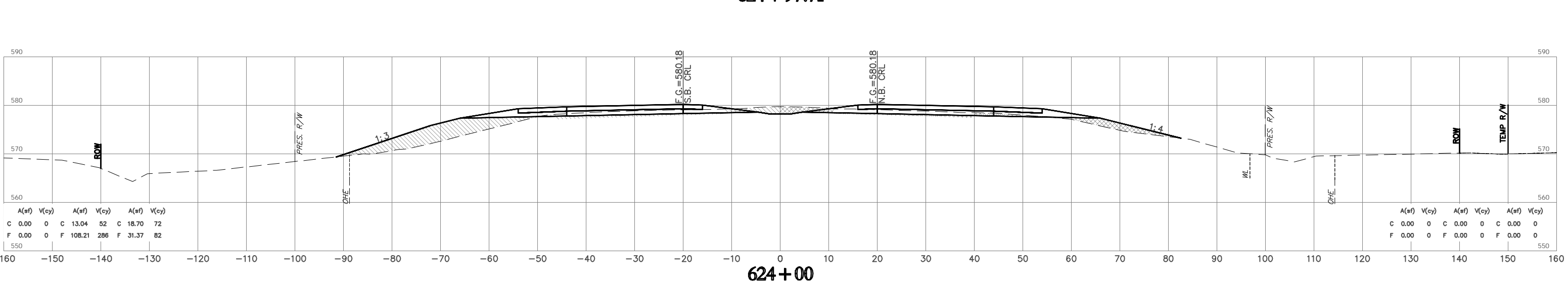
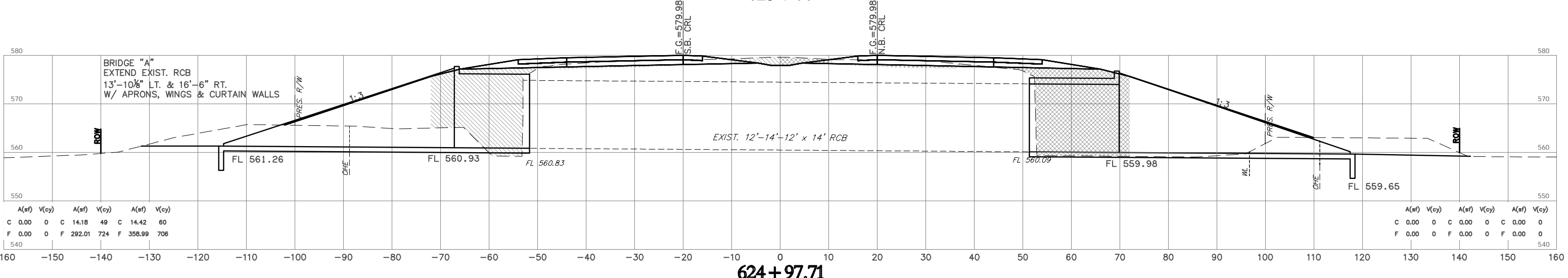
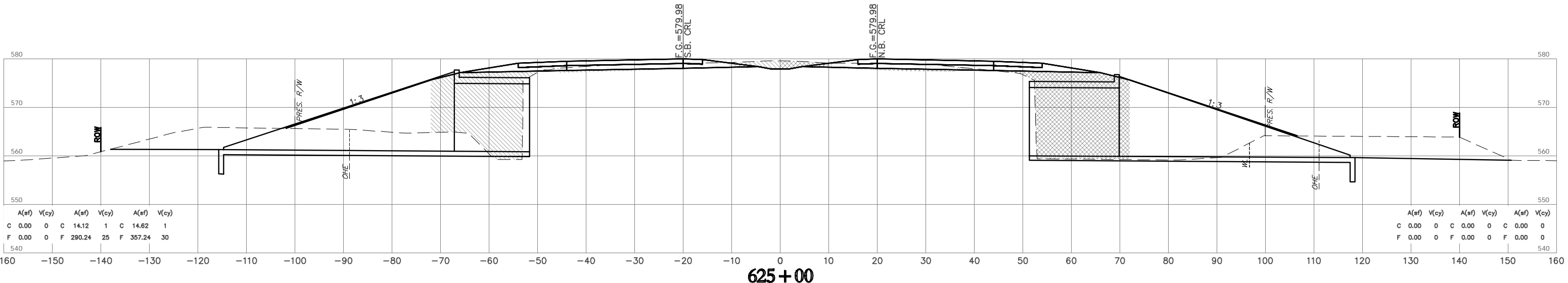
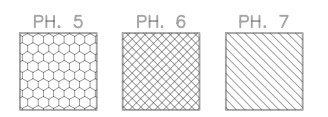
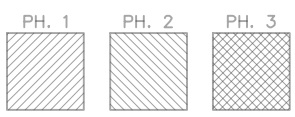
**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X027

H:\B\_E\_n\_g\_i\_n\_e\_e\_r\_s\Time of Plot: 11/21/2023 2:40 AM Plot Style: HP90150LFB (S:\2014\001\059\059\Production Plans\01\06.CROSS SECTIONS\Mchline\_PLOT.dwg)





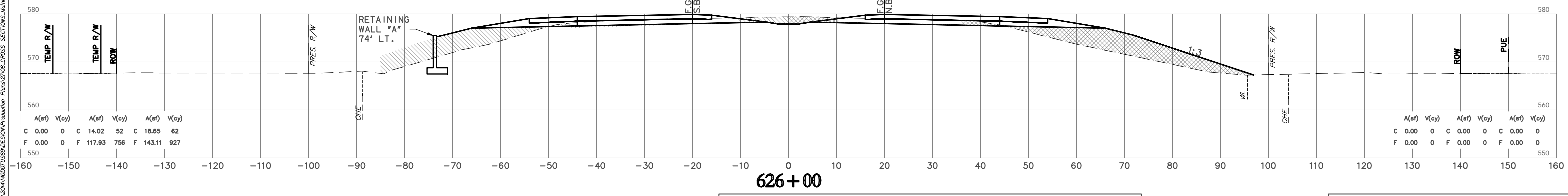
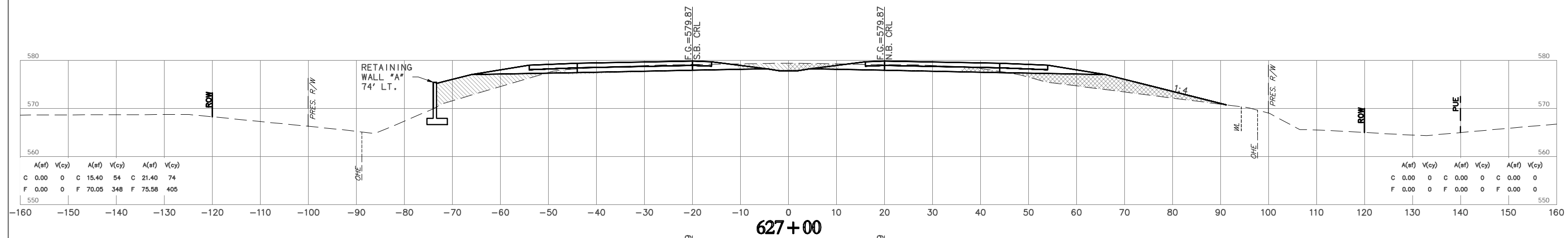
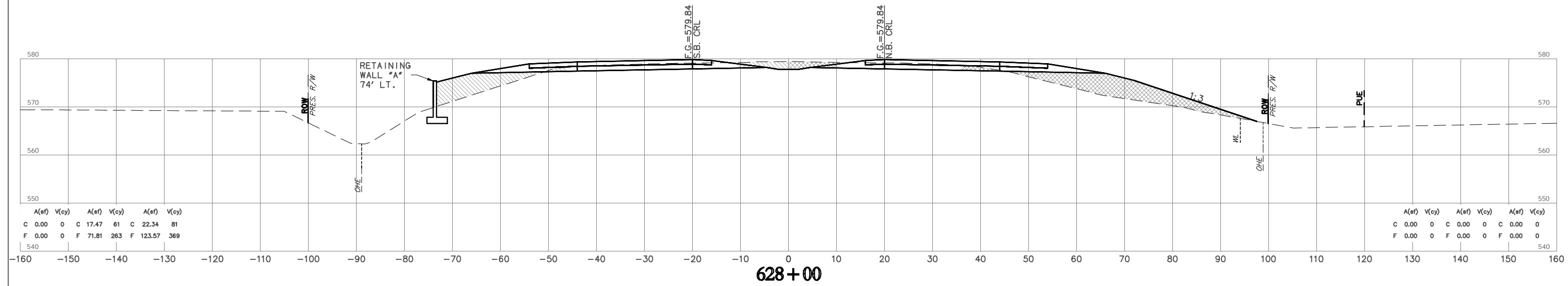
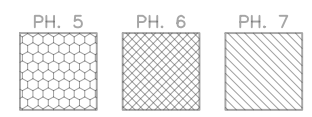
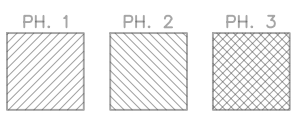
**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X028

HUB E n g i n e e r s  
 Time of Plot: 11/21/2023 2:40 AM Plot Style: HP1650MLT16  
 G:\2024\00105959\Production\Plans\02106\_CROSS\_SECTIONS\Mchline\_PLOT.dwg



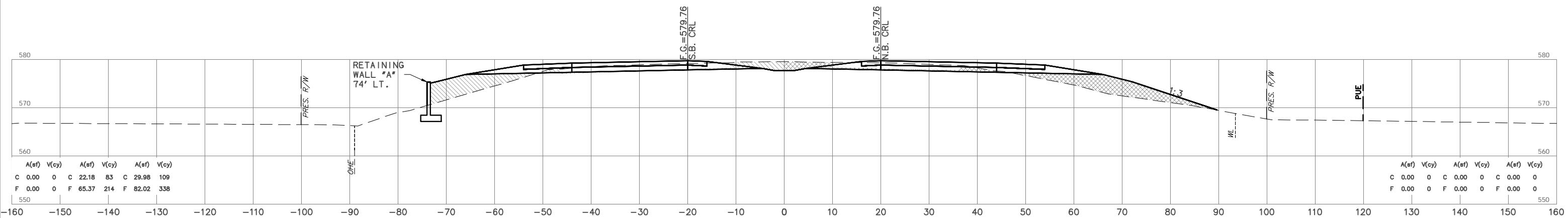
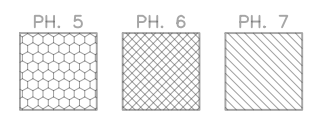
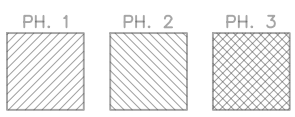


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

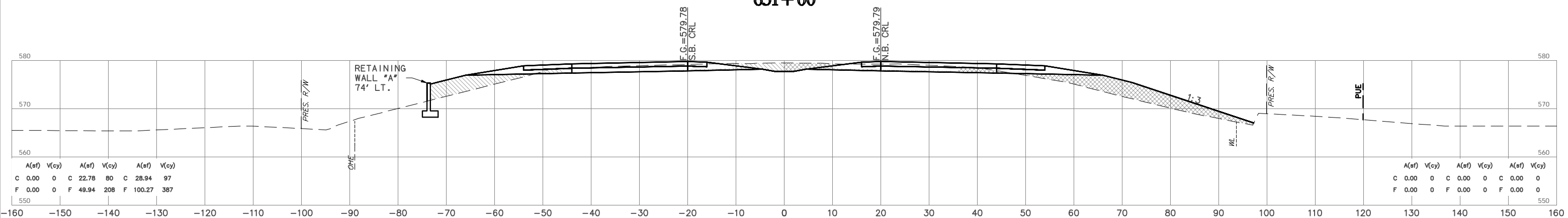
U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X029

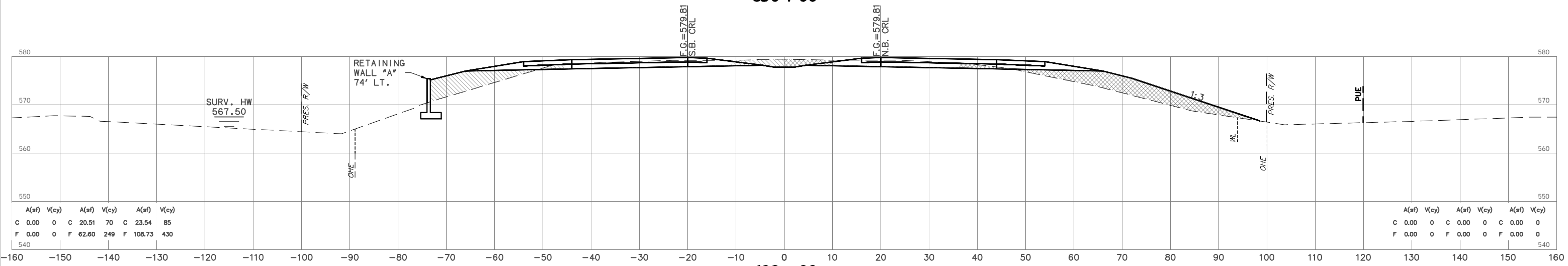
HUB E n g i n e e r s  
Time of Plot: 11/21/2023 2:40 AM Plot Style: HP1650MLT16  
G:\2024\007108\02\108\108\_CROSS\_SECTIONS\Midline\_PLOT.dwg



**631+00**



**630+00**



**629+00**

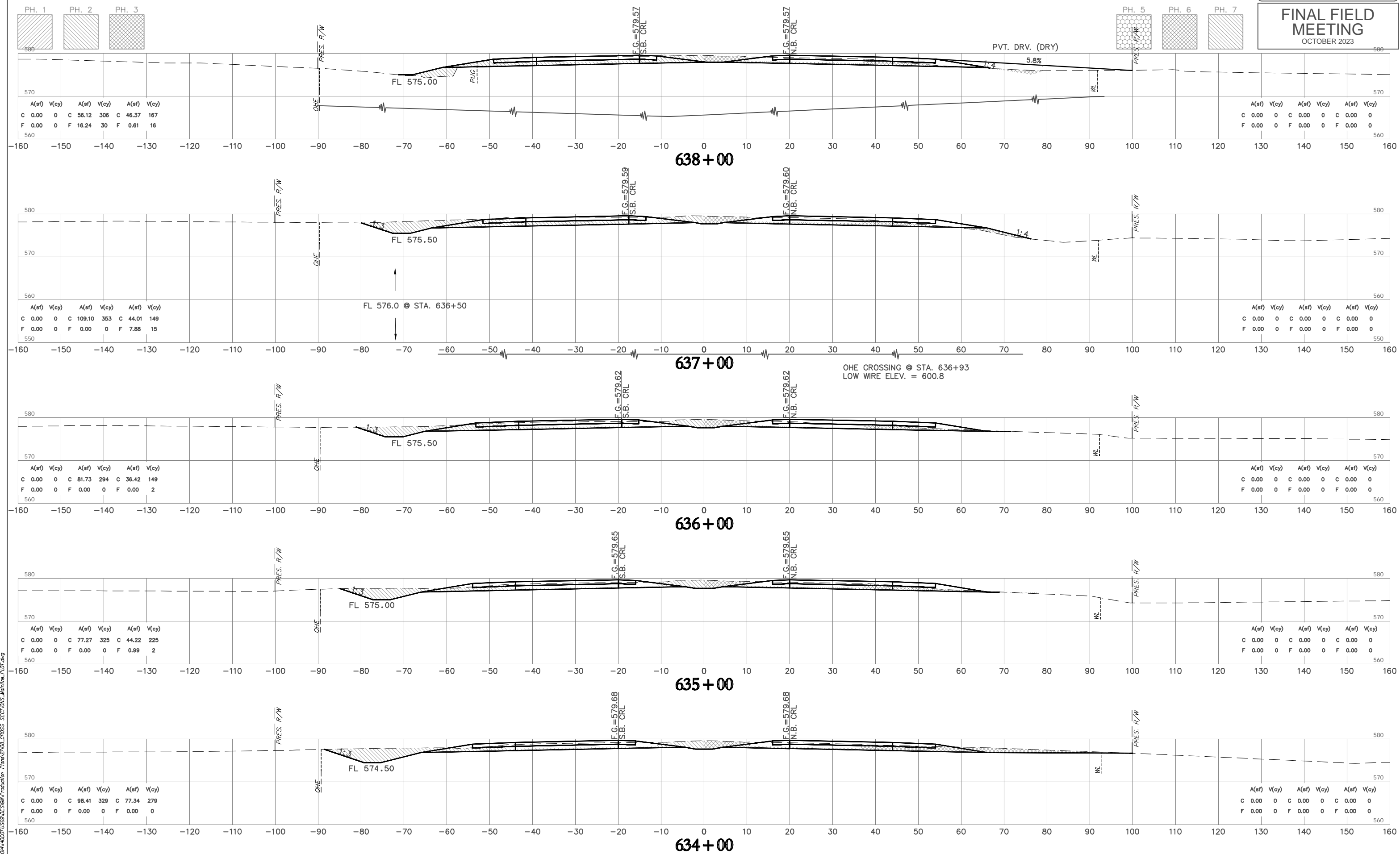
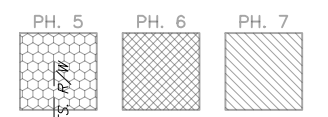
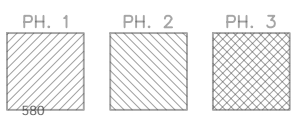
**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X030

HUB E n g i n e e r s  
Time of Plot: 11/23/2023 2:40 AM Plot Style: HPR150MLT.B  
G:\2024\0071059\059\059\Production Plans\27108\CRSS - SECTIONS\Midline\_Plot.dwg





A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
C 0.00	0	C 56.12	308	C 46.37	167
F 0.00	0	F 16.24	30	F 0.61	16

A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
C 0.00	0	C 0.00	0	C 0.00	0
F 0.00	0	F 0.00	0	F 0.00	0

A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
C 0.00	0	C 109.10	353	C 44.01	149
F 0.00	0	F 0.00	0	F 7.88	15

A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
C 0.00	0	C 0.00	0	C 0.00	0
F 0.00	0	F 0.00	0	F 0.00	0

A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
C 0.00	0	C 81.73	294	C 36.42	149
F 0.00	0	F 0.00	0	F 0.00	2

A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
C 0.00	0	C 0.00	0	C 0.00	0
F 0.00	0	F 0.00	0	F 0.00	0

A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
C 0.00	0	C 77.27	325	C 44.22	225
F 0.00	0	F 0.00	0	F 0.99	2

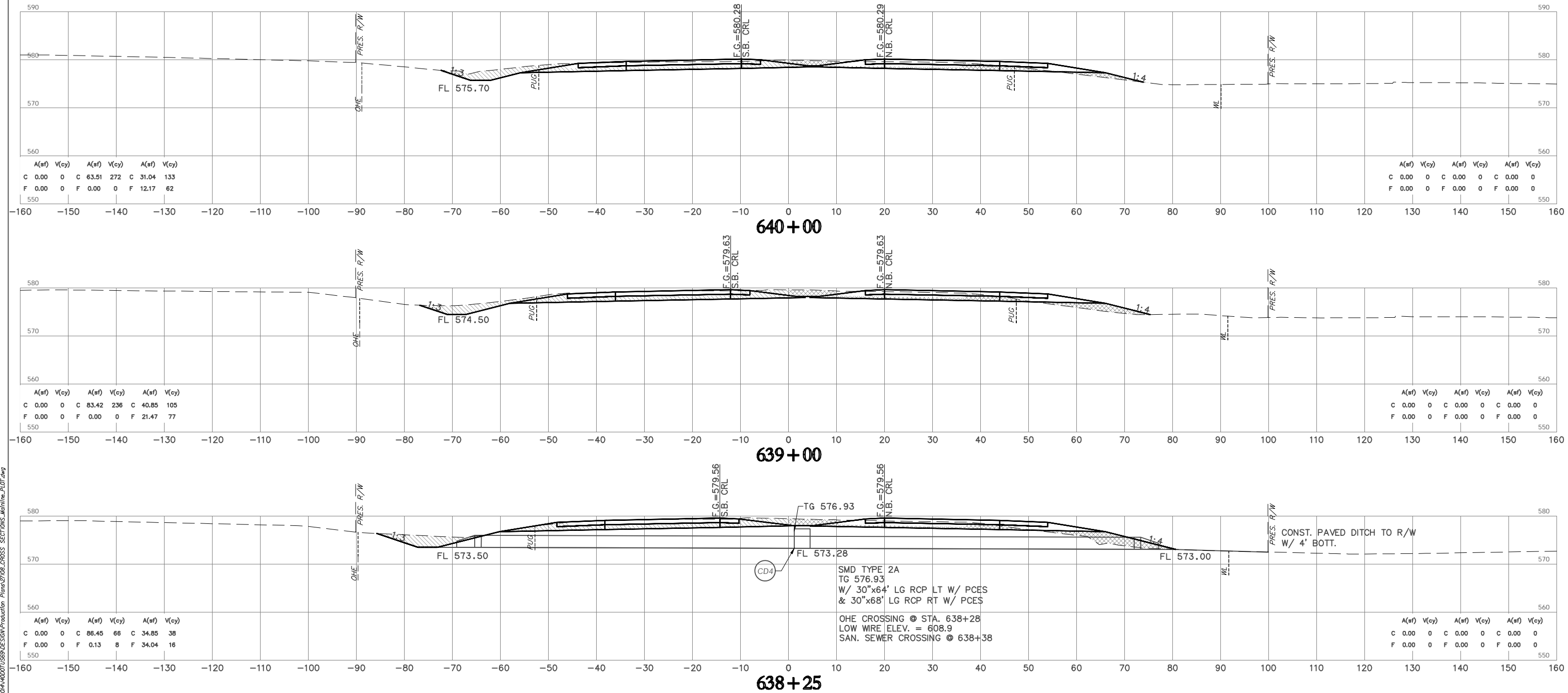
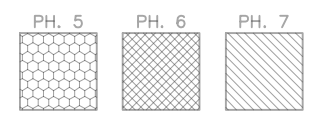
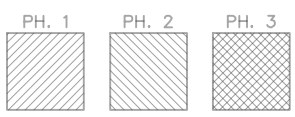
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
C 0.00	0	C 0.00	0	C 0.00	0
F 0.00	0	F 0.00	0	F 0.00	0

A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
C 0.00	0	C 98.41	329	C 77.34	279
F 0.00	0	F 0.00	0	F 0.00	0

A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
C 0.00	0	C 0.00	0	C 0.00	0
F 0.00	0	F 0.00	0	F 0.00	0

**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

HUB E n g i n e e r s  
Time of Plot: 11/21/2023 2:41 AM Plot Style: HP050MCTB  
G:\2024\001\059\059\059\Production Plans\02\06\_CROSS SECTIONS\Midline\_Plot.dwg

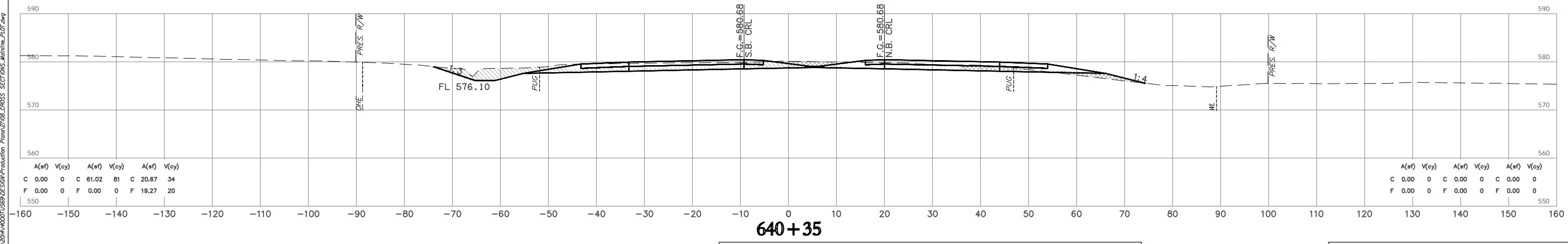
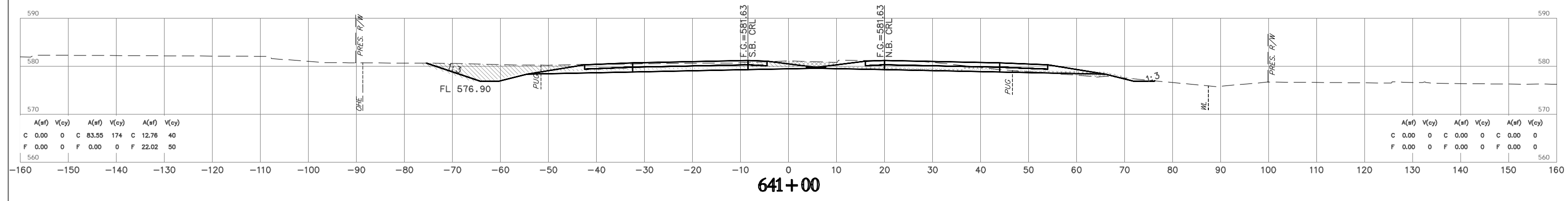
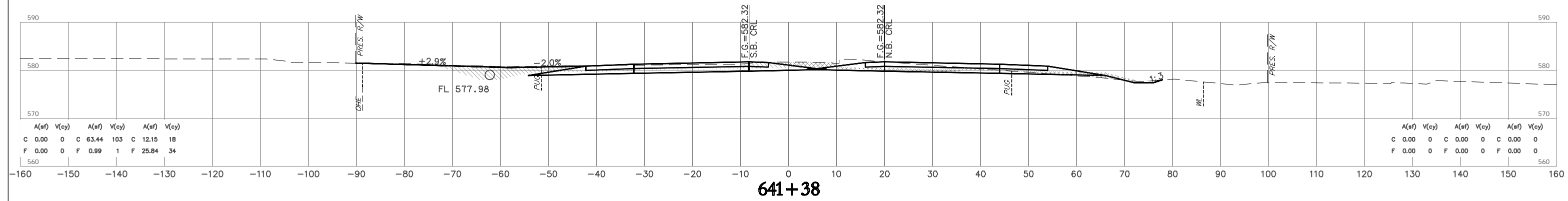
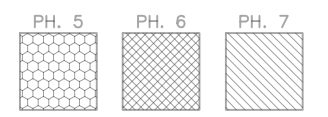
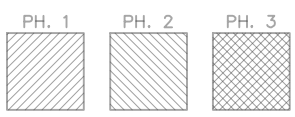


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X033

HUB E n g i n e e r s  
Time of Plot: 11/21/2023 2:41 AM Plot Style: HP9050A21TB  
G:\2024\001\059\059\Production Plans\07108\_CROSS\_SECTIONS\Mchline\_PLOT.dwg

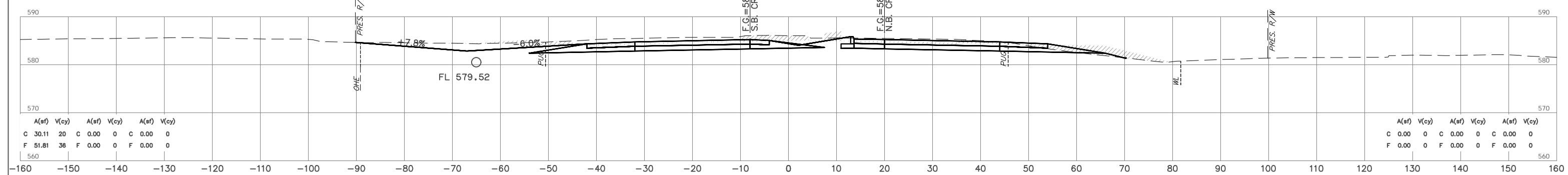
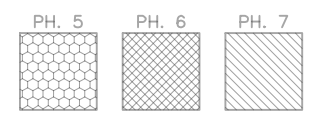
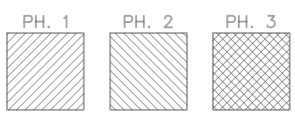


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

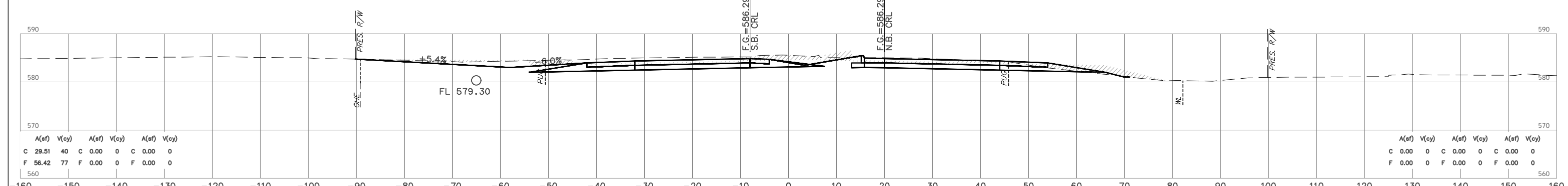
U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X034

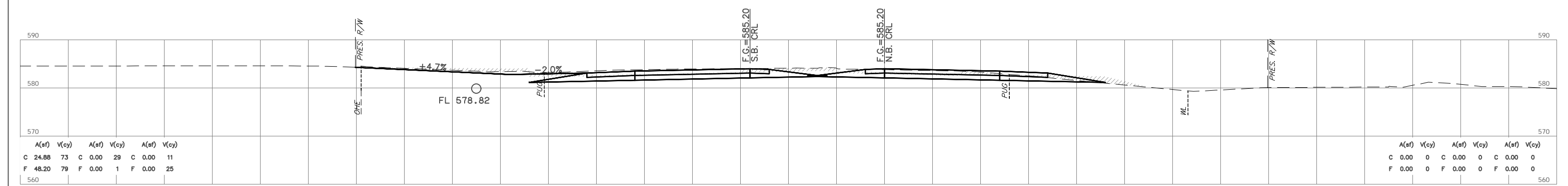
HUB E n g i n e e r s  
 Time of Plot: 11/21/2023 2:42 AM Plot Style: HPB150L17E  
 G:\2024\0071059\059\059\Production Plans\071059.DWG SECTIONS\Midline\_Plot.dwg



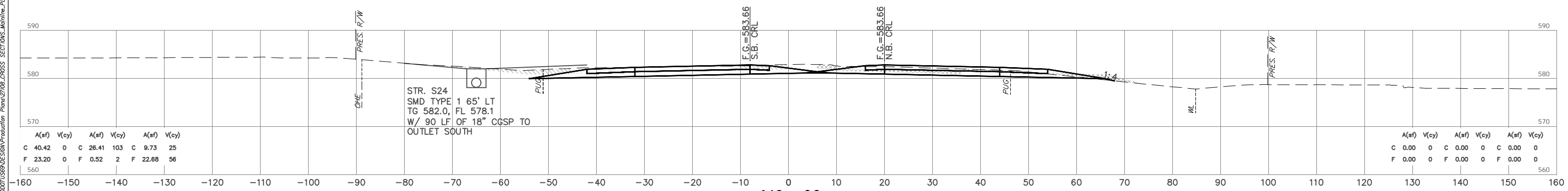
643+18



643+00



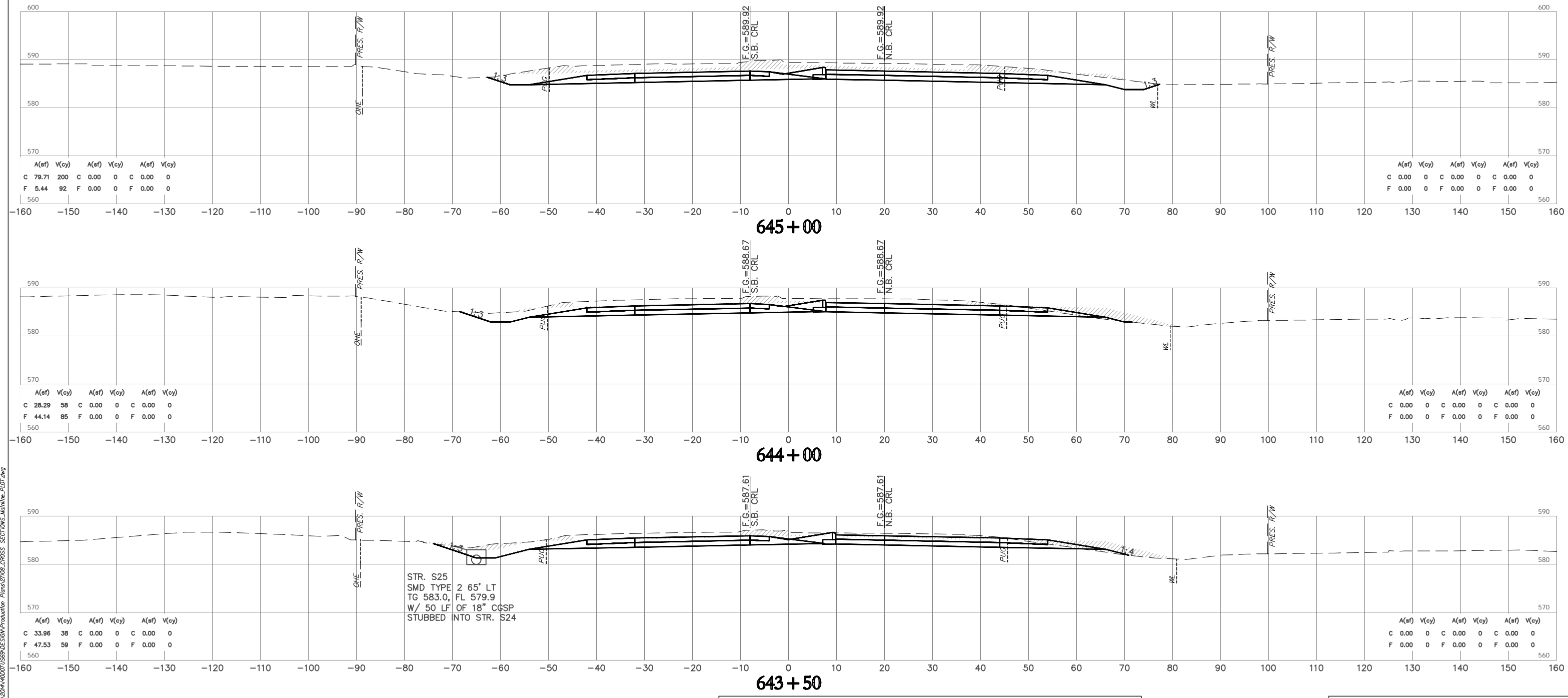
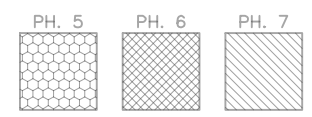
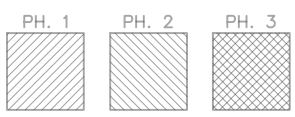
642+60



642+00

**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

HUB E n g i n e e r s  
11/21/2023 2:42 AM Proj Style: HPB50MUTB  
G:\2024\001\059\059\Production Plans\27108\X035 SECTIONS\Midline\_PLOT.dwg



STR. S25  
SMD TYPE 2 65' LT  
TG 583.0, FL 579.9  
W/ 50 LF OF 18" CGSP  
STUBBED INTO STR. S24

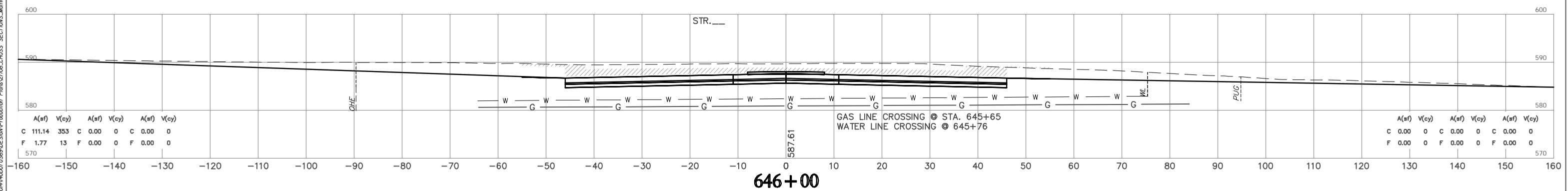
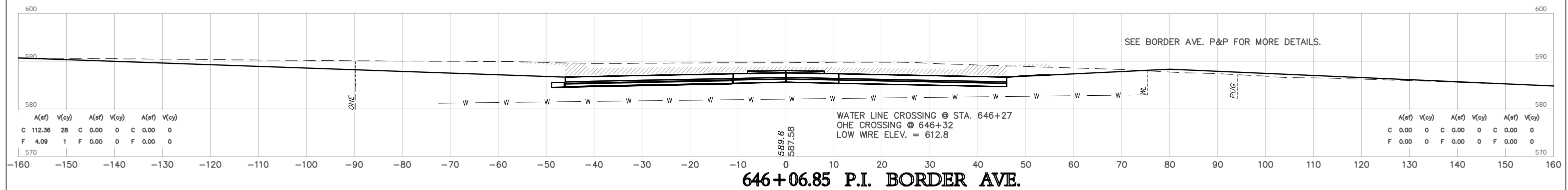
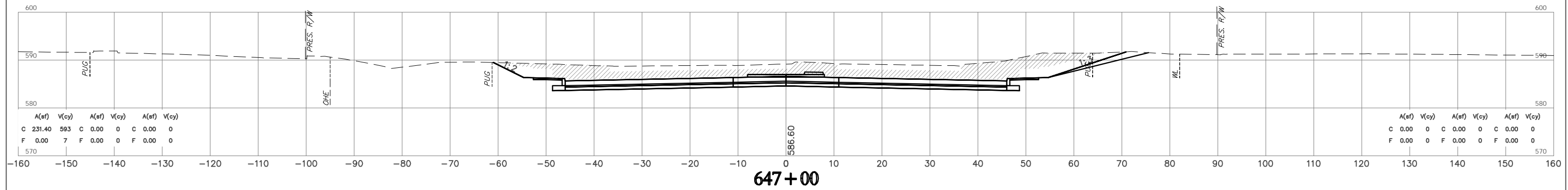
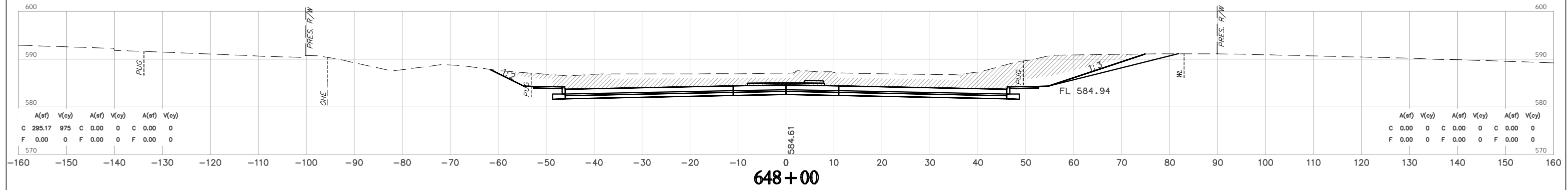
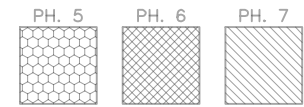
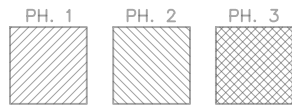
**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X036

H:\B\_E\_n\_g\_i\_n\_e\_e\_r\_s\Time of Plot: 11/21/2023 2:42 AM Plot Style: HPB150MLT.B Plot Path: C:\Users\jgibson\OneDrive\Documents\27108(04)\Production\Plan\27108(04).CPSS SECTIONS\Metric\_Plot.dwg



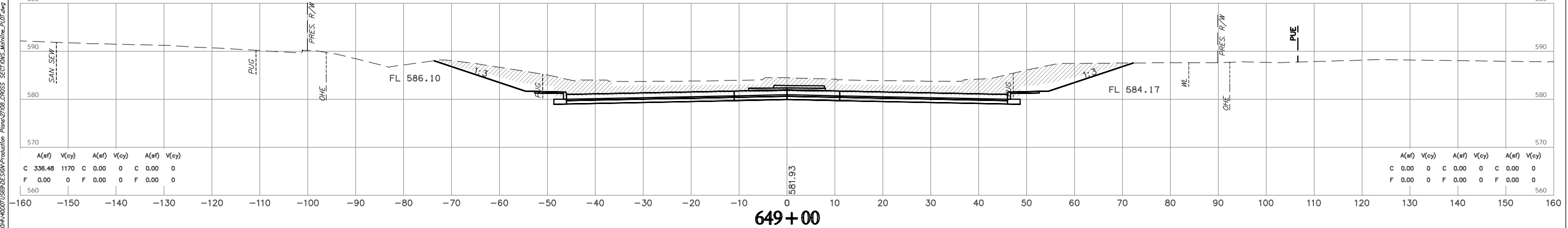
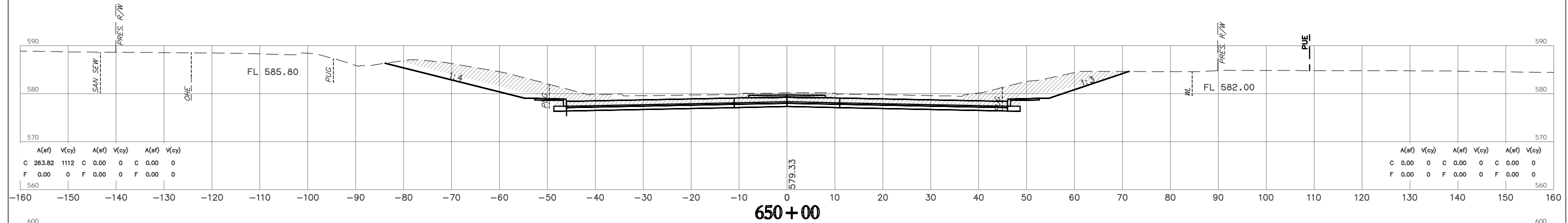
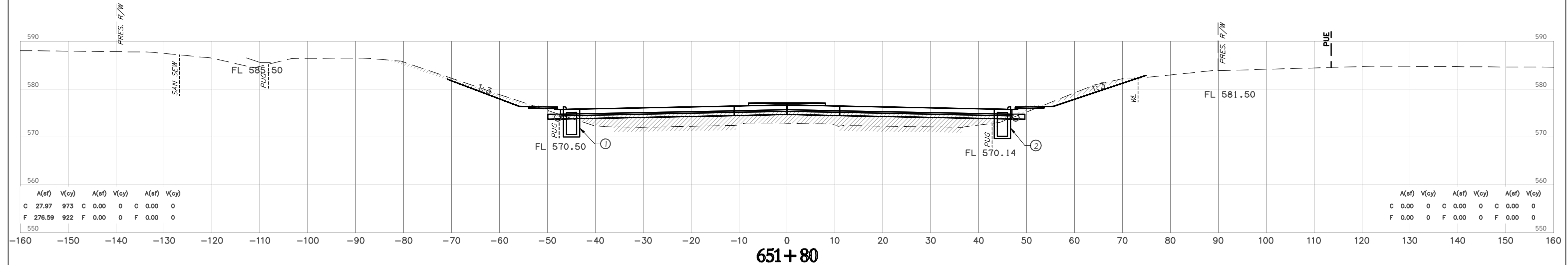
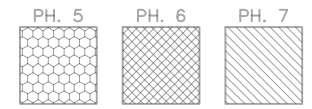
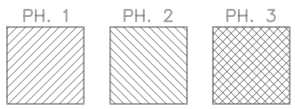


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X037

H:\B\_E\_n\_g\_l\_n\_e\_s\2023\_243\_AM\_Pkg\_Style\_HPR\50MLT\FB\G:\2024\44007\059\059\Production\_Plans\27108\_CROSS\_SECTIONS\_Mch19a\_PLOT.dwg



**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

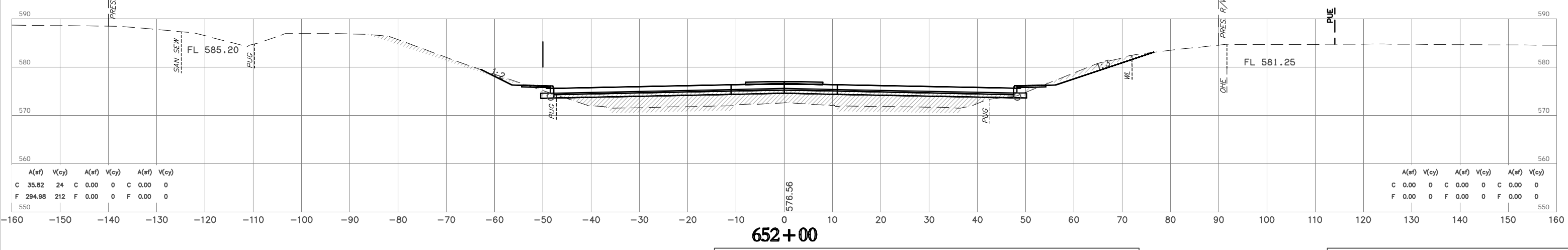
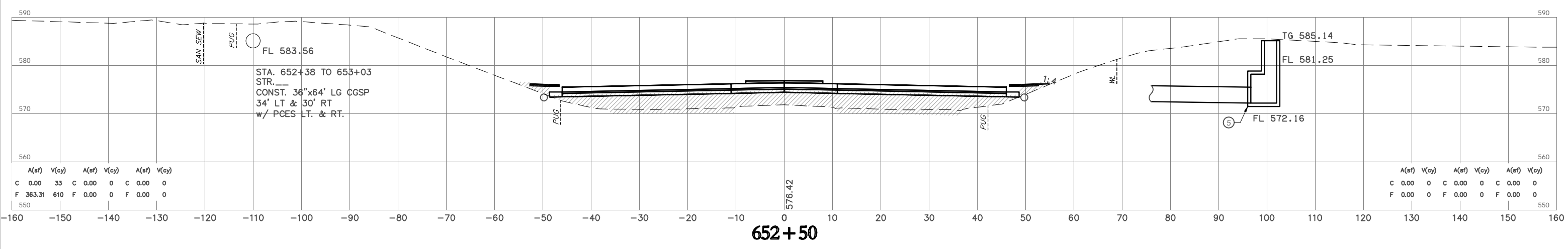
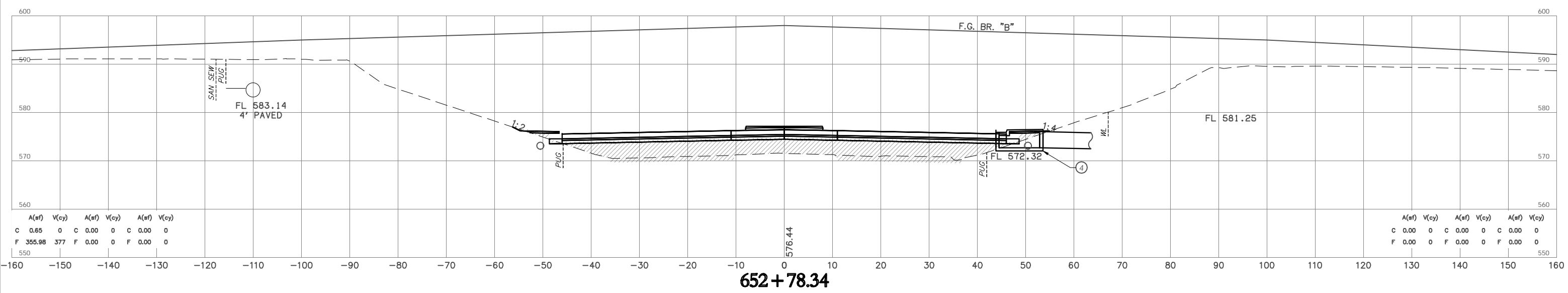
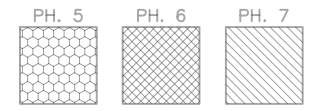
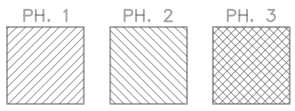
U.S. HWY. 69

STATE JOB NO. 27108(04)

MUSKOGEE COUNTY

SHEET NO. X038

HUB E n g i n e e r s  
11/23/2023 2:44 AM Plot Style: HP100L.ctb  
G:\2024\007\059\059\Production Plans\27108.LPSS SECTIONS\Metric\_Plot.dwg

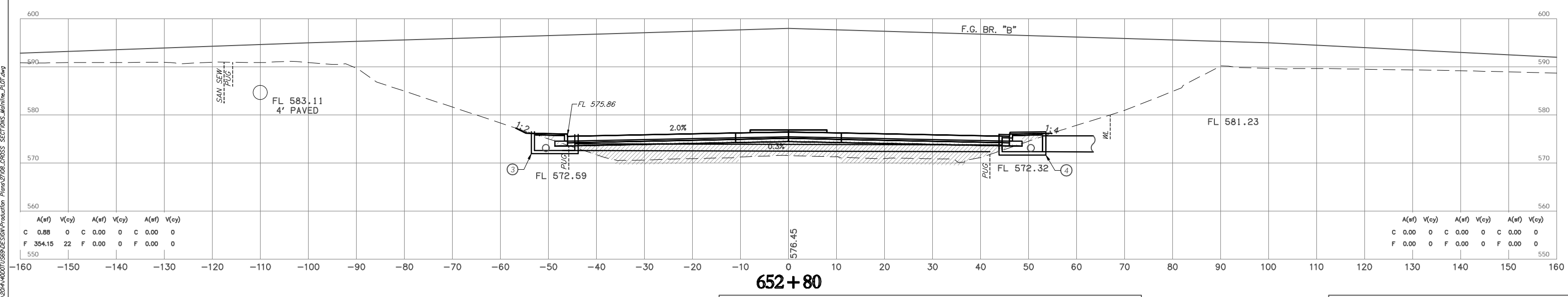
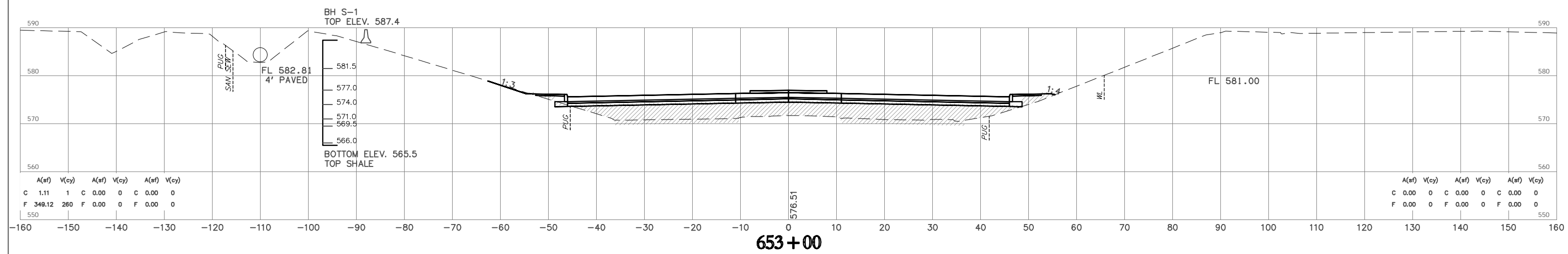
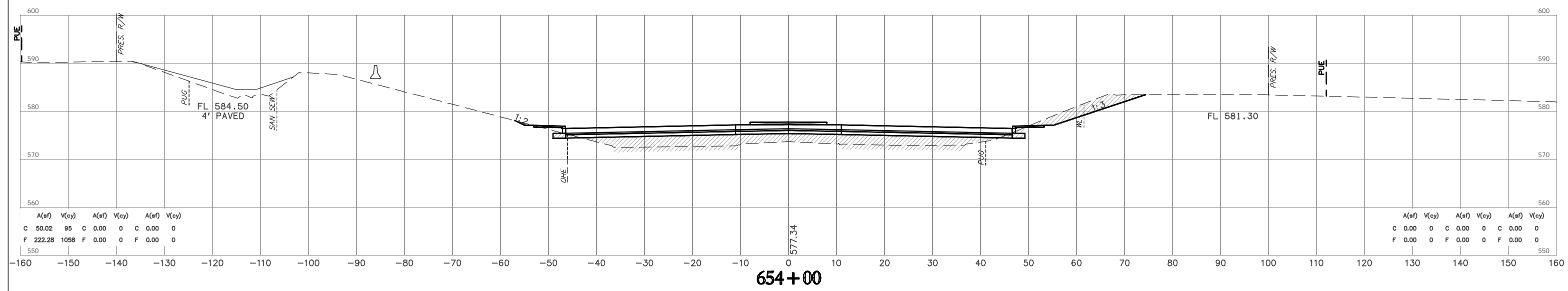
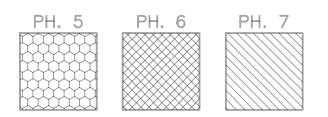
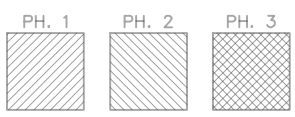


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X039

HUB E n g i n e e r s  
Time of Plot: 11/21/2023 2:44 AM Plot Style: HP1000LCTB  
G:\2024\001\059\059\Production Plans\02100\_CROSS SECTIONS\Mch10\_Plot.dwg

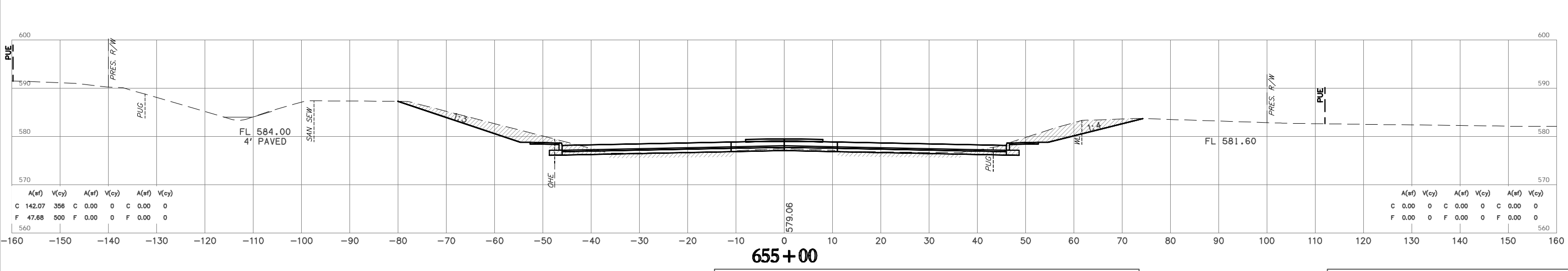
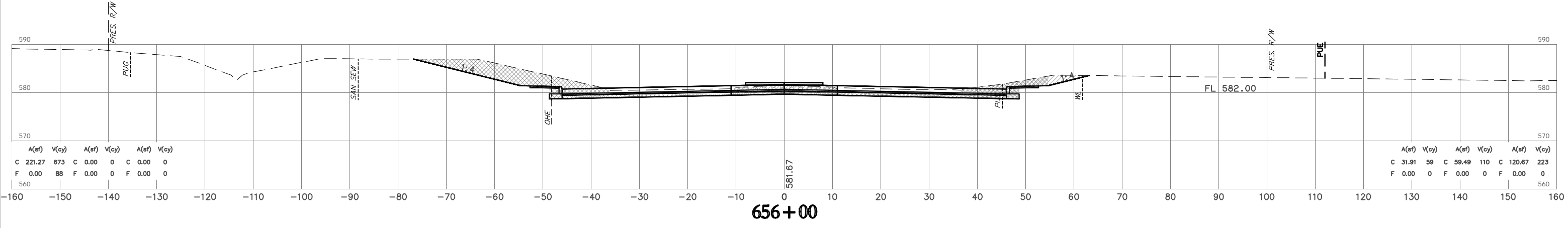
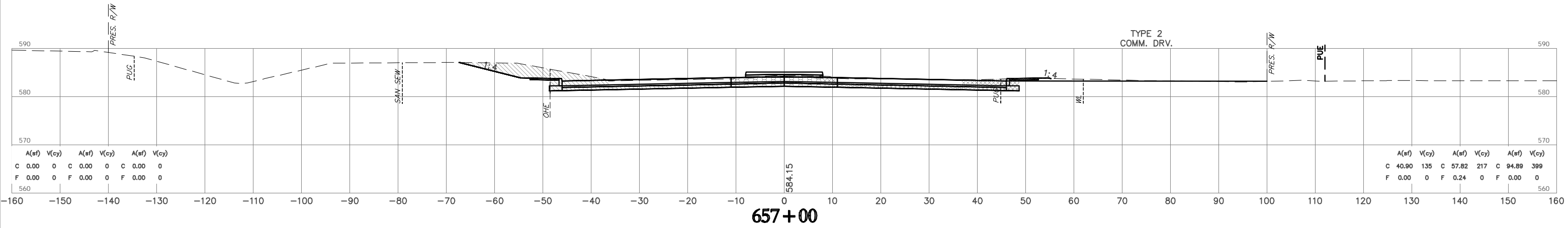
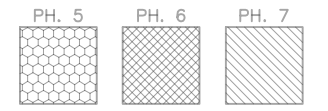
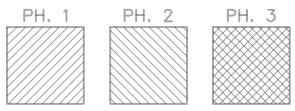


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X040

HUB Engineering  
Time of Plot: 11/21/2023 2:45 AM Plot Style: HPB50MLT/B  
G:\2024\001\059\059\Production Plans\27108\04\CROSS SECTIONS\Mchline\_PLOT.dwg



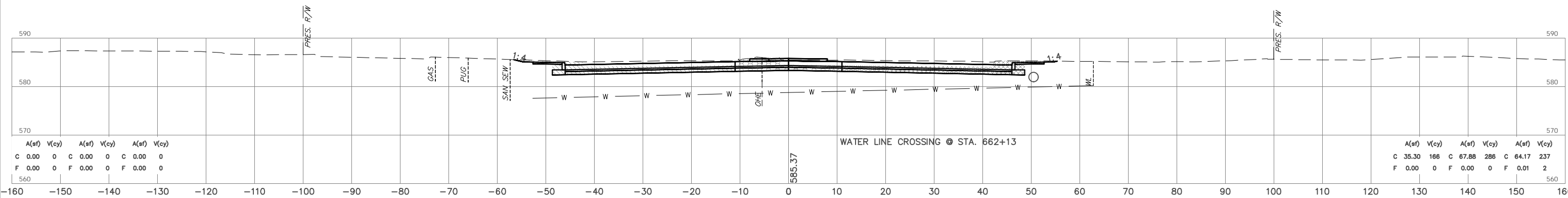
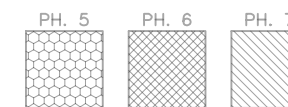
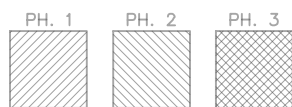
**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

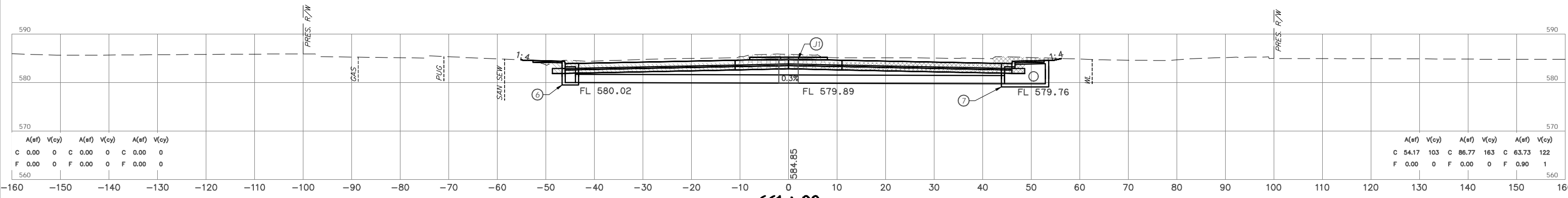
STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X041

HUB Engineering 11/21/2023 2:45 AM Plot Style: HPB150MLT.B... SECTIONS.Mch11a\_PLOT.dwg

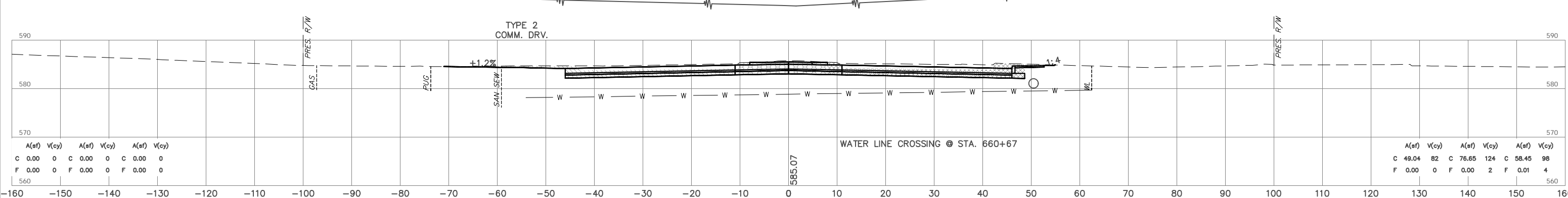




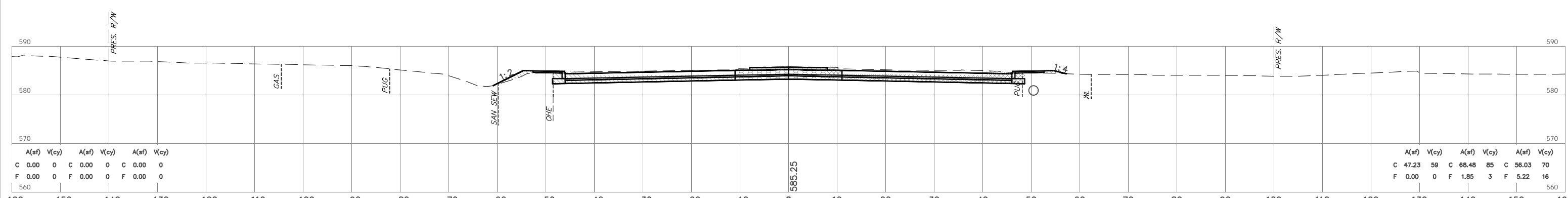
662+00



661+00



660+46



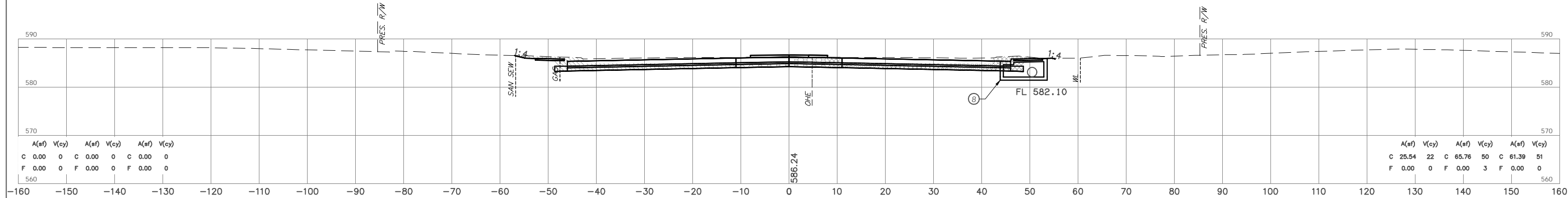
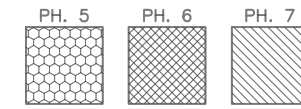
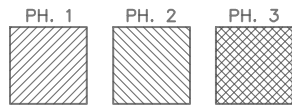
660+00

**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

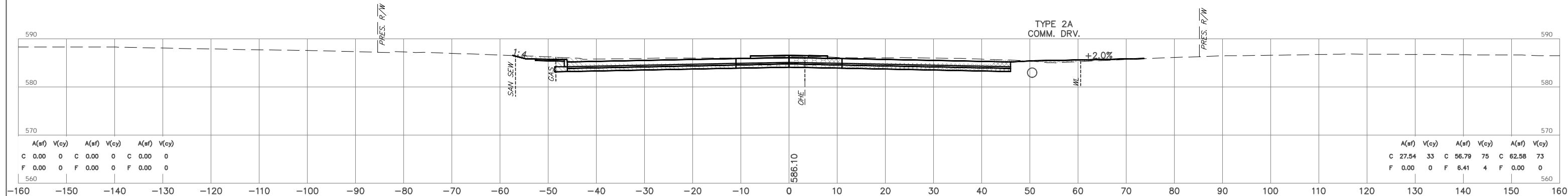
U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X043

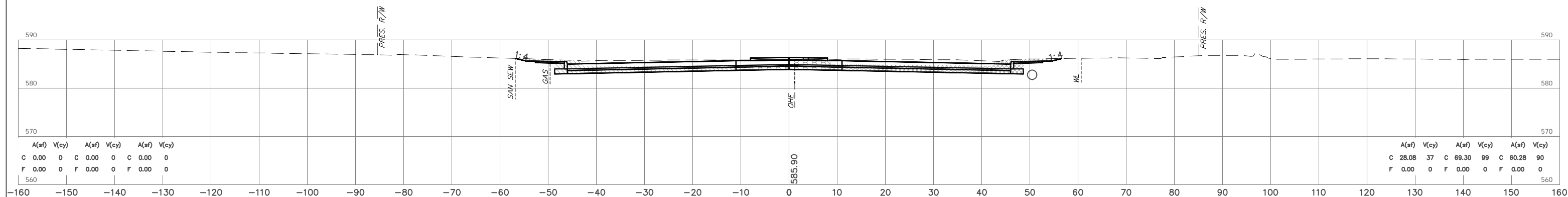
HUB E n g i n e e r s  
Time of Plot: 11/23/2023 2:46 AM Plot Style: HP90150MLT.B  
G:\2024\1027108\04\1027108.dwg



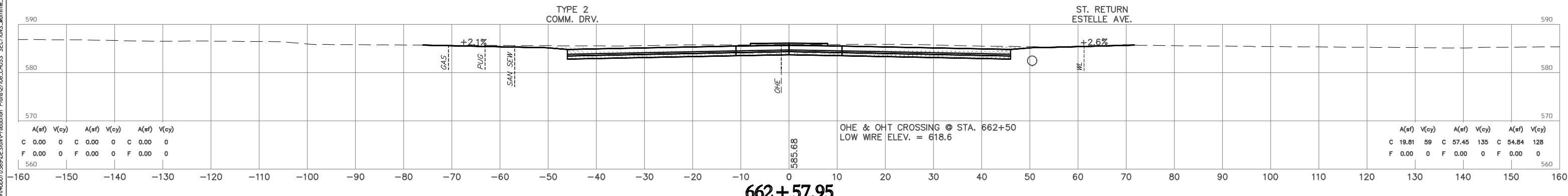
**663+54**



**663+32**



**663+00**



**662+57.95**

**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

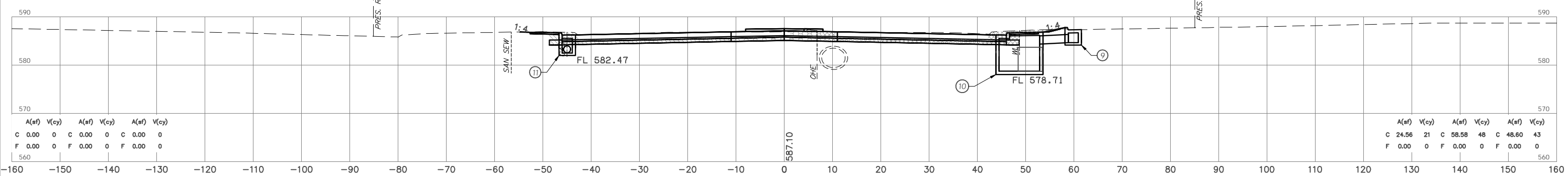
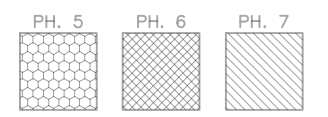
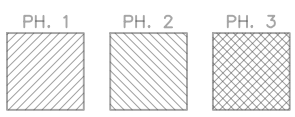
U.S. HWY. 69

STATE JOB NO. 27108(04)

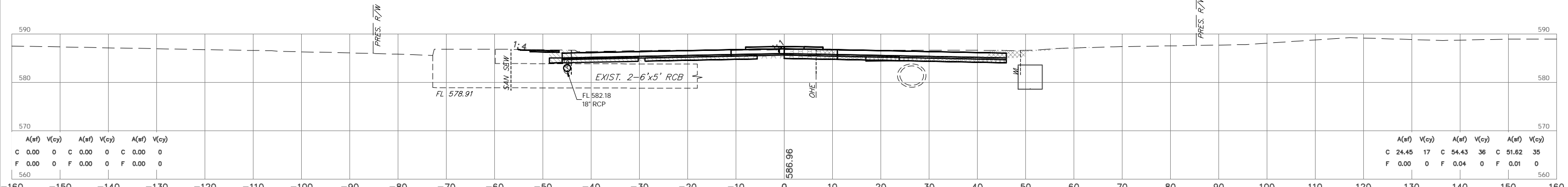
MUSKOGEE COUNTY SHEET NO. X044



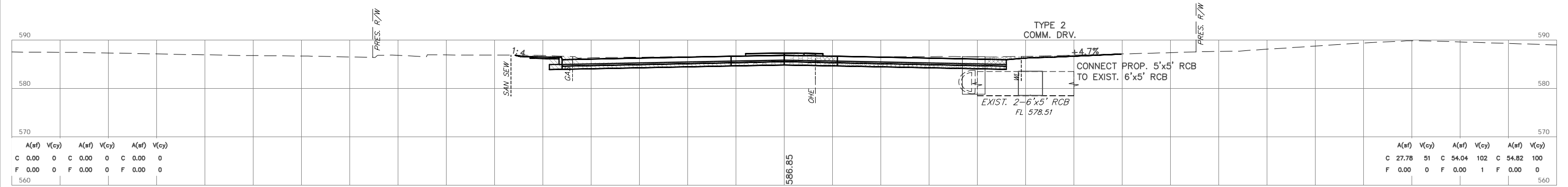




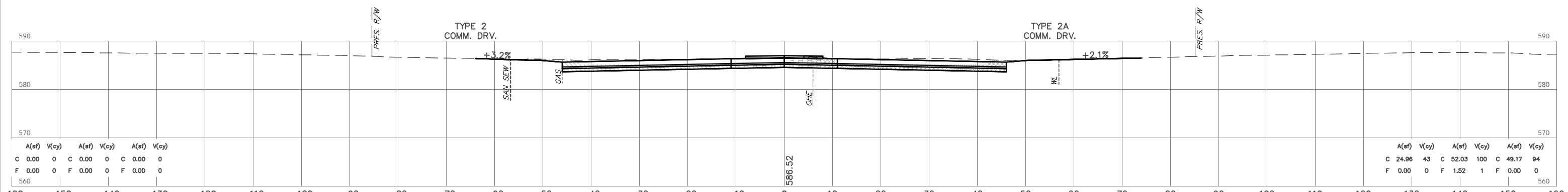
664+93



664+70



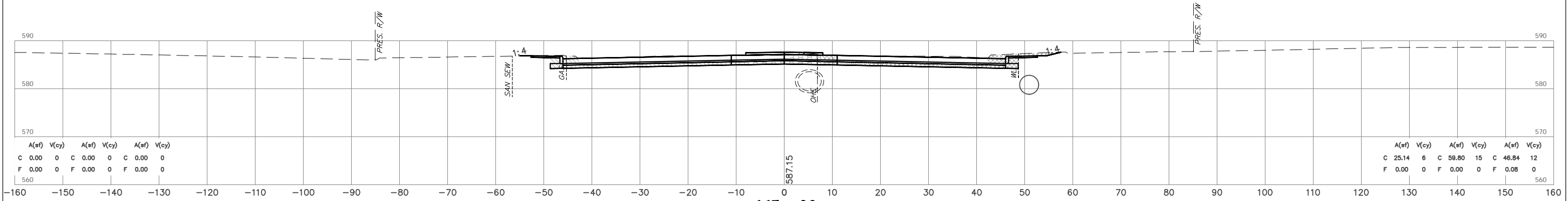
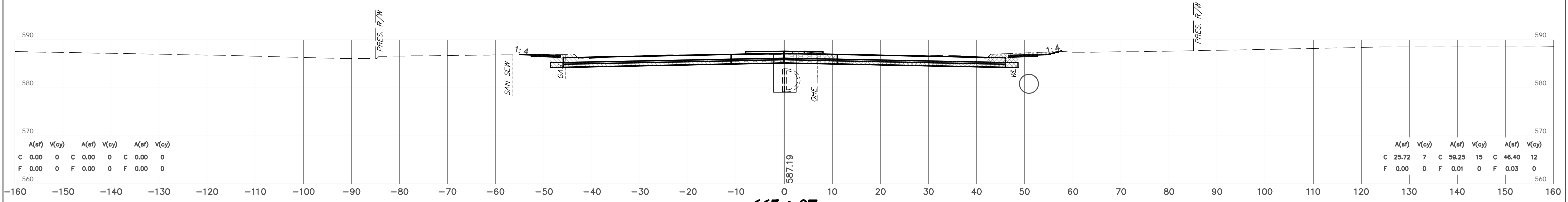
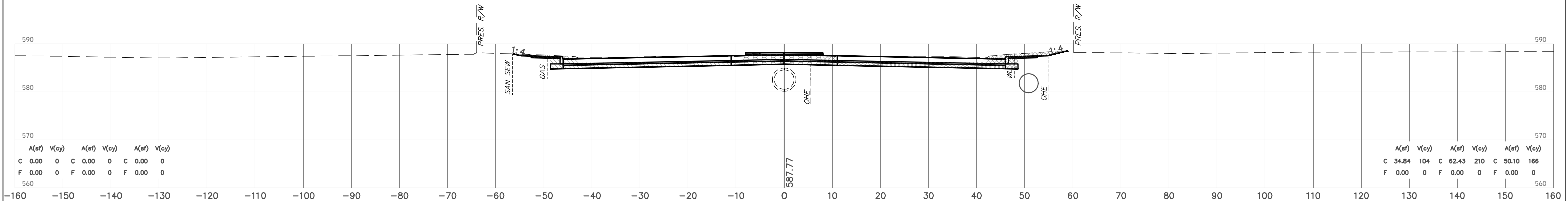
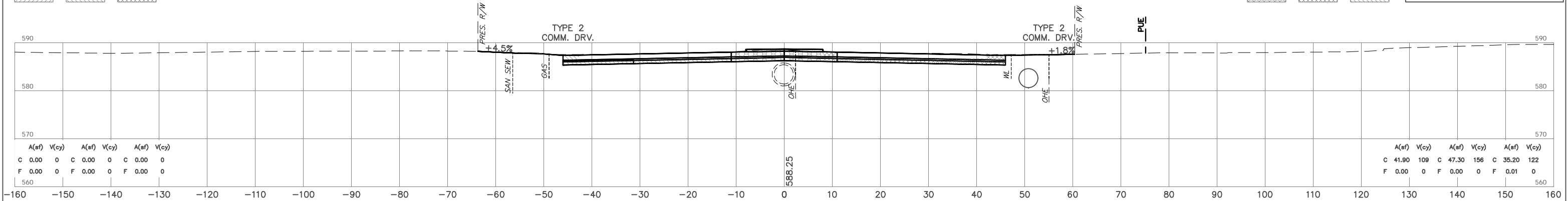
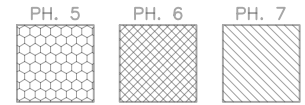
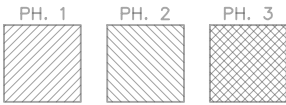
664+52



664+00

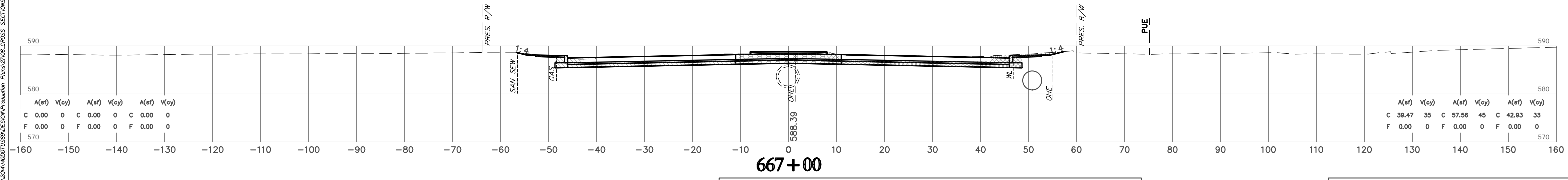
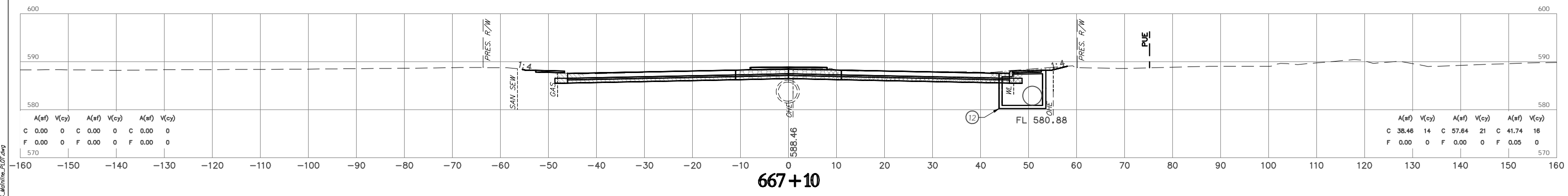
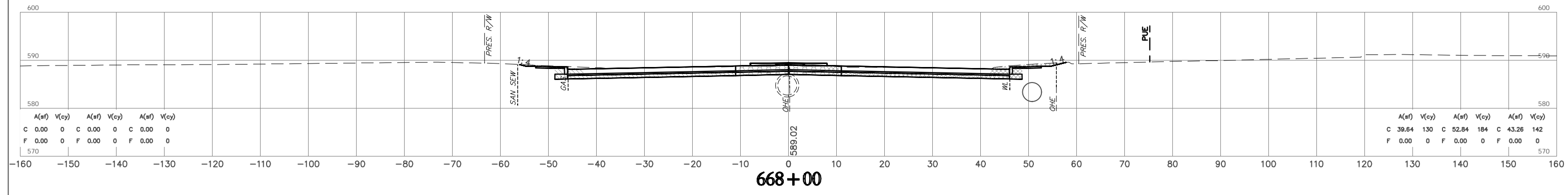
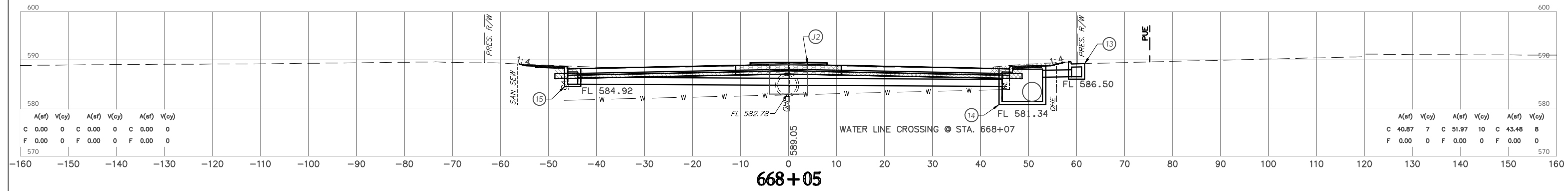
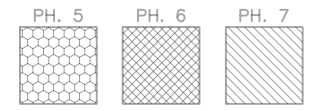
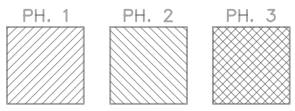
**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

HUB E n g i n e e r s  
 11/21/2023 2:46 AM Plot Style: HPB510MCTB  
 G:\2024\0071059\059\059\Production Plans\071059.DWG SECTIONS\Midline\_PLOT.dwg



**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

H:\B\_E\_n\_g\1\_n\_e\_e\_r\_s\Time of Plot: 11/23/2023 2:46 AM Plot Style: HPR150MLT18 (G:\CH44\001\059\023\01\Production\_Plans\02\106\PROSS\_SECTIONS\Methine\_PLOT.dwg)

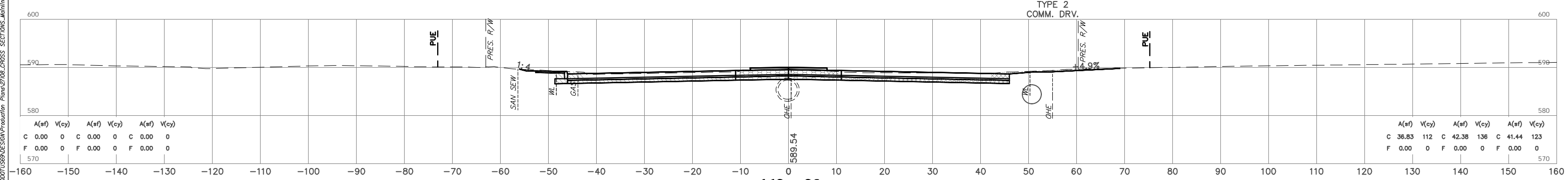
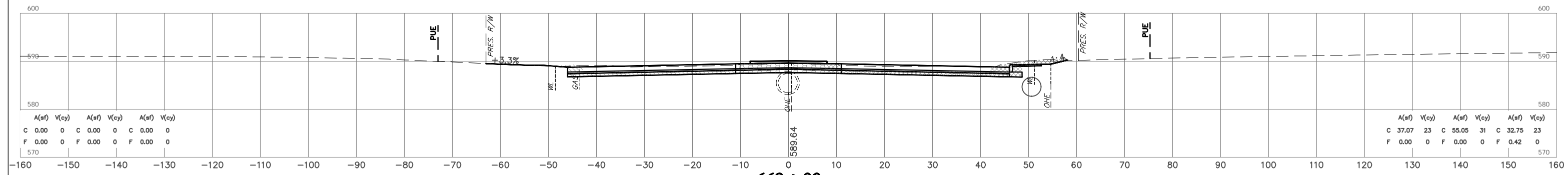
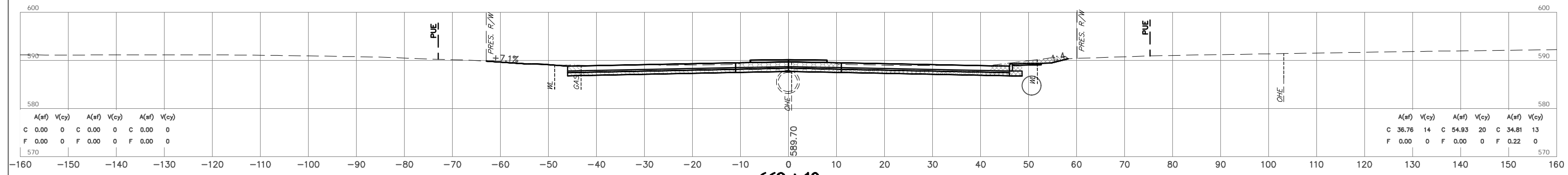
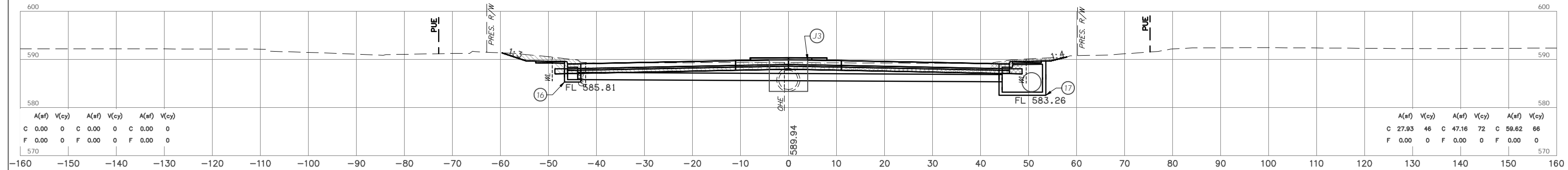
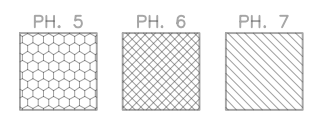
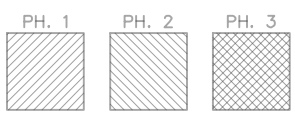


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X047

HUB E n g i n e e r s  
Time of Plot: 11/21/2023 2:47 AM Plot Style: HP1050MLT1B  
G:\2024\001\059\059\059\Production Plans\02\06\_CROSS\_SECTIONS\_Midline\_Plot.dwg

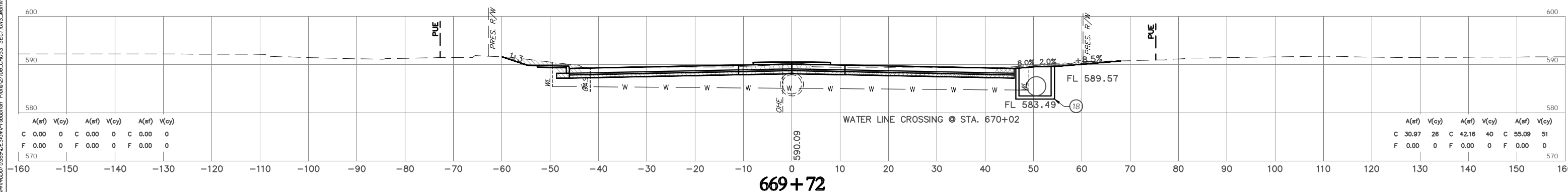
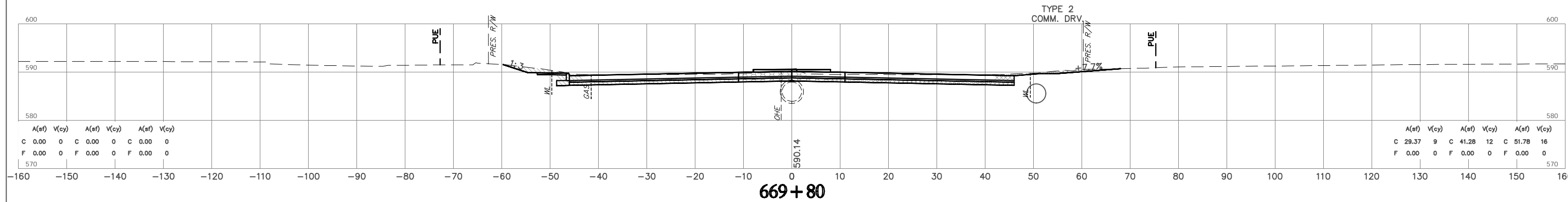
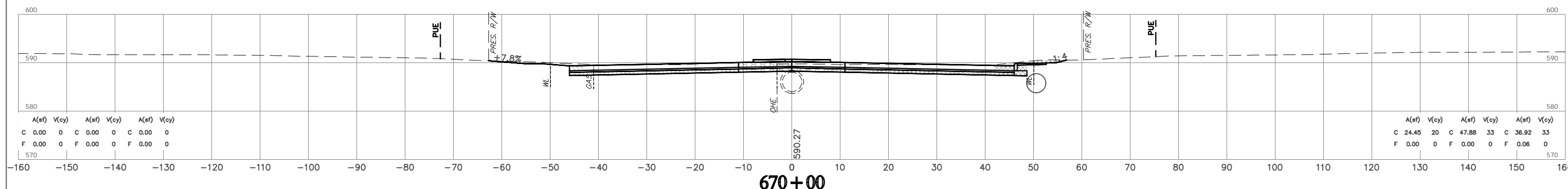
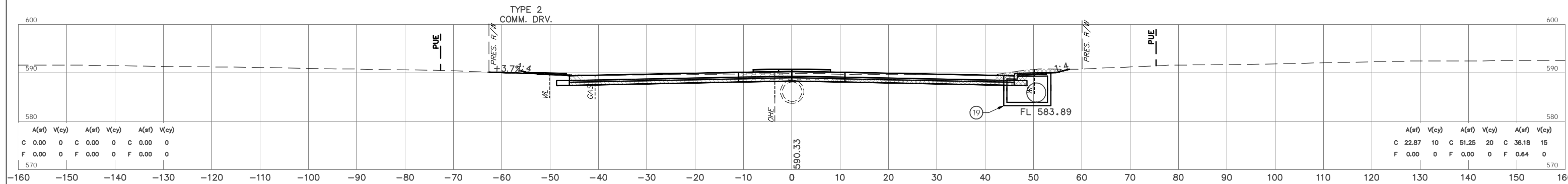
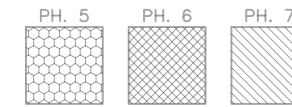
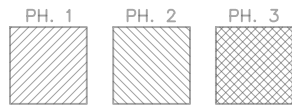


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

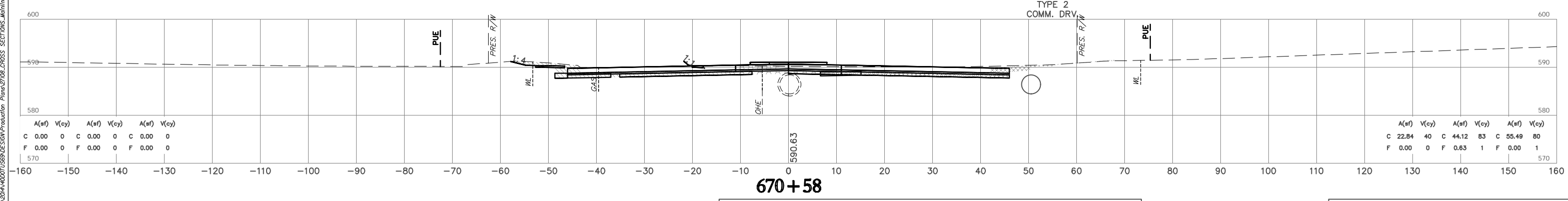
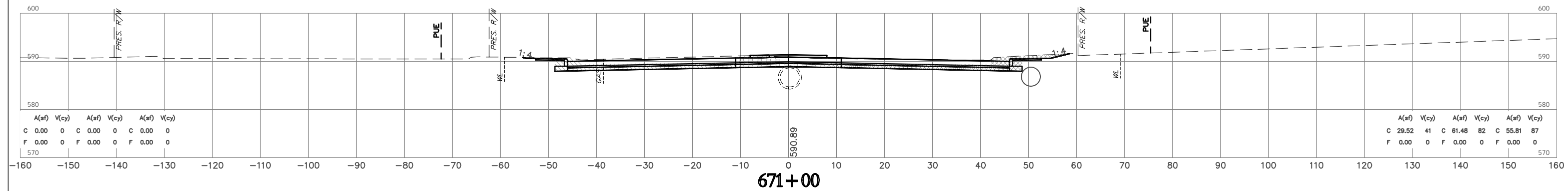
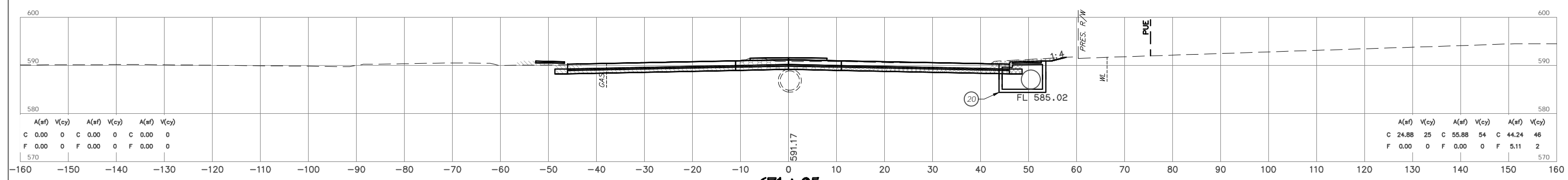
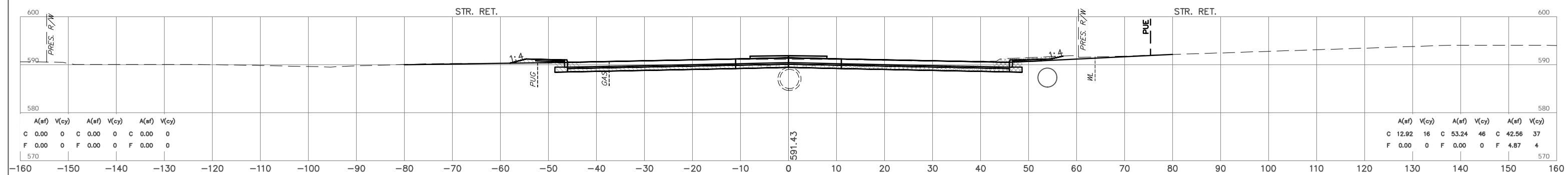
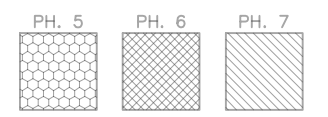
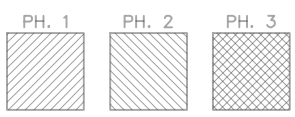
STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X048

HUB E n g i n e e r s  
11/21/2023 2:47 AM Plot Style: HP150MLT1B  
G:\2024\001\059\059\Production Plans\02\06\_CROSS\_SECTIONS\_Merline\_PLOT.dwg



**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

HUB E n g i n e e r s  
Time of Plot: 11/23/2023 2:47 AM Plot Style: HPB50MLT.B  
G:\2024\001\059\059\Production Plans\27108\CRSS SECTIONS\Mchline\_PLOT.dwg

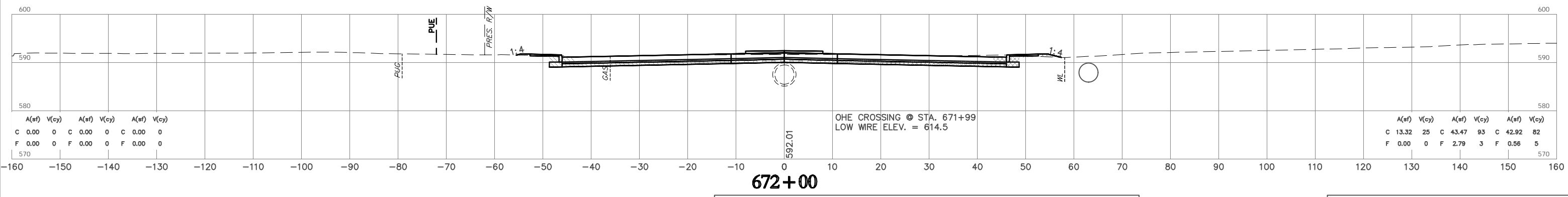
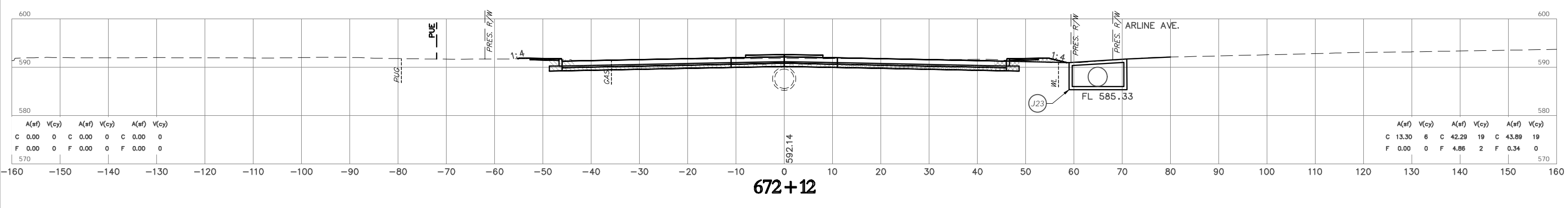
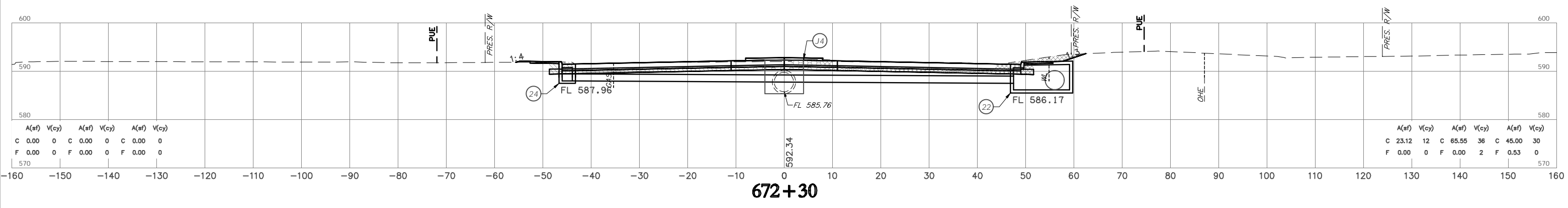
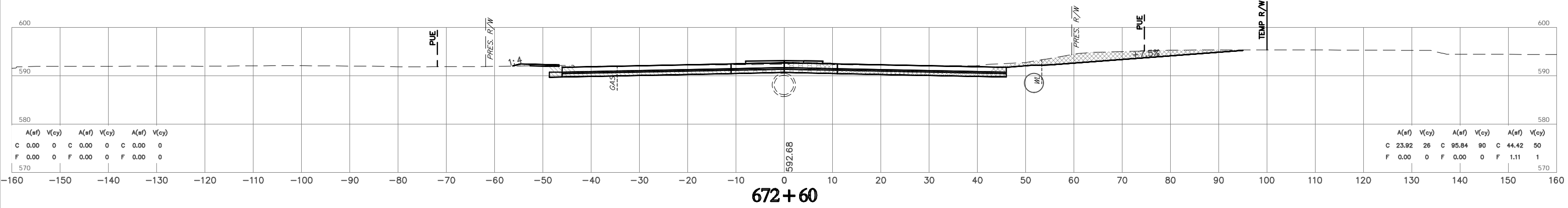
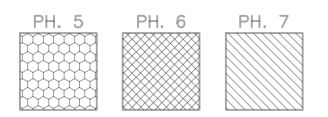
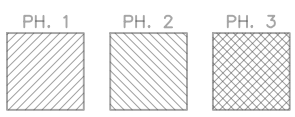


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X050

HUB E n g i n e e r s  
Time of Plot: 11/21/2023 2:48 AM Plot Style: HP1050MLT1B  
G:\2024\001\059\059\Production Plans\27108\CRSS SECTIONS\Mchline\_PLOT.dwg

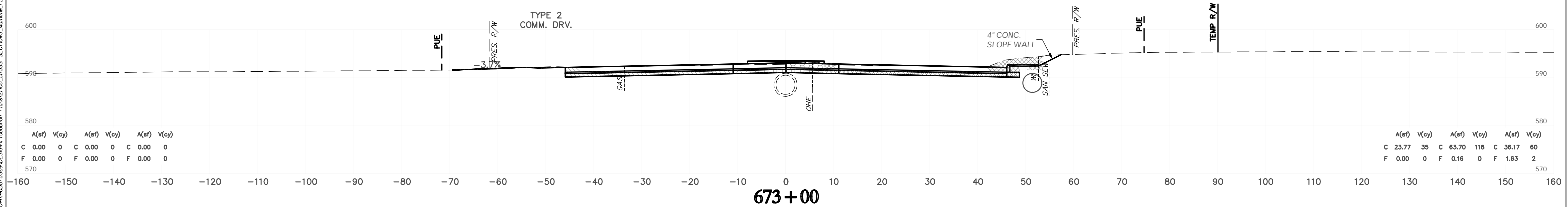
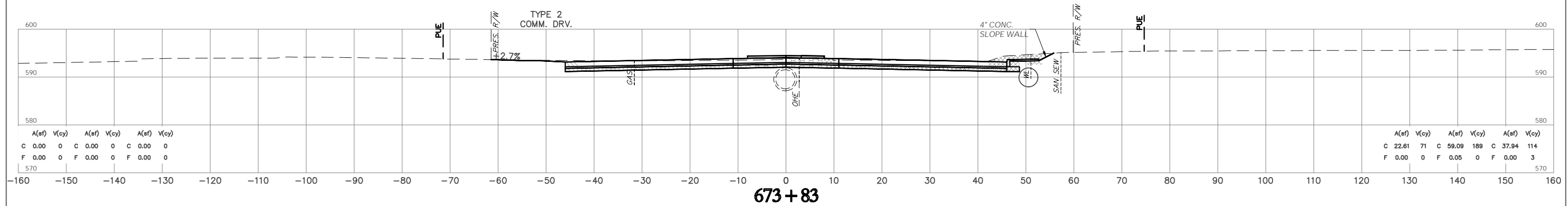
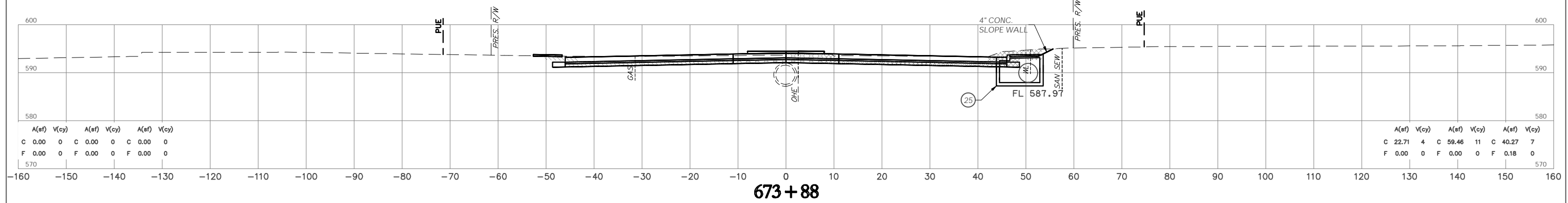
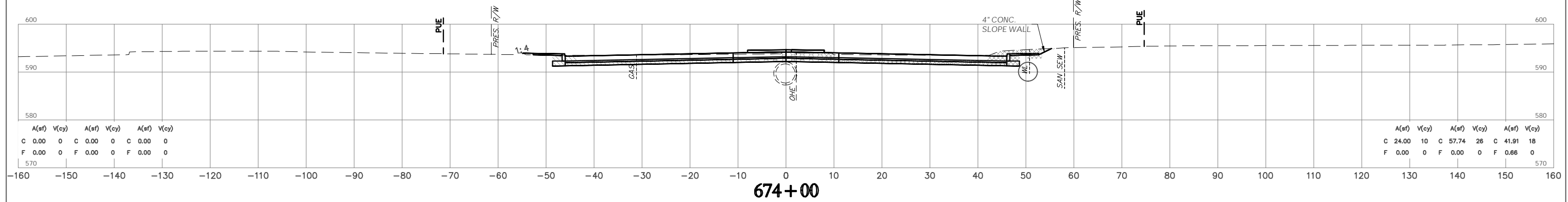
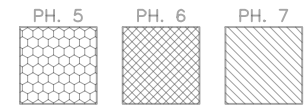
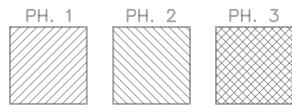


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X051

HUB E n g i n e e r s  
11/21/2023 2:46 AM Plot Style: HP1050L17E  
G:\2024\001\059\059\Production Plans\07108.DWG SECTIONS\Methine\_PLOT.dwg



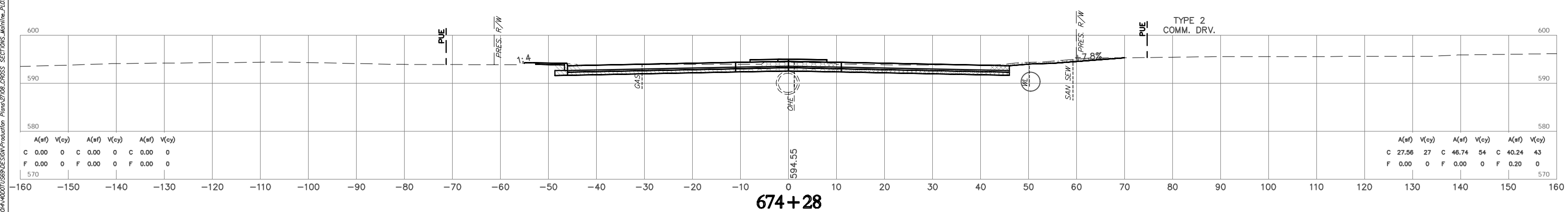
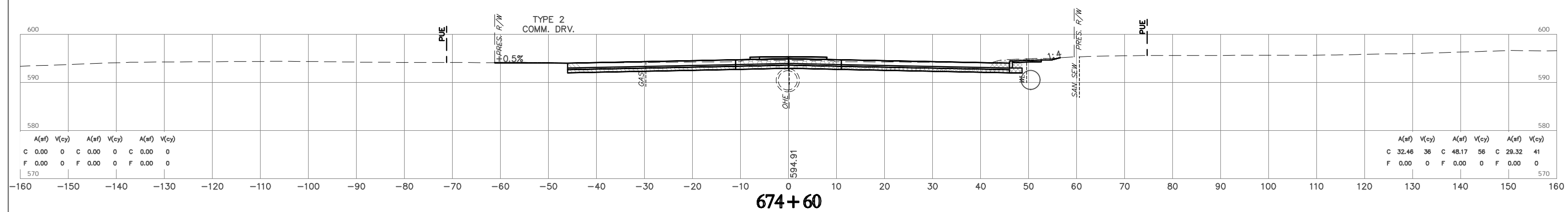
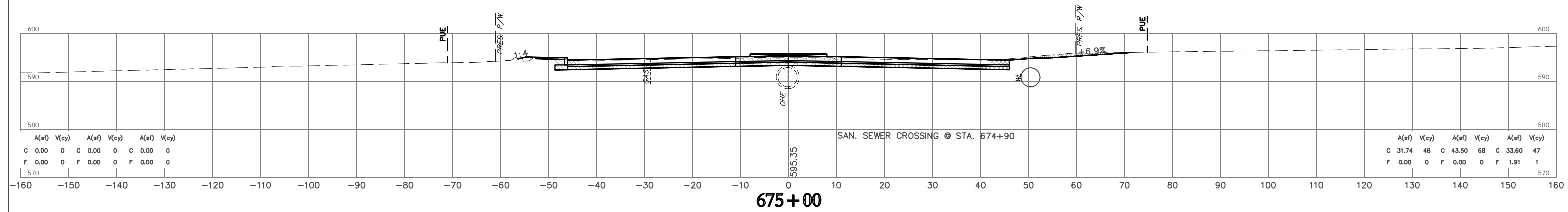
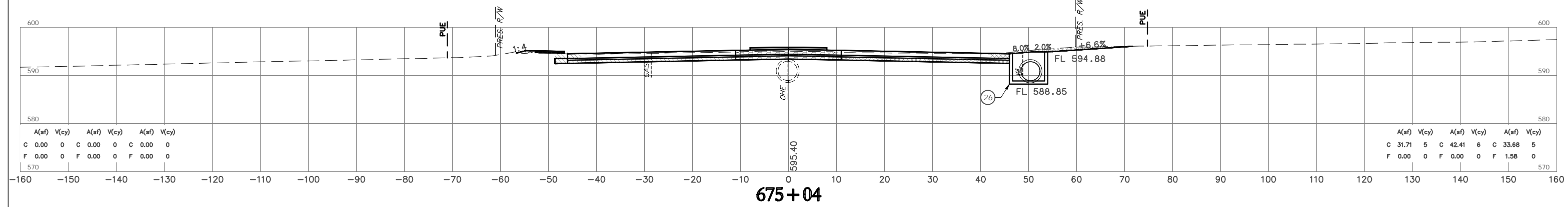
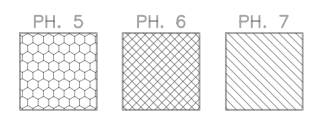
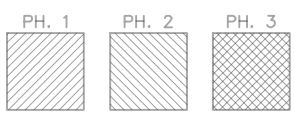
**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X052

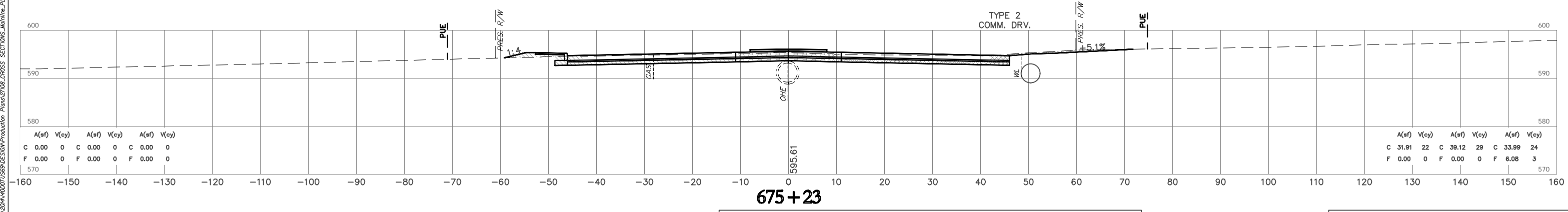
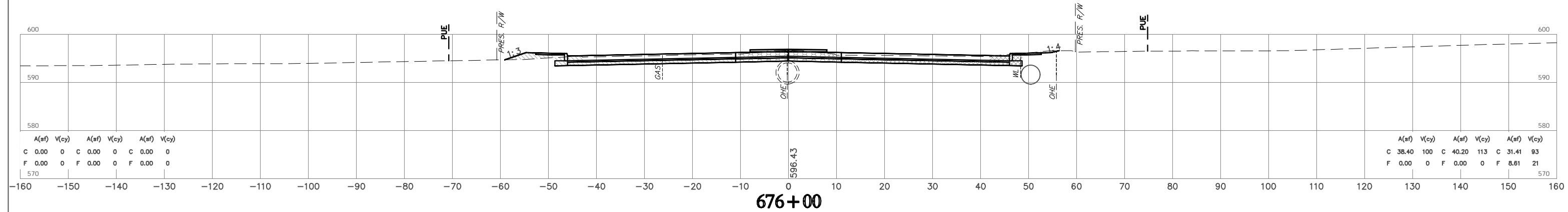
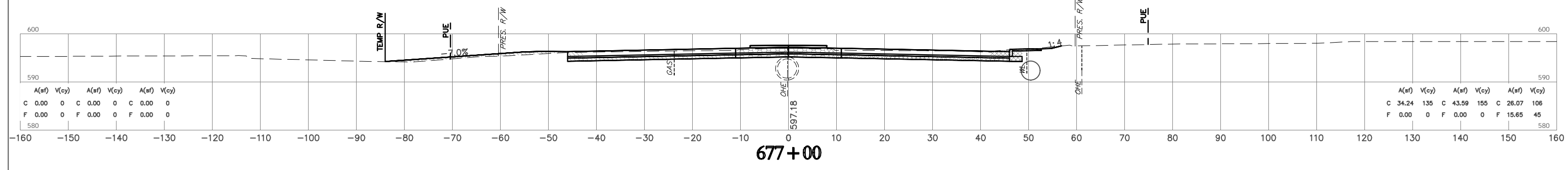
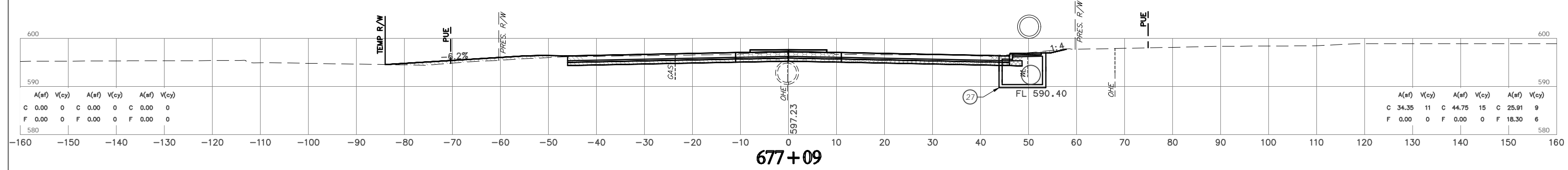
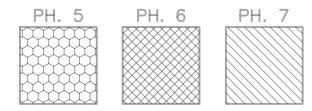
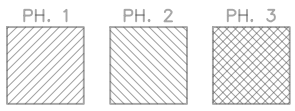
H:\B\_E\_n\_g\1\_n\_9\_e\_r\_s\Time of Plot: 11/21/2023 2:46 AM Plot Style: HPB50MLT1B (G:\CH44\ADD71059\02\51\Production Plans\27108\CRSS SECTIONS\Mch19a\_PLOT.dwg)





**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

HUB E n g i n e e r s  
 Time of Plot: 11/21/2023 2:46 AM Plot Style: HP1050L17B  
 G:\2024\001\059\059\Production Plans\27108\CRSS SECTIONS\Mchline\_PLOT.dwg

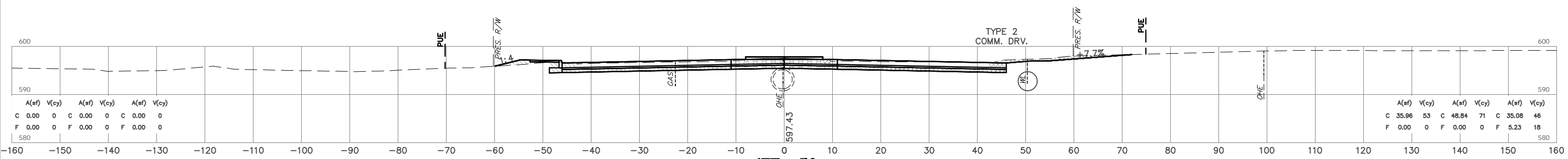
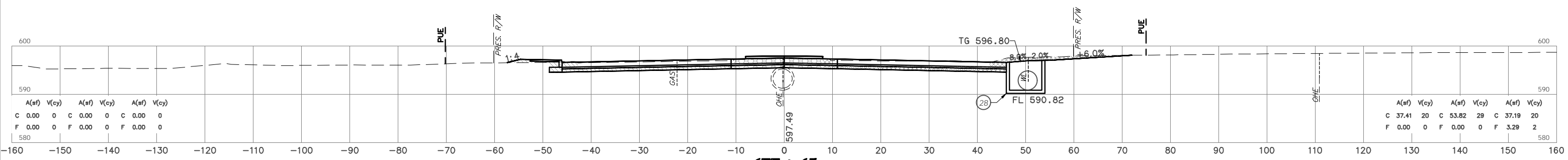
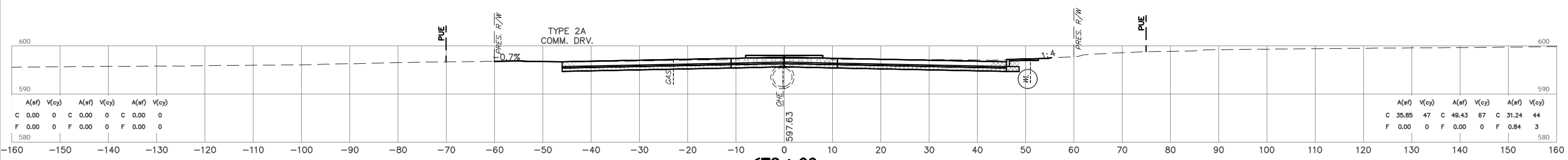
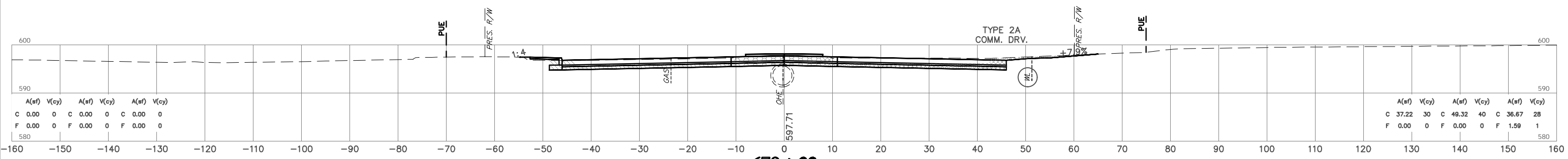
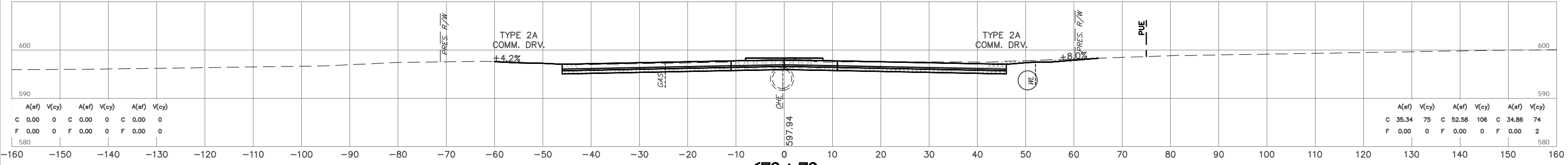
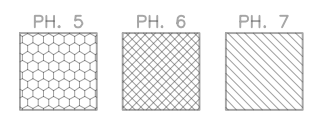
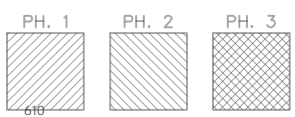


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

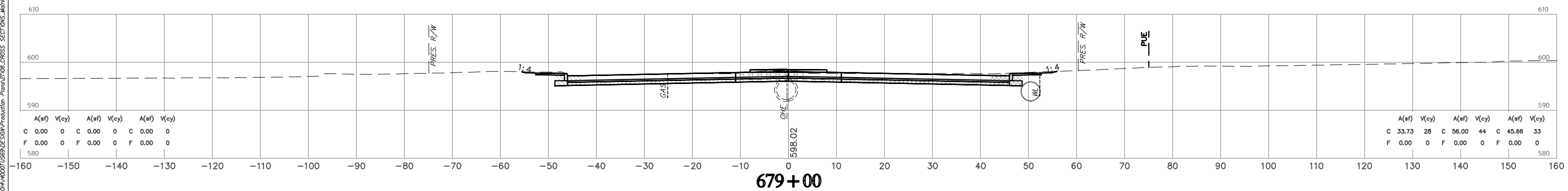
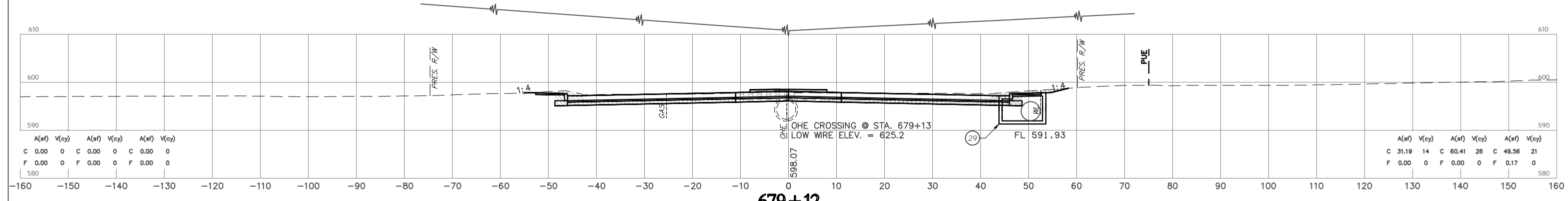
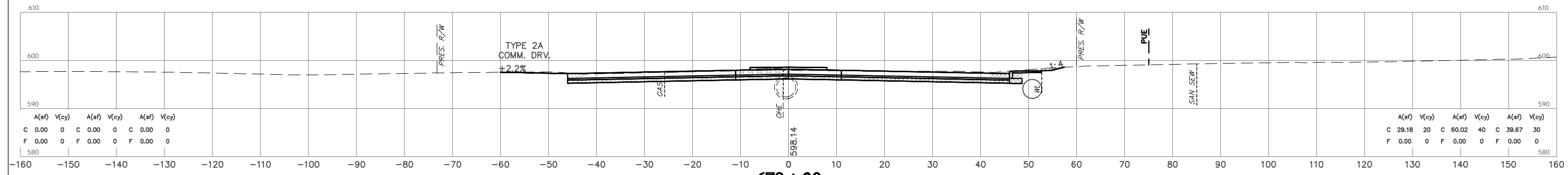
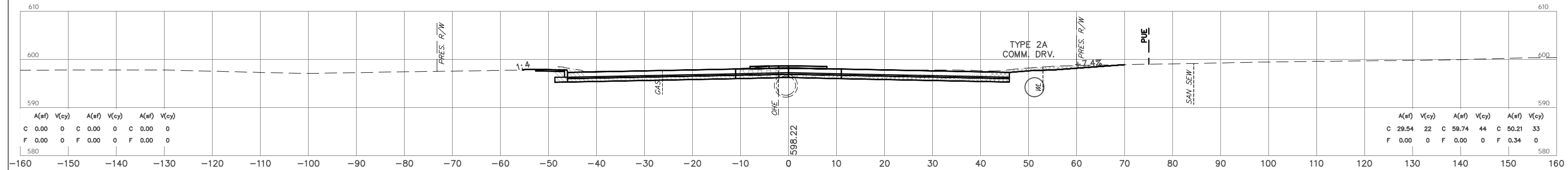
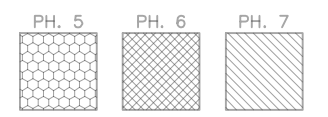
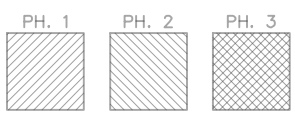
STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X054

HUB E n g i n e e r s  
 11/21/2023 2:49 AM Plot Style: HP1650MLT.B  
 G:\2024\0071059\059\059\Production Plans\071059.DWG SECTIONS\Midline\_PLOT.dwg



**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

HUB E n g i n e e r s  
Time of Plot: 11/21/2023 2:49 AM Plot Style: HPR150MLC1B  
C:\CH4\40071059\059\Production Plans\27108.X055 - SECTIONS\_Midline\_Plot.dwg

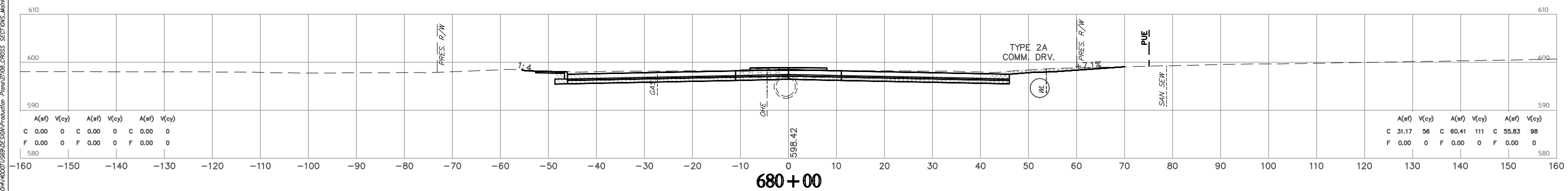
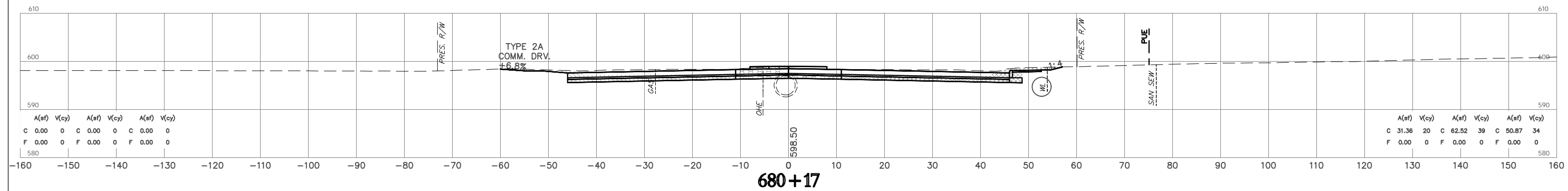
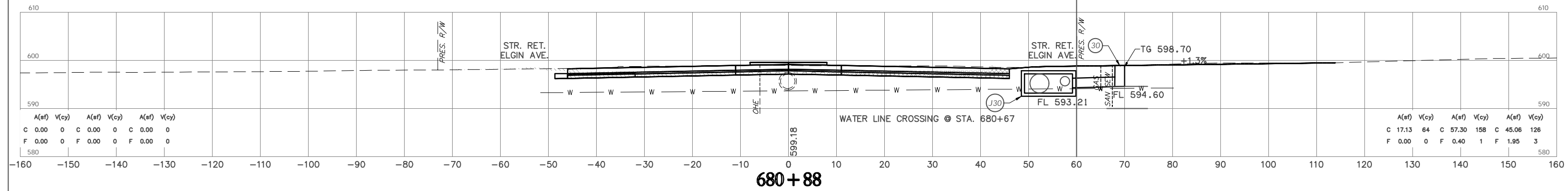
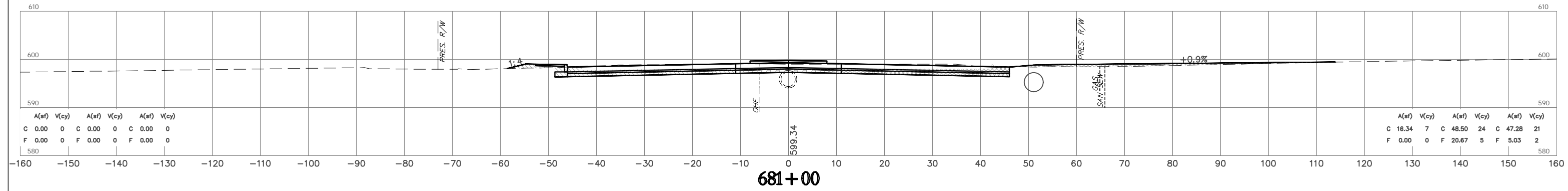
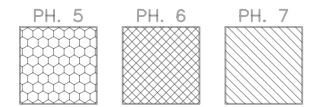
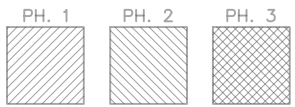


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X056

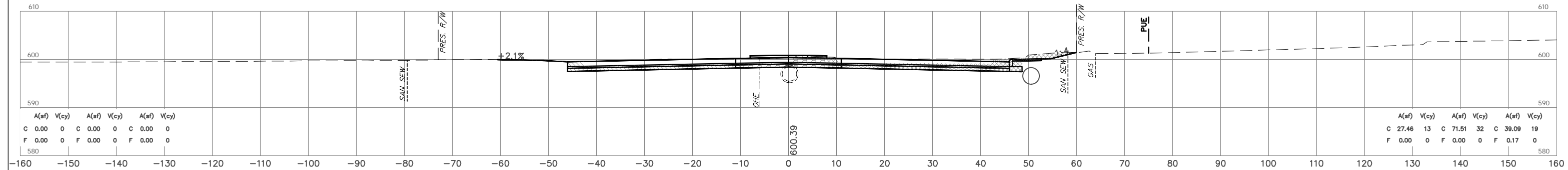
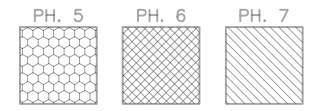
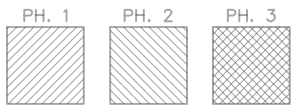
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 Time of Plot: 11/21/2023 2:49 AM Plot Style: HP9500LCTB  
 G:\CH44\44071059\050\Station\Production Plans\02108.LPSS SECTIONS\_Merline\_PLOT.dwg



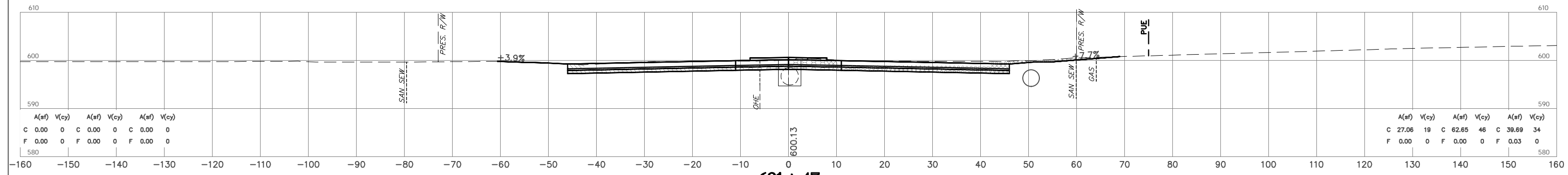
**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

HUB E n g i n e e r s  
11/23/2023 2:49 AM Plot Style: HP10150MLT1B  
G:\2024\0071059\059\059\Production Plans\071059.DWG SECTIONS\_Midline\_PLOT.dwg

**FINAL FIELD MEETING**  
OCTOBER 2023



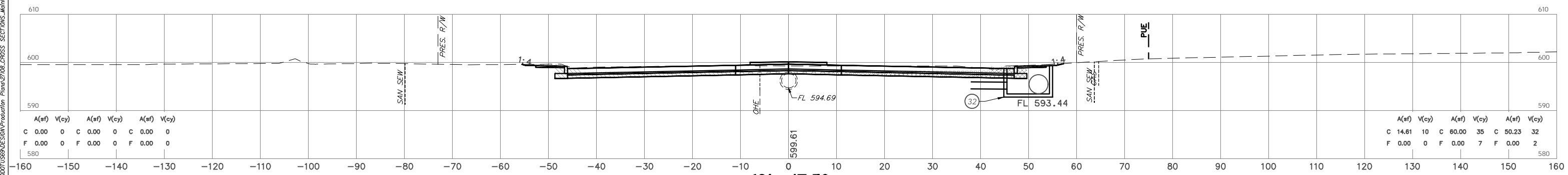
681+60



681+47



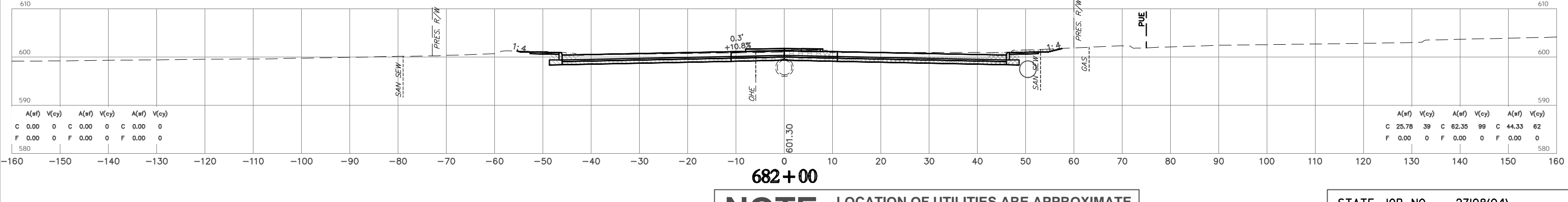
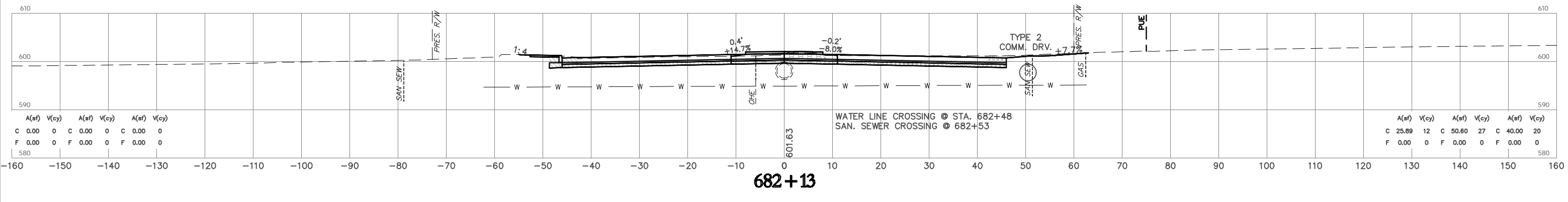
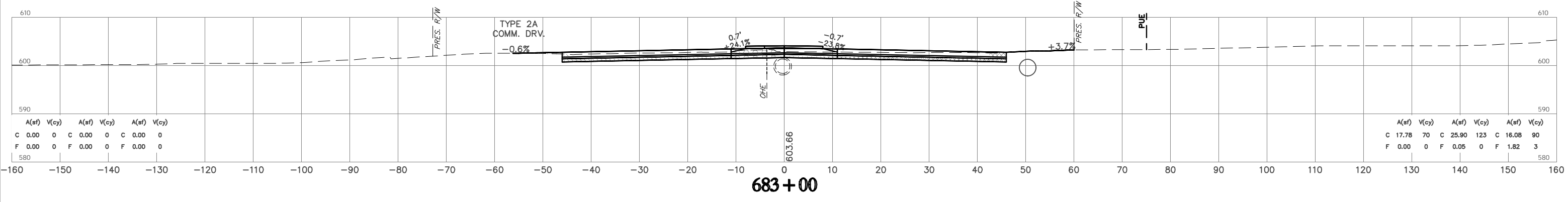
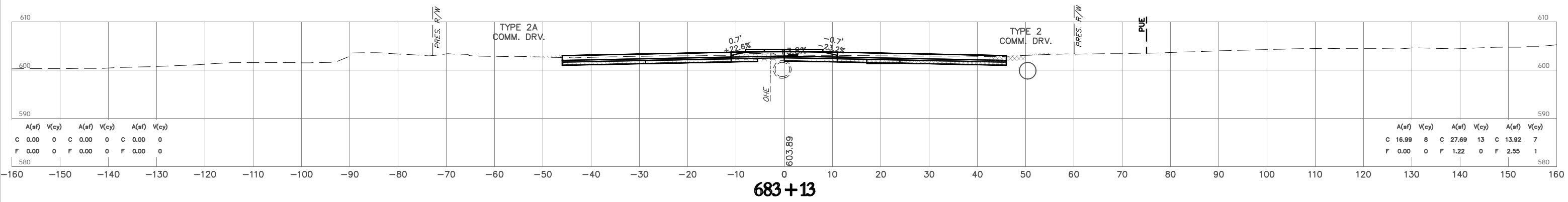
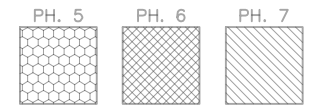
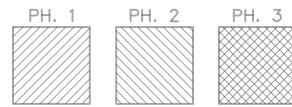
681+27



681+17.50

**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

H:\B\_E\_n\_g\I\_n\_g\_r\_s\Time of Plot: 11/21/2023 2:50 AM Plot Style: HP8150L.PLT  
 (C:\Users\ad071059\OneDrive\Documents\Projects\27108(04)\_CROSS SECTIONS\Melina\_PLOT.dwg)



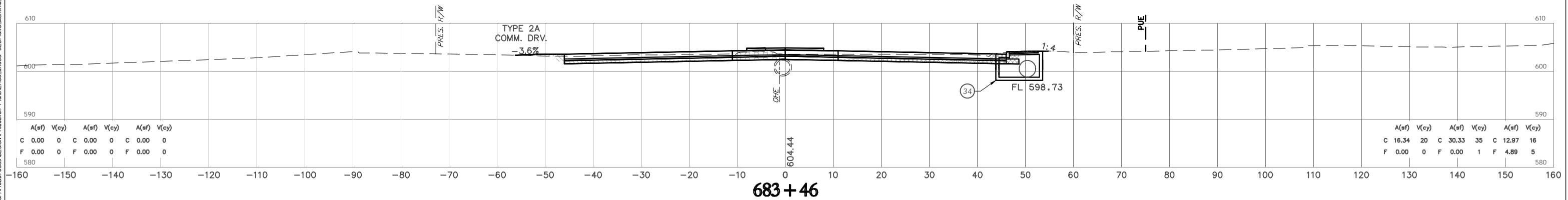
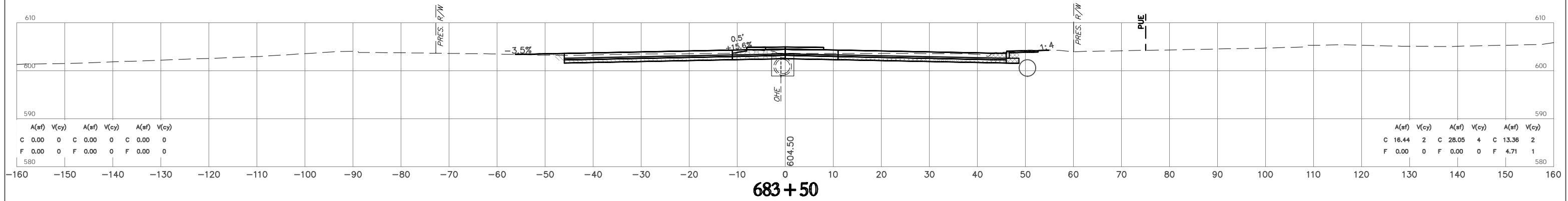
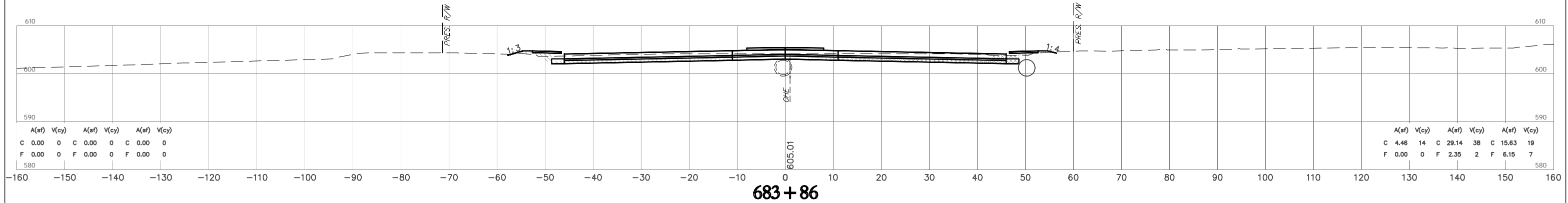
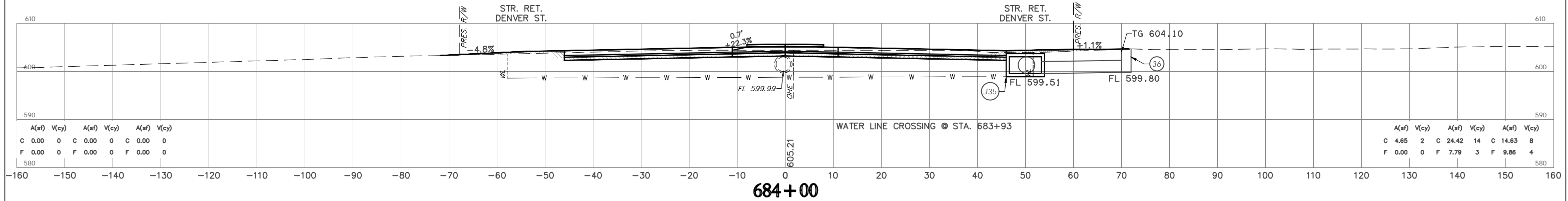
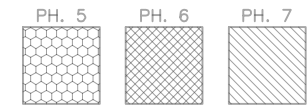
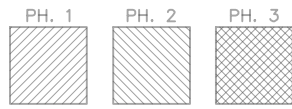
HUB E n g i n e e r s  
11/23/2023 2:50 AM Pkg Style: HP/50/LITE  
C:\G24\440071\059\053\Production Plans\2108.LR.DWG SECTION1 - Meeting\_PLOT.dwg



**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X059



**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

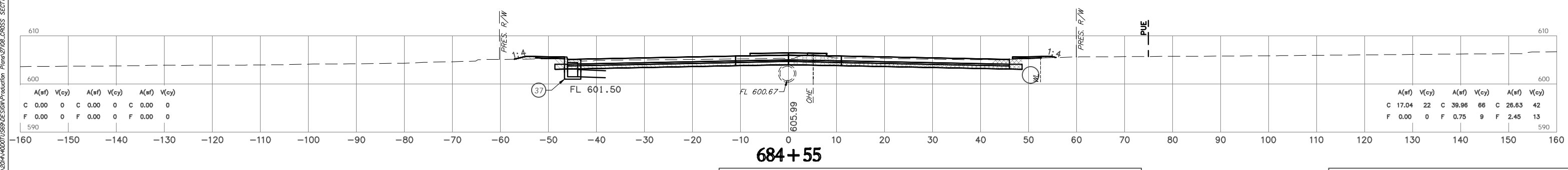
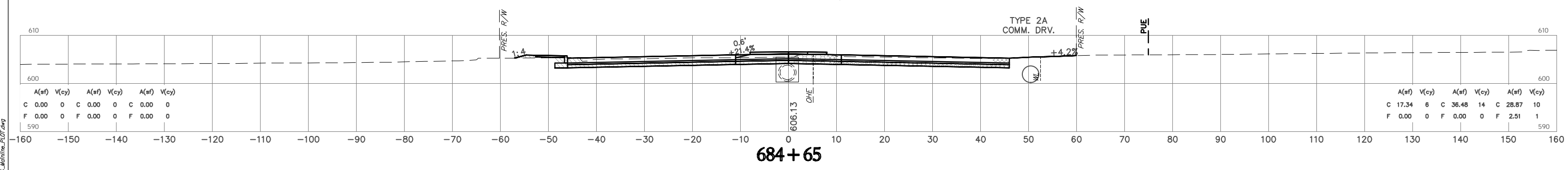
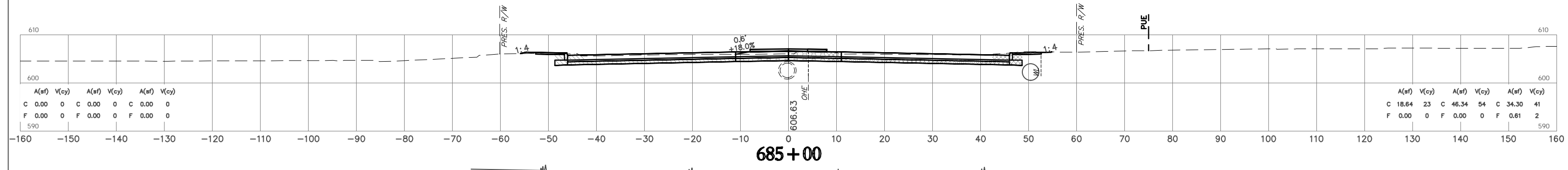
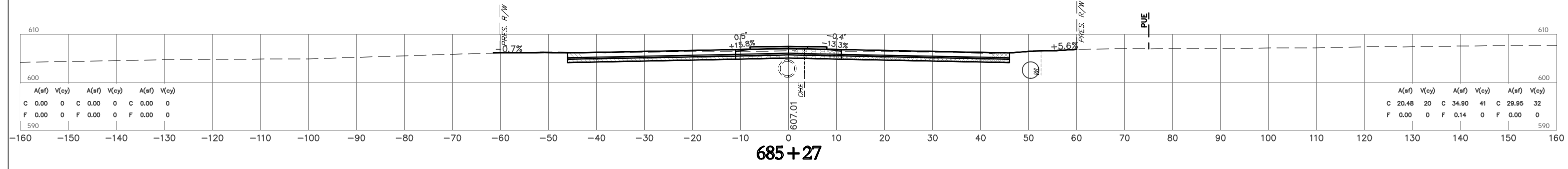
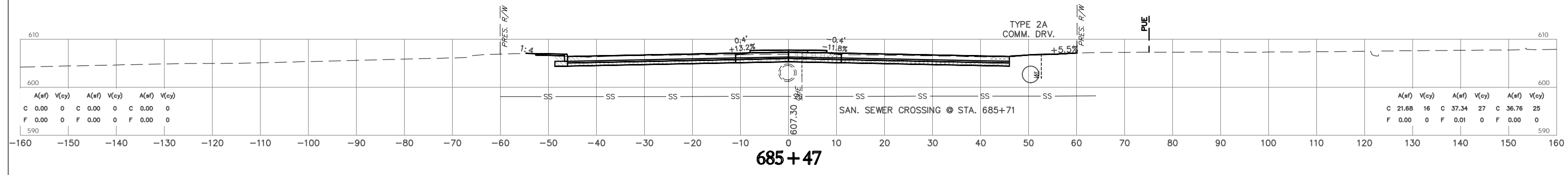
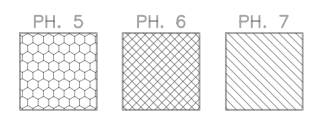
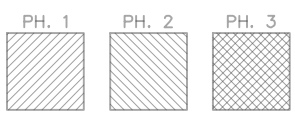
U.S. HWY. 69

STATE JOB NO. 27108(04)

MUSKOGEE COUNTY

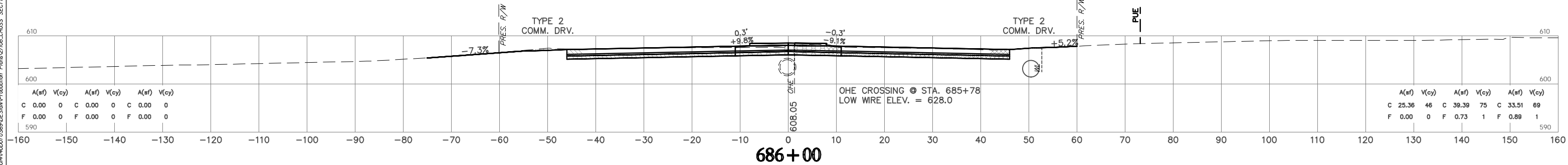
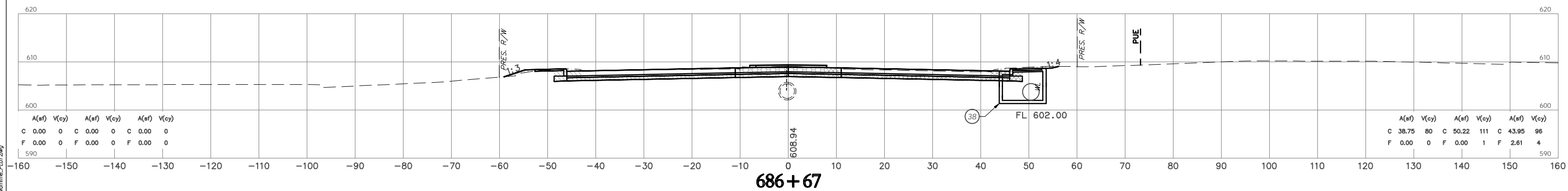
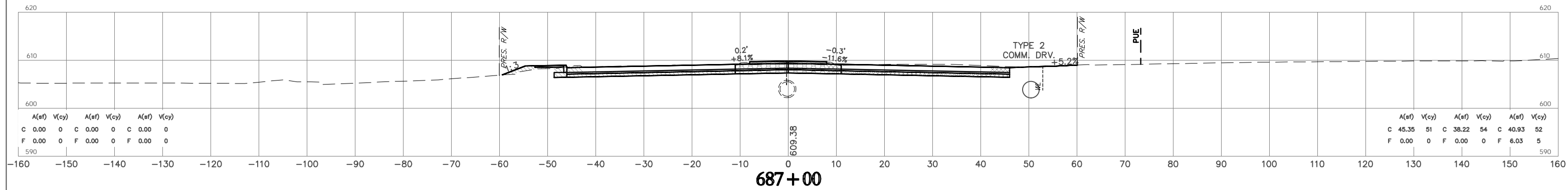
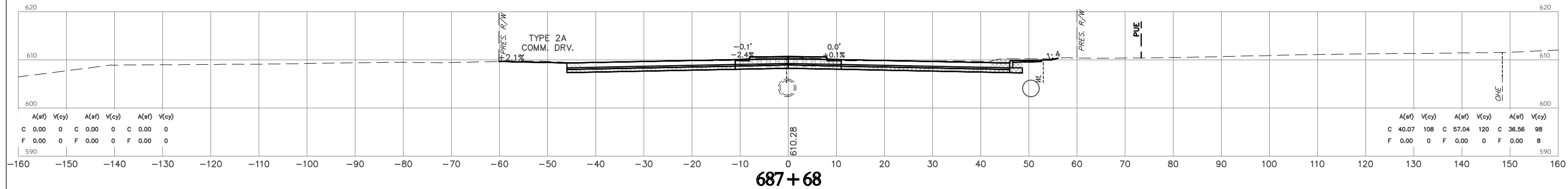
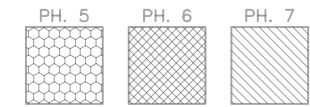
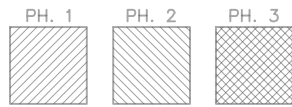
SHEET NO. X060





**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

HUB E n g i n e e r s  
Time of Plot: 11/21/2023 2:51 AM Plot Style: HP9050MCTB  
G:\2024\001\059\059\059\Production Plans\07106.DWG - CROSS SECTIONS - Mainline\_Plot.dwg

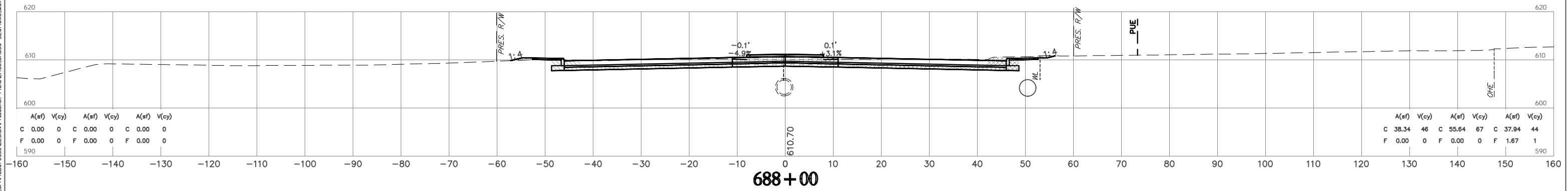
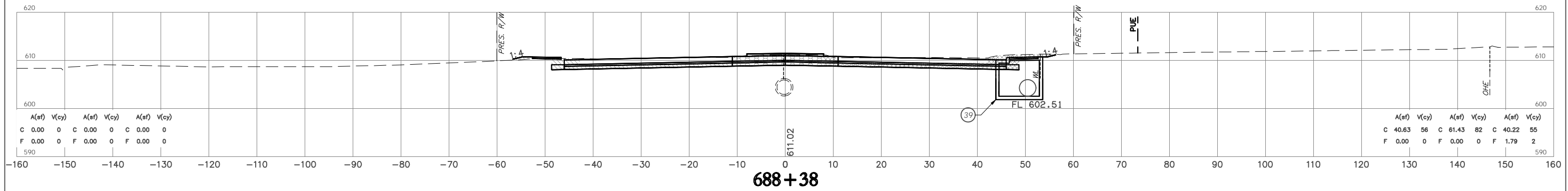
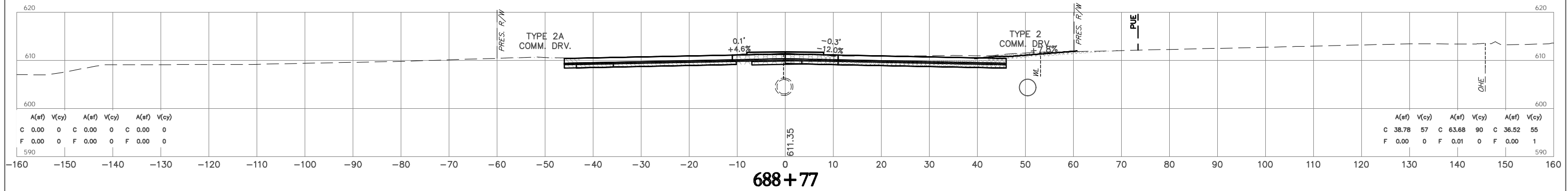
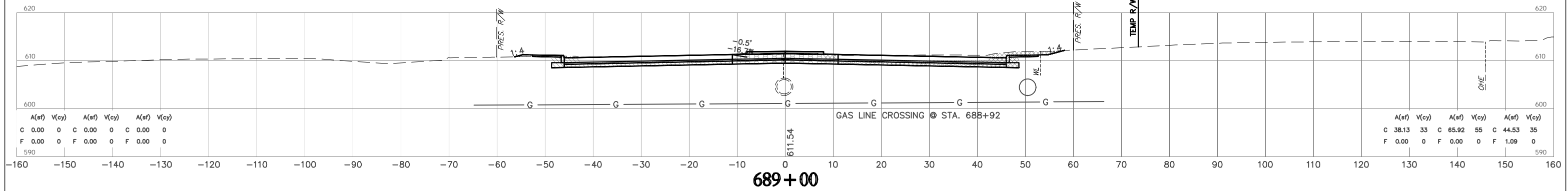
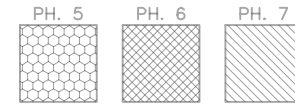
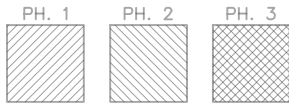


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X062

HUB E n g i n e e r s  
11/21/2023 2:51 AM Plt. Svm. HPR050MCTB  
G:\2024\001\059\059\059\Production Plans\07108\059\SECTIONS\Midline\_Plot.dwg



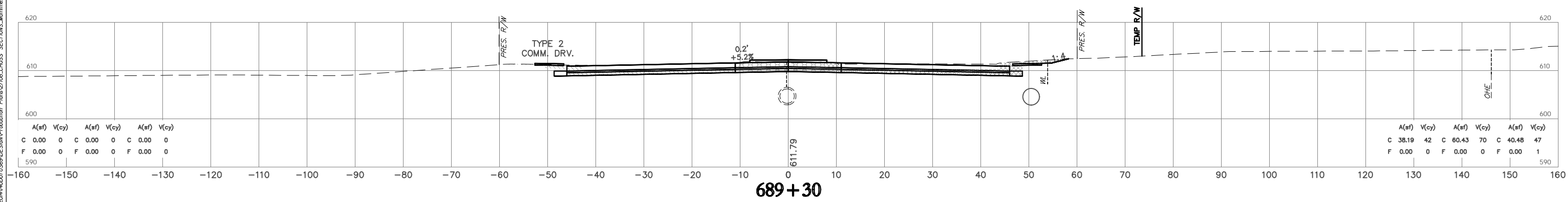
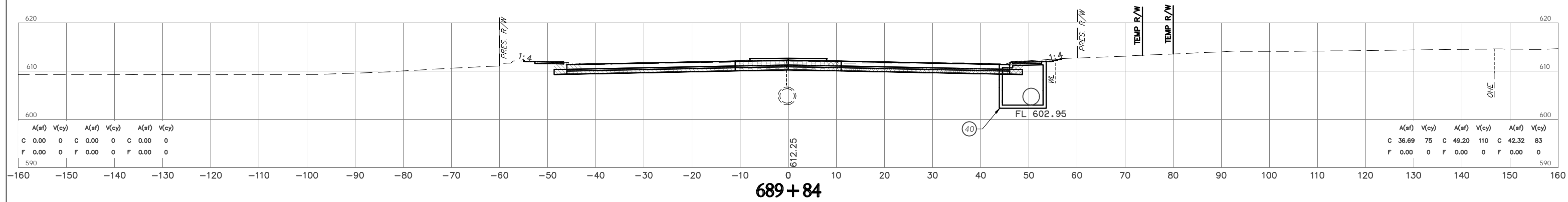
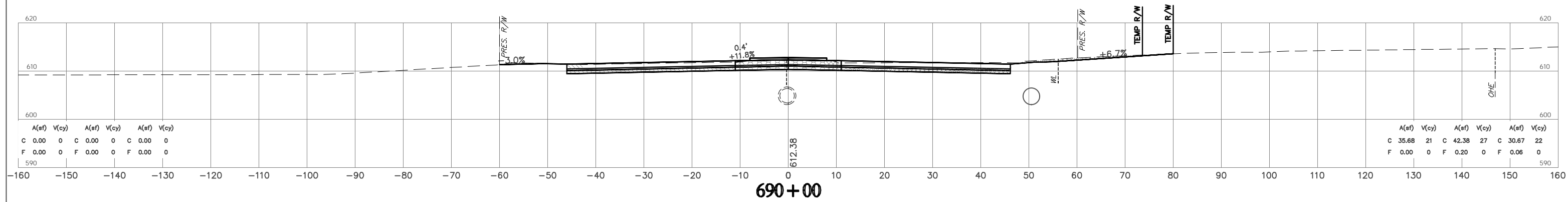
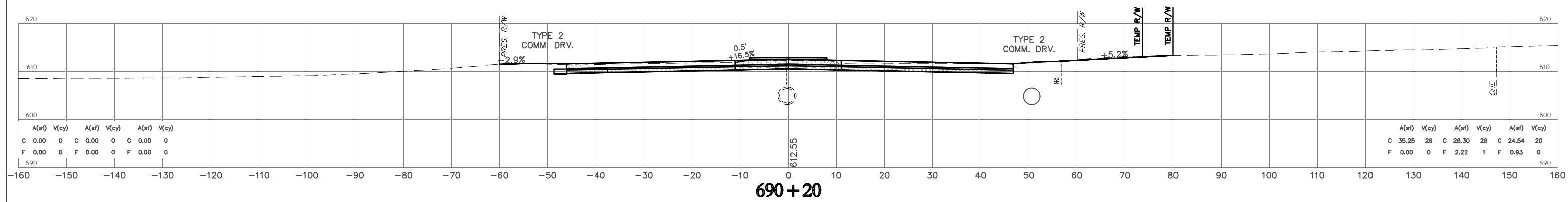
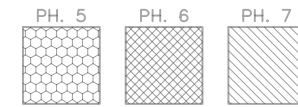
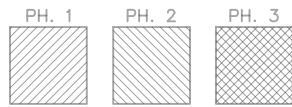
**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY

SHEET NO. X063

HUB E n g i n e e r s  
Time of Plot: 11/21/2023 2:51 AM Plot Style: HP0650MCTB  
G:\2024\007108\0650MCTB\Production Plans\02\0650.CROSS\_SECTIONS\Midline\_Plot.dwg

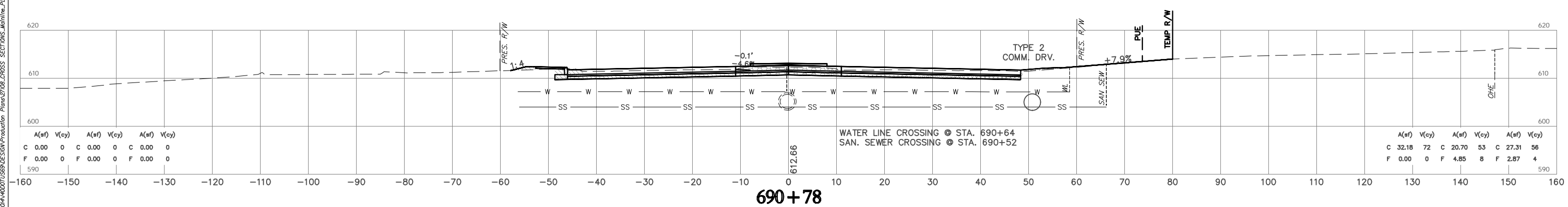
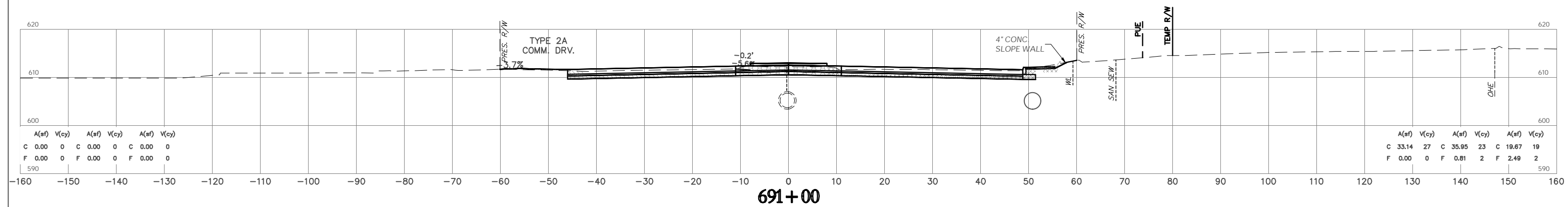
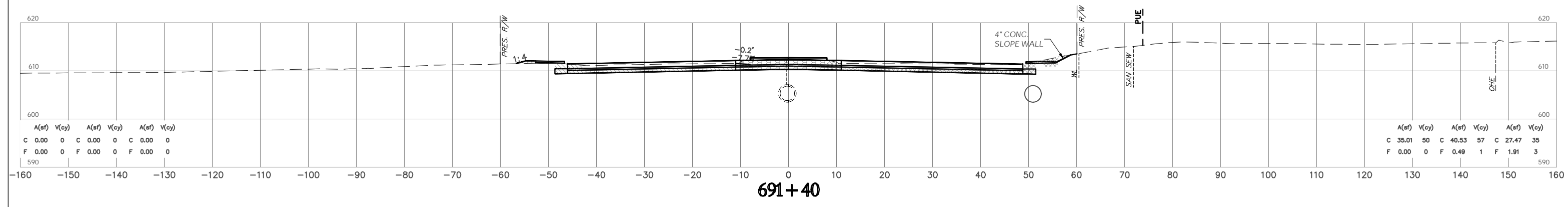
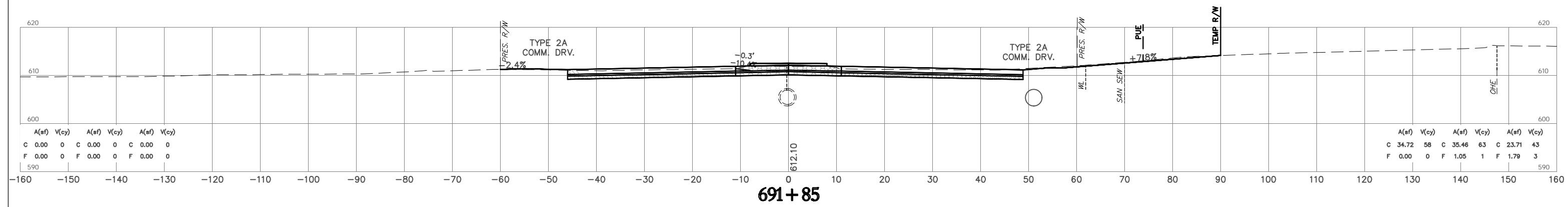
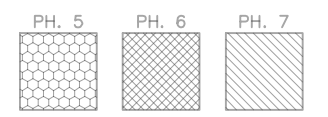
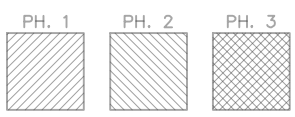


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

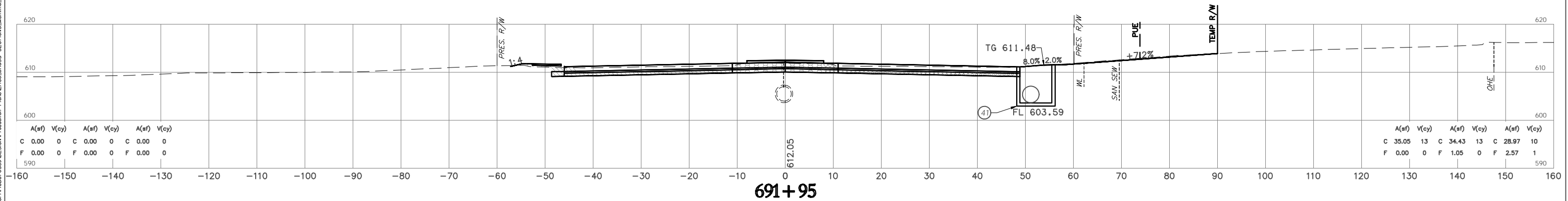
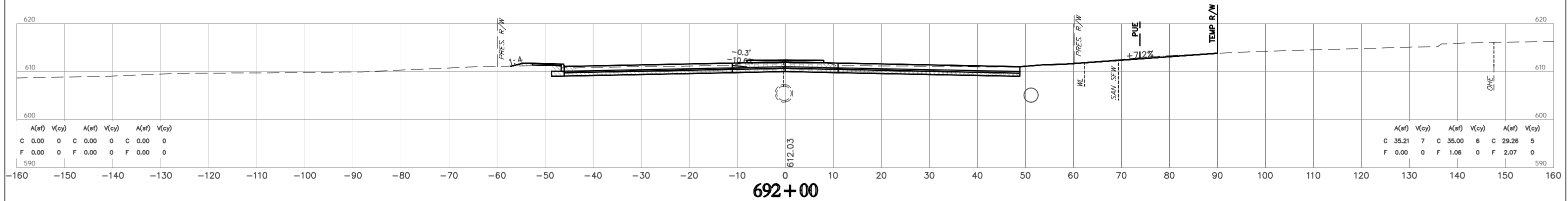
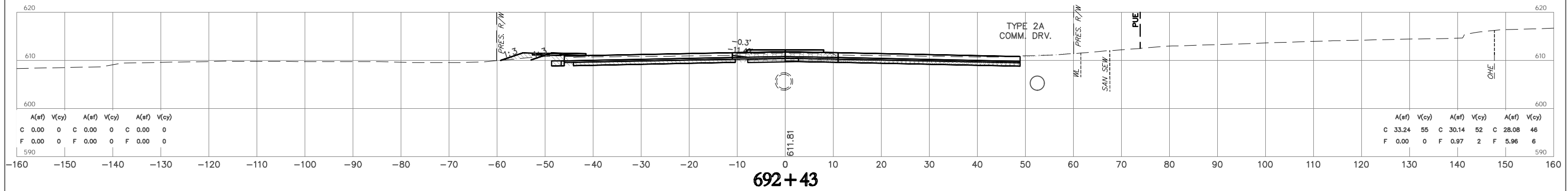
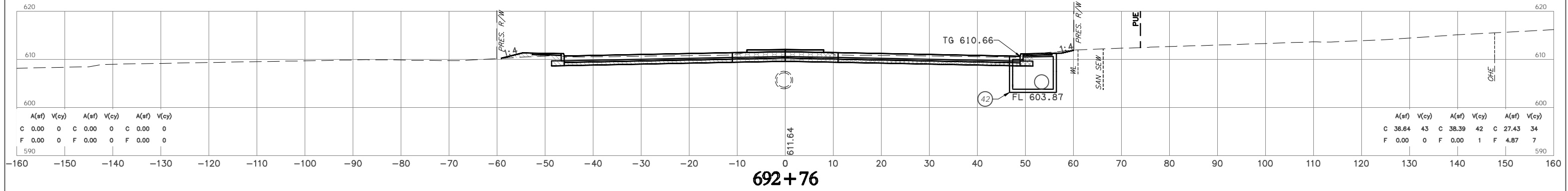
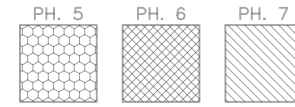
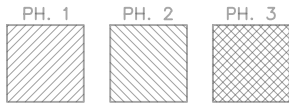
STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X064

HUB E n g i n e e r s  
Time of Plot: 11/21/2023 2:51 AM Plot Style: HP0650MCTB  
G:\2024\007\059\059\Production Plans\02\06\_CROSS\_SECTIONS\Mchline\_PLOT.dwg



**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

HUB E n g i n e e r s  
Time of Plot: 11/21/2023 2:52 AM Plot Style: HP6150MCTE  
G:\2024\001\059\059\059\Production Plans\27108\06\_CROSS SECTIONS\Mch\Title\_Plot.dwg

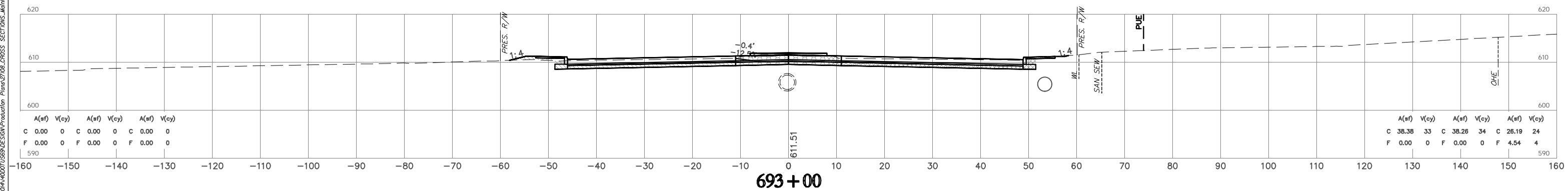
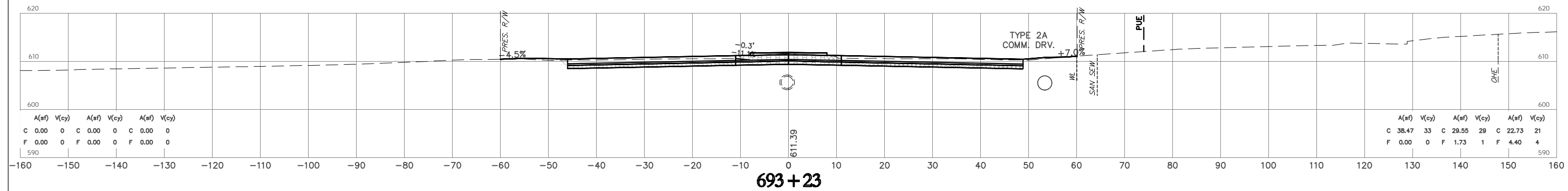
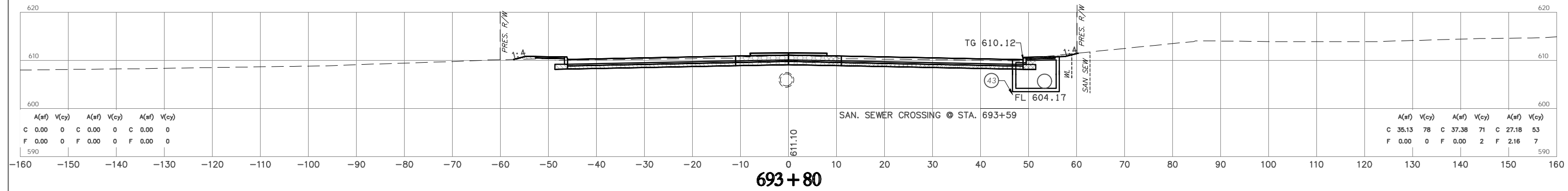
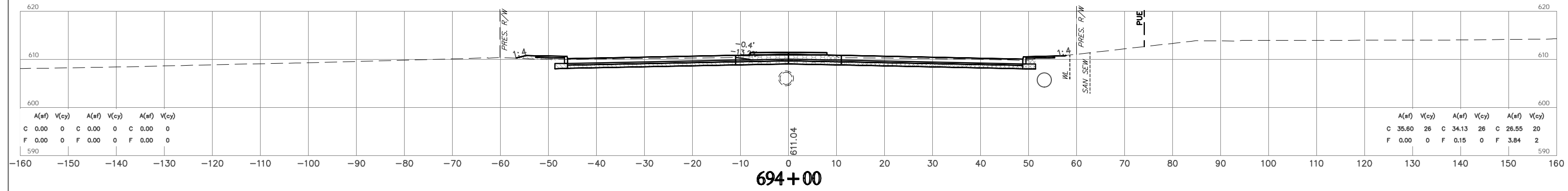
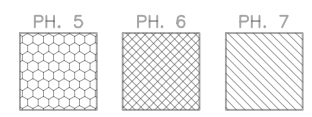
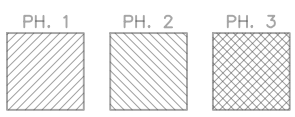


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X066

HUB E n g i n e e r s  
Time of Plot: 11/21/2023 2:52 AM Plot Style: HPB150MLT1E  
G:\2024\007108\04\06\01\Production\Plan\27108\_CROSS\_SECTIONS\Mch19a\_PLOT.dwg



**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

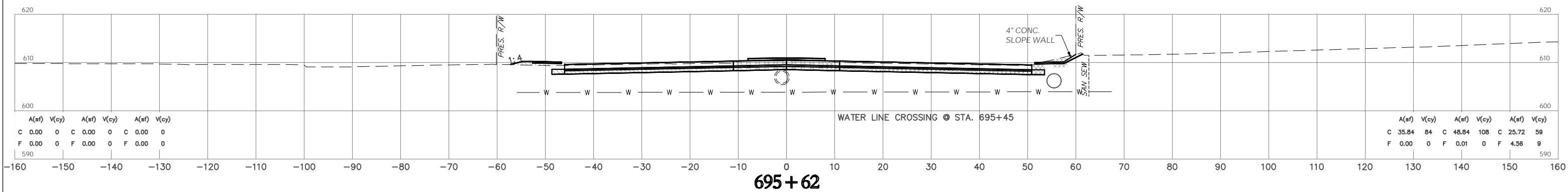
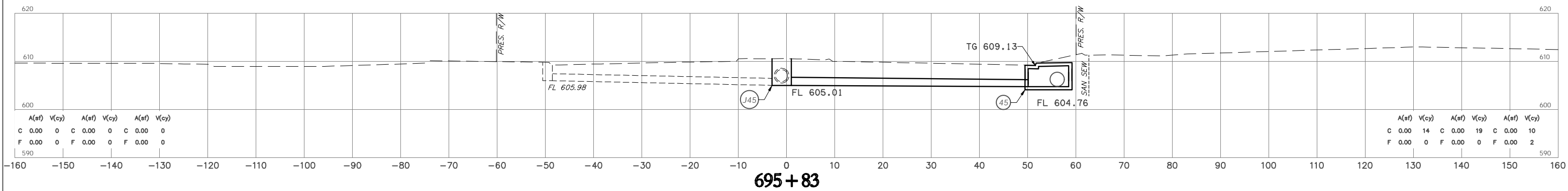
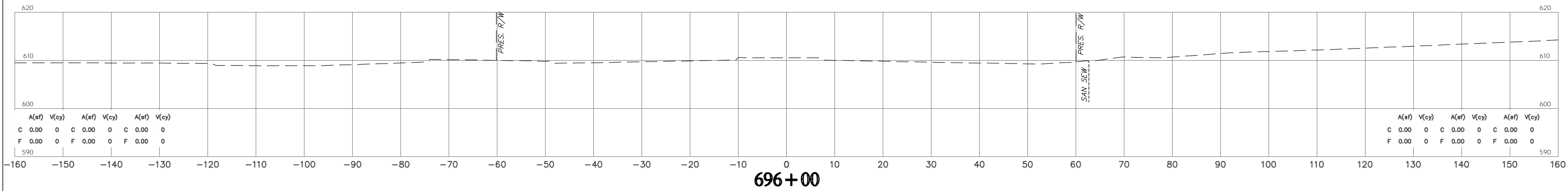
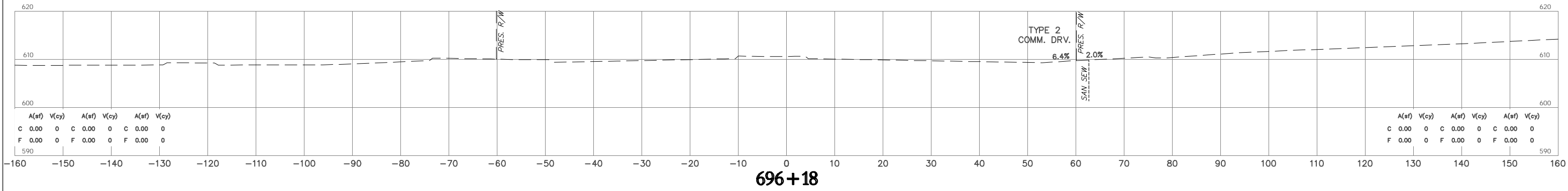
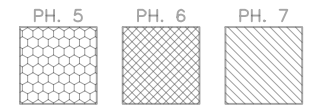
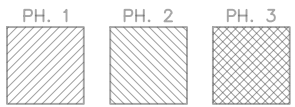
U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X067

HUB E n g i n e e r s  
Time of Plot: 11/21/2023 2:53 AM Plot Style: HPS150MCTB  
G:\2024\001\059\059\Sanitary\Production\Plans\27108\_CROSS\_SECTIONS\_Mechline\_PLOT.dwg





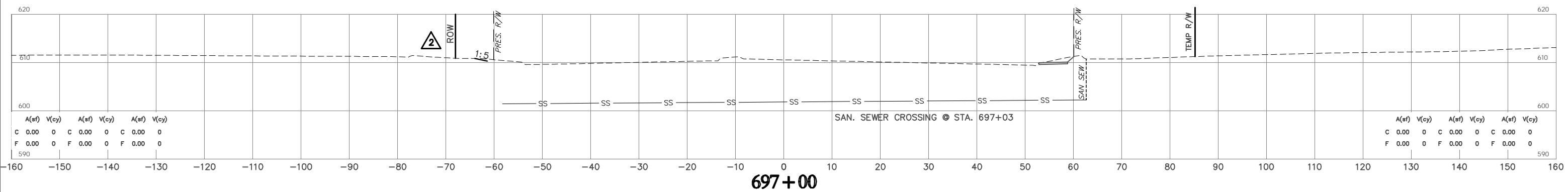
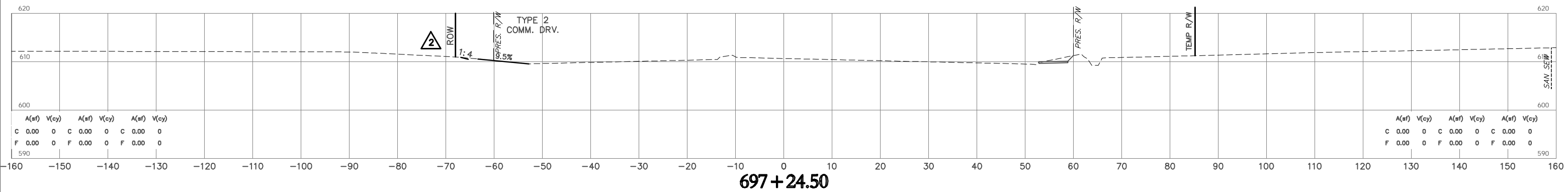
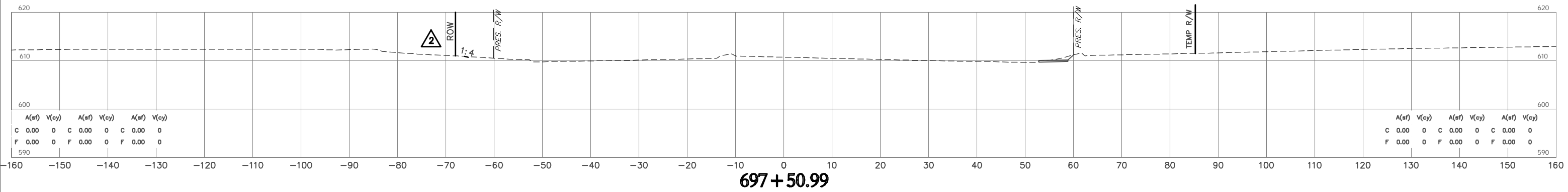
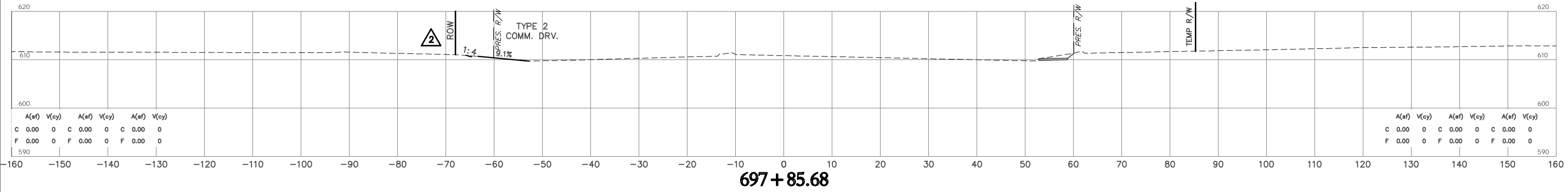
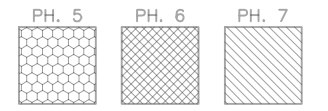
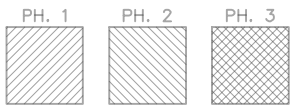


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X069

H:\B\_E\_n\_g\I\_n\_g\_e\_r\_s\Time of Plot: 11/21/2023 2:53 AM Plot Style: HP9510MUTB (S:\2024\007108\04\Production\Plan\27108.X069.DWG) SECTIONS: Mainline\_PLOT.dwg

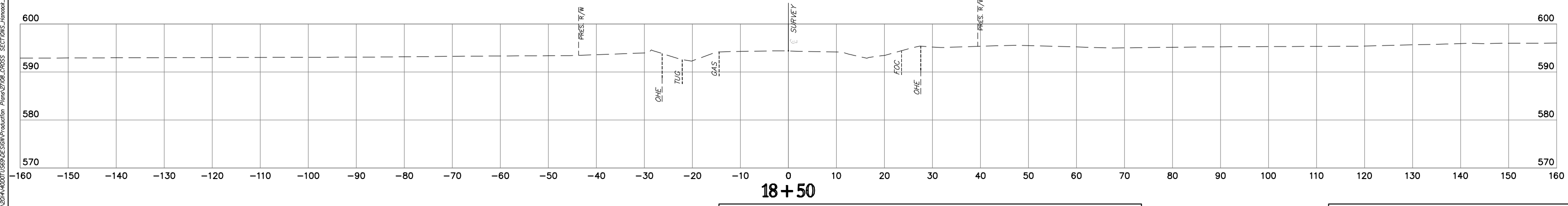
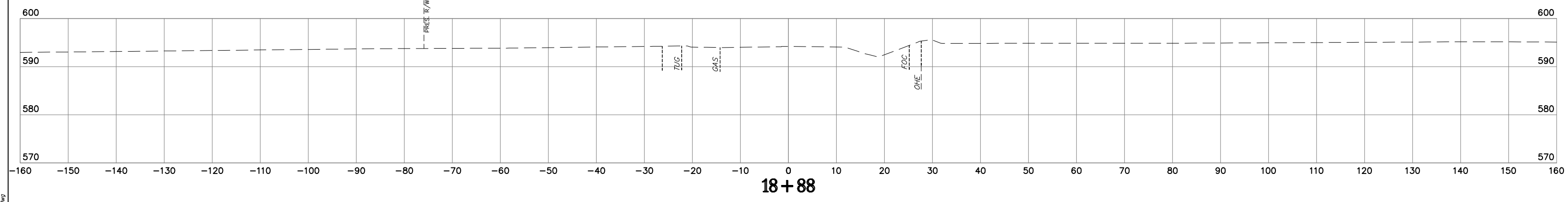
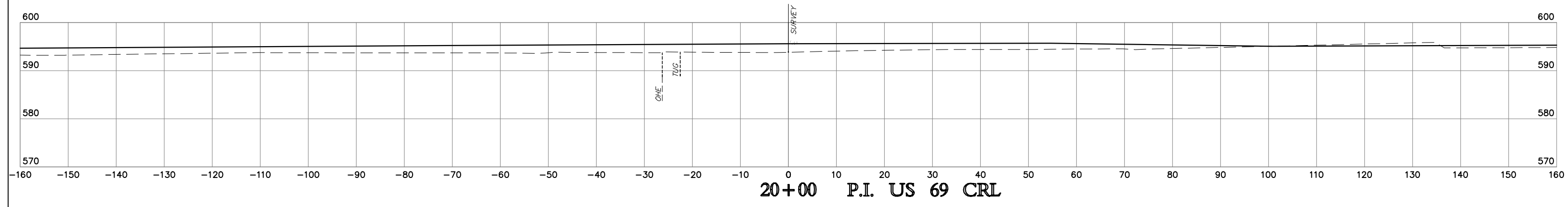
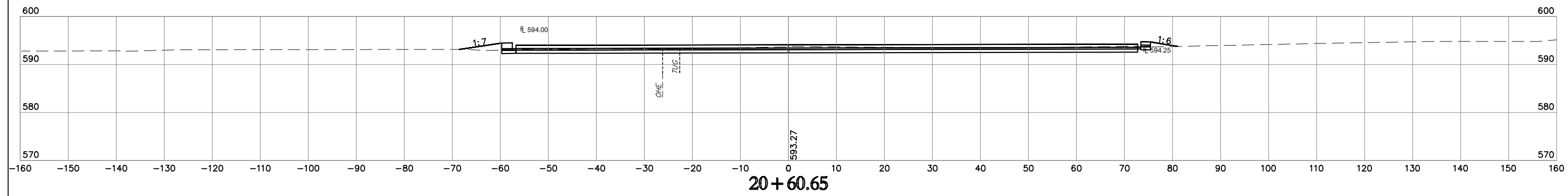


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

U.S. HWY. 69

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X070

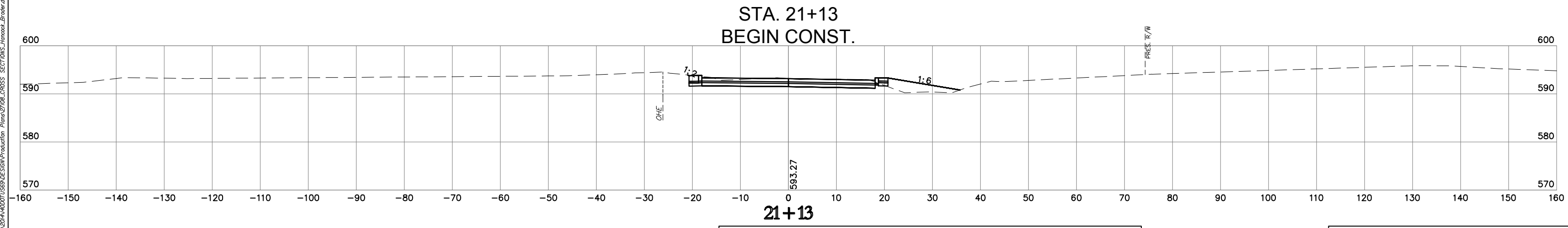
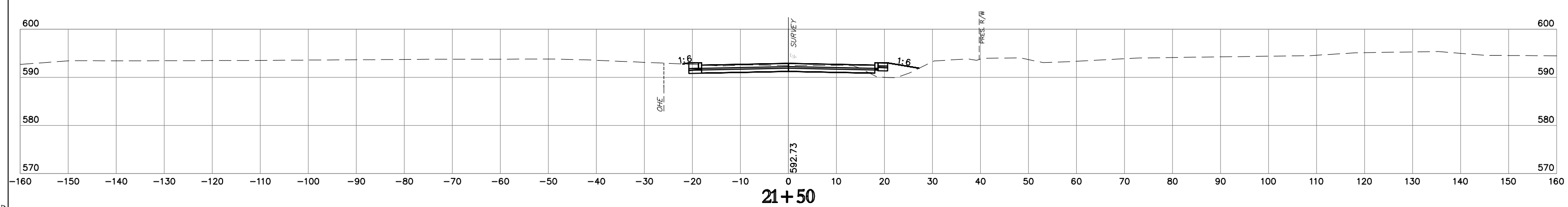
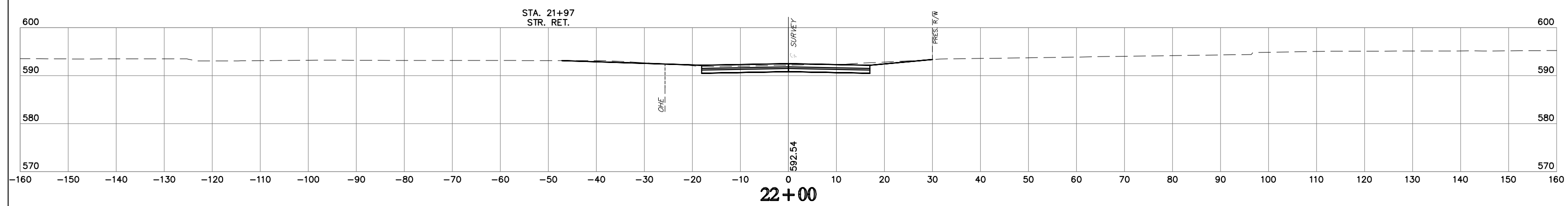
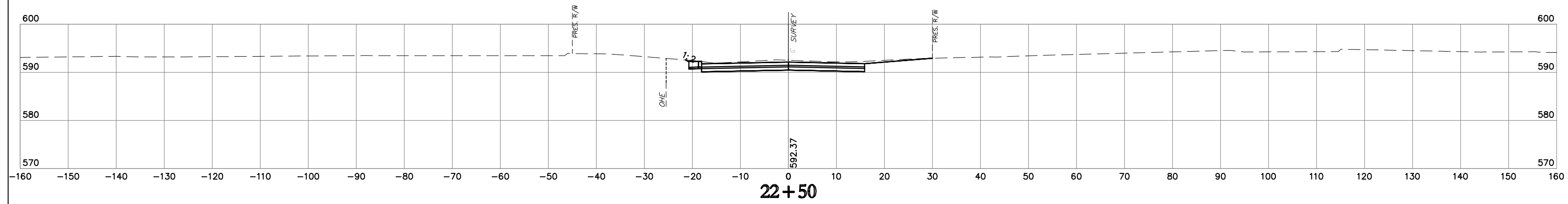
H:\B E n s i n e s s \Time of Plot: 11/21/2023 4:23 PM Plot Style: HPB50MCTB (G:\CH44\44071059\059\059\Production Plans\27108.DWG) SECTIONS\_Midline\_PLOT.dwg



**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

HUB Engineering  
 17100 N. 112th St., Suite 100  
 Oklahoma City, OK 73158  
 (405) 444-0001



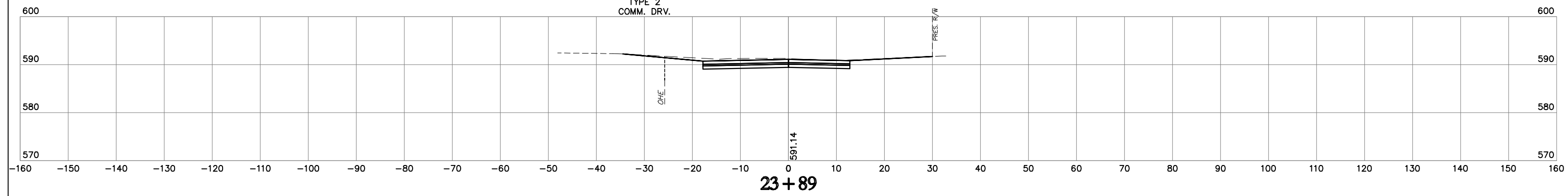


**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
 DEPTH OF UTILITIES IS UNKNOWN.

HUB ENGINEERS  
 11/22/2023 11:23 AM Plt. Style: HP90100CTB  
 (S:\2024\001\059\02\01\Production\Plan\27108.X072\_SECTION\_HANCOCK\_Border.dwg)

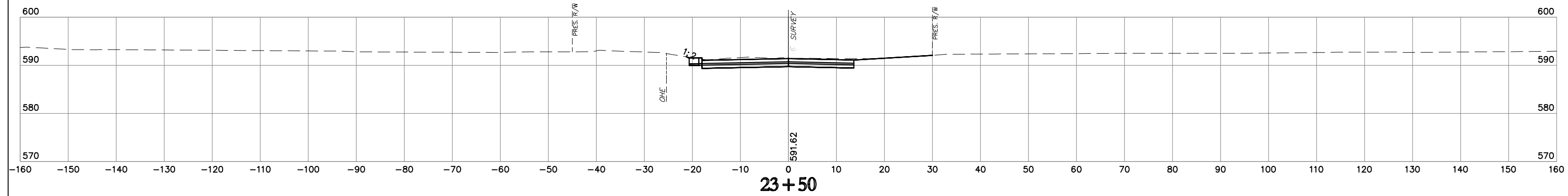


STA. 23+89  
TYPE 2  
COMM. DRV.



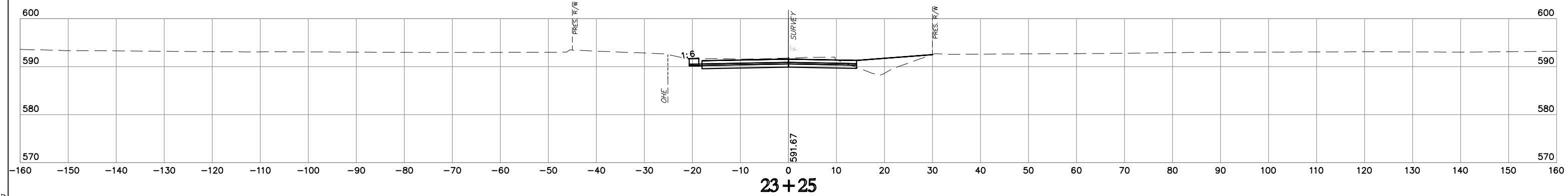
**23 + 89**

1.2



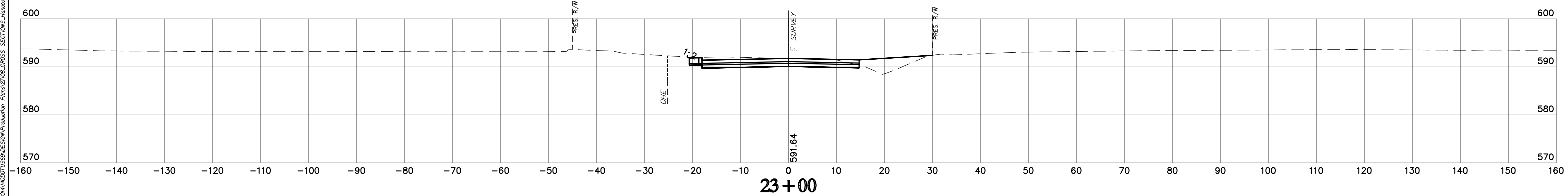
**23 + 50**

1.6



**23 + 25**

1.2



**23 + 00**

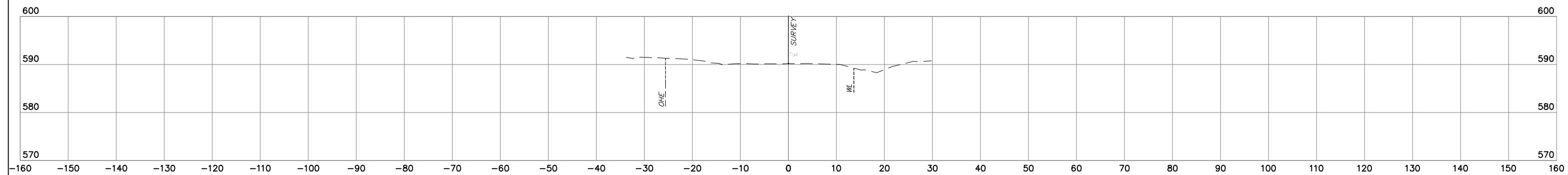
**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

W. HANCOCK RD.

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X073

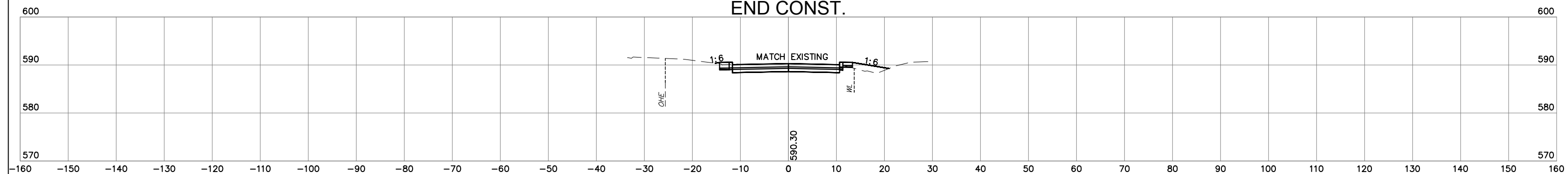
H:\B E n g i n e e r s  
Time of Plot: 11/22/2023 11:23 AM Plot Style: HRA100.DCTB  
G:\2024\001\059\059\059\Production\Plan\27108(04)\_PRESS\_SECTION\Hansett\_Broder.dwg





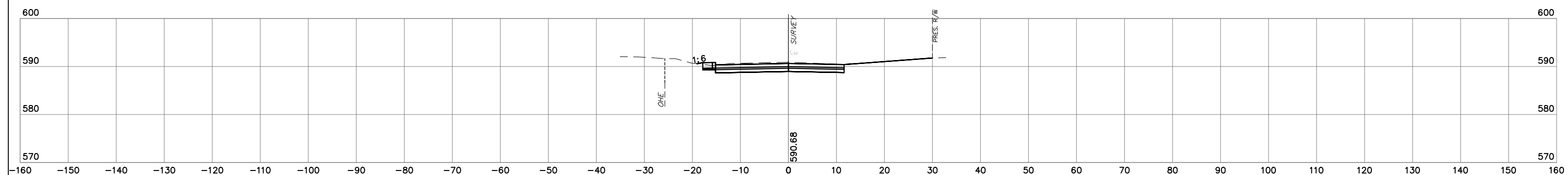
**25+00**

**STA. 24+95  
END CONST.**



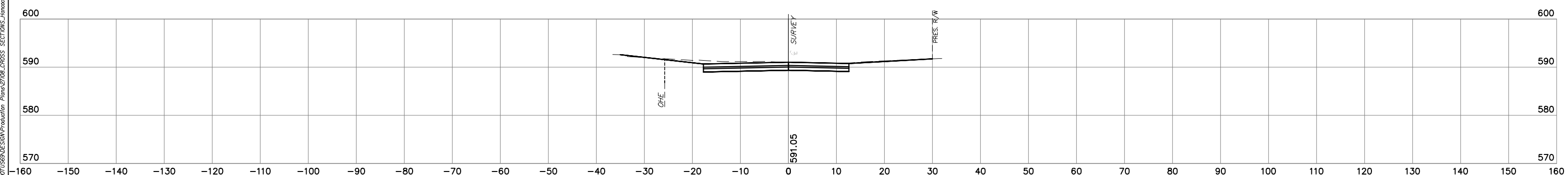
**24+95**

590.30



**24+50**

590.68



**24+00**

591.05

**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

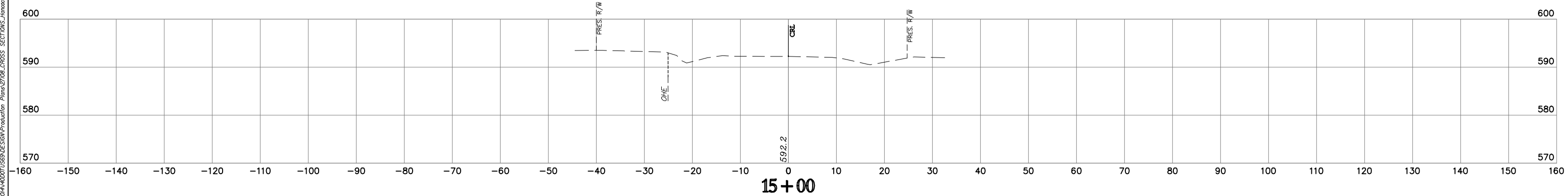
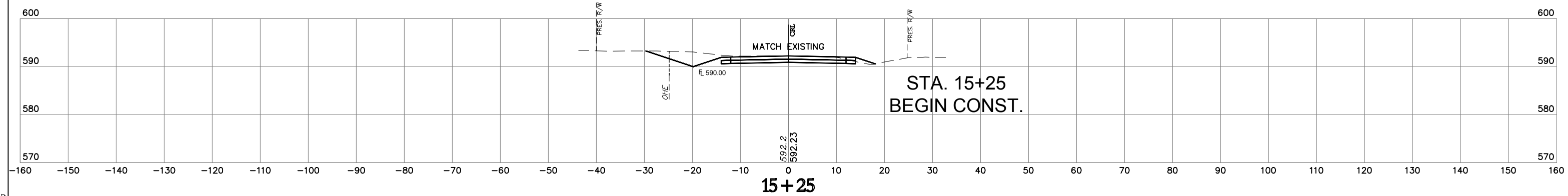
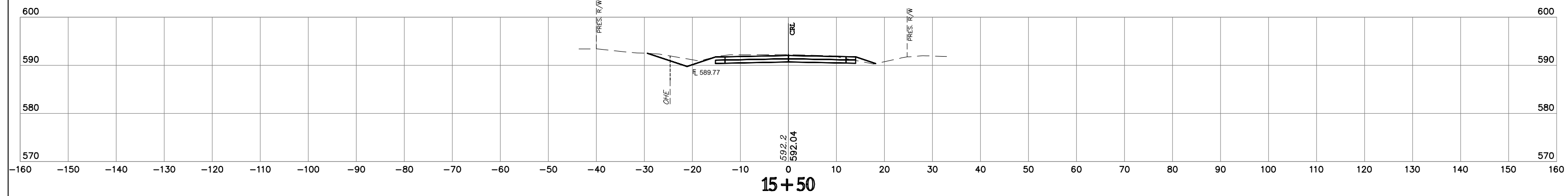
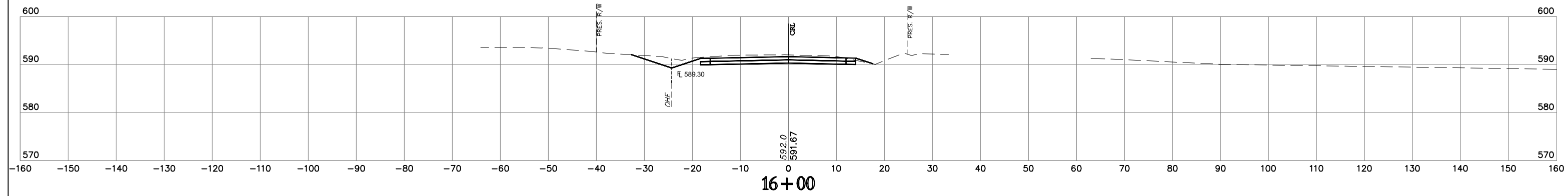
W. HANCOCK RD.

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X074

HUB Engineering  
17 hrs of Plot: 11/22/2023 11:24 AM Plot Style: IPR0101CTB  
I:\2024\001\059\02\Station\Production\Plans\27108\_P055\_SECTION10.W. Hancock\_Border.dwg



**FINAL FIELD MEETING**  
OCTOBER 2023



**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

BORDER AVE.

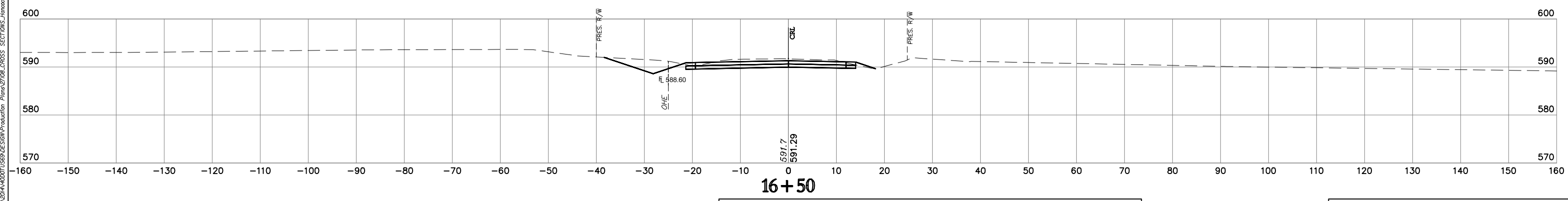
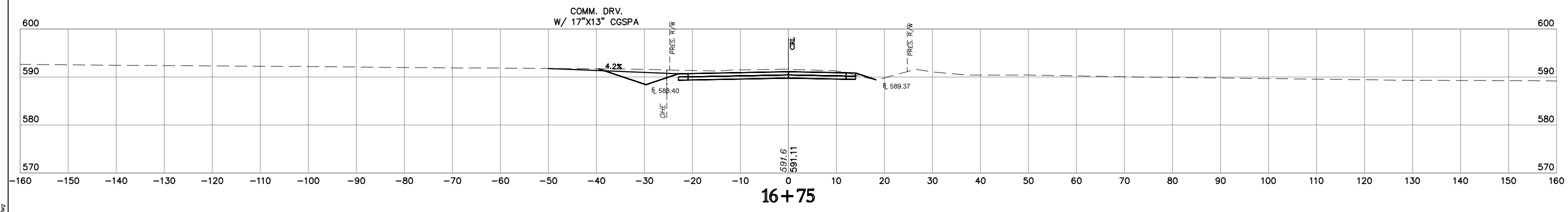
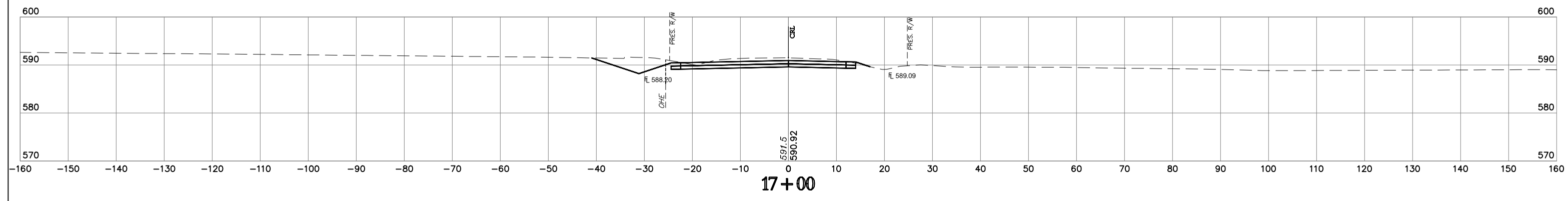
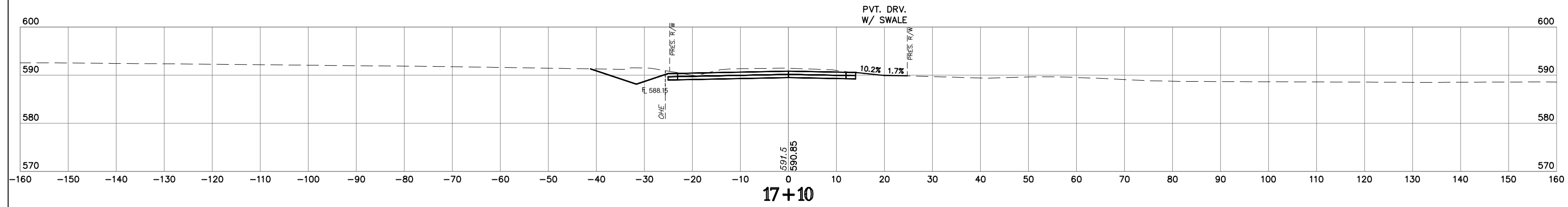
STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X075

H:\B\_E\_n\_g\_i\_n\_e\_e\_r\_s\Time of Plot: 11/22/2023 11:25 AM Plot Style: IPR010.DCTB  
G:\2024\007108\04\0001\Production\Plan\27108\_P05-SECTIONS\_Horiz.dwg



# FINAL FIELD MEETING

OCTOBER 2023



**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE. DEPTH OF UTILITIES IS UNKNOWN.

BORDER AVE.

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X076

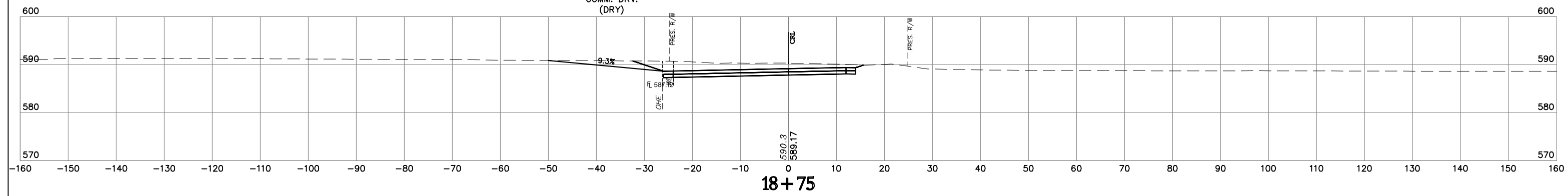
HUB E n g i n e e r s  
17100 N. 112th St., Edmond, OK 73116  
(405) 440-0100



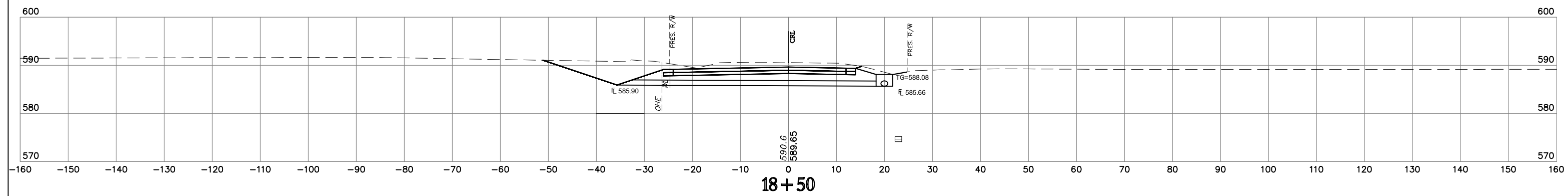


**FINAL FIELD MEETING**  
OCTOBER 2023

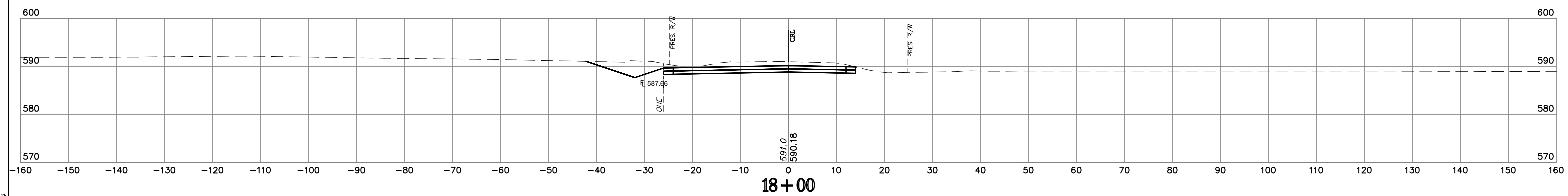
COMM. DRV.  
(DRY)



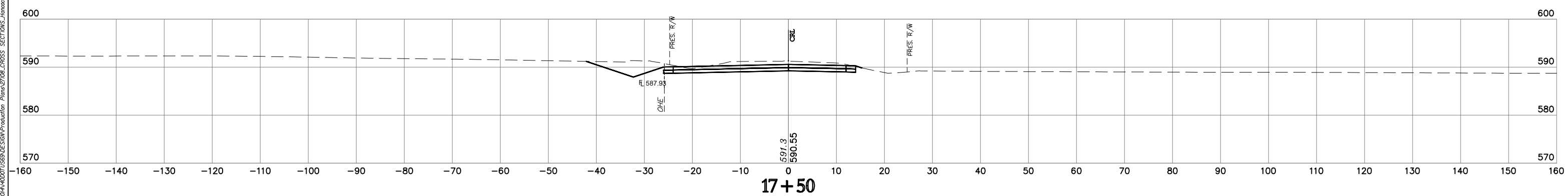
**18+75**



**18+50**



**18+00**



**17+50**

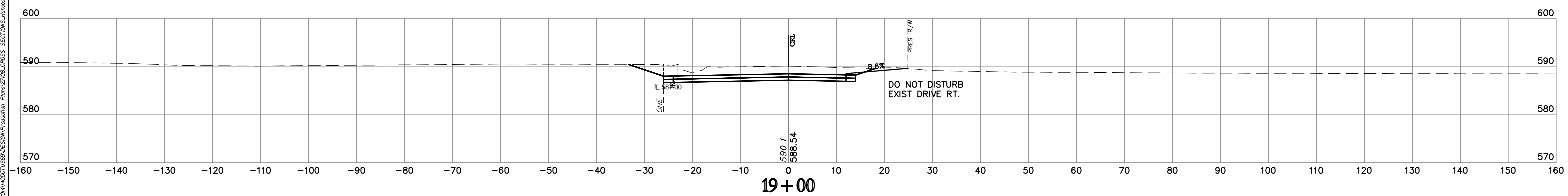
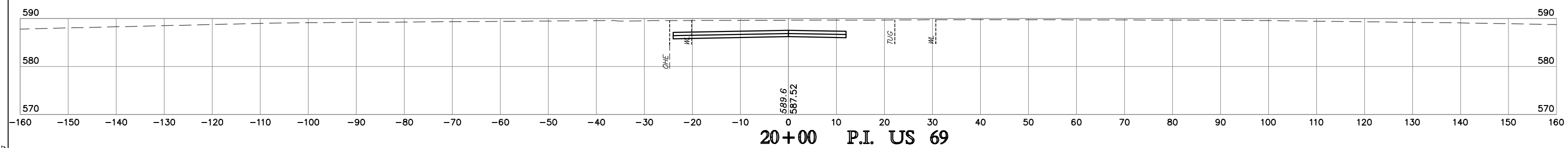
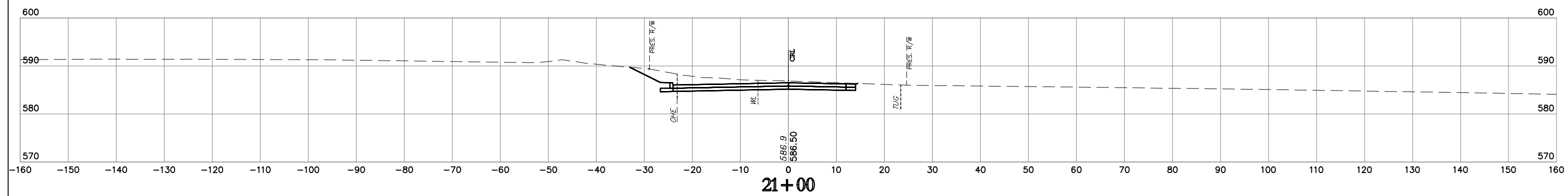
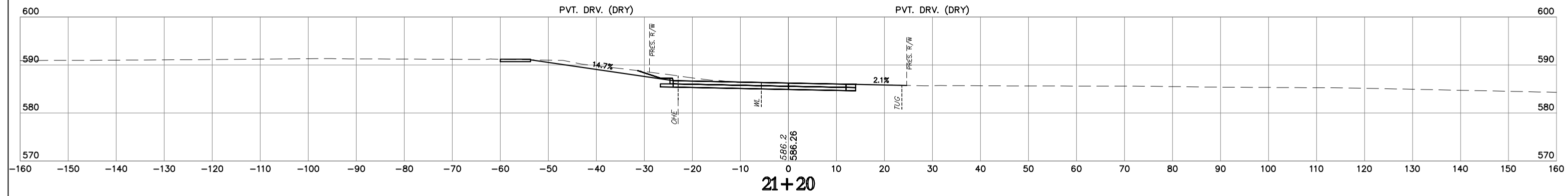
**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

BORDER AVE.

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X077

H:\B\_E\_n\_g\_i\_n\_g\_e\_r\_s\Time of Plot: 11/22/2023 11:06 AM Plot Style: HPR01DICTP (S:\CH44\0071059\059\059\Production\Plan\27108\_CROSS\_SECTIONS\Hpr01\_Border.dwg)





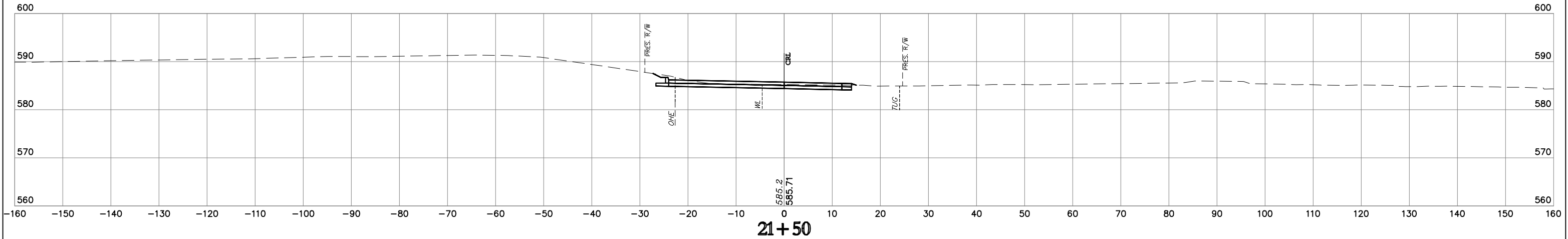
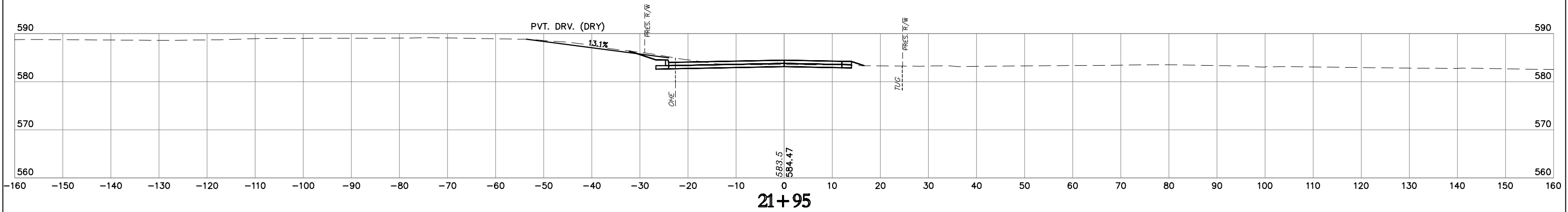
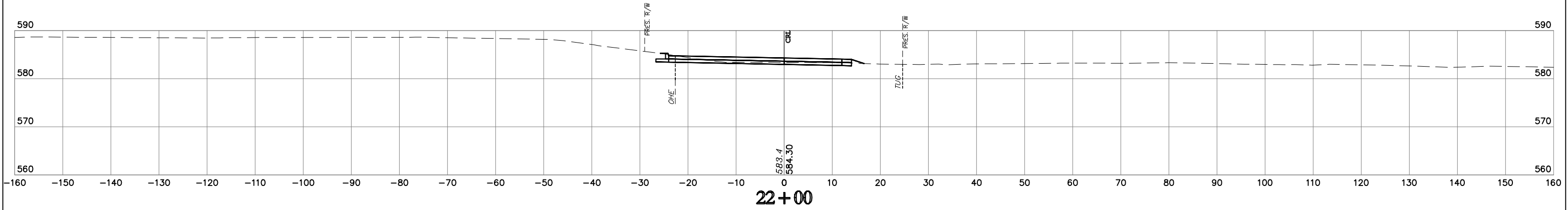
**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

BORDER AVE.

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X078

H:\B\_E\_n\_g\_l\_i\_n\_e\_s\11/22/2023 11:27 AM Plt Styls HPR\BOLCTB  
17.ms of Plot: 11/22/2023 11:27 AM Plt Styls HPR\BOLCTB  
17.ms of Plot: 11/22/2023 11:27 AM Plt Styls HPR\BOLCTB  
17.ms of Plot: 11/22/2023 11:27 AM Plt Styls HPR\BOLCTB





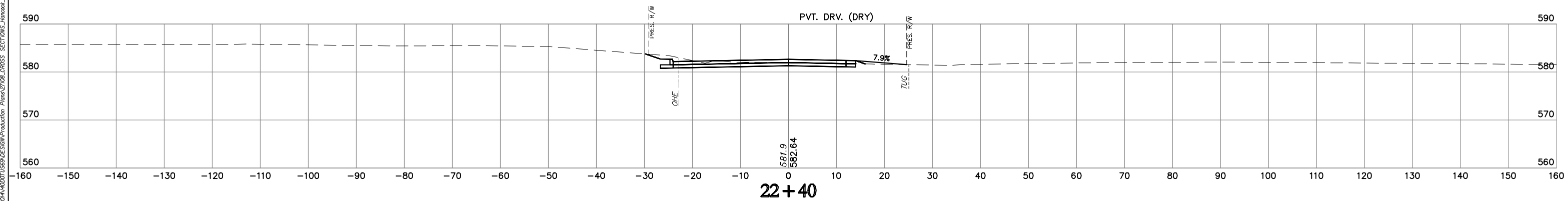
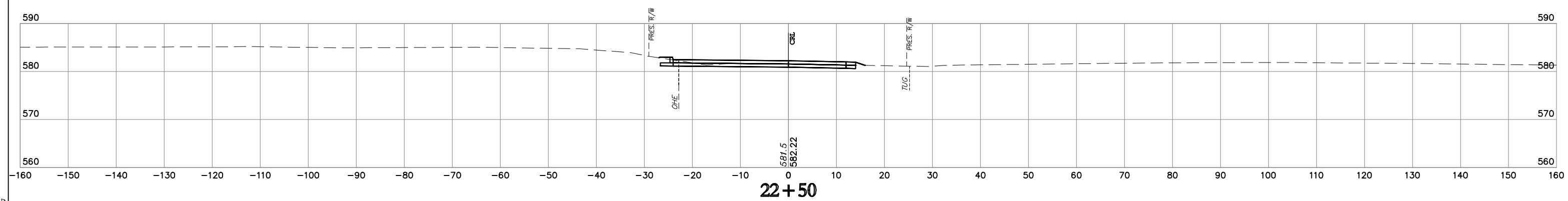
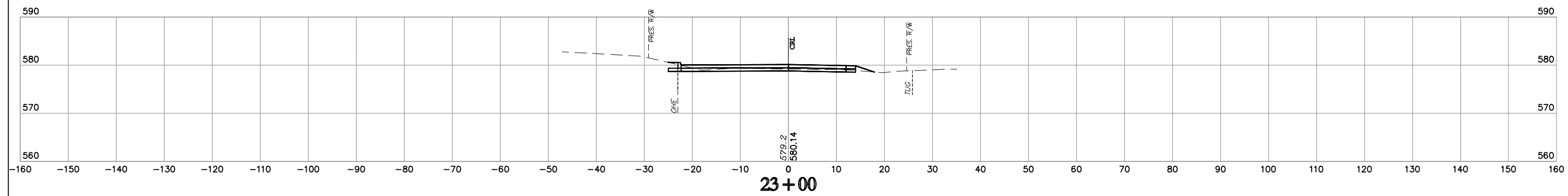
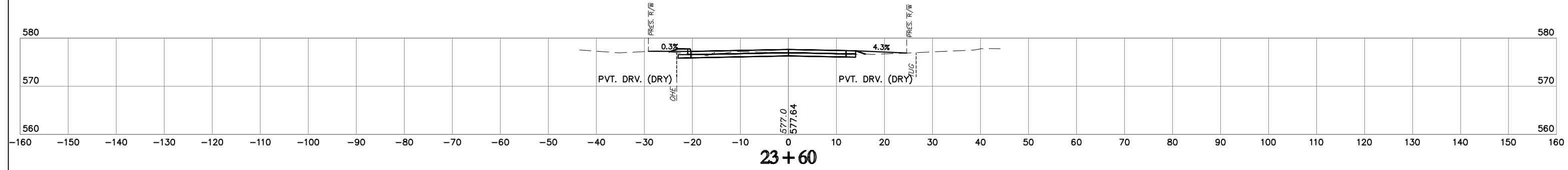
**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

BORDER AVE.

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X079

HUB E n g i n e e r s  
 1710 N. W. 117th St., Suite 100, Edmond, Oklahoma 73116  
 (405) 241-1171





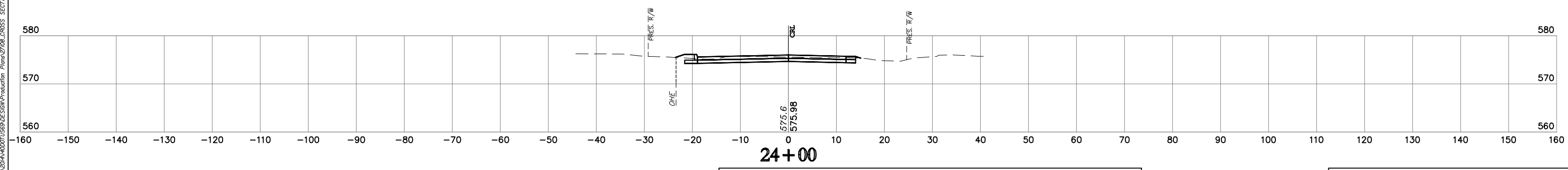
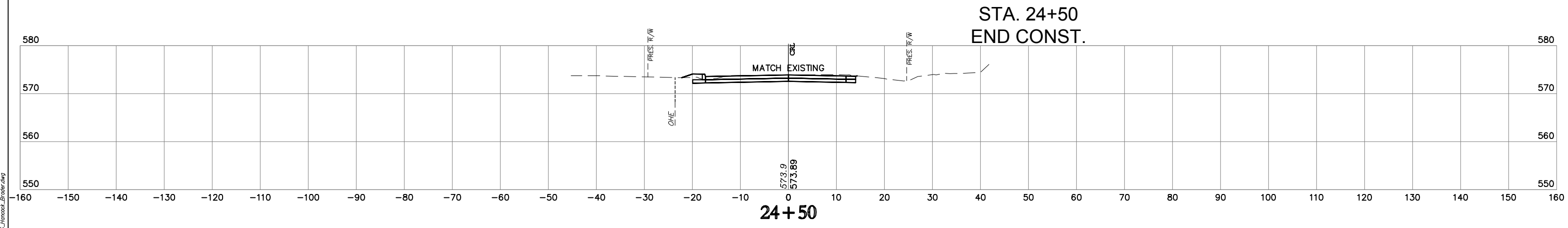
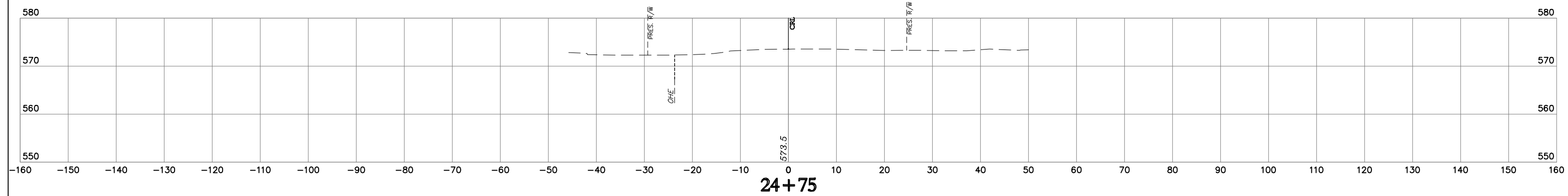
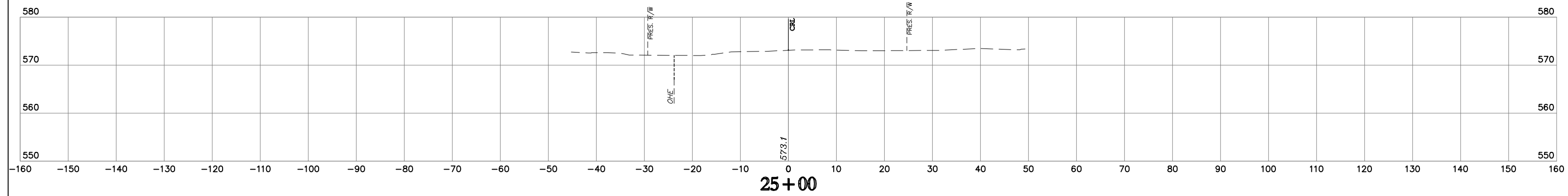
**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

BORDER AVE.

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X080

H:\B\_E\_n\_g\_i\_n\_e\_e\_r\_s\171ms\_of\_Plan\_11/22/2023\_11:27 AM\_Plot\_Style\_HR\BORDER.ctb  
S:\2024\44001\059\02\station\production\Plans\27108.X080\_SECTION\H08001\_Border.dwg





**NOTE:** LOCATION OF UTILITIES ARE APPROXIMATE.  
DEPTH OF UTILITIES IS UNKNOWN.

BORDER AVE.

STATE JOB NO. 27108(04)  
MUSKOGEE COUNTY SHEET NO. X081

HUB Engineering, Inc. 11/22/2023 11:29 AM Plot Style: HPBOLDCTB  
C:\Users\jgordon\OneDrive\Documents\Production\27108(04)\27108(04)\_PROSS\_SECTIONS\_Hubbold\_Plotter.dwg

