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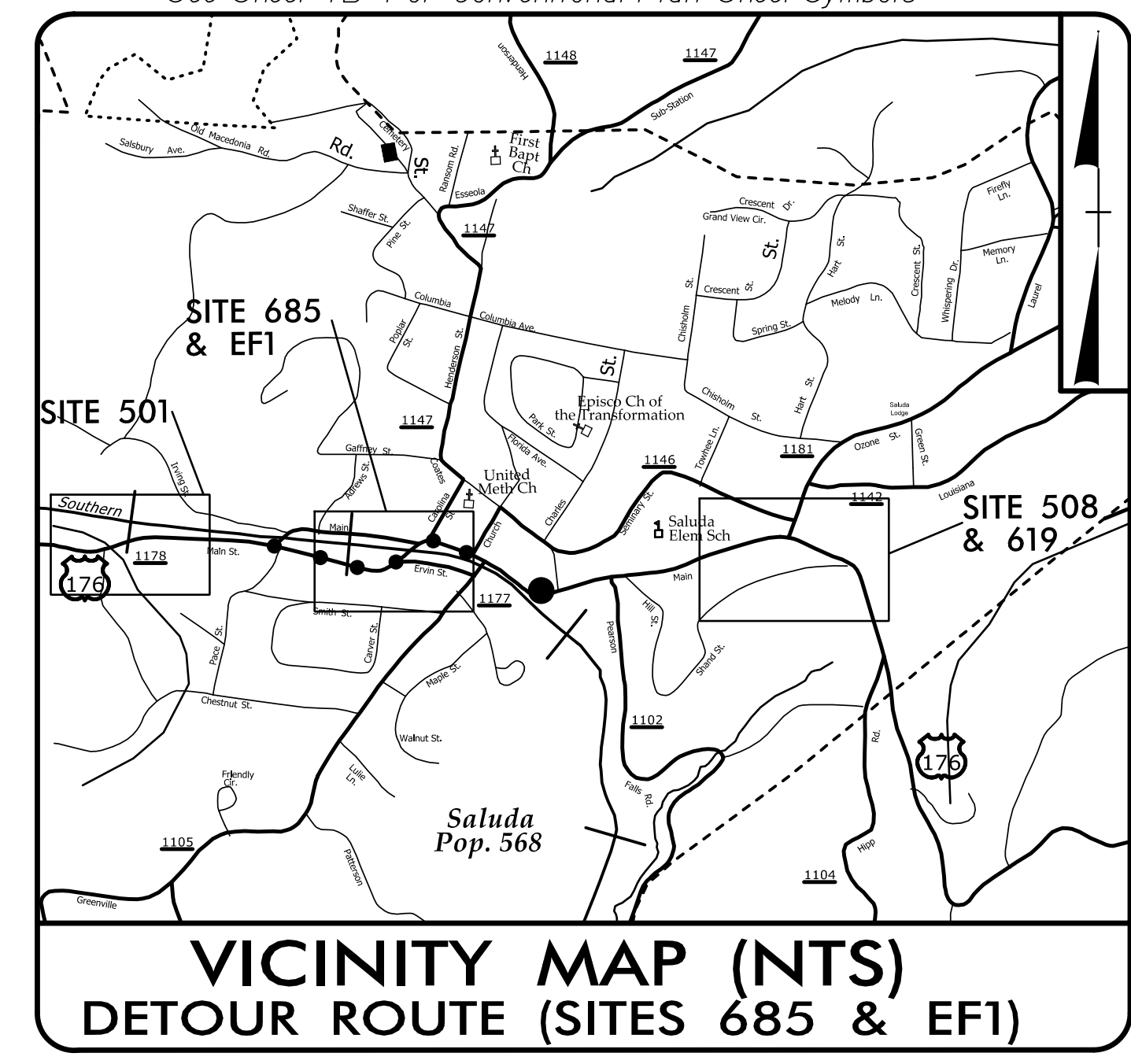
09/08/19

12/3/2025 X:\NCDOT\Div 14 US 176 Repair\Roadway\Design\Town Plan Sheets\Title_Typicals_Details_Summaries\US176 Town Sites_Rdy_+sh.dgn User:smelvin

PROJECT: 18314.1075011

CONTRACT: DN01143

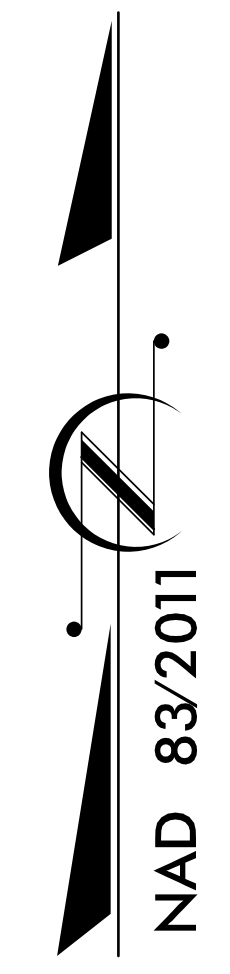
See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Plan Sheet Symbols



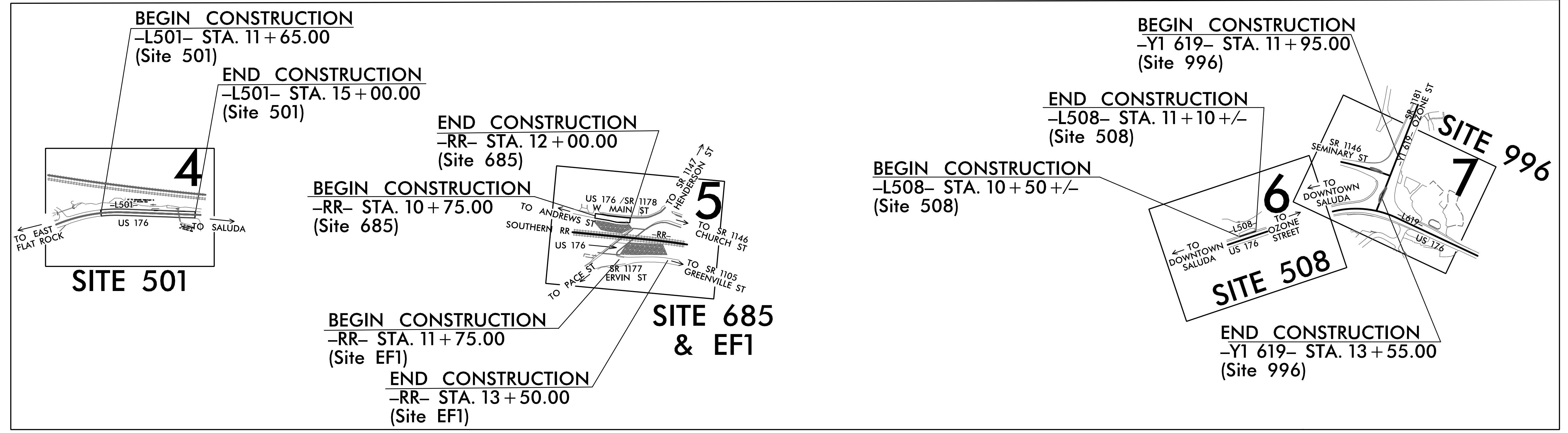
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
POLK COUNTY

LOCATION: US 176

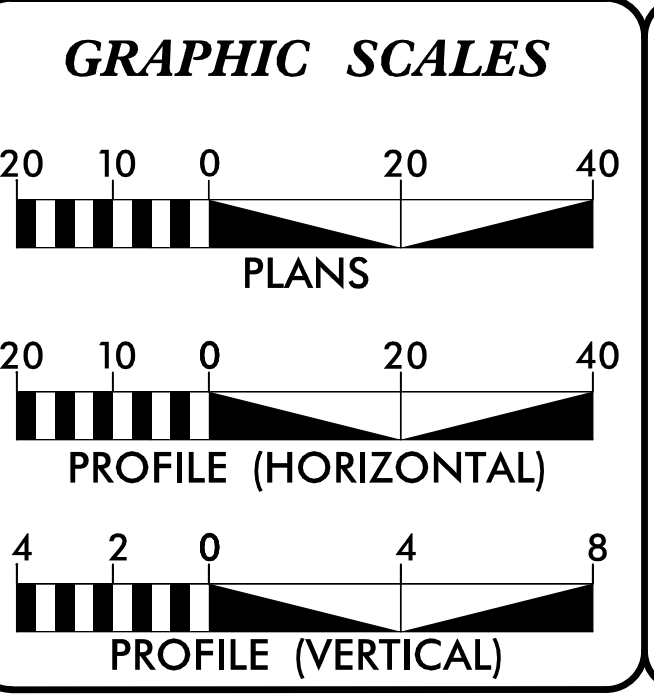
TYPE OF WORK: GRADING, DRAINAGE, & PAVING



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	18314.1075011	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
18314.1075011		501	
DF18314.2075136		685	
DF18314.2075138		EF1	
18314.1075012		508	
52114		996	



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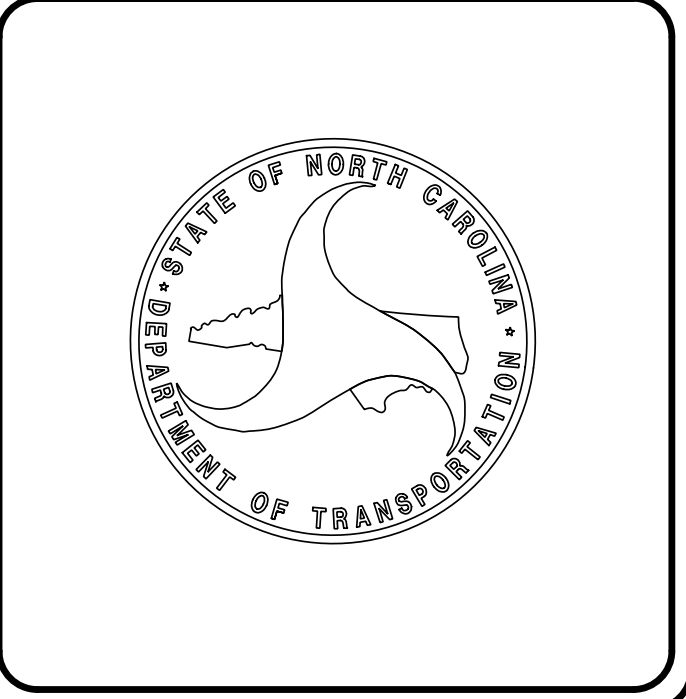
DESIGN DATA
ADT 2025 = 1,230
ADT 2050 = 1,570
V = 60 MPH
FUNC CLASS = MAJOR COLLECTOR REGIONAL TIER

PROJECT LENGTH
LENGTH OF SITE 501 ROADWAY PROJECT = 0.063 MILES
LENGTH OF SITE 685 ROADWAY PROJECT = 0.024 MILES
LENGTH OF SITE EF1 ROADWAY PROJECT = 0.033 MILES
LENGTH OF SITE 508 ROADWAY PROJECT = 0.011 MILES
LENGTH OF SITE 996 ROADWAY PROJECT = 0.030 MILES

TOTAL LENGTH OF DIV 14 US176 TOWN SITES REPAIR = 0.161 MILES

NCDOT CONTACT: JEANETTE WHITE, PE
PLANS PREPARED BY: TGS ENGINEERS, 201 W. MARION ST., STE 200, SHELBY, NC 28150, PH (704) 476-0003, CORP. LICENSE NO. C-0275
PLANS PREPARED FOR: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION, DIVISION 14, 252 Webster Rd, Sylva, NC 28779
RIGHT OF WAY DATE: AUG. 22, 2025
LETTING DATE: JAN 13, 2026
2024 STANDARD SPECIFICATIONS

HYDRAULICS ENGINEER
12/4/2025
Signed by: John W. Twisdale, Jr., P.E.
ROADWAY DESIGN ENGINEER
12/3/2025
Signed by: Jimmy L. Terry, P.E.



05/20/24

Note: Not to Scale

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	_____
County Line	_____
Township Line	_____
City Line	_____
Reservation Line	_____
Property Line	_____
Existing Iron Pin (EIP)	○
Computed Property Corner	×
Existing Concrete Monument (ECM)	□
Parcel / Sequence Number	⑩
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	-WLB-
Proposed Wetland Boundary	-WLB-
Existing Endangered Animal Boundary	-EAB-
Existing Endangered Plant Boundary	-EPB-
Existing Historic Property Boundary	-HPB-
Known Contamination Area: Soil	-S-S-
Potential Contamination Area: Soil	-S-S-
Known Contamination Area: Water	-W-W-
Potential Contamination Area: Water	-W-W-
Contaminated Site: Known or Potential	☠ ☢
BUILDINGS AND OTHER CULTURE:	
Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	⊕
Small Mine	⋈
Foundation	□
Area Outline	□
Cemetery	⊕
Building	□
School	□
Church	⊕
Dam	_____
HYDROLOGY:	
Stream or Body of Water	_____
Hydro, Pool or Reservoir	□
Jurisdictional Stream	-JS-
Buffer Zone 1	-BZ 1-
Buffer Zone 2	-BZ 2-
Flow Arrow	←
Disappearing Stream	→
Spring	○
Wetland	⋈
Proposed Lateral, Tail, Head Ditch	_____
False Sump	_____

RAILROADS:

Standard Gauge	_____
RR Signal Milepost	○
Switch	□
RR Abandoned	_____
RR Dismantled	_____

RIGHT OF WAY & PROJECT CONTROL:

Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	●
Secondary Horiz and Vert Control Point	◆
Vertical Benchmark	⊕
Existing Right of Way Monument	△
Proposed Right of Way Monument (Rebar and Cap)	▲
Proposed Right of Way Monument (Concrete)	⊕
Existing Permanent Easement Monument	◇
Proposed Permanent Easement Monument (Rebar and Cap)	◆
Existing C/A Monument	△
Proposed C/A Monument (Rebar and Cap)	▲
Proposed C/A Monument (Concrete)	⊕
Existing Right of Way Line	_____
Proposed Right of Way Line	_____
Existing Control of Access Line	_____
Proposed Control of Access Line	_____
Proposed ROW and CA Line	_____
Existing Easement Line	_____
Proposed Temporary Construction Easement	_____
Proposed Temporary Drainage Easement	_____
Proposed Permanent Drainage Easement	_____
Proposed Permanent Drainage/Utility Easement	_____
Proposed Permanent Utility Easement	_____
Proposed Temporary Utility Easement	_____
Proposed Aerial Utility Easement	_____

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	_____
Existing Curb	_____
Proposed Slope Stakes Cut	-C-
Proposed Slope Stakes Fill	-F-
Proposed Curb Ramp	_____
Existing Metal Guardrail	_____
Proposed Guardrail	_____
Existing Cable Guiderail	_____
Proposed Cable Guiderail	_____
Equality Symbol	⊕
Pavement Removal	_____

VEGETATION:

Single Tree	⊕
Single Shrub	⊕
Hedge	_____

Woods Line	_____
Orchard	_____
Vineyard	_____

EXISTING STRUCTURES:

MAJOR:	_____
Bridge, Tunnel or Box Culvert	_____
Bridge Wing Wall, Head Wall and End Wall	_____
MINOR:	_____
Head and End Wall	_____
Pipe Culvert	_____
Footbridge	_____
Drainage Box: Catch Basin, DI or JB	_____
Paved Ditch Gutter	_____
Storm Sewer Manhole	_____
Storm Sewer	_____

UTILITIES:

* SUE - Subsurface Utility Engineering	
LOS - Level of Service - A,B,C or D (Accuracy)	
POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
Power Line Tower	⊕
Power Transformer	⊕
U/G Power Cable Hand Hole	⊕
H-Frame Pole	●
U/G Power Line Test Hole (SUE - LOS A)*	⊕
U/G Power Line (SUE - LOS B)*	_____
U/G Power Line (SUE - LOS C)*	_____
U/G Power Line (SUE - LOS D)*	_____
TELEPHONE:	
Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Pedestal	⊕
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	⊕
U/G Telephone Test Hole (SUE - LOS A)*	⊕
U/G Telephone Cable (SUE - LOS B)*	_____
U/G Telephone Cable (SUE - LOS C)*	_____
U/G Telephone Cable (SUE - LOS D)*	_____
U/G Telephone Conduit (SUE - LOS B)*	_____
U/G Telephone Conduit (SUE - LOS C)*	_____
U/G Telephone Conduit (SUE - LOS D)*	_____
U/G Fiber Optics Cable (SUE - LOS B)*	_____
U/G Fiber Optics Cable (SUE - LOS C)*	_____
U/G Fiber Optics Cable (SUE - LOS D)*	_____

WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊕
Water Hydrant	⊕
U/G Water Line Test Hole (SUE - LOS A)*	⊕
U/G Water Line (SUE - LOS B)*	_____
U/G Water Line (SUE - LOS C)*	_____
U/G Water Line (SUE - LOS D)*	_____
Above Ground Water Line	_____

TV:

TV Pedestal	⊕
TV Tower	⊕
U/G TV Cable Hand Hole	⊕
U/G TV Test Hole (SUE - LOS A)*	⊕
U/G TV Cable (SUE - LOS B)*	_____
U/G TV Cable (SUE - LOS C)*	_____
U/G TV Cable (SUE - LOS D)*	_____
U/G Fiber Optic Cable (SUE - LOS B)*	_____
U/G Fiber Optic Cable (SUE - LOS C)*	_____
U/G Fiber Optic Cable (SUE - LOS D)*	_____

GAS:

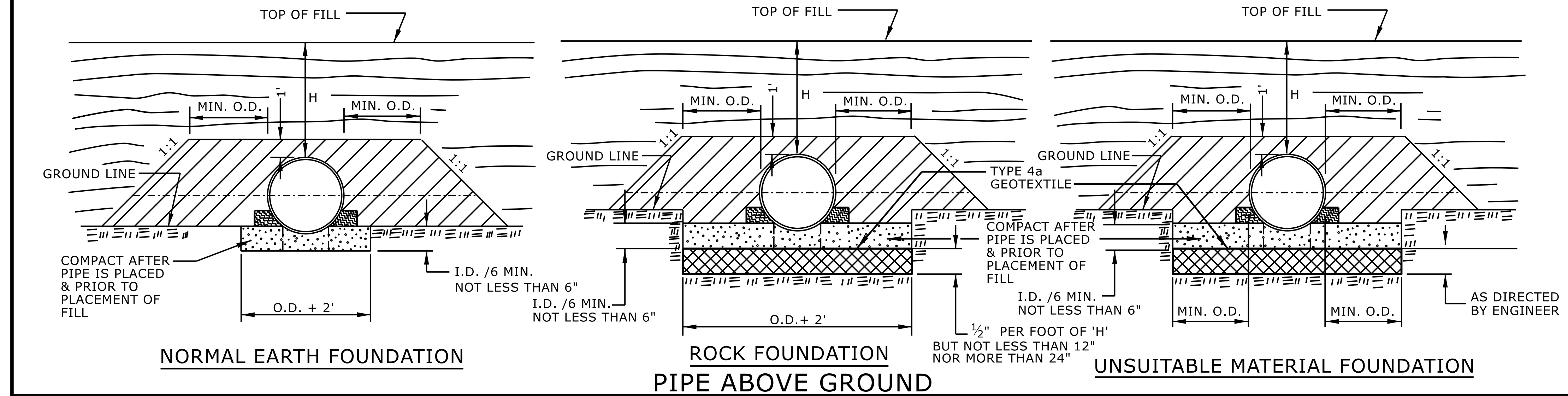
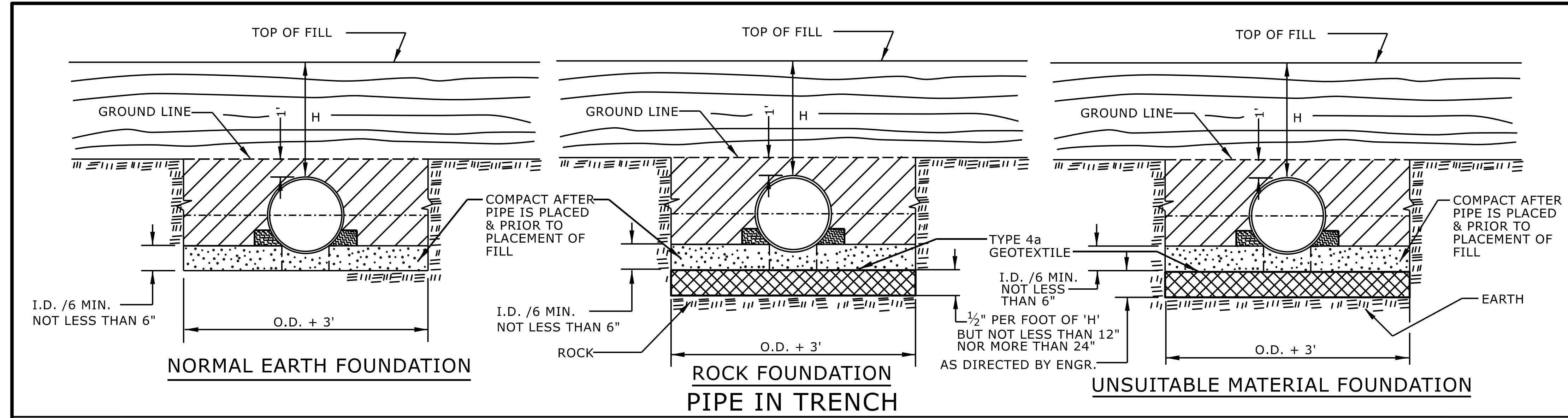
Gas Valve	◇
Gas Meter	⊕
U/G Gas Line Test Hole (SUE - LOS A)*	⊕
U/G Gas Line (SUE - LOS B)*	_____
U/G Gas Line (SUE - LOS C)*	_____
U/G Gas Line (SUE - LOS D)*	_____
Above Ground Gas Line	_____

SANITARY SEWER:



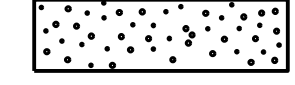
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	_____
Above Ground Sanitary Sewer	_____
SS Force Main Line Test Hole (SUE - LOS A)*	⊕
SS Force Main Line (SUE - LOS B)*	_____
SS Force Main Line (SUE - LOS C)*	_____
SS Force Main Line (SUE - LOS D)*	_____

MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line (SUE - LOS B)*	_____
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	⊕
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

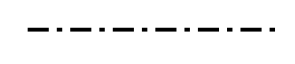
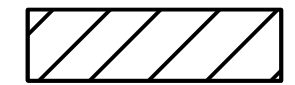
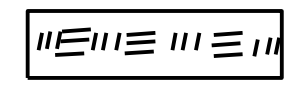



GENERAL NOTES:
 I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.
 O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.
 H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT AT THAT POINT.

 APPROVED SUITABLE LOCAL MATERIAL.
 TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL.
 LOOSELY PLACED SELECT MATERIAL CLASS III OR CLASS II, TYPE 1 FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.

DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.

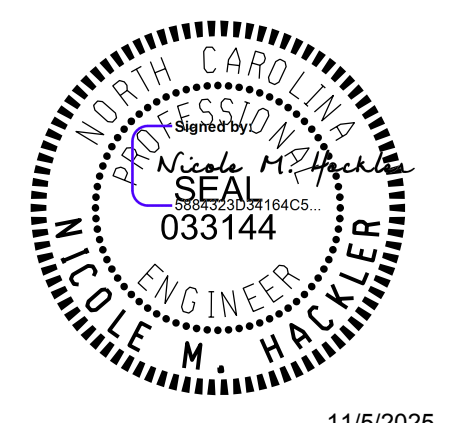
REFER TO NCDOT PIPE MATERIAL SELECTION GUIDE AND STANDARD SPECIFICATIONS FOR ALLOWABLE PIPE FILL HEIGHTS AND PIPE SPECIFICATIONS.

 SPRINGLINE OF PIPE
 SELECT BACKFILL MATERIAL CLASS III OR CLASS II, TYPE 1 ABOVE AND BELOW SPRINGLINE.
 UNDISTURBED EARTH MATERIAL
 SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH TYPE IV GEOTEXTILE AS DIRECTED BY THE ENGINEER.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
METHOD OF PIPE INSTALLATION
FLEXIBLE PIPE

SHEET 1 OF 2
300.01



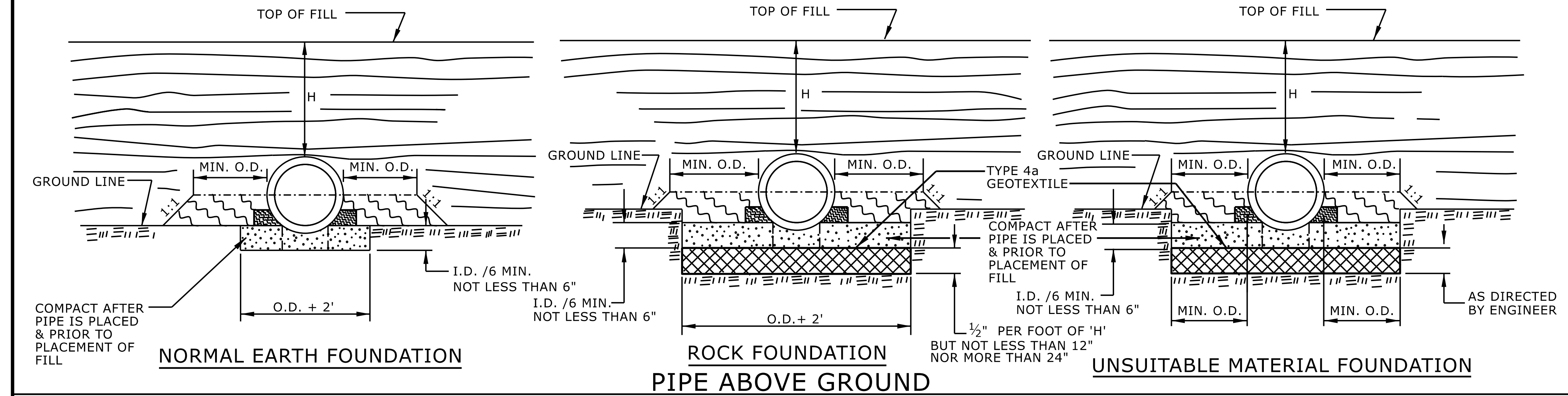
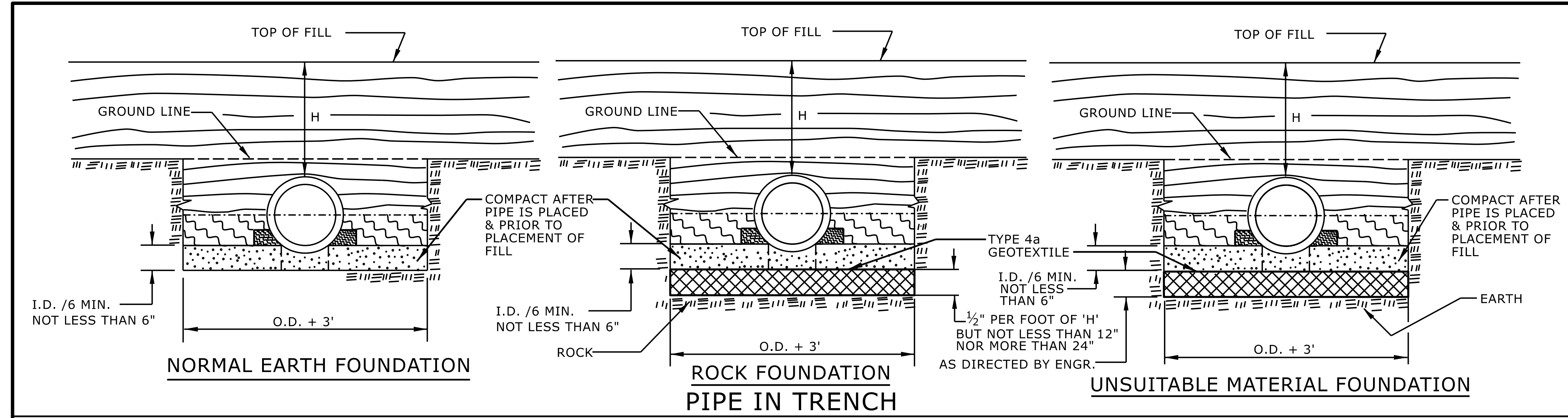
11/5/2025

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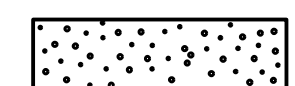
CONTRACTS STANDARDS AND DEVELOPMENT UNIT
 Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

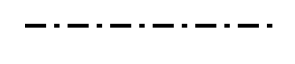

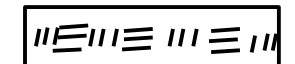

ORIGINAL BY: S.CALHOUN DATE: 7-25-2024
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 FILE SPEC.: _____



GENERAL NOTES:
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 O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.
 H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT AT THAT POINT.

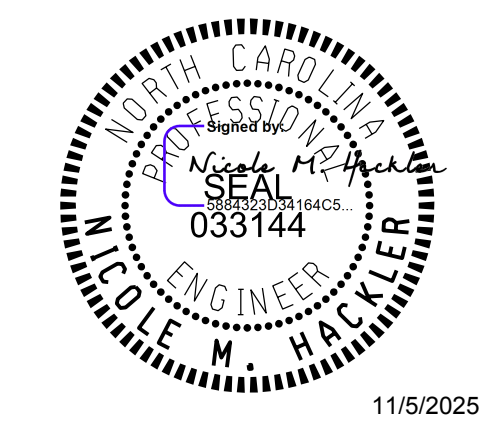
 APPROVED SUITABLE LOCAL MATERIAL.
 TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL.
 LOOSELY PLACED SELECT MATERIAL CLASS III OR CLASS II, TYPE 1 FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.

DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.
 REFER TO NCDOT PIPE MATERIAL SELECTION GUIDE AND STANDARD SPECIFICATIONS FOR ALLOWABLE PIPE FILL HEIGHTS AND PIPE SPECIFICATIONS.

-  SPRINGLINE OF PIPE
-  SELECT BACKFILL MATERIAL CLASS III OR CLASS II, BELOW SPRINGLINE.
-  UNDISTURBED EARTH MATERIAL
-  SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH TYPE IV GEOTEXTILE AS DIRECTED BY THE ENGINEER.

STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
METHOD OF PIPE INSTALLATION
 RIGID PIPE



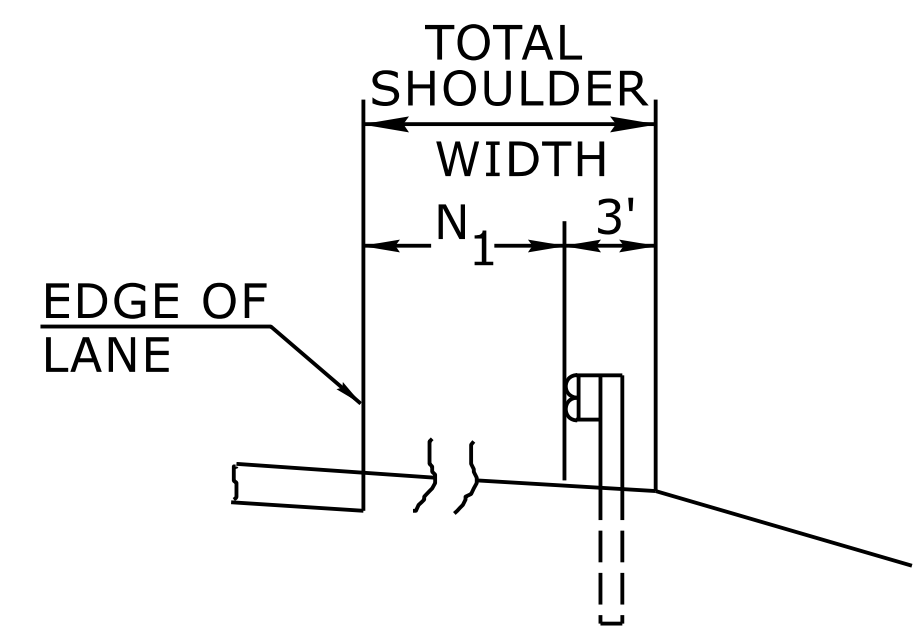
SHEET 2 OF 2
300.01

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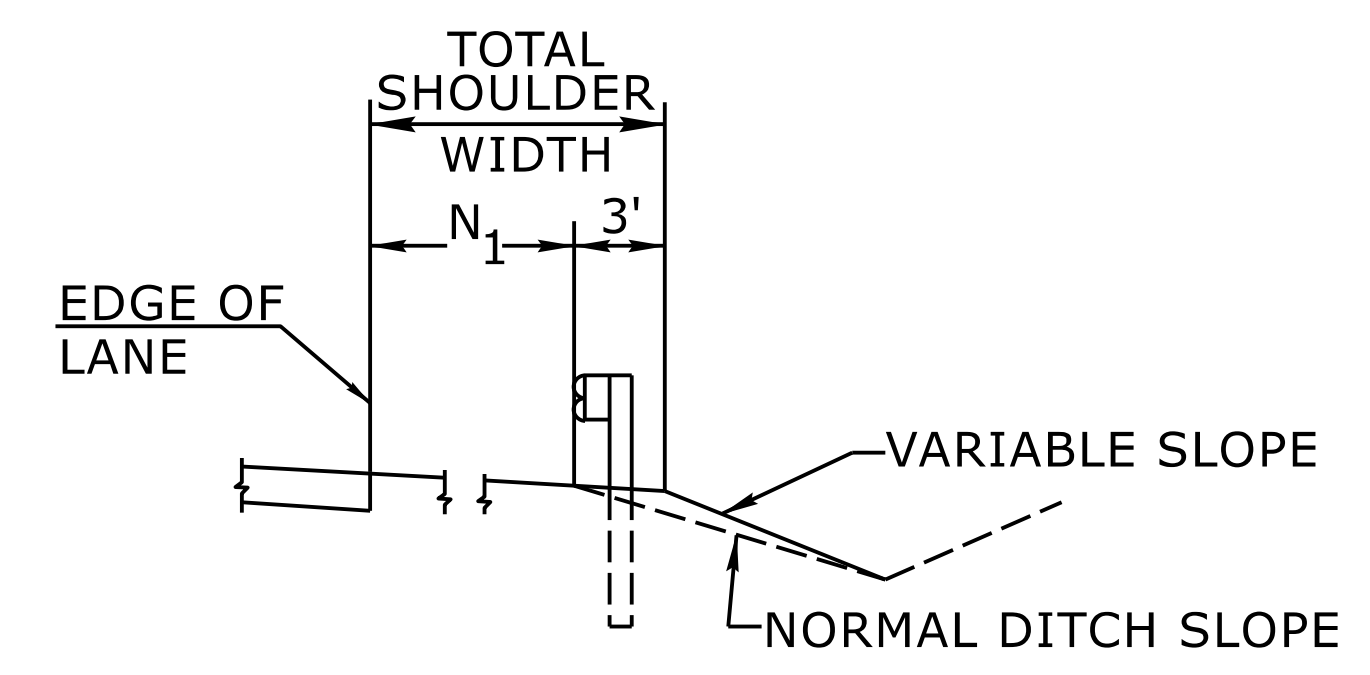
CONTRACTS STANDARDS AND DEVELOPMENT UNIT
 Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

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 CHECKED BY: DATE: _____
 FILE SPEC.: _____

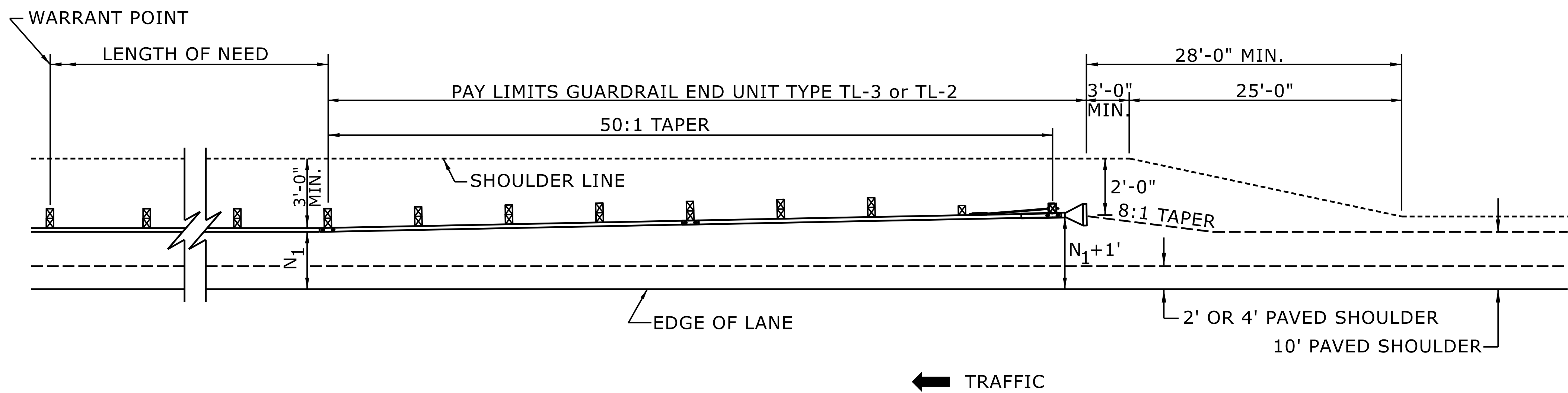


FILL SECTION



CUT SECTION

"N₁" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL WHERE GUARDRAIL IS PARALLEL TO LANE.

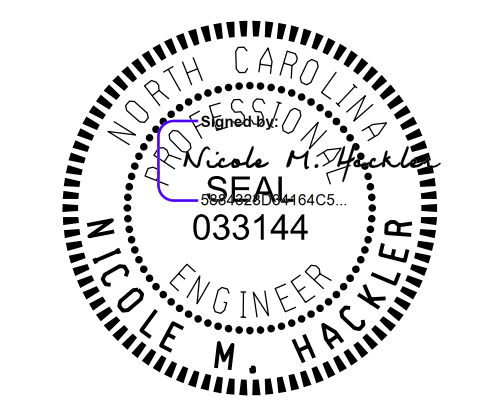


FOR POSTED SPEEDS ≥ 45mph USE GREU TYPE TL-3
FOR POSTED SPEEDS < 45mph USE GREU TYPE TL-2

DETAIL OF BEGINNING OF GUARDRAIL IN CUT OR FILL SECTION

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT



11/5/2025

SHEET 6 OF 15
862D01

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**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

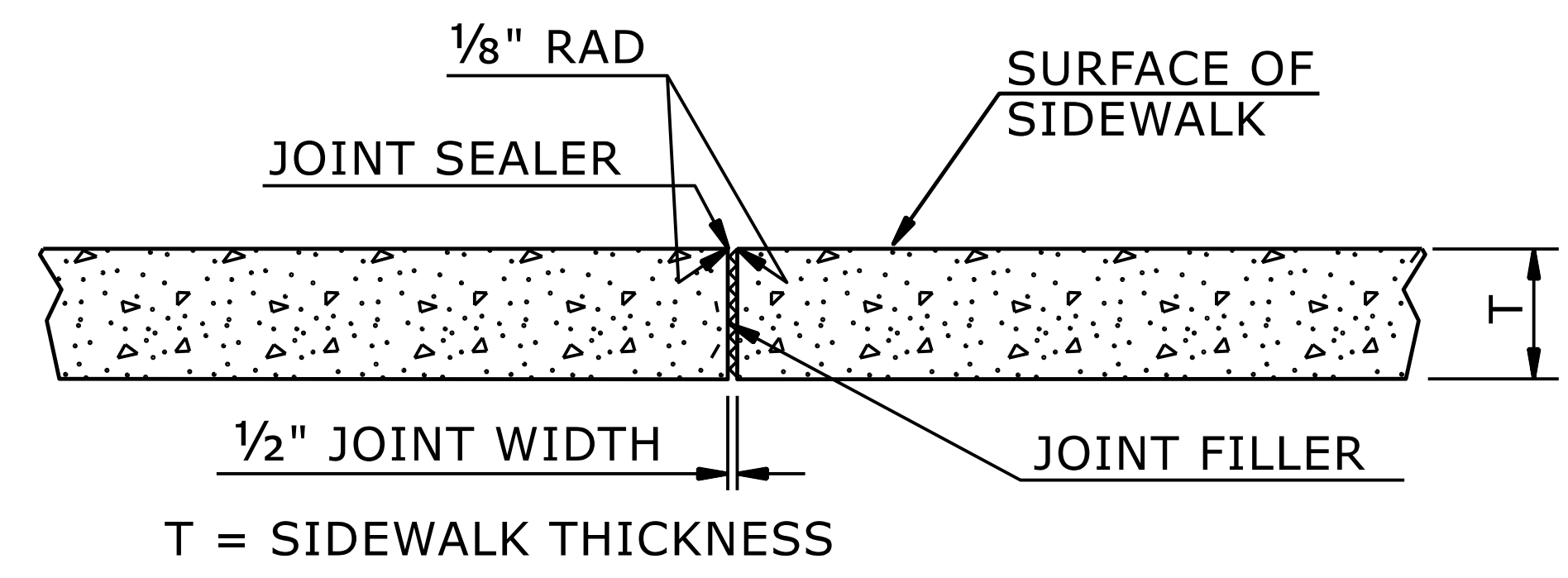
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MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.:	

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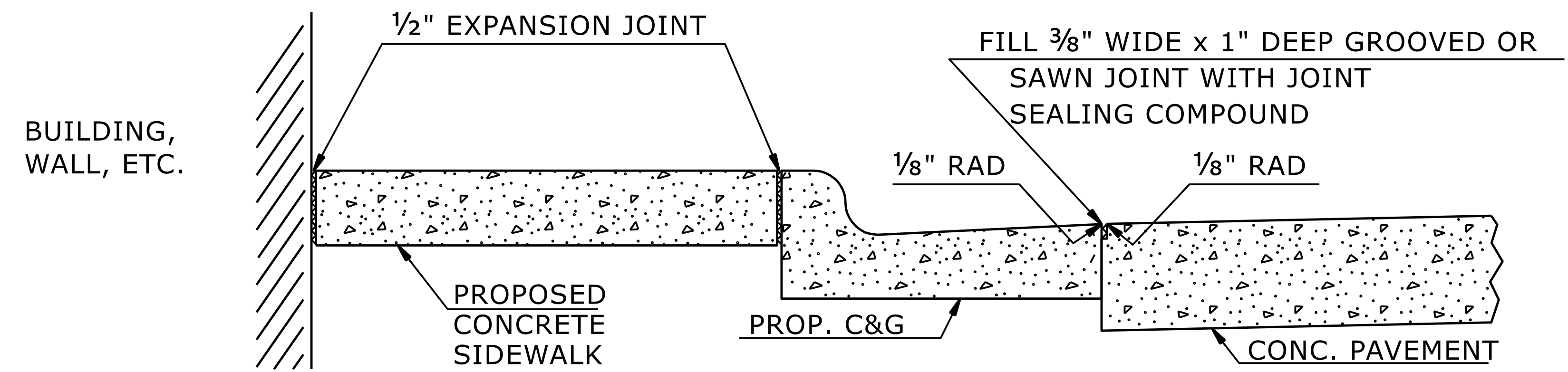
CONSTRUCT STANDARD SIDEWALK 5' WIDE AND 4" THICK UNLESS OTHERWISE DENOTED ON PLANS.

PLACE A GROOVE JOINT 1" DEEP WITH 1/8" RADII IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.

SEE STD. DWG. 848.06 FOR CURB RAMP LOCATION REQUIREMENTS AND CONSTRUCTION GUIDELINES.



TRANSVERSE EXPANSION JOINT IN SIDEWALK

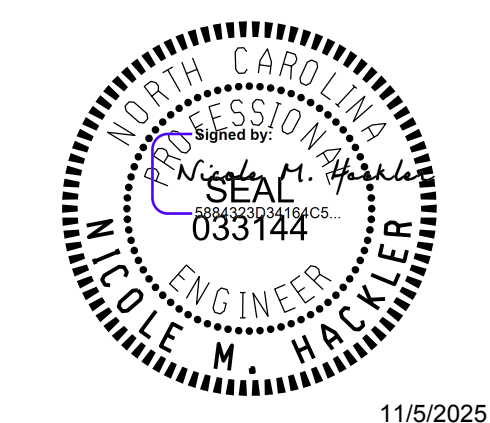


DETAILS SHOWING JOINTS IN CONCRETE SIDEWALK

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
CONCRETE SIDEWALK

SHEET 1 OF 1
848D01




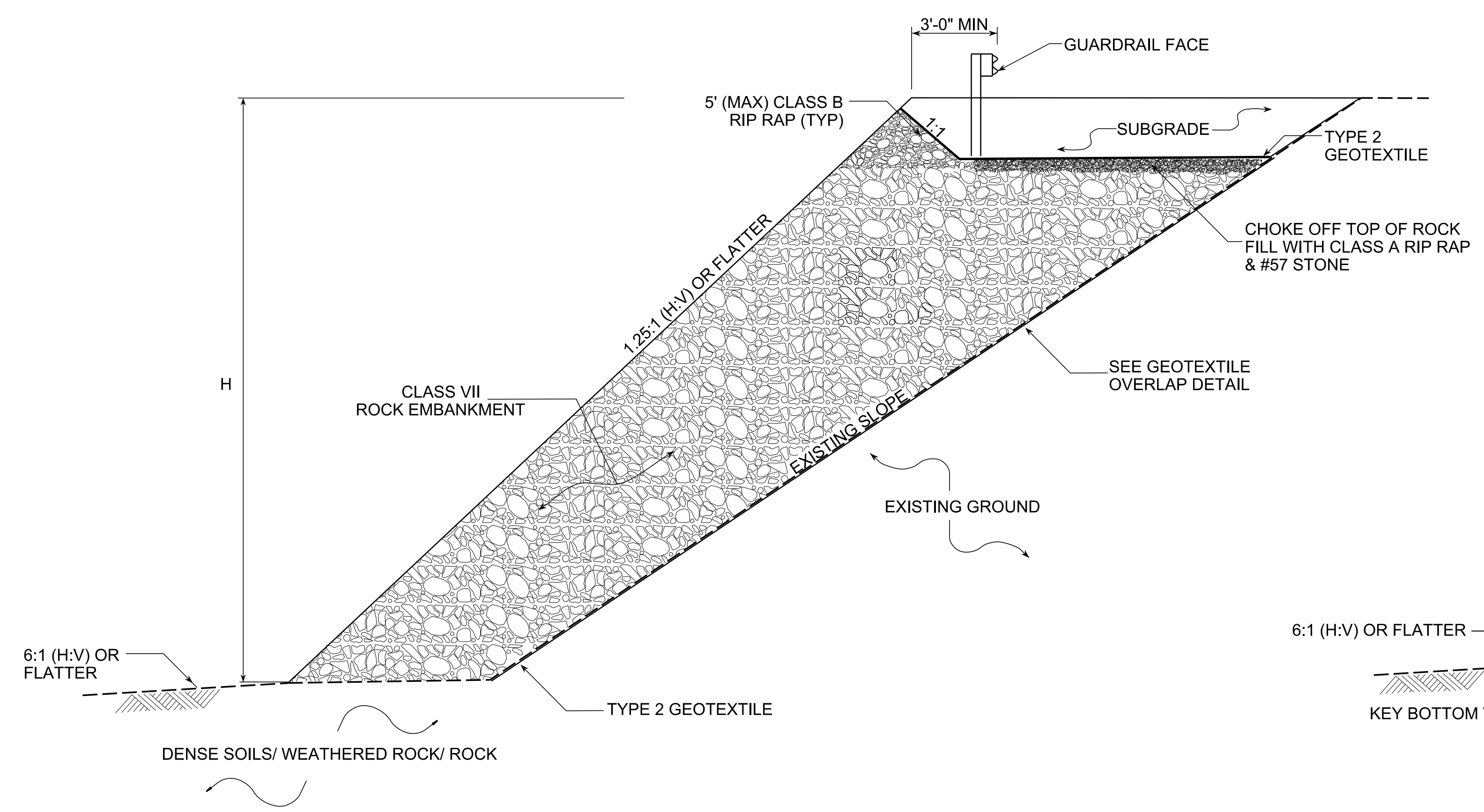
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CONTRACTS STANDARDS AND DEVELOPMENT UNIT
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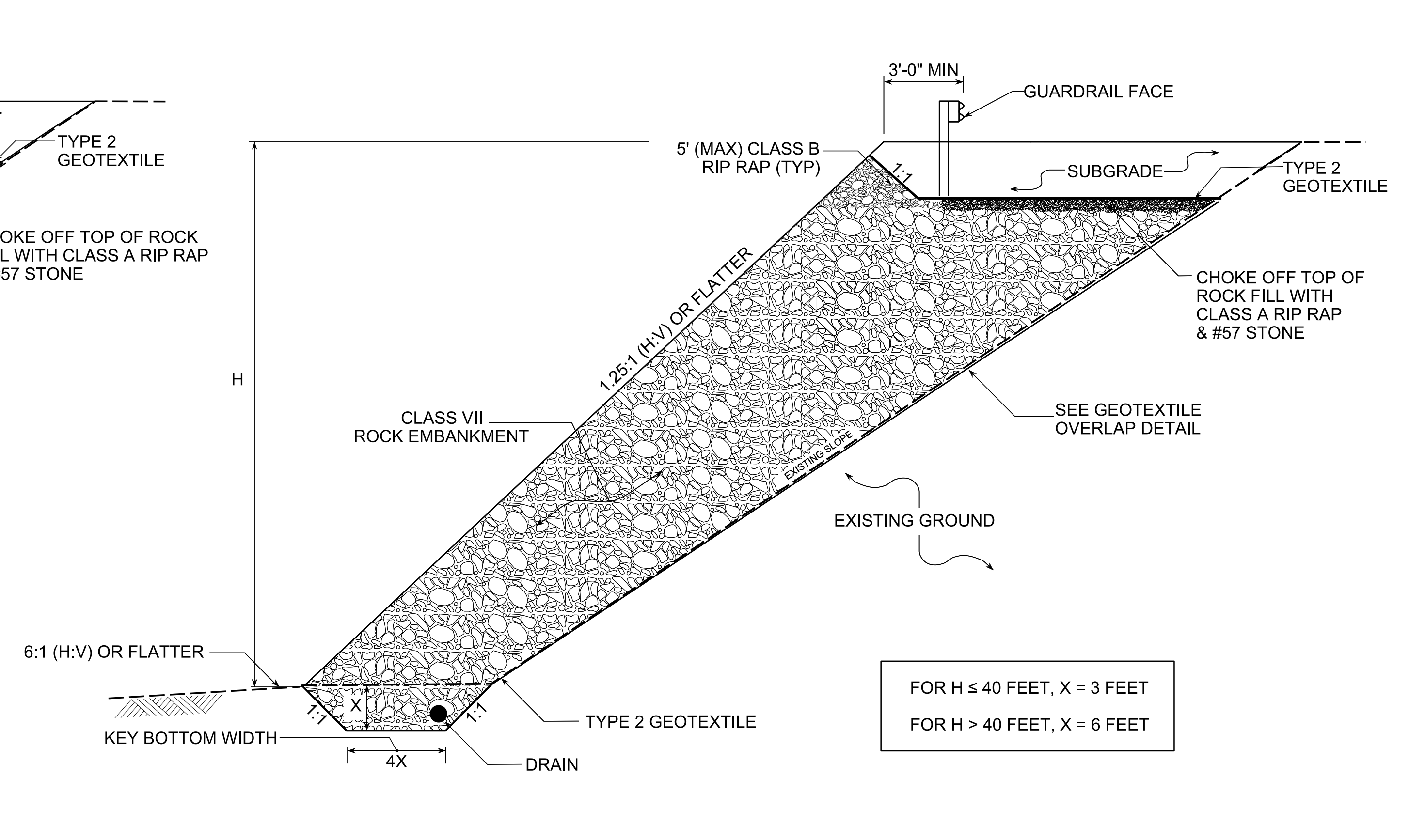
SEE TITLE BLOCK

ORIGINAL BY: S.CALHOUN DATE: 7-25-2024
 MODIFIED BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____
 FILE SPEC.: _____

GEOTECHNICAL ENGINEER  D. Matthew Brewer SIGNATURE DATE 10/20/2025	ENGINEER SIGNATURE DATE
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



ROCK EMBANKMENT DETAIL



ROCK EMBANKMENT WITH TOE KEY DETAIL

- NOTES:**
1. THE MAXIMUM ALLOWABLE HEIGHT FOR THE ROCK EMBANKMENT DETAIL IS 80'.
 2. FOR ROCK EMBANKMENT, BENCH EXISTING SLOPE IN ACCORDANCE WITH SECTION 235 OF THE STANDARD SPECIFICATIONS, WHERE POSSIBLE.
 3. FOR ROCK EMBANKMENTS, SEE ROCK EMBANKMENTS SPECIAL PROVISION.

ESTIMATED QUANTITIES - SITE 685	
ROCK EMBANKMENTS	1,400 TON
GEOTEXTILE FOR ROCK EMBANKMENTS	600 SY

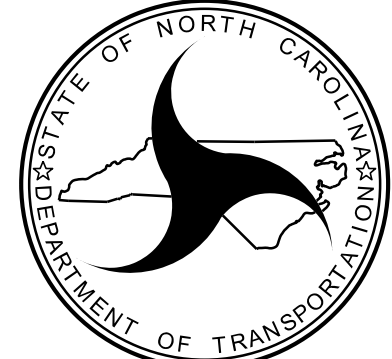
PROJECT NO.: 18314.1075011
 POLK COUNTY
 STATION: -RR- Sta. 10+75 to 12+00, LT
 SHEET 1 OF 1

PREPARED BY: DMB	DATE: 10/25
REVIEWED BY: DMB	DATE: 10/25

Prepared in the Office of:



**CAROLINUS
GEOTECHNICAL
GROUP**
 1805 SARDIS ROAD NORTH
 SUITE 100
 CHARLOTTE, NC 28270
 (980) 339-8684




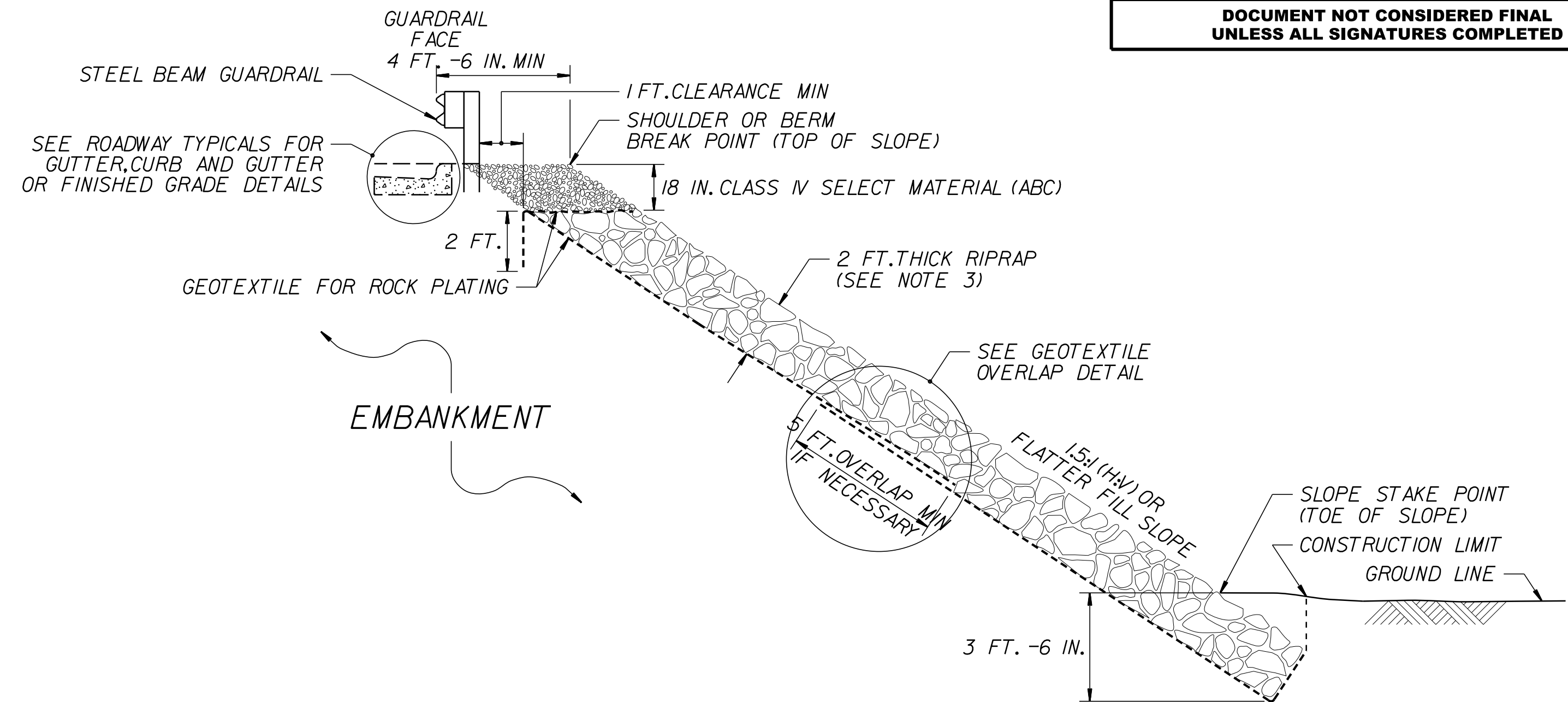
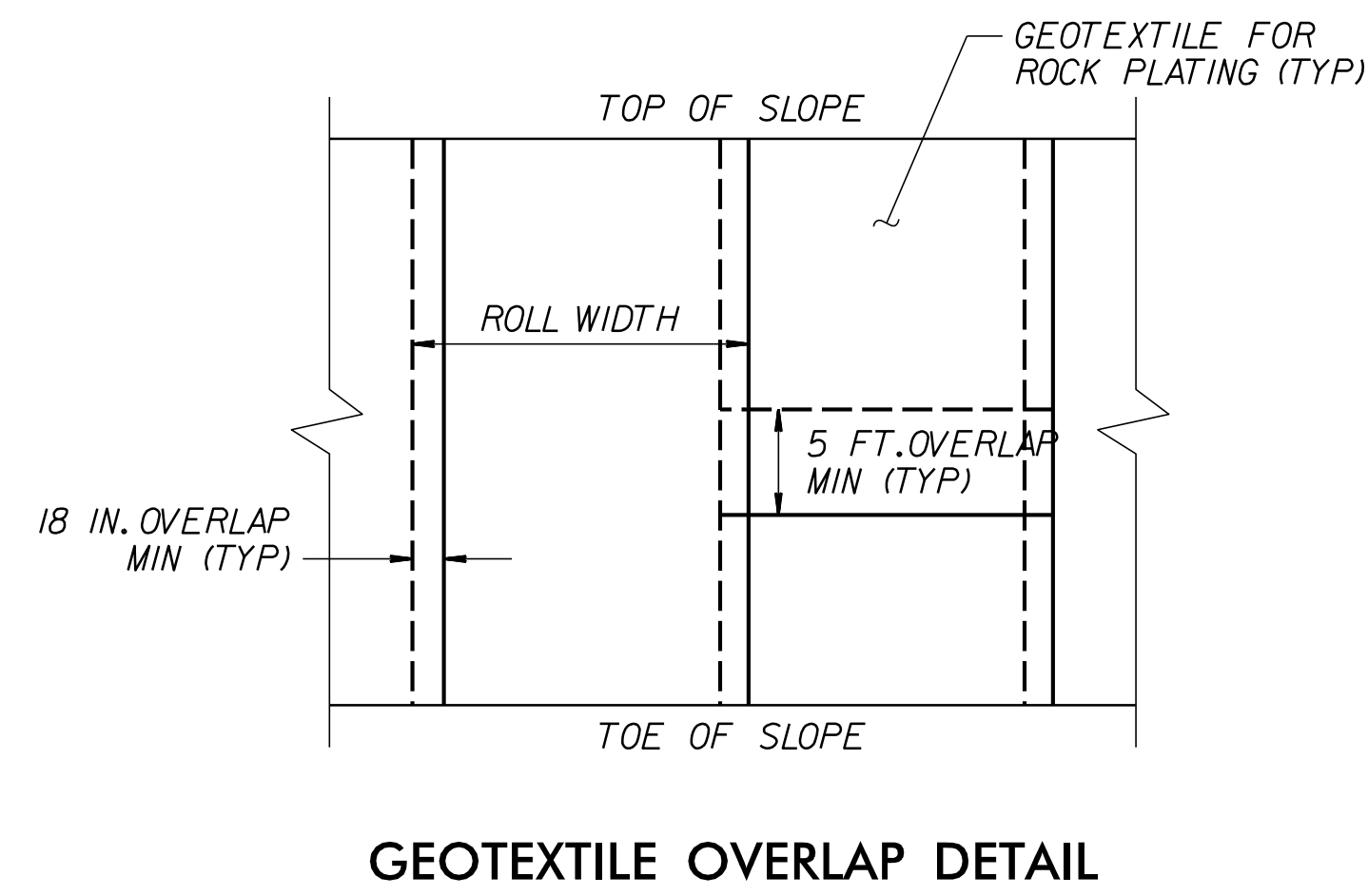
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**GEOTECHNICAL
ENGINEERING UNIT**

REVISIONS						SHEET NO. 2G-1
NO.	BY	DATE	NO.	BY	DATE	
1			3			
2			4			

SITE 685 ROCK EMBANKMENTS

PROJECT REFERENCE NO. 18314.1075011	SHEET NO. 2G-2
GEOTECHNICAL ENGINEER  D. Matthew Brewer 10/20/2025 DATE	ENGINEER _____ SIGNATURE _____ DATE
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



ROCK PLATING

FOR ROCK PLATING, SEE SECTION 275 OF THE STANDARD SPECIFICATIONS
 USE ROCK PLATING AT THE FOLLOWING LOCATIONS:

LINE	BEGINNING SLOPE	APPROX. STATION	ENDING SLOPE	APPROX. STATION	LOCATION LT/RT	ROCK PLATING DETAIL NO.	RIPRAP CLASS*	SY
-RR-	1.5:1	11+75	1.5:1	13+50	RT	2	*	1200

*USE CLASS 1, 2 OR B RIPRAP UNLESS REQUIRED OTHERWISE IN THE ROADWAY SUMMARY SHEETS.


ESTIMATED TOTAL QUANTITY OF ROCK PLATING = 1200 SY

PREPARED BY: D. MATTHEW BREWER, P.E.	DATE: 10/17/25
REVIEWED BY: D. MATTHEW BREWER, P.E.	DATE: 10/17/25

Prepared in the Office of:



**CAROLINAS
 GEOTECHNICAL
 GROUP**
 2400 CROWNPOINT EXECUTIVE DRIVE
 SUITE 800
 CHARLOTTE, NC 28227
 (980) 339-8684



NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

**GEOTECHNICAL
 ENGINEERING UNIT**

**GEOTECHNICAL
 CONSTRUCTION DETAILS -
 ROCK PLATING
 NOTES & DETAILS**

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

COMPUTED BY: SGM DATE: 9/10/2025
 CHECKED BY: JLT DATE: 10/1/2025

PROJECT NO. 18314.1075011 SHEET NO. 3B-1

STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK

IN CUBIC YARDS					
Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
SITE 501					
-L501- 11+65.00	-L501- 15+00.00	45	2		43
SITE 501 TOTALS:		45	2		43
SAY		60			
SITE 685					
-RR- 10+75.00	-RR- 12+00.00	24			24
SITE 501 TOTALS:		24			24
SAY		30			
SITE EF1					
-RR- 11+75.00	-RR- 13+50.00	19	2		17
SITE 501 TOTALS:		19	2		17
SAY		25			
GRAND TOTALS:					
SAY		115	4		84

Note: Approximate quantities only. Unclassified Excavation, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for grading.

Note: Earthwork quantities are calculated by TGS Engineers.

SELECT GRANULAR MATERIAL = 75 CUBIC YARDS
 EST. UNDERCUT = 75 CUBIC YARDS

PAVEMENT REMOVAL SUMMARY

IN SQUARE YARDS							
SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP
SITE 501							
-L501-	13+35	15+00	CL	413.28			
SITE 501 TOTAL:				413.28			
SAY				420			
SITE 685							
-RR-	10+75	12+00	LT	109.37			
SITE 685 TOTAL:				109.37			
SAY				110			
PROJECT TOTAL:				522.65			
SAY				530			

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.
 TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
 LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
 W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.
 G = GATING IMPACT ATTENUATOR TYPE 350
 NG = NON-GATING IMPACT ATTENUATOR TYPE 350

GUARDRAIL SUMMARY

IN FEET

LINE	BEG. STA.	END STA.	LOC.	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHLDR WIDTH	FLARE LENGTH		W		ANCHORS				IMP. ATTEN. TYPE 350			EXTRA LENGTH GUARDRAIL POSTS (8' STEEL) EA	REMOVE EXISTING GUARDRAIL	REMARKS	
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPR. END	TRAIL. END			APPR. END	TRAIL. END	TL-2				EA	G	NG						
SITE EF1																									
-RR-	11+75+/-	13+35+/-	RT	160.00							25'		0.5									5	150	USE EXTRA LENGTH GR POST: 11+75 TO 12+00 : 25' @ 6.25 = 4, SAY 5 EA	
SUB-TOTALS				160.00																					
LESS ANCHOR DEDUCTIONS																									
	TYPE TL-2			1 @ 25.00 ft	25.00																				
ANCHOR TOTALS				25.00																					
GRAND-TOTALS				135.00																			5	150.0	
SAY				137.50																			5	150	

ADDITIONAL GUARDRAIL POSTS = 5 EA

COMPUTED BY: D. Matthew Brewer, PE DATE: 10/20/25
CHECKED BY: D. Matthew Brewer, PE DATE: 10/20/25

(9-17-24)

PROJECT NO.	SHEET NO.
18314.1075011	3G-1

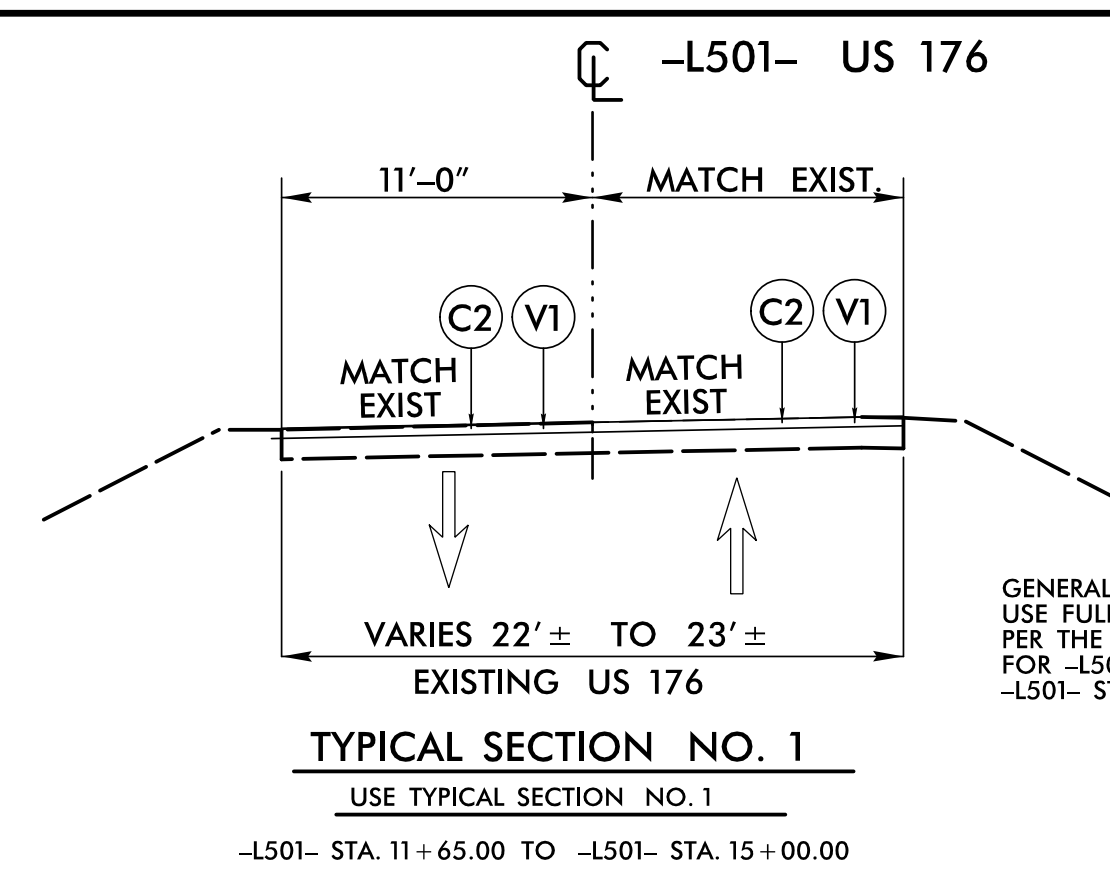
**STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS**

SUMMARY OF ROCK PLATING

LINE	Beginning Slope (H:V)	Approx. Station	Ending Slope (H:V)	Approx. Station	Location LT/RT	Rock Plating Detail No. 1/2/3/4	Riprap Class* 1/2/B	Rock Plating SY
-RR-	1.5:1	11+75	1.5:1	13+50	RT	2	*	1200
							TOTAL SY:	1200

*Use Class 1, 2 or B riprap if riprap class is not shown for rock plating location.

8/17/99
REVISIONS
X:\Projects\Roadway\Design\Town_Plan_Sheets\US176_Town_Plan\psh04.dgn
12/5/2025
K:\RCD\Div 14 US 176 Repair\Roadway\Design\Town_Plan_Sheets\US176_Town_Plan\psh04.dgn

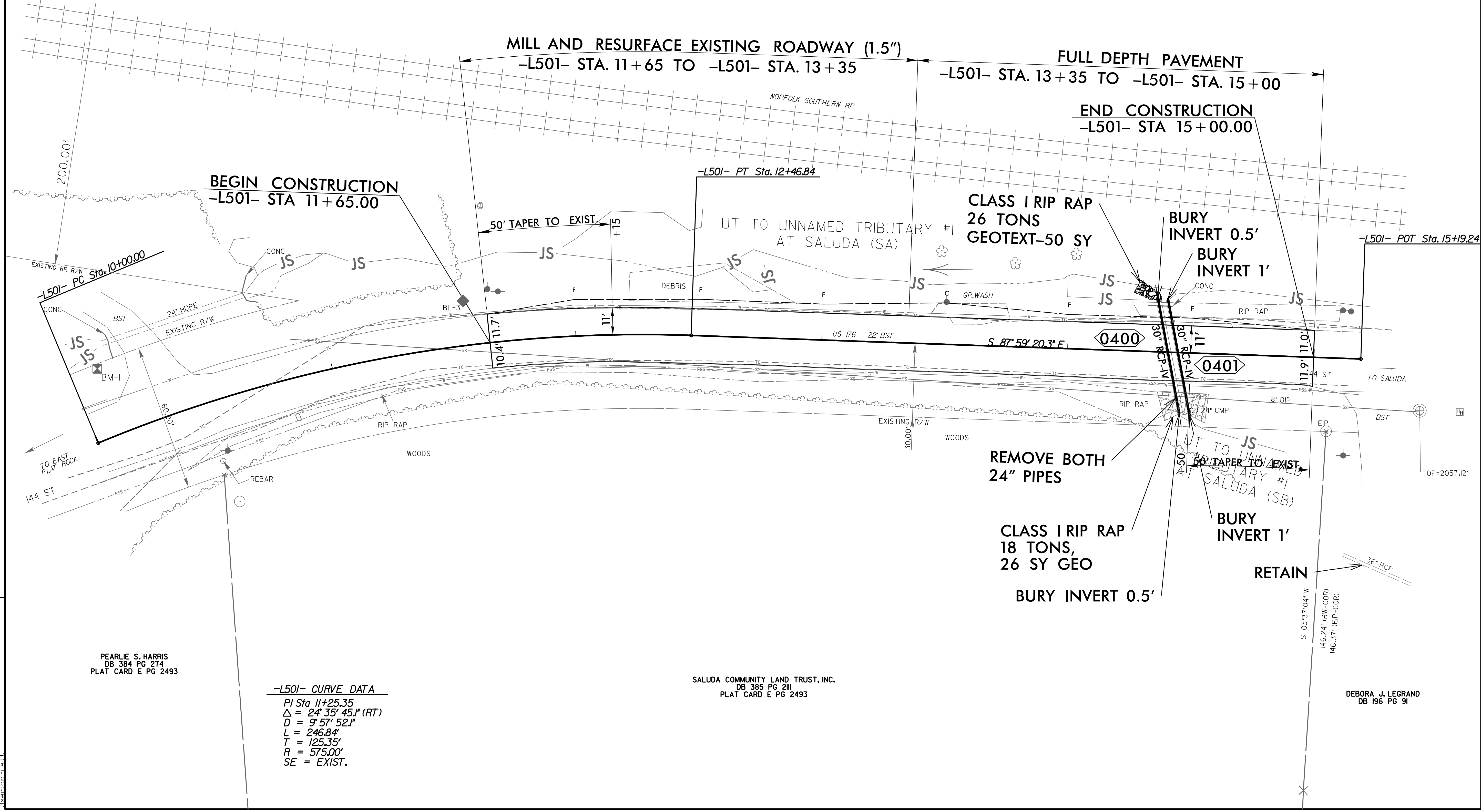


FINAL PAVEMENT SCHEDULE	
(Jan. 8, 2025)	
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
V1	MILLING BITUMINOUS PAVEMENT, 1 1/2" DEPTH

SITE 501

NAD 83/2011

PROJECT REFERENCE NO. 18314.1075011	SHEET NO. 04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER JIMMY L. TERRILL PROFESSIONAL SEAL 35018 12/5/2025	HYDRAULICS ENGINEER JOHN W. TWISDALE, JR. PROFESSIONAL SEAL 024897 12/8/2025
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
TGS ENGINEERS 201 W. MARION ST SHELBY, NC 28150 PH: (704) 476-0003 CORP. LICENSE NO.: C-0275	

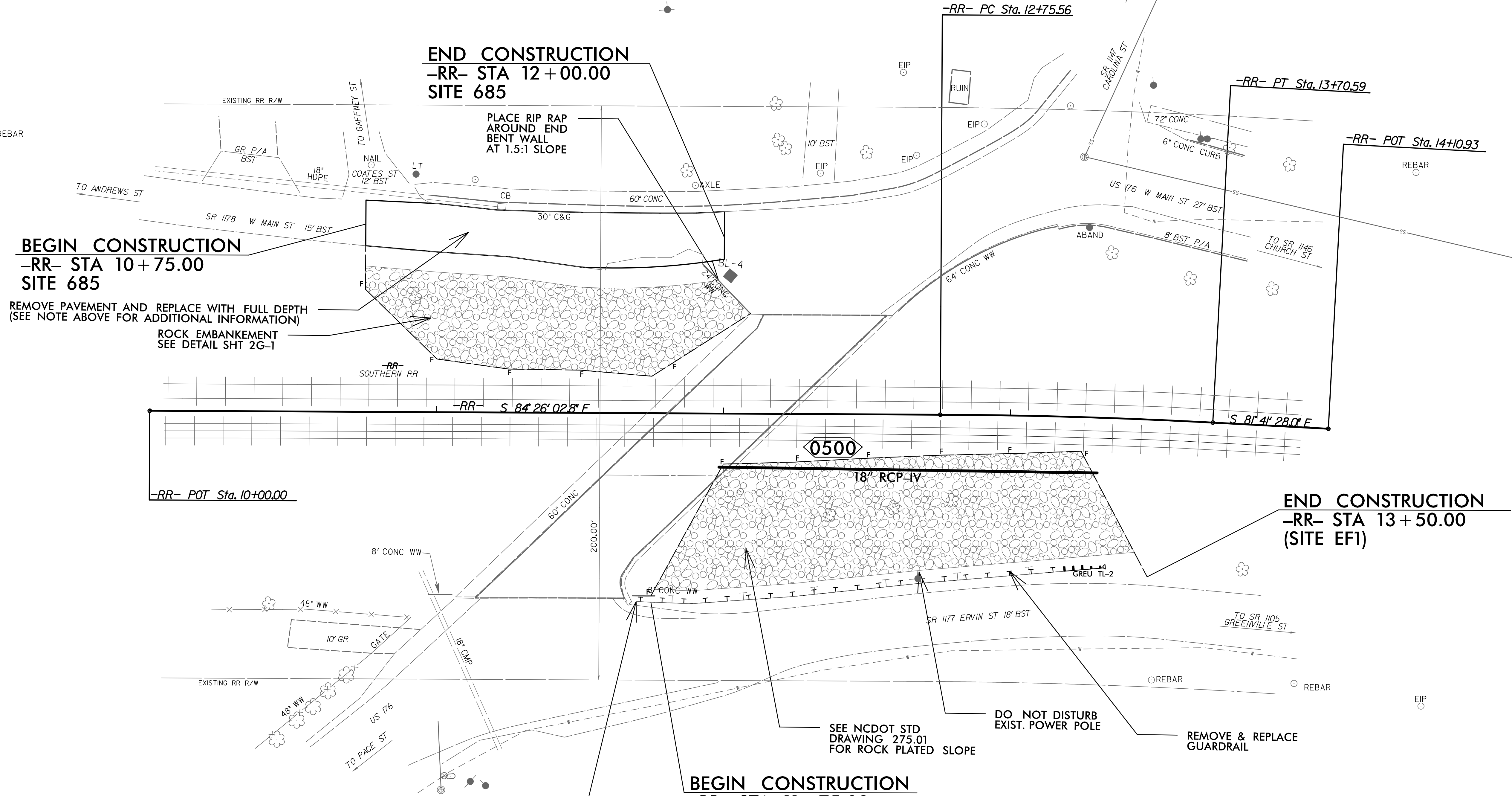


8/17/25

PROJECT REFERENCE NO. 18314.1075011	SHEET NO. 05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER NORTH CAROLINA SEAL 35018 JIMMY L. TERRY 11/18/2025	HYDRAULICS ENGINEER NORTH CAROLINA SEAL 024897 JOHN W. TWISDALE 11/18/2025
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
TGS ENGINEERS 201 W. MARION ST SHELBY, NC 28150 PH: (704) 476-0003 CORP. LICENSE NO.: C-0275	

SITE 685

NOTE:
SEE XS-SECTION (X-7 THRU X-11) FOR ROAD LAYOUT.
USE FULL DEPTH PAVEMENT, 3" S9.5C & 5" B25.0C,
REFER TO SHEET 4 FOR PAVEMENT SCHEDULE.



BEGIN CONSTRUCTION
-RR- STA 10+75.00
SITE 685

REMOVE PAVEMENT AND REPLACE WITH FULL DEPTH
(SEE NOTE ABOVE FOR ADDITIONAL INFORMATION)

ROCK EMBANKMENT
SEE DETAIL SHT 2G-1

END CONSTRUCTION
-RR- STA 12+00.00
SITE 685

PLACE RIP RAP AROUND END BENT WALL AT 1.5:1 SLOPE

END CONSTRUCTION
-RR- STA 13+50.00
(SITE EF1)

BEGIN CONSTRUCTION
-RR- STA 11+75.00
(SITE EF1)

SITE EF1

-RR- CURVE DATA
PI Sta 13+23.09
 $\Delta = 2^\circ 44' 34.8''$ (RT)
D = 2' 53' 11.2"
L = 95.03'
T = 47.52'
R = 1,985.00'


NOTE:
DO NOT ATTACH
GUARDRAIL TO
BRIDGE.

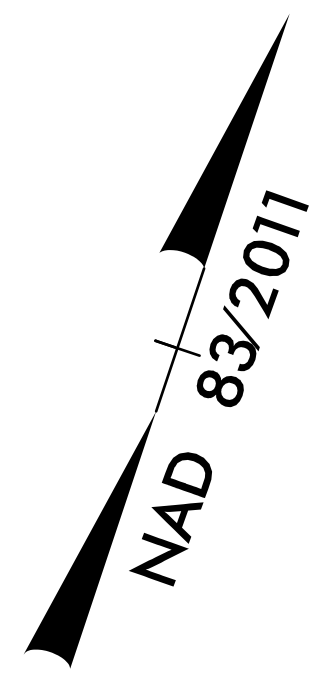
REVISIONS

I:\17\2025\Div 14 US 176 Repair\Roadway\Design\Town Plan Sheets\US176_Town_Rdy_psh05.dgn
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 User: jterry

8/17/99

SITE 508

PROJECT REFERENCE NO. 18314.107501	SHEET NO. 06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 35018 JIMMY L. TERRY 11/2025	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 024897 JOHN W. TWISDALE, JR. 11/2025
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 TGS ENGINEERS 201 W. MARION ST SHELBY, NC 28150 PH: (704) 476-0003 CORP. LICENSE NO.: C-0275	



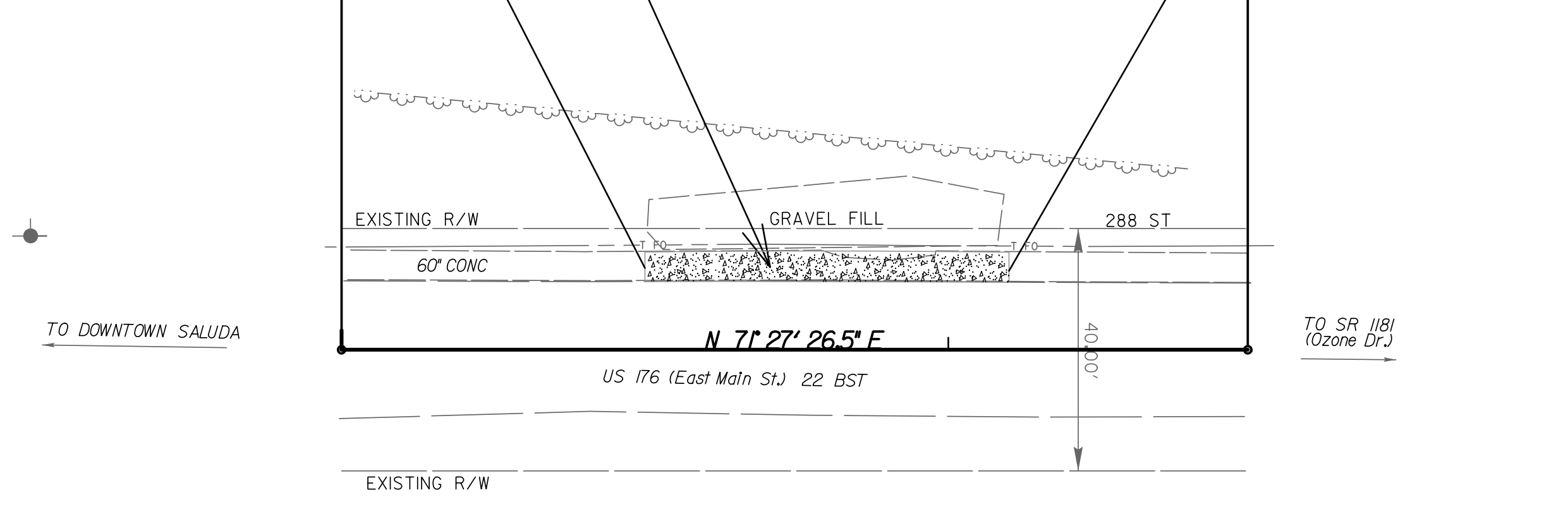
REPLACE DAMAGED 5' SIDEWALK
IN THIS AREA. APPROX. 60 LF
AS DIRECTED BY THE ENGINEER

BEGIN CONSTRUCTION
-L508- STA 10+50 +/-

END CONSTRUCTION
-L508- STA 11+10 +/-

-L508- POT Sta. 10+00.00

-L508- POT Sta. 11+49.38



REVISIONS

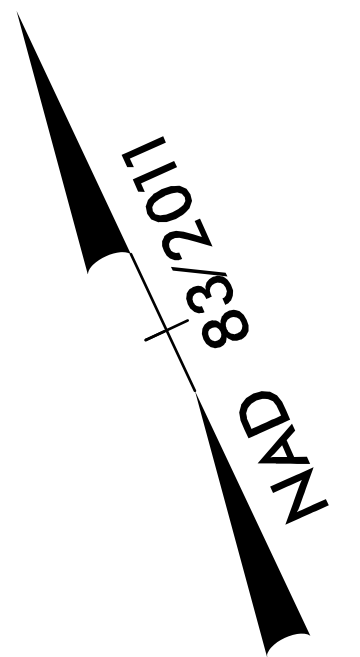
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11/11/2025
licetabluett

8/17/99

SITE 996

PROJECT REFERENCE NO. 18314.1075011	SHEET NO. 07
RW SHEET NO.	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 35018 JIMMY L. TERRY 11/11/2025	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 024897 D. W. Twissdale, Jr. 11/11/2025
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
TGS ENGINEERS 201 W. MARION ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

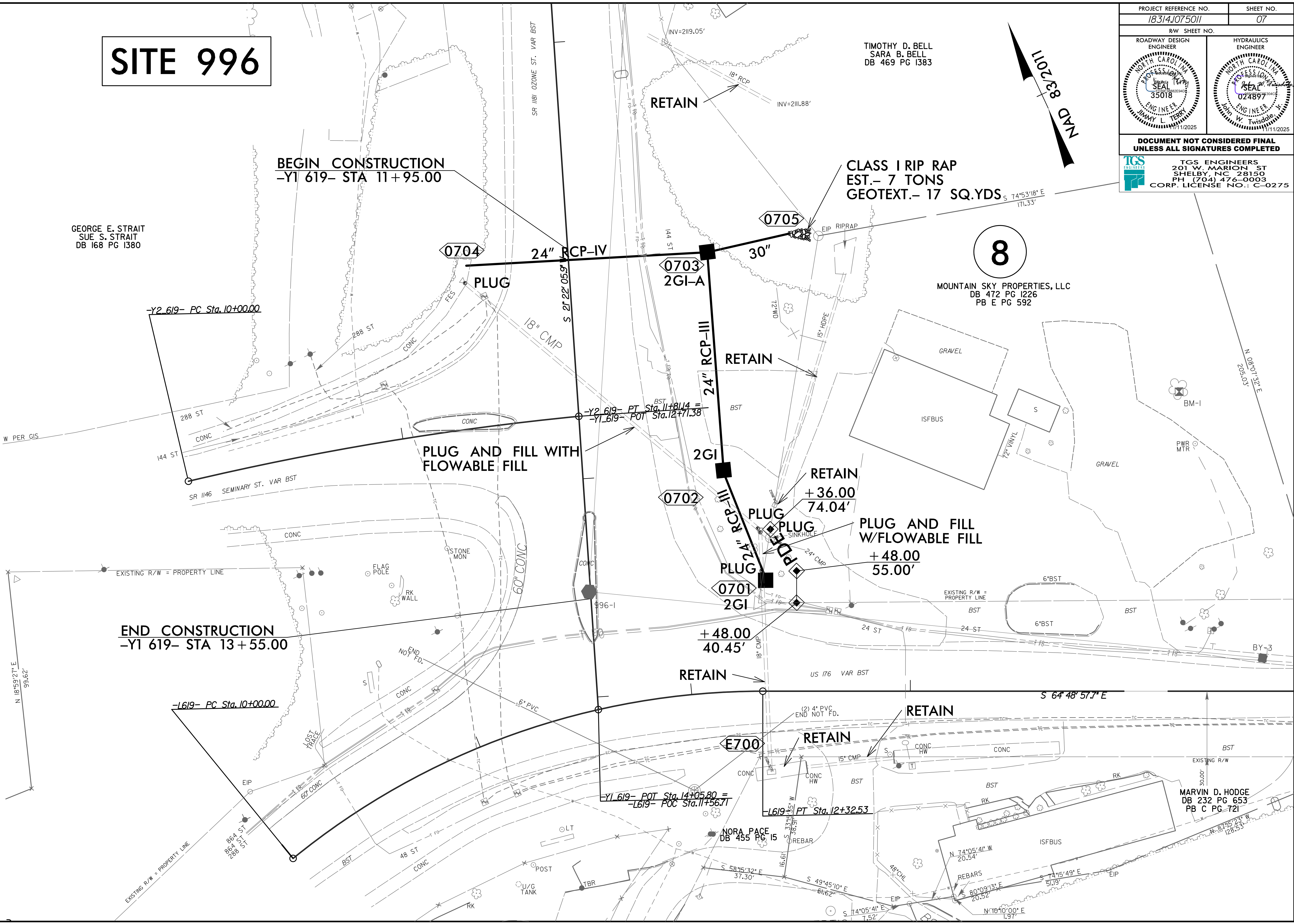
TIMOTHY D. BELL
SARA B. BELL
DB 469 PG 1383



GEORGE E. STRAIT
SUE S. STRAIT
DB 168 PG 1380

MOUNTAIN SKY PROPERTIES, LLC
DB 472 PG 1226
PB E PG 592

MARVIN D. HODGE
DB 232 PG 653
PB C PG 721



REVISIONS

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8/6/2025 10:00 AM
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11/11/2025

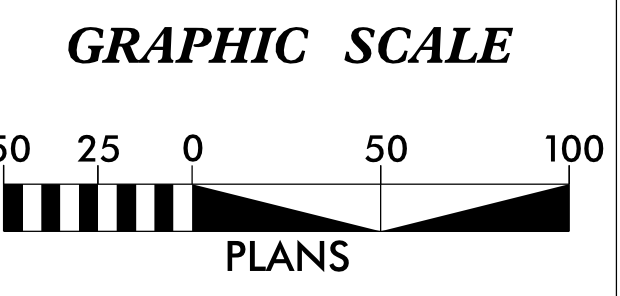
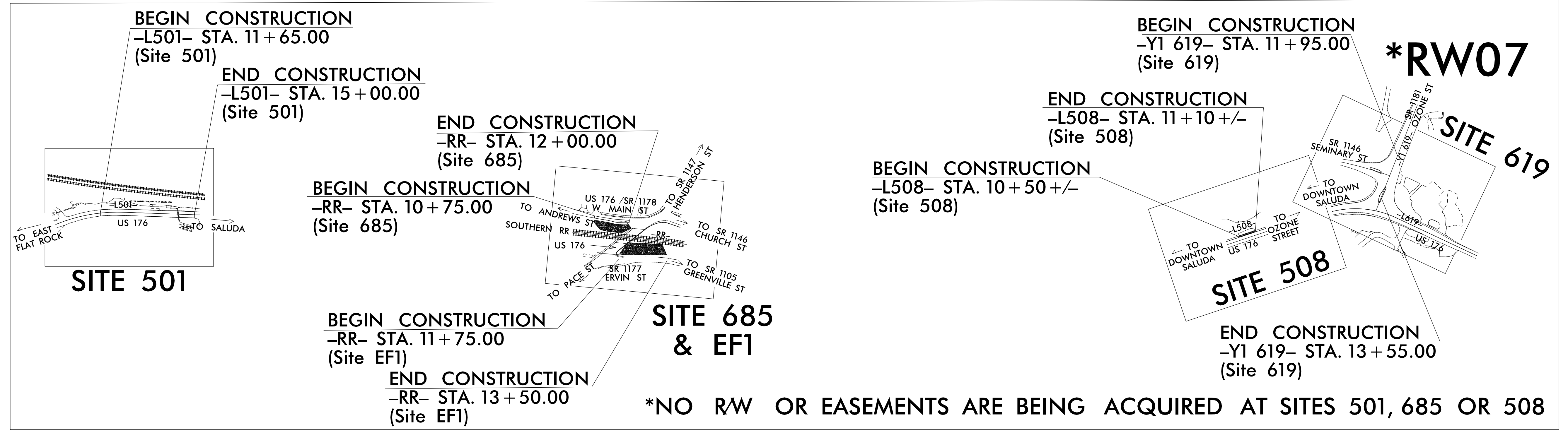
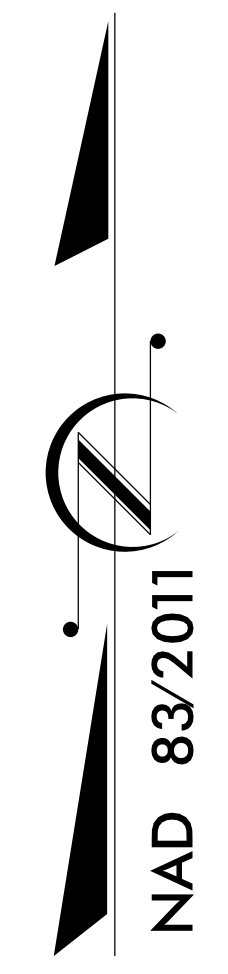
PROJECT: 18314.1075011

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SURVEY CONTROL, EXISTING CENTERLINES,
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

POLK COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	18314.1075011	RW01	5



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON COORDINATES AS SHOWN ON SHEET RW02C-1 CONTAINED WITHIN THIS PLAN SET. SEE SHEET RW02C-1 FOR FURTHER REFERENCE.

Prepared in the Office of:

TGS ENGINEERS
 201 WEST MARION STREET
 SUITE 200
 SHELBY, NC 28150
 PH (704) 476-0003
 CORP. LICENSE NO.: C-0275

2024 STANDARD SPECIFICATIONS

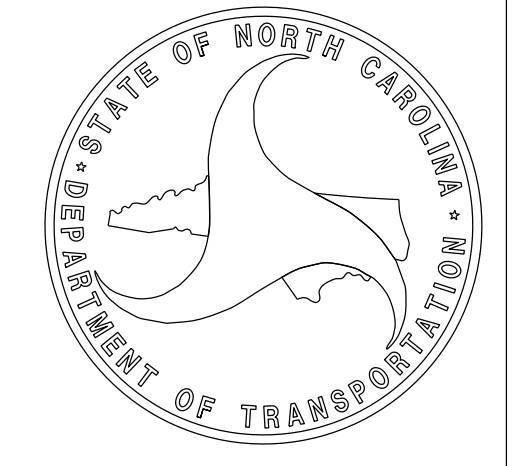
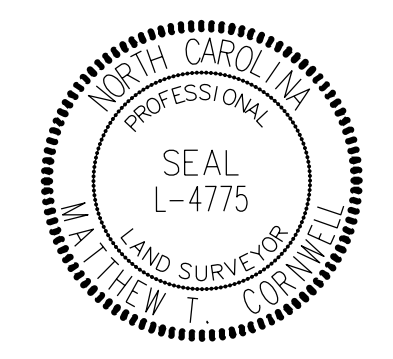
RIGHT OF WAY DATE:
8/22/2025

LETTING DATE:
1/13/2026

PROFESSIONAL LAND SURVEYOR

Signed by:
Matthew Cornwell
E0039811473E475

9/23/2025



SURVEY CONTROL SHEET

PROJECT REFERENCE NO. 18314.1075011	SHEET NO. RW02C-1
Location and Surveys	
<div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> TGS ENGINEERS 201 WEST MARION STREET SUITE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275 </div>	
PROJECT SURVEYOR	
Signed by: <div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> SEAL L-4775 NORTH CAROLINA PROFESSIONAL LAND SURVEYOR MATTHEW T. CORNWELL </div>	
9/23/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



I, Matthew T. Cornwell, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: RTN
 Dates of survey: March 2025
 Datum/Epoch: NAD83/2011
 Published/Fixed-control use: N/A
 Localized around: SEE NOTES
 Northing: SEE NOTES
 Easting: SEE NOTES
 Combined grid factor: SEE NOTES
 Geoid model: GEOID18
 Units: US SURVEY FEET

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed March 2025, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 9/23/2025

Signed by:
 Professional Land Surveyor L-4775

SITE LOCALIZATION INFORMATION FOR SITE 501 AND SITE 685:

LOCALIZED ABOUT: 501-1
 N: 557856.860
 E: 998678.922
 EL: 2071.94
 CGF: 0.99977841

.....
 BMI ELEVATION = 2029.75
 N 557852 E 997847
 BL STATION 5+00.00
 S 79+27'58.9" W DIST 151.21
 RR SPIKE IN BASE OF 42" POPLAR

BL	POINT	DESC.	NORTH	EAST	ELEVATION
BL3	BL-3A		557879.8514	997995.5817	2038.02
1	501-1		557856.8600	998678.9220	2071.94
2	USGS Z39		557839.6620	999463.5660	2080.71
3	BL-3		557901.5080	999470.7806	2090.57
4	BL-4		557823.1444	999889.2992	2114.92

SITE LOCALIZATION INFORMATION FOR SITE 508 AND SITE 619:

LOCALIZED ABOUT: 996-1
 N: 557921.167
 E: 1002562.561
 EL: 2120.78
 CGF: 0.99977608

.....
 BMI ELEVATION = 2118.91
 N 557889 E 1002846
 BL STATION 11+39.00 118 LEFT
 RR SPIKE IN BASE OF 32" DBL WALNUT

BL	POINT	DESC.	NORTH	EAST	ELEVATION
2	996-2		558254.4030	1002745.0170	2125.01
1	996-1		557921.1670	1002562.5610	2120.78
3	BY-3		557762.6974	1002828.2988	2120.58

NOTES:

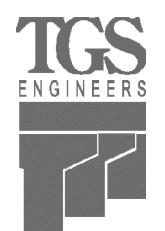


1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

22-SEP-2025 14:22 S:\surveyors\projects\ncdot\W032993 - US176 (Saluda)\SITE 619 RW STAKING\WTC\us176_townsites.ls-rw02c-1.dgn mcornewell AT MICORNEWELLTAP TOP

9/2025

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
18314.1075011	RW02D-1
Location and Surveys	
 <p>TGS ENGINEERS 201 WEST MARION STREET SUITE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275</p>	
PROJECT SURVEYOR	
Signed by:  <small>EB038F11473E475</small>	
9/23/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Matthew T. Cornwell, PLS, certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

This 9/23/2025

Signed by:

EB038F11473E475
 Professional Land Surveyor L-4775

REVISIONS

L619

TYPE	STATION	NORTH	EAST
PC	10+00.00	557868.4619	1002388.1590
PT	12+32.53	557846.2456	1002615.1014
POT	15+51.23	557710.6326	1002903.5030

Y1_619

TYPE	STATION	NORTH	EAST
POT	10+00.00	558248.5329	1002691.3252
POT	14+05.80	557870.6251	1002543.4659

Y2_619

TYPE	STATION	NORTH	EAST
PC	10+00.00	558044.9091	1002418.2275
PT	11+81.14	557995.8100	1002592.4454

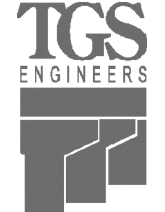

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE PROPOSED ALIGNMENT CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

23_SEP_2025_09:36
 C:\Users\mccorwell\OneDrive\Documents\ncdot\W03293 - US176 (Saluda)\SITE 619 RW STAKING\WTC\us176_townsites.ls_rw02d-1.dgn
 mcorwell

9/2025

PERMANENT EASEMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
18314.1075011	RW03E-1
Location and Surveys	
 <p>TGS ENGINEERS 201 WEST MARION STREET SUITE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275</p>	
PROJECT SURVEYOR	
<p>Signed by: <i>Matthew Cornwell</i> EBD09F11473E475</p>  <p>9/23/2025</p>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Matthew T. Cornwell, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed 9/15/2025, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 9/23/2025

Signed by:
Matthew Cornwell
EBD09F11473E475
Professional Land Surveyor L-4775

REVISIONS

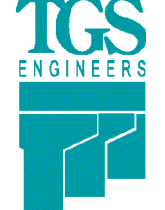
ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
L619	12+36.00	-74.04	557911.7747	1002649.7462
L619	12+48.00	-40.45	557876.2705	1002646.3117
L619	12+48.00	-55.00	557889.4358	1002652.5024


NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 9/15/2025.


23-SEP-2025 09:41
 C:\Users\mccorwell\OneDrive\Documents\Projects\ncdot\W03293 - US176 (Saluda)\SITE 619 RW STAKING\WTC\us176_townsites.ls.rw03e-1.dgn
 mcorwell

PROJECT REFERENCE NO. 18314.1075011	SHEET NO. RW07
Location and Surveys	
 TGS ENGINEERS 201 WEST MARION STREET SUITE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

PROJECT SURVEYOR

Signed by:

 Matthew Cornwell
 EBO30F11473E475


9/23/2025

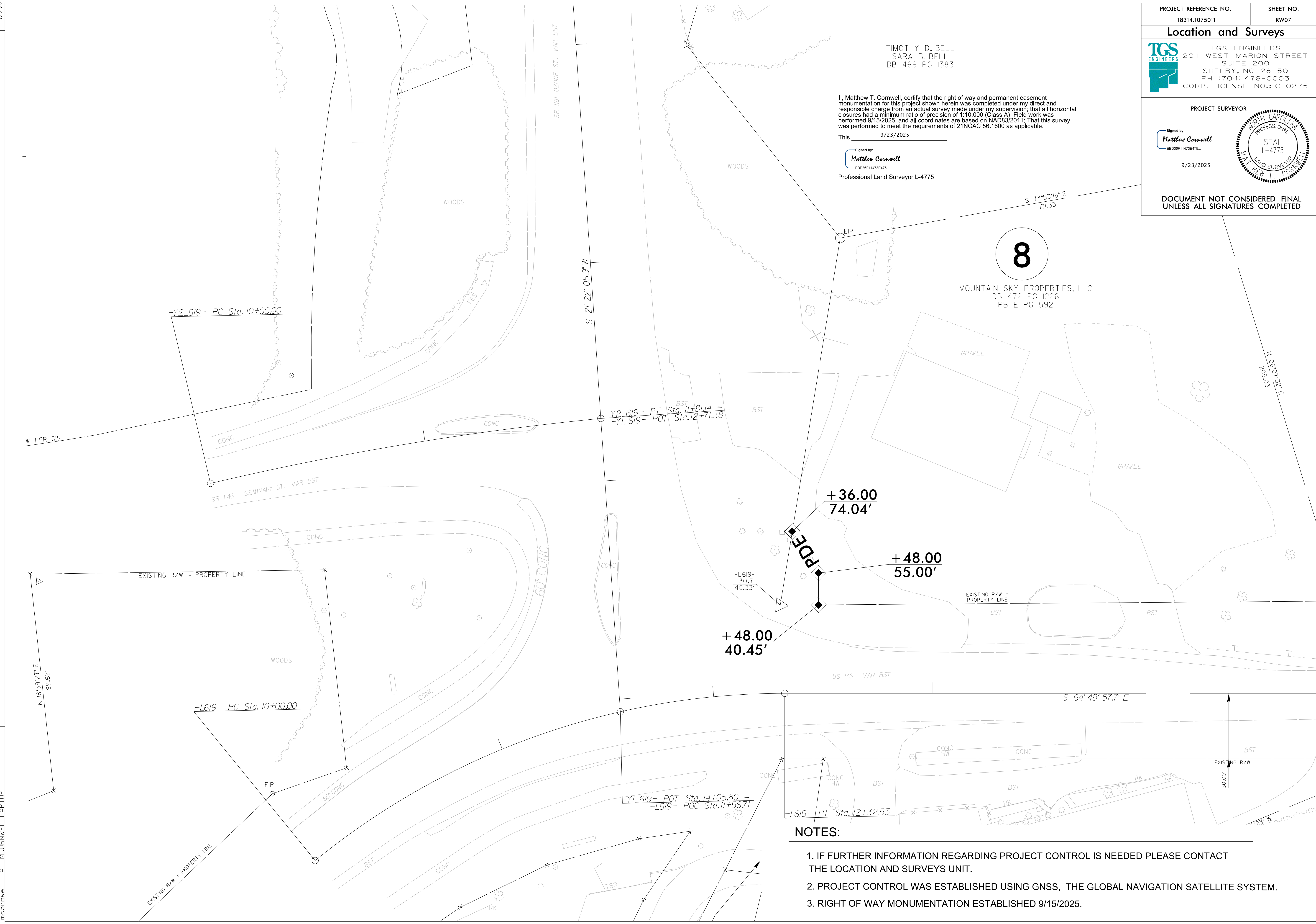


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TIMOTHY D. BELL
SARA B. BELL
DB 469 PG 1383

I, Matthew T. Cornwell, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed 9/15/2025, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 9/23/2025
 Signed by:

 Matthew Cornwell
 EBO30F11473E475
 Professional Land Surveyor L-4775



8

MOUNTAIN SKY PROPERTIES, LLC
DB 472 PG 1226
PB E PG 592

+36.00
74.04'

+48.00
55.00'

+48.00
40.45'

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 9/15/2025.

REVISIONS

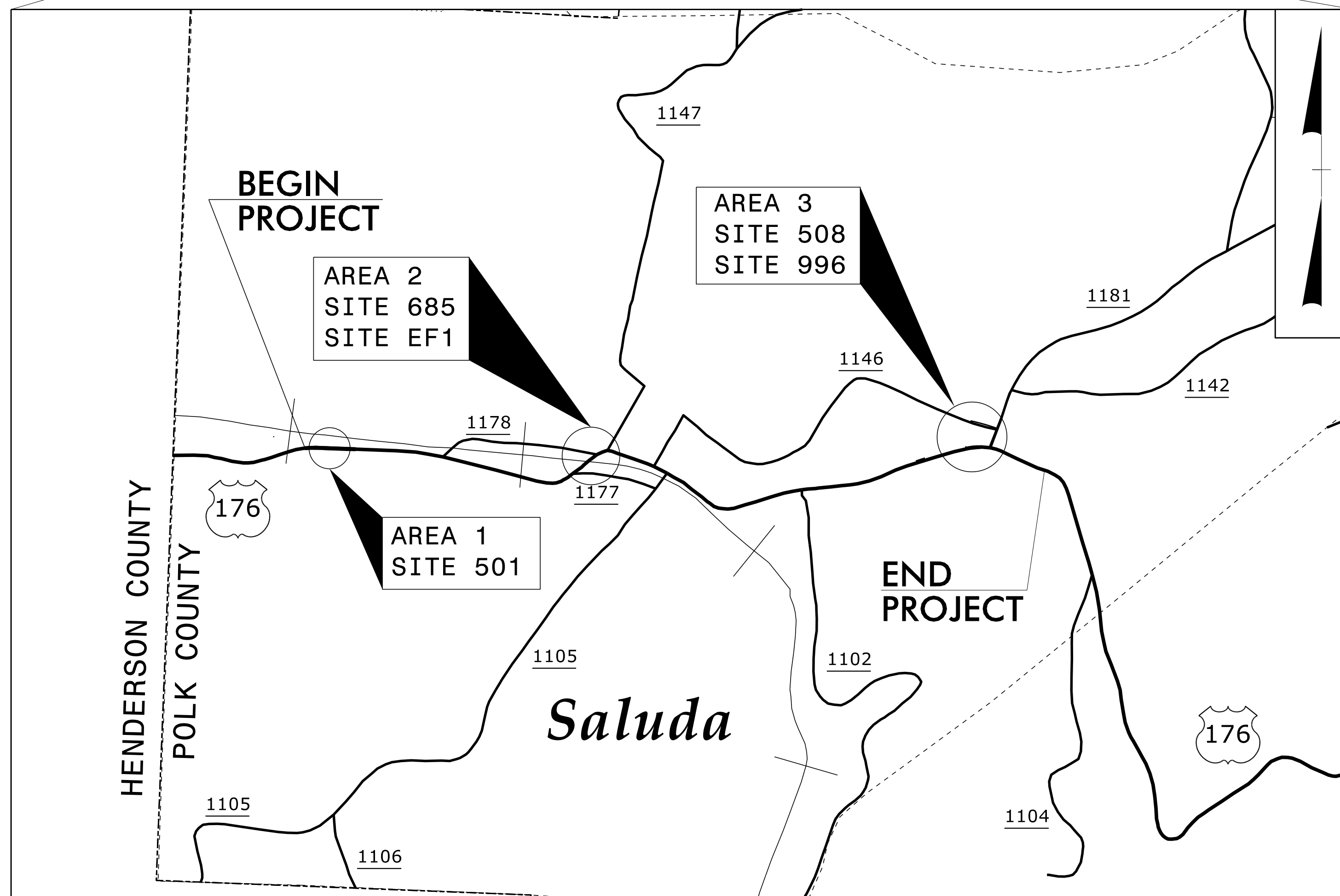
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

POLK COUNTY

LOCATION: US 176 (TOWN SITES)
TYPE OF WORK: GRADING, DRAINAGE, & PAVING



VICINITY MAP

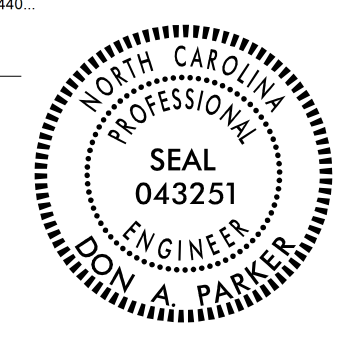
INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
TMP-3	PHASING
TMP-4	AREA 1 - SITE 501 AND AREA 3 - SITE 619 CROSS PIPE INSTALLATION DETAIL
TMP-5	AREA 1 - SITE 501 FULL DEPTH PAVING DETAIL
TMP-6	AREA 2 - SITE 685 AND SITE EF1 DETOUR SIGNING

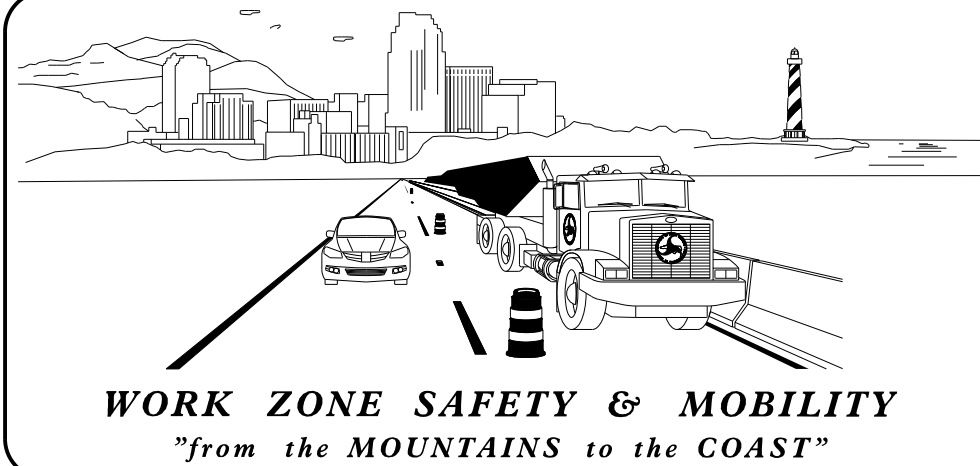
SHEET NO.
TMP-1

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UNLESS ALL SIGNATURES COMPLETED

APPROVED: *Don A. Parker*
DATE: 11/6/2025



SEAL

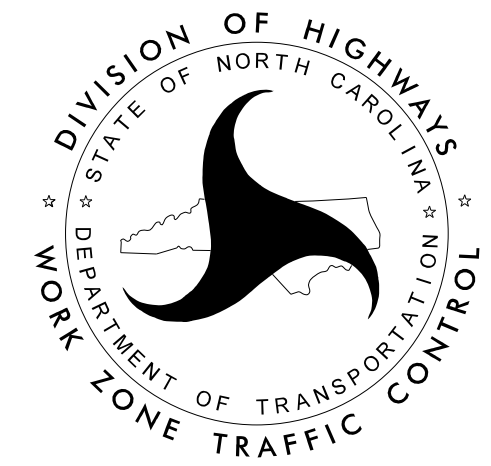


PLANS PREPARED FOR N.C.D.O.T. BY: TGS ENGINEERS

TGS ENGINEERS
706 HILLSBOROUGH ST. SUITE 200
RALEIGH, NC 27603
PH (919) 773-8887
CORP. LICENSE NO.: C-0275

DON A. PARKER, P.E.
PROJECT ENGINEER

CODA BRANNAN, E.I.
DESIGN ENGINEER



PROJECT: 18314.1075011

10/24/2025
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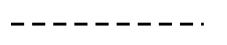
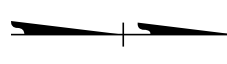
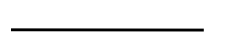
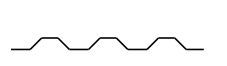
ROADWAY STANDARD DRAWINGS


THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

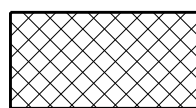
STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGERS
1180.01	SKINNY - DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.12	PAVEMENT MARKINGS - BRIDGES

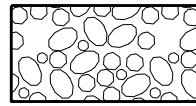
LEGEND

GENERAL

-  DIRECTION OF TRAFFIC FLOW
-  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
-  EXIST. PVMT.
-  NORTH ARROW
-  PROPOSED PVMT.
-  TEMP. SHORING (LOCATION PURPOSES ONLY)

 WORK AREA


 REMOVAL

 ABC







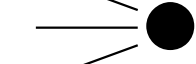




SIGNALS

-  EXISTING
-  PROPOSED
-  TEMPORARY


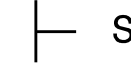

PAVEMENT MARKINGS

-  EXISTING LINES
-  TEMPORARY LINES


TRAFFIC CONTROL DEVICES

-  BARRICADE (TYPE III)
-  CONE
-  DRUM
-  SKINNY DRUM
-  TUBULAR MARKER
-  TEMPORARY CRASH CUSHION
-  FLASHING ARROW BOARD
-  FLAGGER
-  LAW ENFORCEMENT
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

-  PORTABLE SIGN
-  STATIONARY SIGN
-  STATIONARY OR PORTABLE SIGN

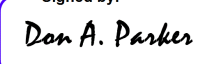
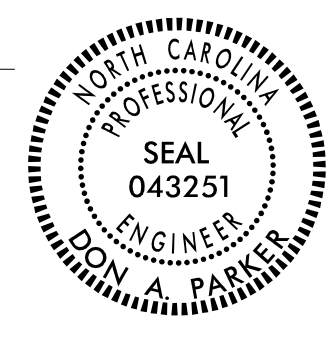
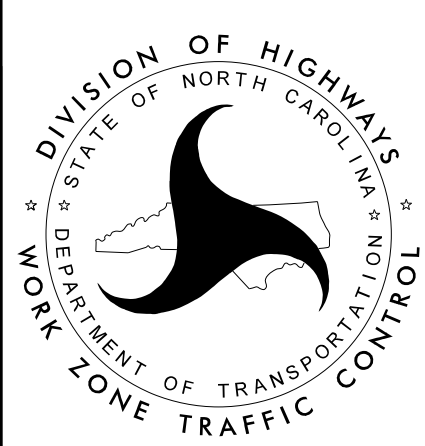
PAVEMENT MARKERS

-  CRYSTAL/CRYSTAL
-  CRYSTAL/RED
-  YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

-  PAVEMENT MARKING SYMBOLS

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APPROVED:  DATE: 11/6/2025			<h2>ROADWAY STANDARD DRAWINGS & LEGEND</h2>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- A) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- B) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- C) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 5 FT OF AN OPEN TRAVEL LANE ON AN UNDIVIDED FACILITY, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- E) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- F) DO NOT INSTALL MORE THAN 1 MILE OF LANE CLOSURE ON -L- GREEN RIVER COVE RD MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- G) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

 BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

 BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

 BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.
- H) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 100 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

- I) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- J) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- K) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS

 PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

- L) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

 COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

- M) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

- N) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 100 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

- O) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

- P) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

PAVEMENT MARKINGS AND MARKERS

- Q) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	NONE

- R) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- S) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- T) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

MANAGEMENT STRATEGIES

THE FOLLOWING LISTED WORK ZONE STRATEGIES ARE RECOMMENDED FOR INCLUSION WITHIN THIS TRANSPORTATION MANAGEMENT PLAN (TMP).

RECOMMENDED STRATEGIES:

TRAFFIC MANAGEMENT STRATEGIES:

- FULL ROADWAY CLOSURES
- LANE SHIFTS OR CLOSURES
- SHOULDER CLOSURES
- ONE-LANE, TWO WAY OPERATION (FLAGGING)
- ONE-LANE, TWO WAY OPERATION (SIGNALIZED)
- OFF-SITE DETOURS / USE OF ALTERNATIVE ROUTES

WORK ZONE SAFETY & MOBILITY STRATEGIES:

- TEMPORARY TRAFFIC SIGNALS
- AUTOMATED FLAGGER ASSISTANCE DEVICES (AFADS)

CONTRACTING & INNOVATIVE CONSTRUCTION STRATEGIES:

- INTERMEDIATE CONTRACT TIMES / LIQUIDATED DAMAGES

LOCAL NOTES

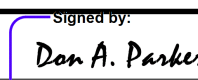
LOCAL NOTE 1 (CROSSPIPE INSTALLATION - SEE TMP-4):

INSTALL CROSSPIPES AS FOLLOWS, UNLESS DIRECTED OTHERWISE BY THE ENGINEER:

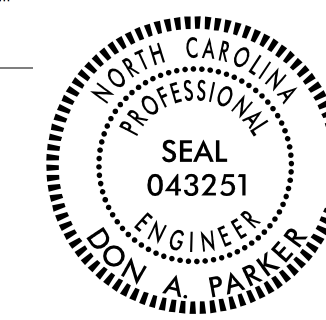
- A. IF NEEDED (AS DETERMINED BY THE ENGINEER) TO PROVIDE SPACE FOR A 1 LANE-2 WAY FLAGGING OPERATION, USE FLAGGERS TO PLACE A 3 FT WIDE X 100 FT LONG X 6 INCH DEEP PAD OF INCIDENTAL STONE ON THE UPSTREAM SHOULDER.
- B. BEGINNING DOWNSTREAM AND USING FLAGGERS, INSTALL FIRST HALF OF CROSSPIPE TO THE CENTERLINE OF THE EXISTING ROAD. AT NO TIME SHALL THE CONTRACTOR LEAVE THE OPEN EXCAVATION UN-ATTENDED. (SEE DETAIL A ON TMP-4)
- C. BACKFILL, COVER WITH TRAFFIC BEARING STEEL PLATE AND REOPEN TO 2 LANE-2 WAY TRAFFIC AT THE END OF EACH DAILY WORK PERIOD.

 INSTALL PORTABLE 48" X 48" "STEEL PLATE AHEAD" (W8-24) 200 FT IN ADVANCE OF THE PLATE. SWEEP THE ROAD OF ANY LOOSE STONE AT THE END OF DAILY WORK PERIOD.
- D. REPEAT STEPS A THRU C FOR SECOND HALF OF CROSSPIPE.
- E. REPAIR ASPHALT PAVEMENT, REMOVE STONE, AND RE-GRADE SHOULDERS AS NECESSARY, AS DIRECTED BY THE ENGINEER

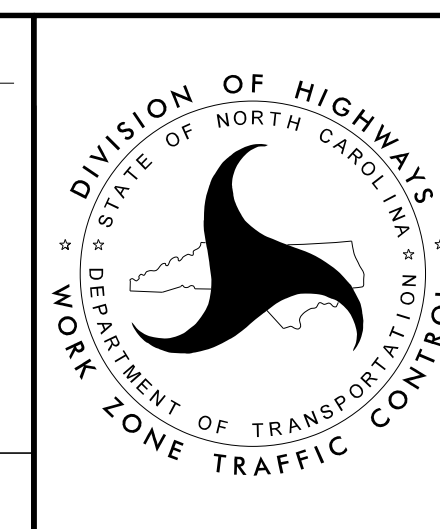
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DATE: 11/6/2025



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**TRANSPORTATION
OPERATIONS
PLAN**

PHASING

PROJ. REFERENCE NO. SHEET NO.

18314.1075011 TMP-3

TGS ENGINEERS
706 HILLSBOROUGH ST., SUITE 200
RALEIGH, NC 27603
PH (919) 773-8887
CORP. LICENSE NO.: C-0275

THIS PROJECT IS BROKEN UP INTO 3 INDEPENDANT AREAS AS DEFINED IN THE ROADWAY PLANS AND LABELED ON TMP-1. THE CONTRACTOR MAY CHOOSE THE ORDER IN WHICH THE AREAS ARE WORKED, AND MAY WORK AREAS CONCURRENTLY.

MAINTAIN TRAFFIC IN ACCORDANCE WITH DIVISIONS 10, 11, AND 12 OF THE NCDOT STANDARD SPECIFICATIONS AND THE TEMPORARY TRAFFIC CONTROL (TTC) DETAILS INCLUDED HEREIN.

RECORD THE LOCATION OF EXISTING PAVEMENT MARKINGS PRIOR TO ANY OPERATION THAT WILL DAMAGE OR REMOVE EXISTING MARKINGS.

FOR FLAGGING OPERATIONS, REFER TO ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1.

AUTOMATED FLAGGING ASSISTANCE DEVICES (AFAD) OR PORTABLE TRAFFIC SIGNALS (PTS) MAY BE USED TO ASSIST, SUPPLEMENT, OR REPLACE HUMAN FLAGGERS IN ACCORDANCE WITH THE FLAGGER PROVISION.

UNLESS STATED OTHERWISE IN THE PHASING OR PERMITTED OTHERWISE BY THE ENGINEER, RETURN TRAFFIC TO 2 LANE-2 WAY TRAFFIC AT THE END OF EACH DAILY WORK PERIOD.

MAINTAIN ACCESS TO RESIDENCES AND BUSINESSES AT ALL TIMES. CONDUCT GRADING AND PAVING OPERATIONS IN A MANNER THAT DOES NOT POND WATER.

THE USE OF TEMPORARY POSITIVE PROTECTION IS NOT ANTICIPATED AND SHALL NOT BE PERMITTED UNLESS APPROVED BY THE ENGINEER.

PRIOR TO BEGINNING CONSTRUCTION IN ANY AREA, INSTALL WORK ZONE ADVANCE WARNING SIGNS IN ACCORDANCE WITH RSD 1101.01, SHEET 3. INSTALL STATIONARY BEGIN AND END ROAD WORK SIGNS ON BOTH ENDS OF US 176 AND OZONE DR.

AREA 1 (SITE 501)

STEP 1 -- USING FLAGGERS, INSTALL 2-30" RCP AT -L- STA. 14+42+/- IN ACCORDANCE WITH TMP-4 AND LOCAL NOTE NO. 1 ON TMP-1B.

STEP 2 -- USING FLAGGERS, MILL BOTH TRAVEL LANES 1.5" FROM -L501- STA. 11+65+/- TO -L501- STA. 15+00 +/- (SEE TMP-5).

STEP 3 -- USING FLAGGERS, CONSTRUCT FULL DEPTH PAVING UP TO BUT NOT INCLUDING THE FINAL LAYER FROM -L501- STA. 13+35+/- TO -L501- STA. 15+00 +/- AS FOLLOWS (SEE TMP-5):

- A. WITHIN A SINGLE WORK PERIOD AND WITH 1 LANE-2 WAY TRAFFIC IN THE LEFT LANE, REMOVE THE REMAINING PAVEMENT FROM THE RIGHT LANE, PREPARE SUBGRADE, AND PLACE 5" OF BASE COURSE TO WITHIN 1.5" OF THE LEFT LANE. ALLOW TO CURE, THEN REMOVE THE LANE CLOSURE AND RESTORE 2 LANE-2 WAY TRAFFIC.
- B. WITHIN A SINGLE WORK PERIOD AND WITH 1 LANE-2 WAY TRAFFIC IN THE RIGHT LANE, REMOVE THE REMAINING PAVEMENT FROM THE LEFT LANE, PREPARE SUBGRADE, AND PLACE 5" OF BASE COURSE TO THE SAME ELEVATION AS THE RIGHT LANE. ALLOW TO CURE, THEN REMOVE THE LANE CLOSURE AND RESTORE 2 LANE-2 WAY TRAFFIC.
- C. IN THE FOLLOWING WORK PERIOD AND WITHIN 72 HOURS, USE ALTERNATING LANE CLOSURES TO PLACE THE FIRST LAYER OF SURFACE COURSE FROM -L501- STA. 13+35+/- TO -L501- STA. 15+00 +/-
- D. REPLACE PAVEMENT MARKINGS WITH TEMPORARY PAINT.

STEP 4 -- USING FLAGGERS, PLACE THE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS.

STEP 5 -- REMOVE ALL TRAFFIC CONTROL DEVICES

AREA 2 (SITE 685, SITE EF1)

STEP 1 -- INSTALL AND COVER DETOUR SIGNING (SEE TMP-6).

NOTE: CONTRACTOR MAY CHOOSE THE ORDER TO WORK STEPS 2 AND 3 AND MAY ALSO WORK THEM CONCURRENTLY

COMPLETE THE WORK OF STEP 2 IN THIRTY (30) CALANDER DAYS (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES)

STEP 2 -- PERFORM THE WORK ADJACENT TO ERVIN ST. (SITE EF1) AS FOLLOWS:

- A. UNCOVER DETOUR SIGNING AND CLOSE ERVIN ST. TO THRU TRAFFIC.
- B. PER ROADWAY PLANS, REMOVE EXISTING GUARDRAIL, INSTALL 18" RCP AND INSTALL ROCK PLATED SLOPE ADJACENT TO ERVIN ST. INSTALL PROPOSED GUARDRAIL.
- C. RE-OPEN ERVIN ST. TO TRAFFIC.

COMPLETE THE WORK OF STEP 3 IN THIRTY (30) CALANDER DAYS (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES)

STEP 3 -- PERFORM THE WORK ON AND ADJACENT TO W MAIN (SITE 685) AS FOLLOWS:

- A. UNCOVER DETOUR SIGNING AND CLOSE W MAIN ST. TO THRU TRAFFIC.
- B. PER ROADWAY PLANS, INSTALL ROCK PLATED SLOPE ADJACENT TO W MAIN ST. AND INSTALL RIP RAP AROUND END BENT WALL.
- C. PERFORM FULL DEPTH PAVING, UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE.
- D. RE-OPEN W MAIN ST. TO TRAFFIC.

STEP 4 -- USING FLAGGERS, PLACE FINAL LAYER OF SURFACE COURSE.

-- INSTALL PROPOSED STOP SIGNS (SEE SIGNING PLAN).

STEP 5 -- REMOVE ALL TRAFFIC CONTROL DEVICES.

AREA 3 (SITE 508, SITE 619)

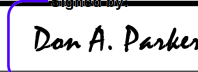
STEP 1 -- USE FLAGGERS TO PERFORM THE FOLLOWING:

-- INSTALL PROPOSED DRAINAGE NETWORK ADJACENT TO AND ACROSS OZONE DR. (SITE 619) (SEE ROADWAY PLANS AND LOCAL NOTE NO. 1)


-- REPAIR SIDEWALK ADJACENT TO US 176 (SEE ROADWAY PLAN)

STEP 2 -- REMOVE ALL TRAFFIC CONTROL DEVICES.

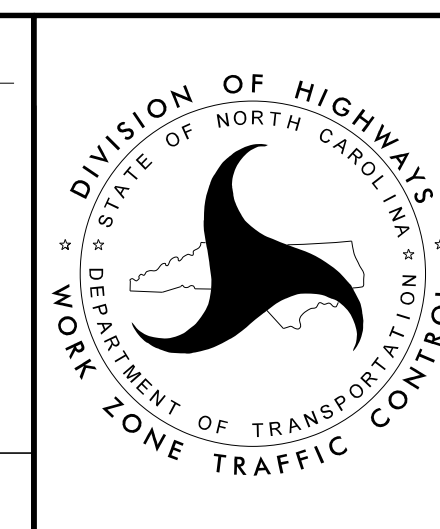
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User: tbrannon

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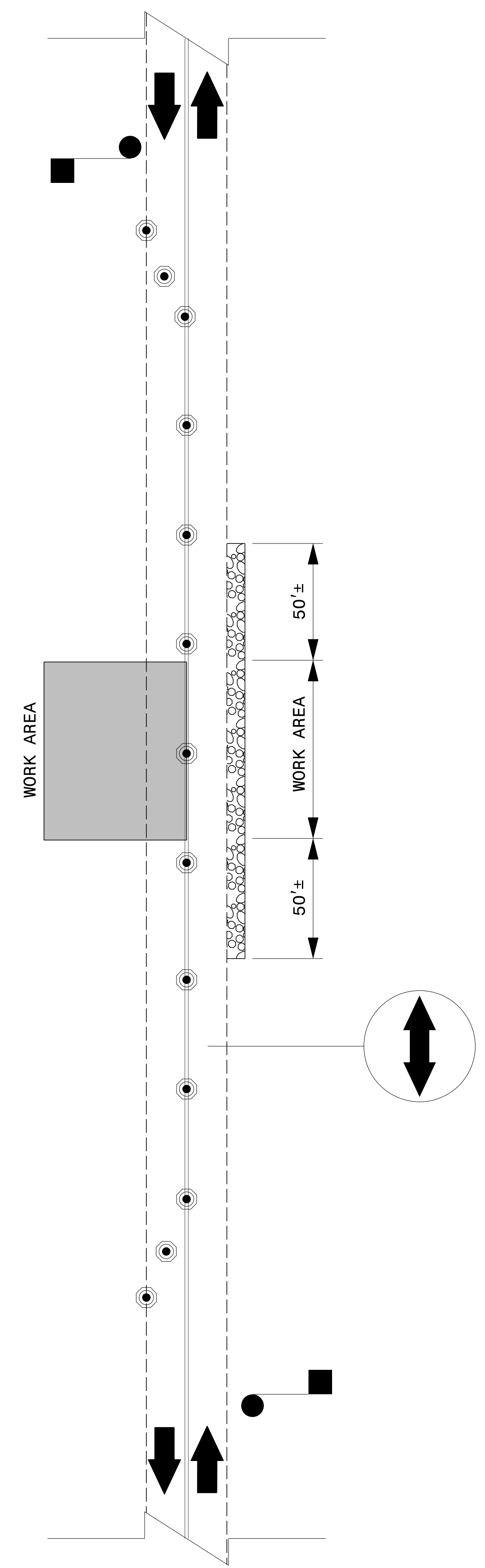
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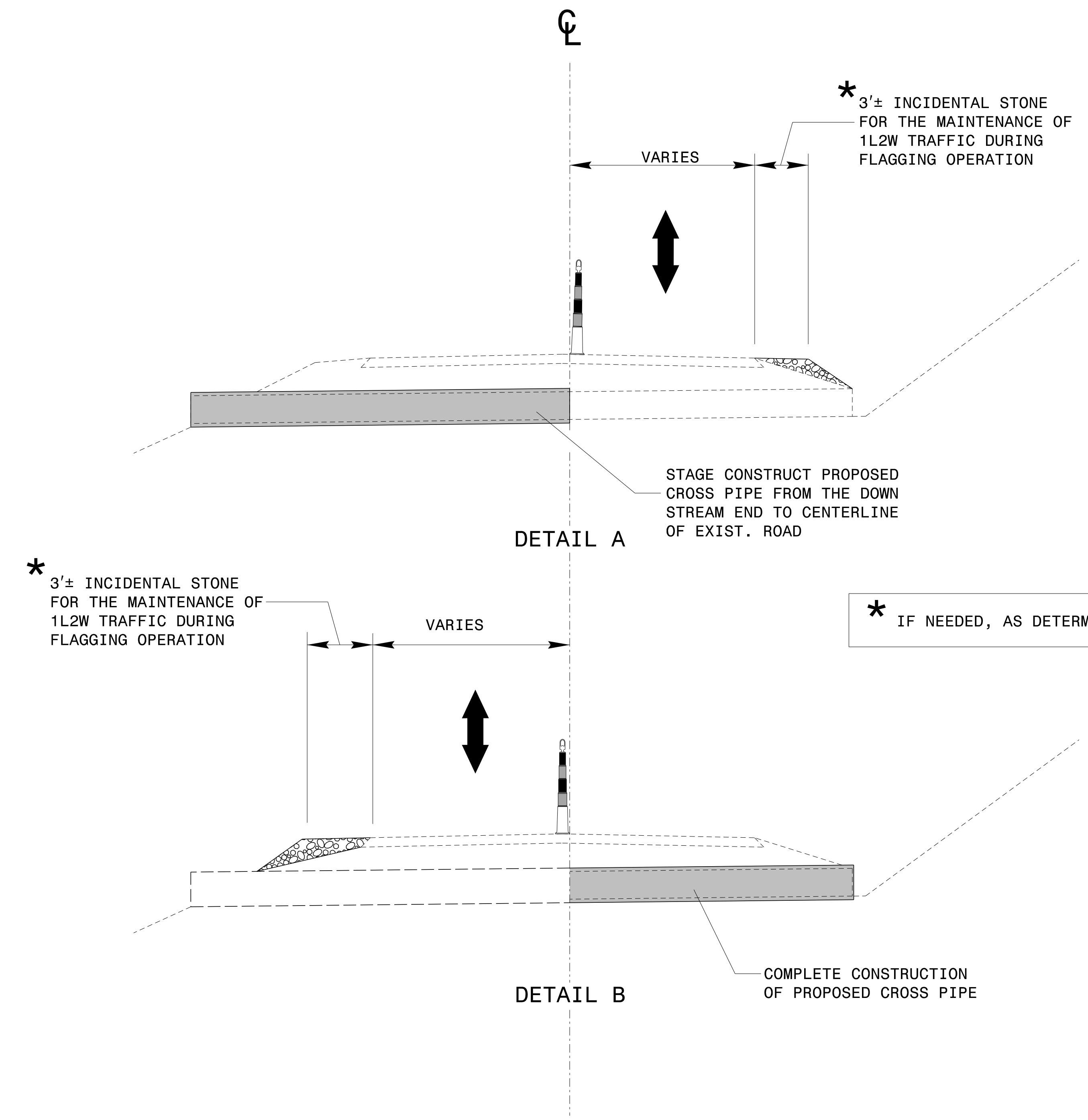
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PHASING





DOWNSTREAM SEGMENT SHOWN,
UPSTREAM TYP.



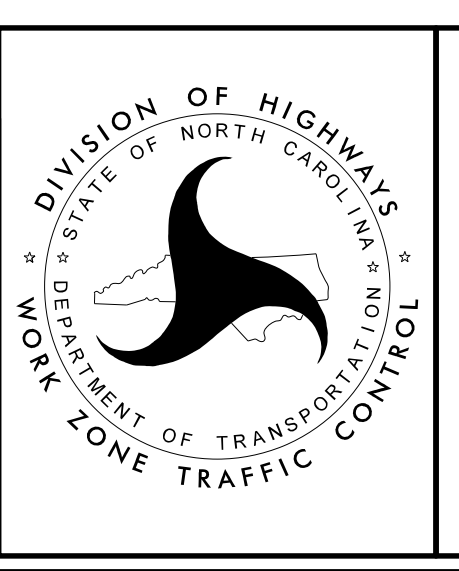
* IF NEEDED, AS DETERMINED BY THE ENGINEER

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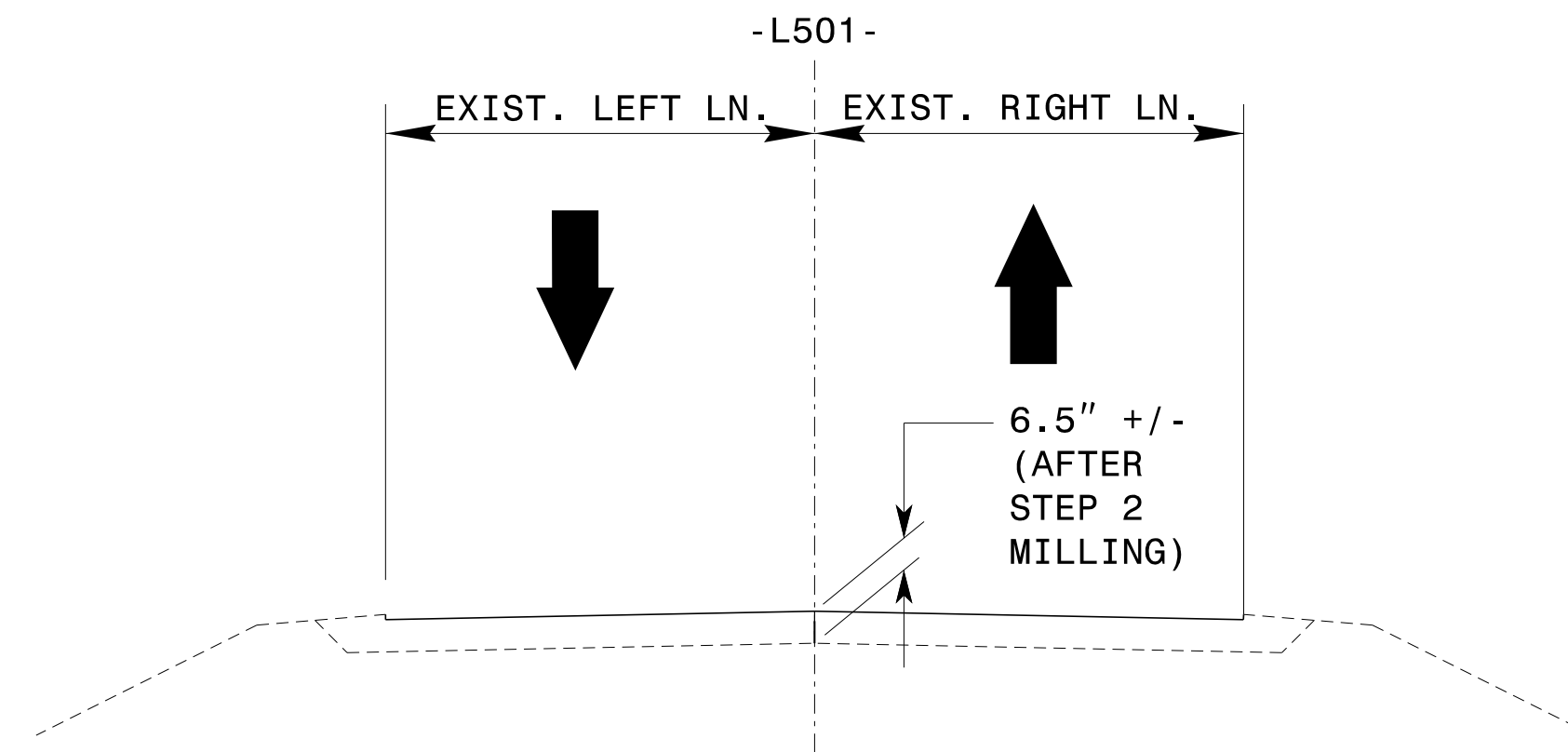
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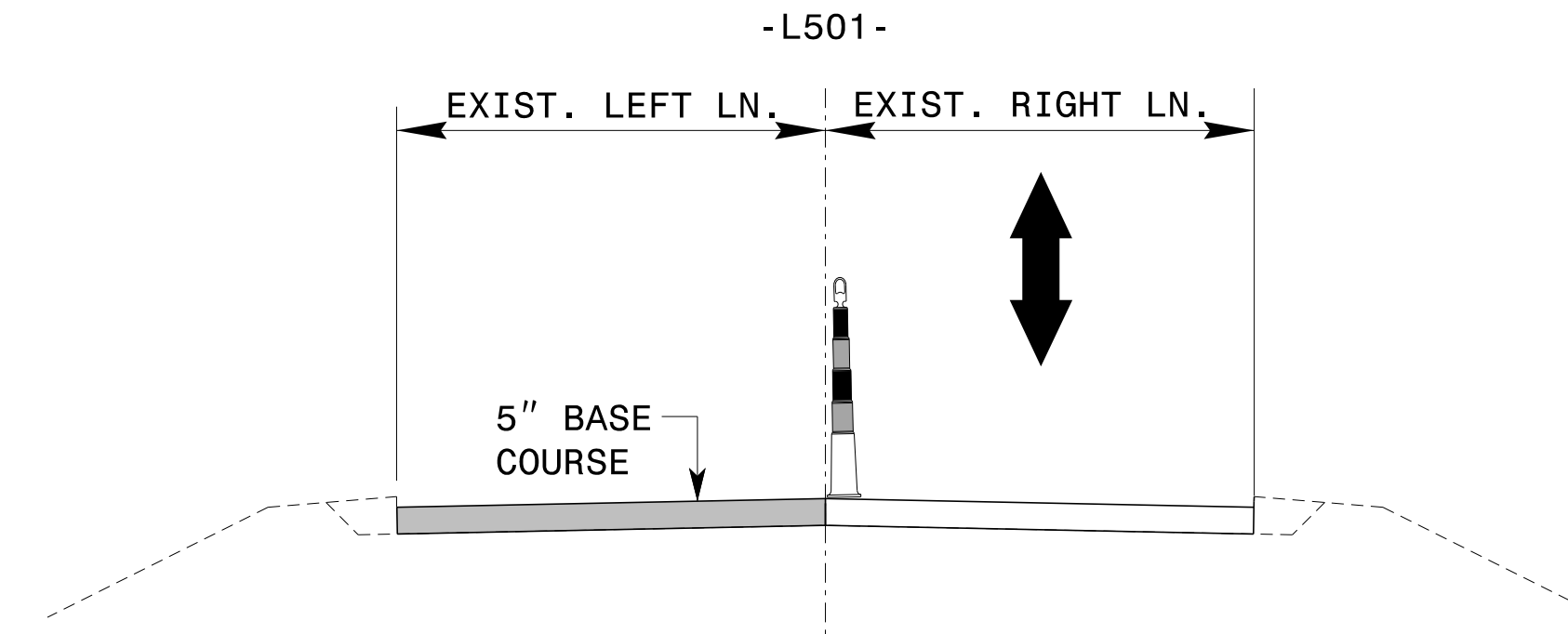


**AREA 1-SITE 501
AREA 3 - SITE 996
CROSS PIPE
INSTALLATION**



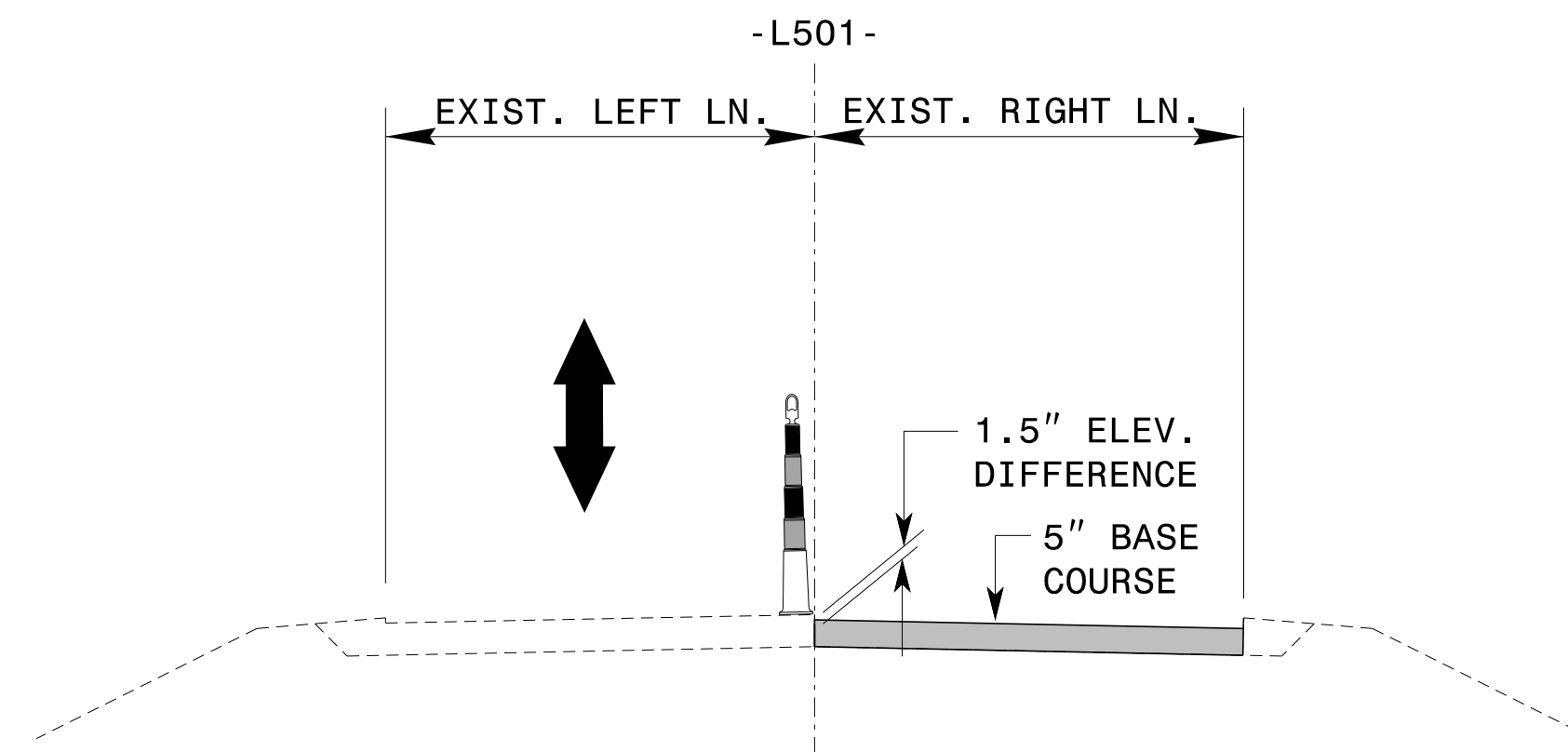
AREA 1 - STEP 2

USE FLAGGERS AND ALTERNATING LANE CLOSURES
TO MILL THE EXISTING LANES 1.5"



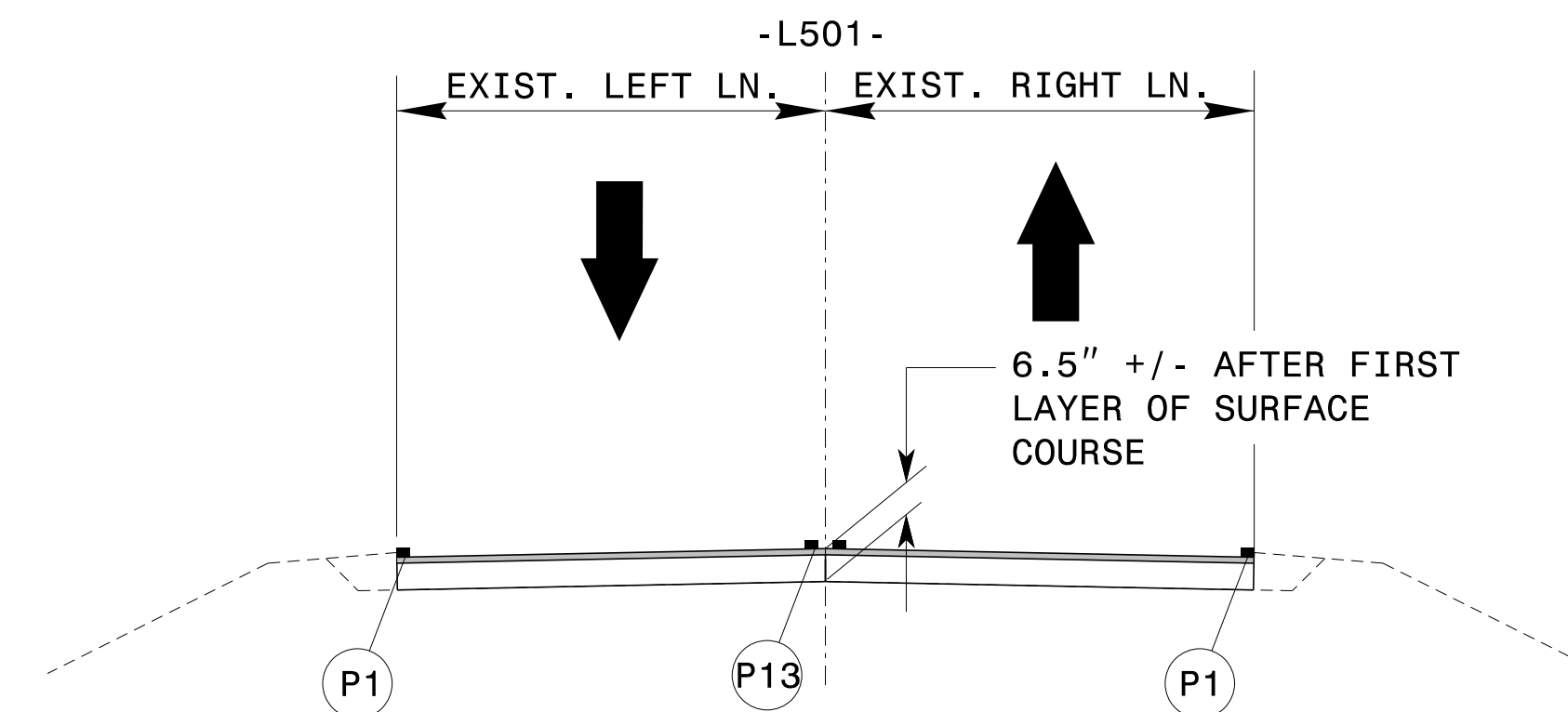
AREA 1 - STEP 3B

WITHIN A SINGLE WORK PERIOD, USE FLAGGERS
TO REMOVE REMAINING LEFT LANE
PAVEMENT AND PLACE 5" BASE COURSE.



AREA 1 - STEP 3A

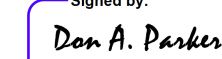
WITHIN A SINGLE WORK PERIOD, USE FLAGGERS
TO REMOVE REMAINING RIGHT LANE
PAVEMENT AND PLACE 5" BASE COURSE.




AREA 1 - STEP 3C

USE FLAGGERS AND ALTERNATING LANE CLOSURES
TO PLACE FIRST LAYER OF SURFACE COURSE
WITHIN 72 HOURS OF BASE COURSE PLACEMENT.

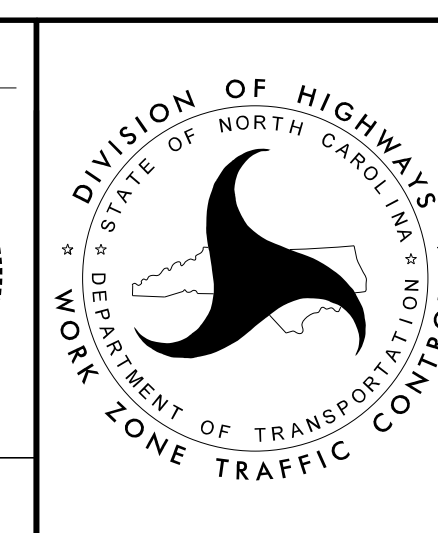
10/22/2025
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 User: rcdbrannan

APPROVED: 
75DB8E9ADEF440...

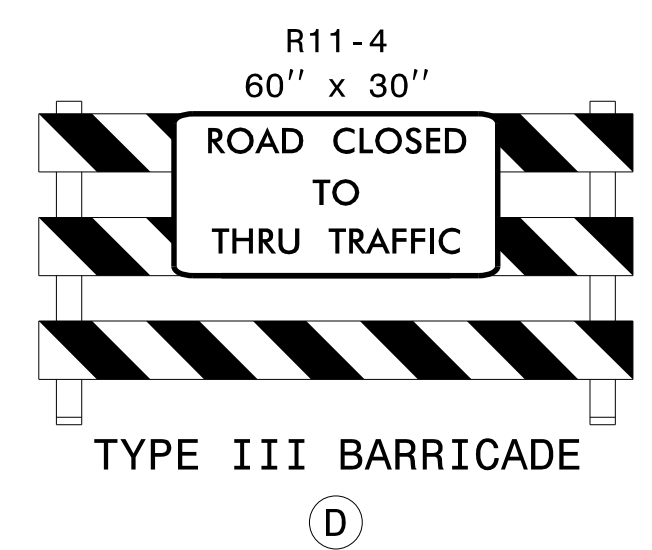
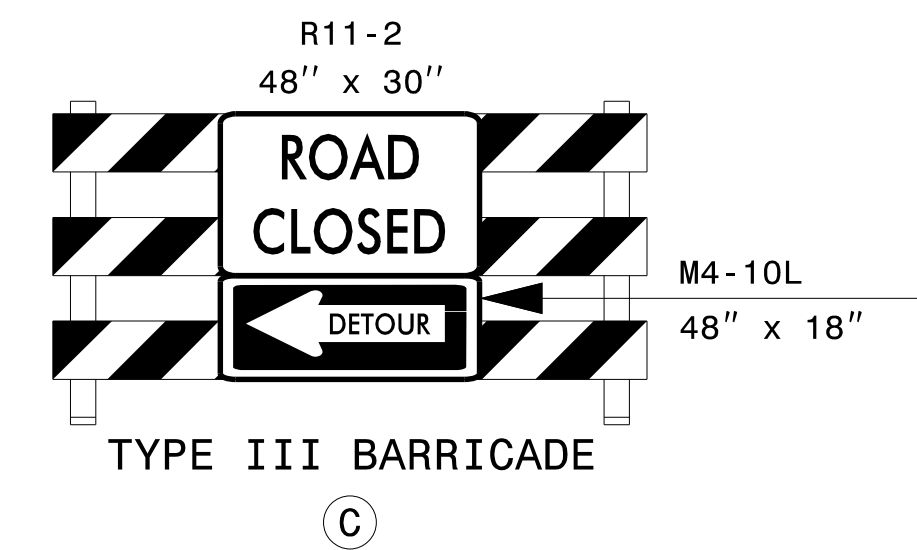
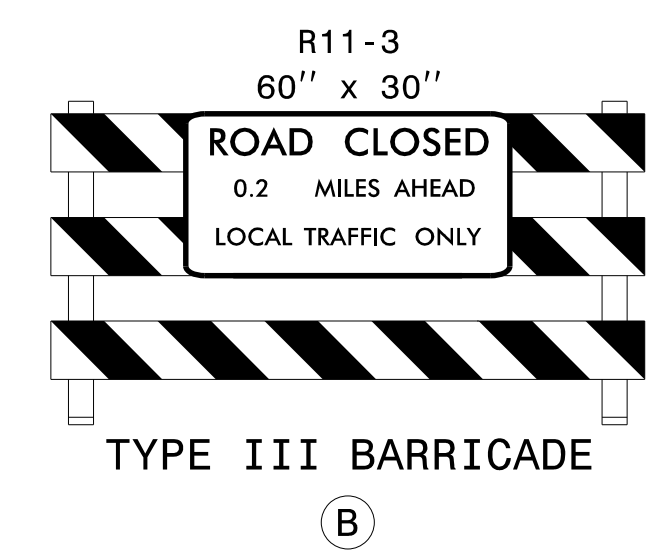
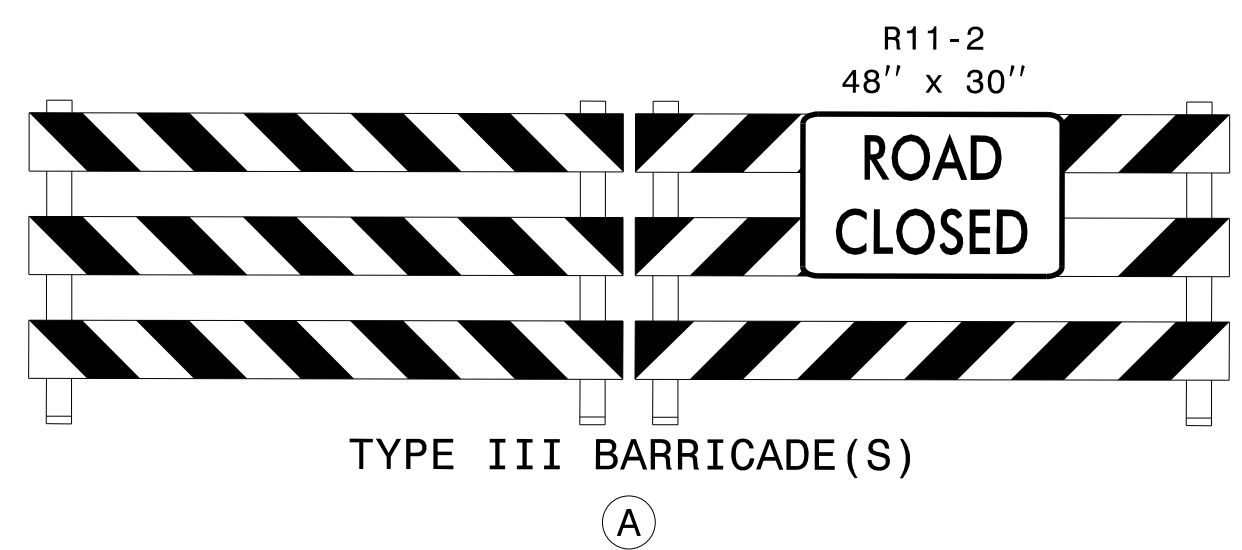
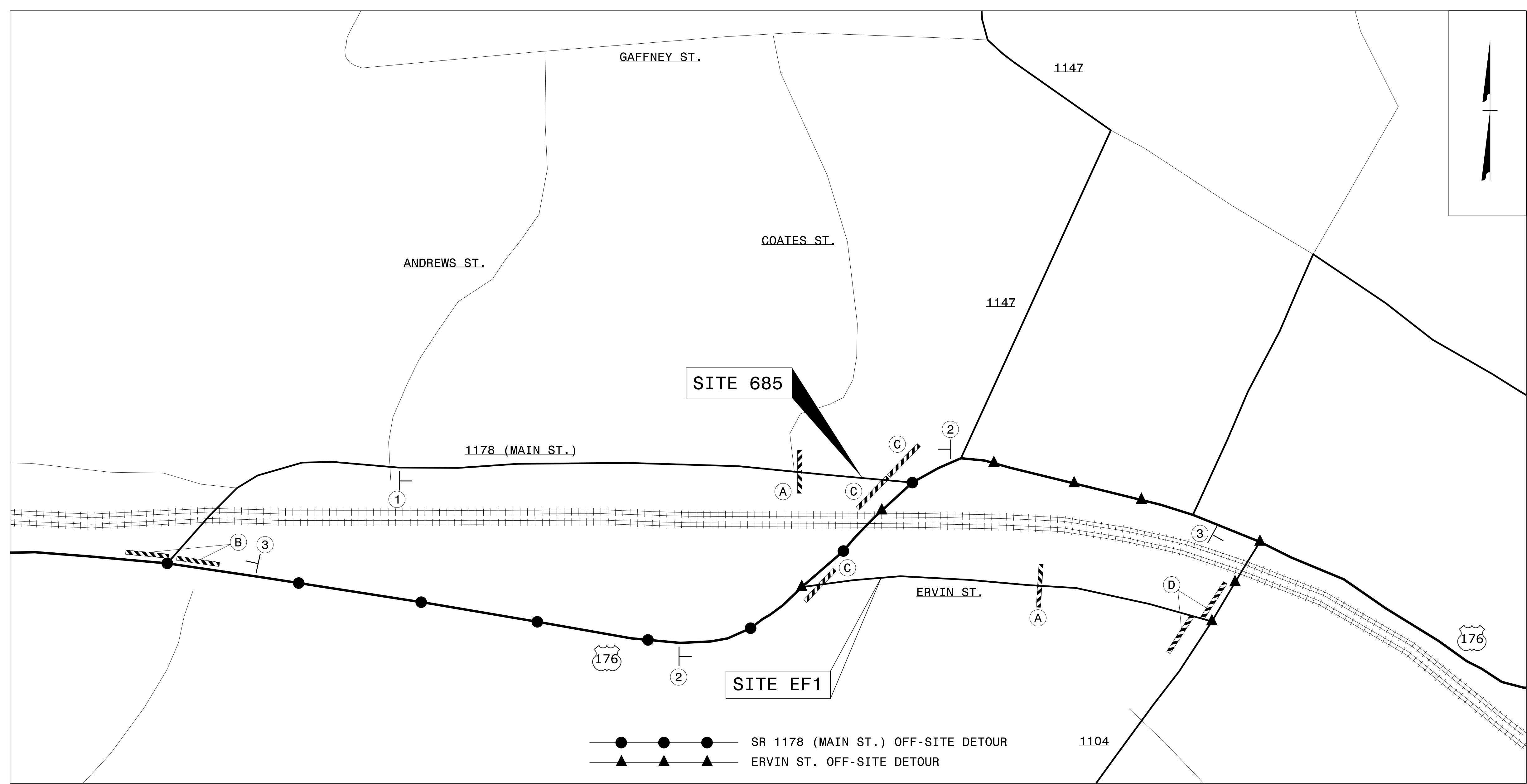
DATE: 11/6/2025



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



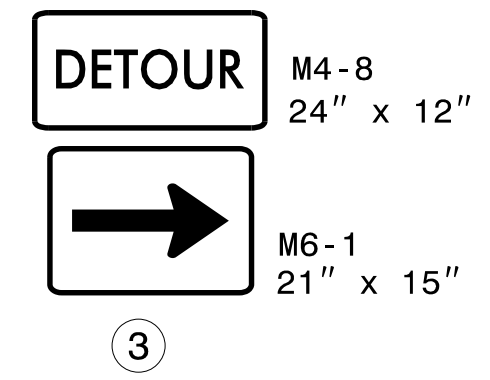
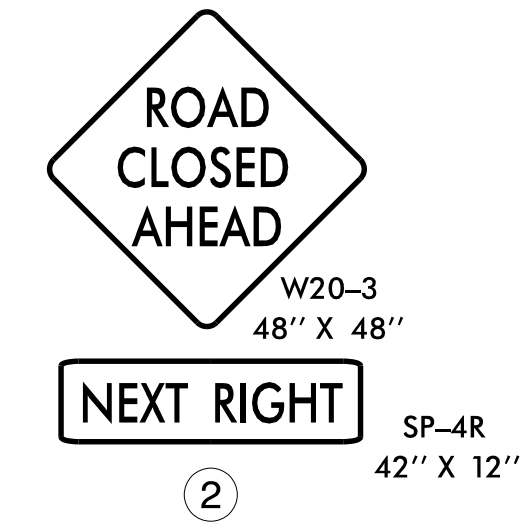
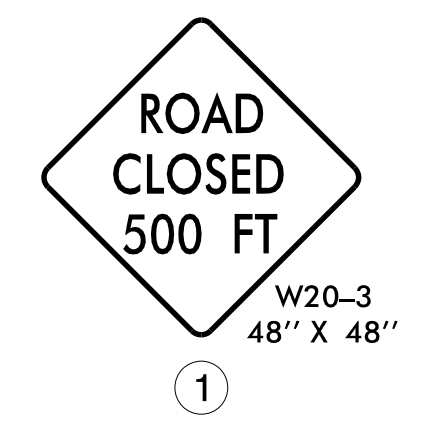
**AREA 1 - SITE 501
FULL DEPTH PAVING
DETAIL**

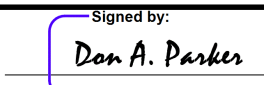


NOTE:


CONTRACTOR MAY CHOOSE THE ORDER TO WORK SITES 685 AND EF1 AND MAY ALSO WORK CONCURRENTLY.

CONTRACTOR WILL BE PERMITTED A THIRTY DAY CLOSURE OF MAIN ST. FOR SITE 685 AND ERVIN ST. FOR SITE EF1 (SEPARATELY OR CONCURRENTLY.) SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

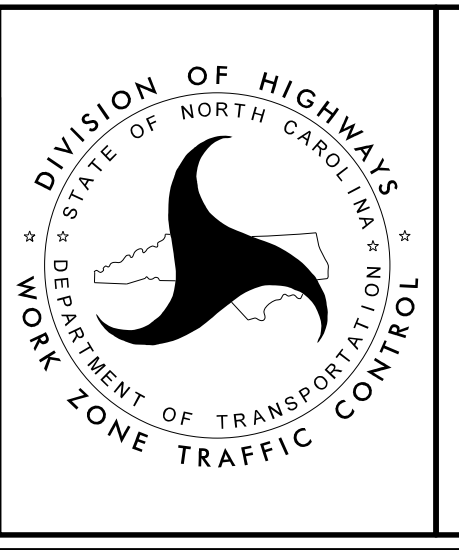


APPROVED:  Dan A. Parker
750898904DEF440...

DATE: 11/6/2025



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



**SITE 685 AND EF1
OFF-SITE DETOUR
SIGNING**

10/22/2025
 U:\VCDOT\Div 14 US 176 Repair\Work Zone Traffic Control\Town Sites\US176_TC_TMP_Site_685.dgn
 User:cdbrannen

PROJECT: 18314.1075011

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
POLK COUNTY**

**LOCATION: US 176 (TOWN SITES)
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND RETAINING WALLS**

TIP NO. 18314.1075011	SHEET NO. PMP - 1
APPROVED: Don A. Parker <small>75DB8E9ADEF440...</small>	
DATE: 11/6/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE, SCHEDULE SHEET, INDEX OF SHEETS, LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, GENERAL NOTES, AND FINAL PAVEMENT MARKING SCHEDULE
PMP-1A	REVISED ROADWAY STANDARD DRAWING (1250D01)
PMP-2	SITE 501 PAVEMENT MARKING DETAIL

GENERAL NOTES

- THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.
- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
US 176	THERMOPLASTIC	SNOWPLOWABLE (POLYCARBONATE H-SHAPED MARKERS)
 - B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
 - C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
 - D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.
 - E) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

FINAL PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
PAVEMENT MARKINGS	
	THERMOPLASTIC (4", 90 MILS)
T1	(4") WHITE EDGELINE
T13	(4") YELLOW DOUBLE CENTER
PAVEMENT MARKERS - SNOWPLOWABLE (POLYCARBONATE H-SHAPED)	
ME	YELLOW & YELLOW

ROADWAY STANDARD DRAWING

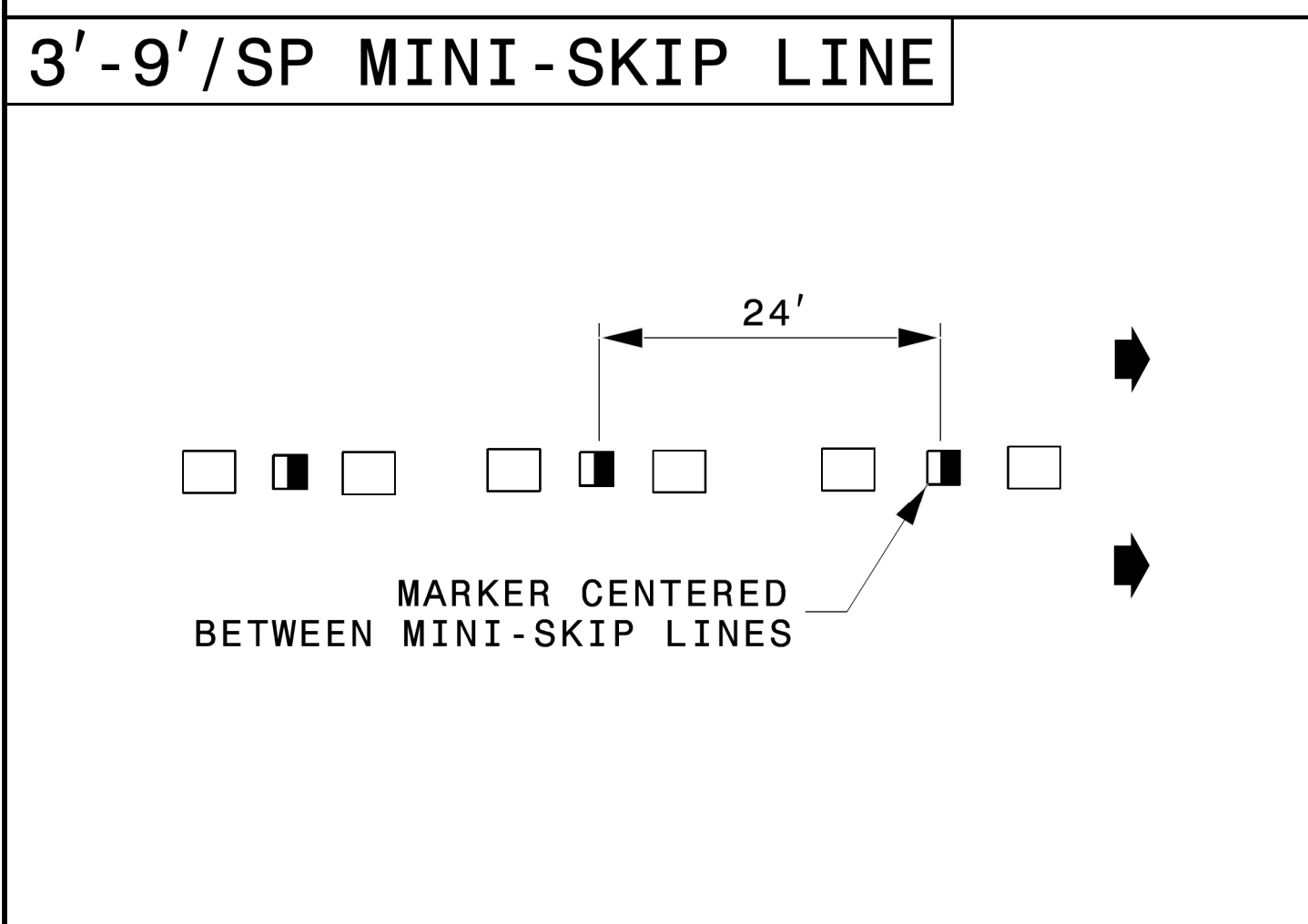
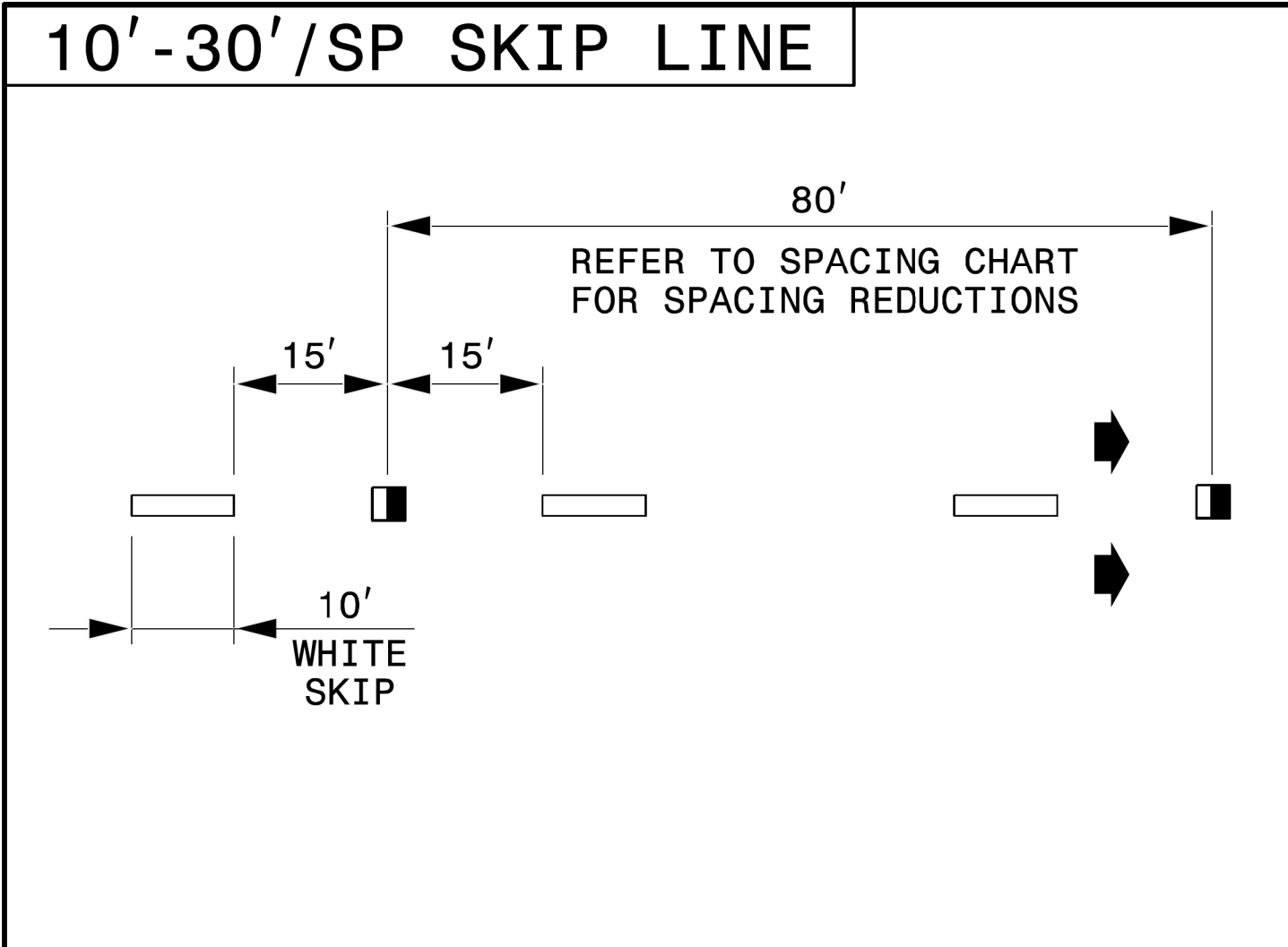
THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

PLAN SUBMITTED TO: NCDOT	
JEANETTE WHITE, P.E. DIVISION 14 PROJECT TEAM LEAD	

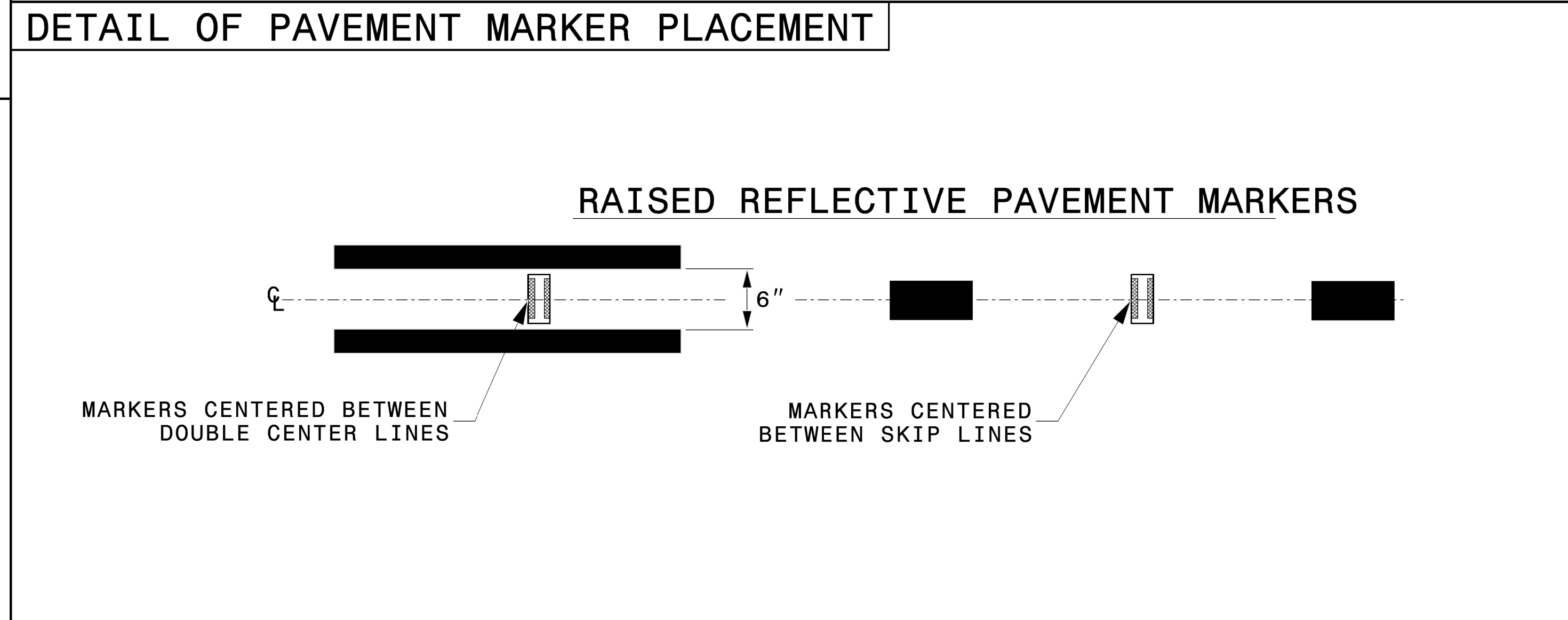
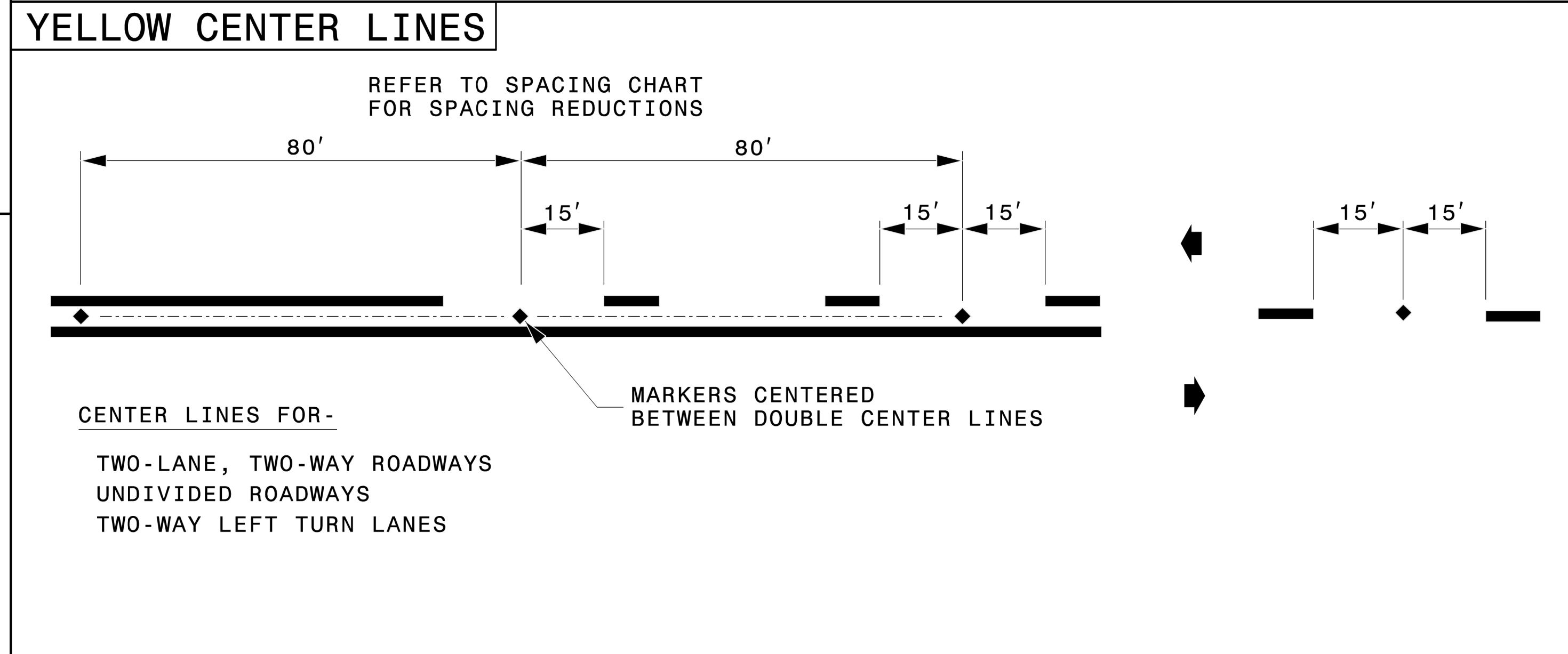
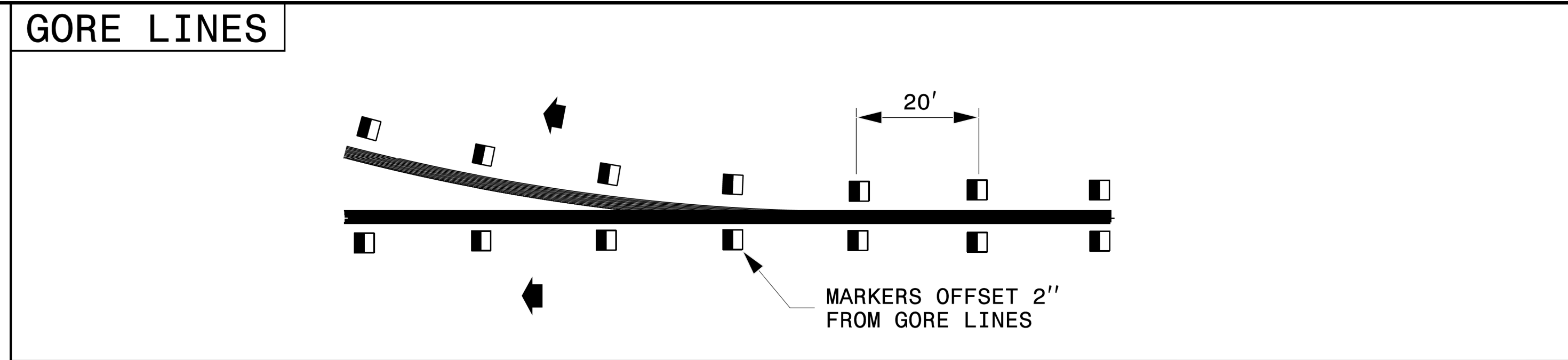
PLAN PREPARED BY: TGS ENGINEERS	
DON A. PARKER, P.E. PROJECT ENGINEER CODA BRANNAN, E.I. DESIGN ENGINEER	
TGS ENGINEERS 706 HILLSBOROUGH ST. SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

10/22/2025 10:22:25 AM N:\CDOT\Div_14 US 176 Repair\Signing and Delineation\ Pavement Marking\Town Sites\US 176_Town Sites_Sgn_PMP_01.dgn User: jbrannon



LEGEND

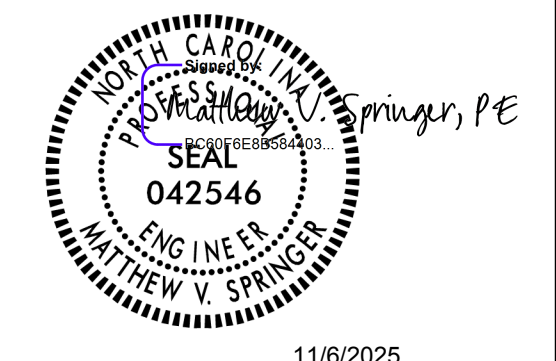
	CRYSTAL/RED PAVEMENT MARKER
	YELLOW/YELLOW PAVEMENT MARKER
	DIRECTION OF TRAFFIC FLOW



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
RAISED PAVEMENT MARKERS
INSTALLATION SPACING

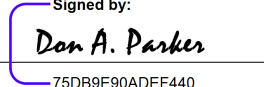
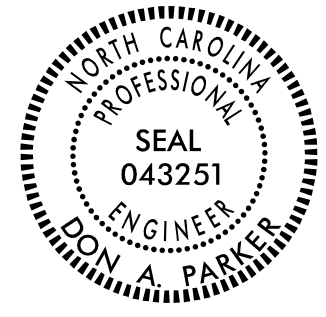

SHEET 2 OF 3
1250D01

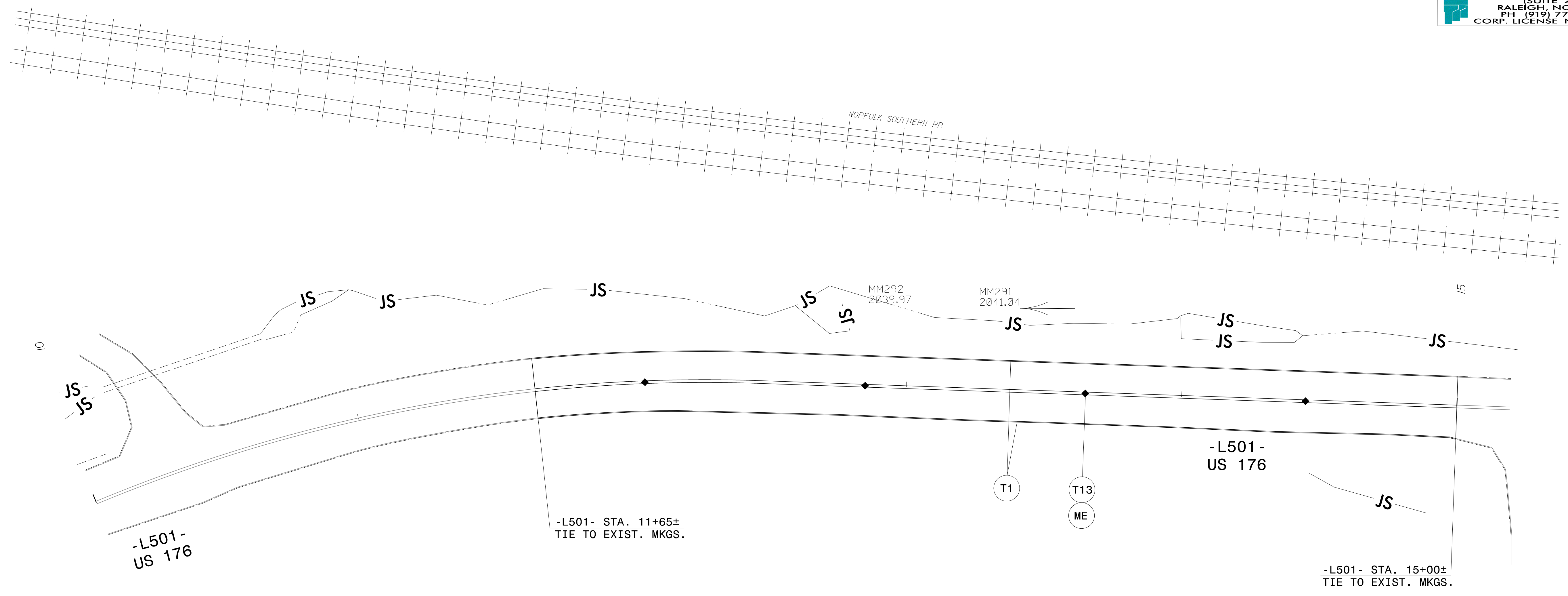
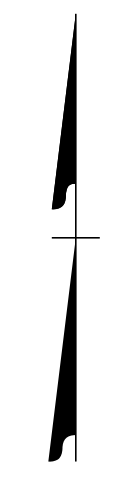


CONTRACTS STANDARDS AND DEVELOPMENT UNIT
Office 919-707-8950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: M.V. SPRINGER DATE: 2-15-24
MODIFIED BY: DATE: _____
CHECKED BY: DATE: _____
FILE SPEC.: _____

TIP NO. 18314.1075011	SHEET NO. PMP-2
APPROVED:  750B8E90ADE440..	
DATE: 11/6/2025	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 TGS ENGINEERS 706 HILLSBOROUGH STREET (SUITE 200) RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

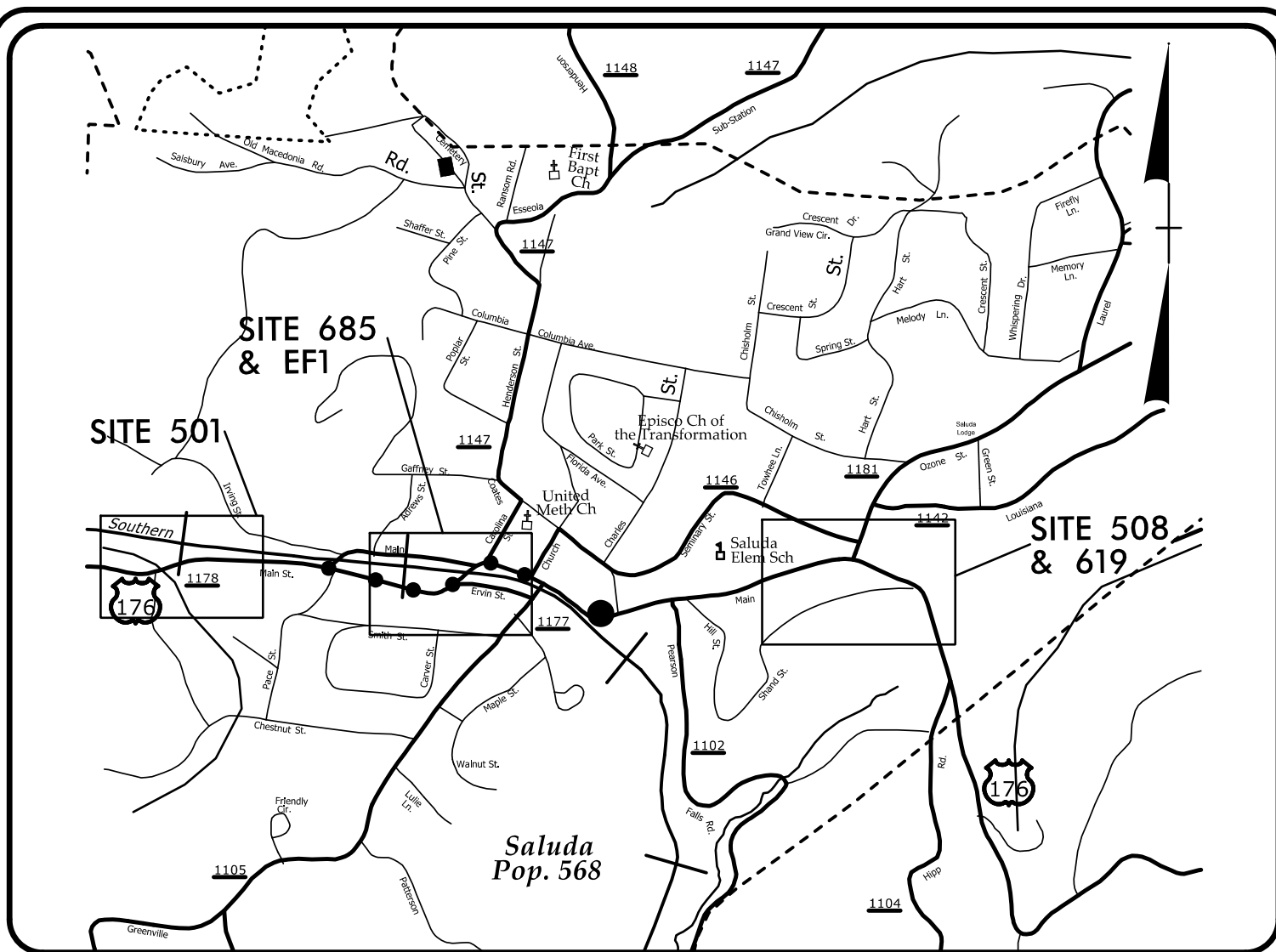


NOTE: SEE RSD 1250.01 FOR PAVEMENT MARKER INSTALLATION SPACING

**SITE 501
PAVEMENT MARKING DETAIL**

10/22/2025
 X:\NC01\Div 14 US 176 Repair\Signing and Delineation\Pavement Marking\Town Sites\US 176_Town Sites_Sgn_PMP_02.dgn
 User:rbannon

PROJECT: 18314.1075011



VICINITY MAP
NOT TO SCALE

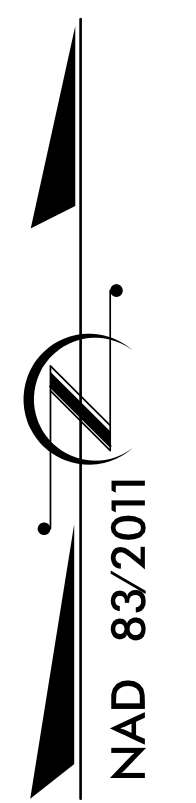
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL**

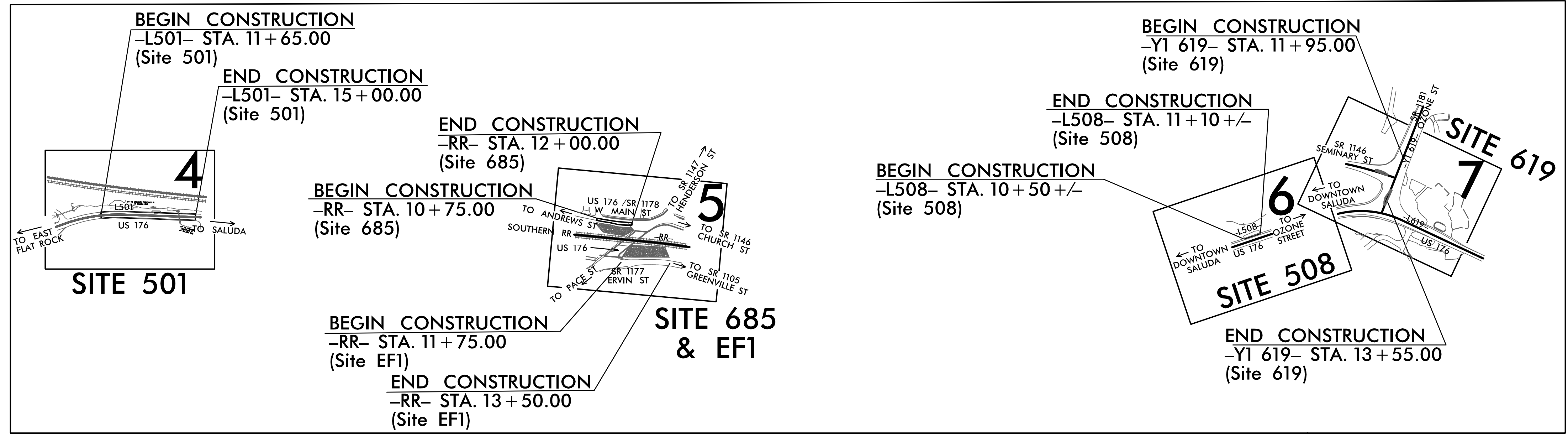
POLK COUNTY

LOCATION: US 176

TYPE OF WORK: GRADING, DRAINAGE, & PAVING



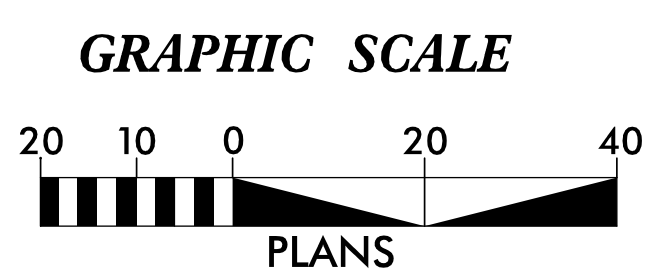
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	18314.1075011	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
SEE	ROADWAY	PLANS	



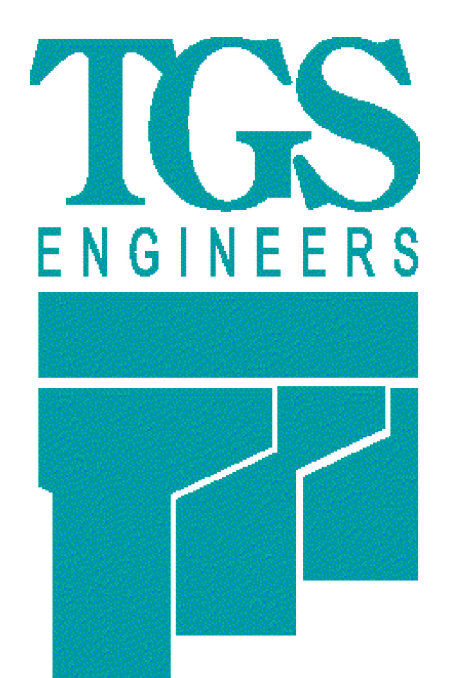
THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT
Refer To E. C. Special Provisions for Special Considerations.



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG 010000 GENERAL STORMWATER CONSTRUCTION PERMIT ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES.



Prepared In the Office of:
TGS ENGINEERS
201 W. MARION ST-STE 200
SHELBY, NC 28150

Designed by:
Andrew H. Cochrane, PE 3015
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2024 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

CONTRACT:

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

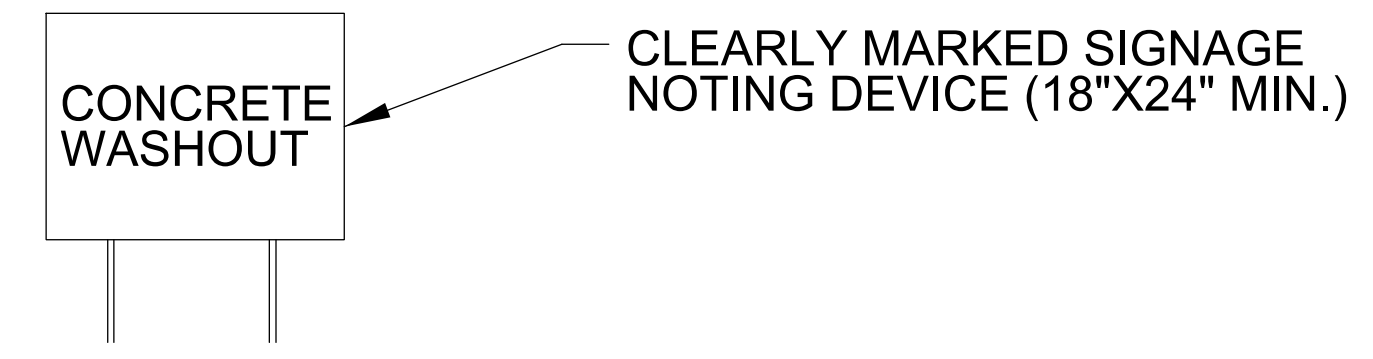
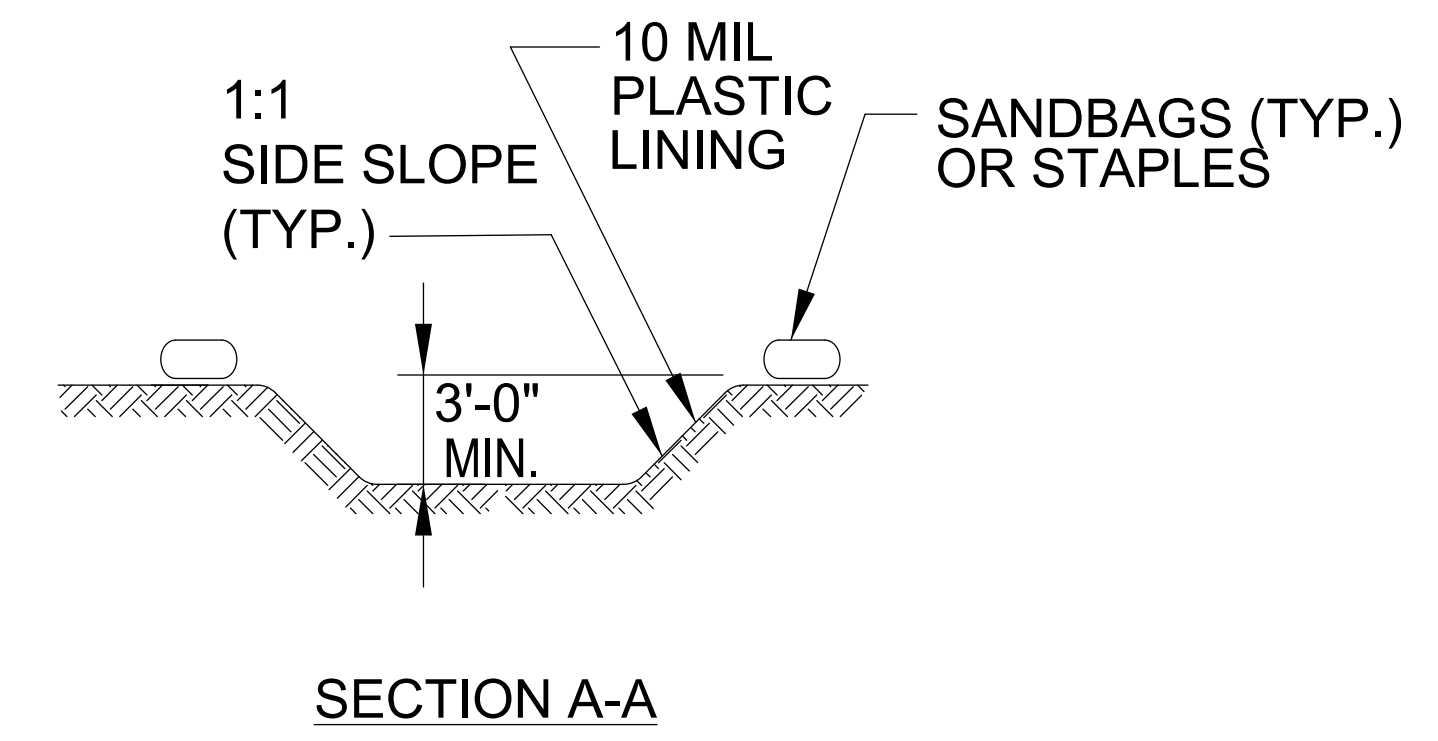
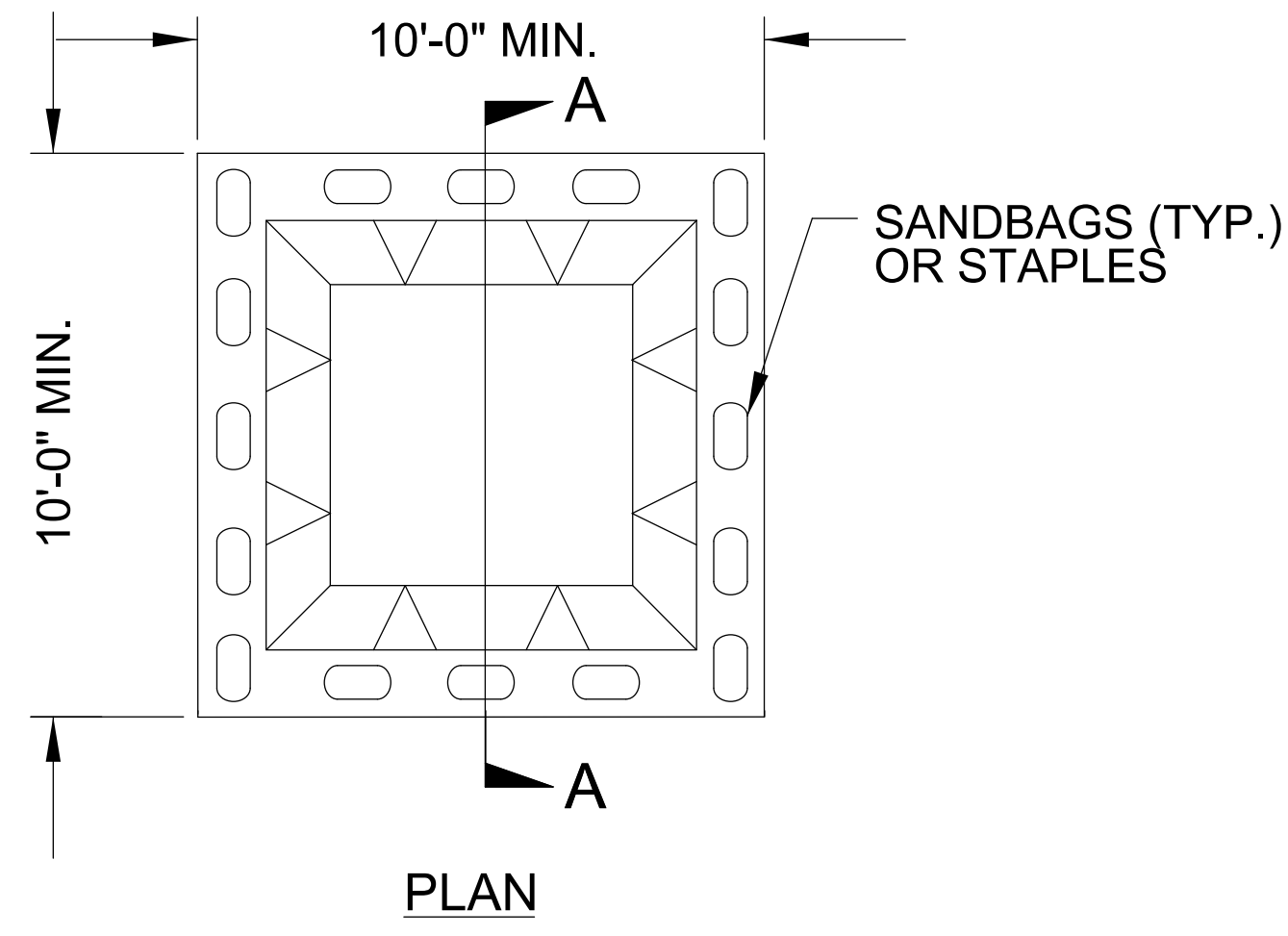
PROJECT REFERENCE NO. 18314.1075011	SHEET NO. EC-02
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol	Std. #	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1630.02	Silt Basin Type B		1634.01	Temporary Rock Sediment Dam Type A	
1630.03	Temporary Silt Ditch		1634.02	Temporary Rock Sediment Dam Type B	
1630.04	Stilling Basin		1635.01	Rock Pipe Inlet Sediment Trap Type A	
1630.05	Temporary Diversion		1635.02	Rock Pipe Inlet Sediment Trap Type B	
1630.06	Special Stilling Basin		1636.01	Excelsior Wattle Check	
1630.07	Skimmer Basin		1636.01	Excelsior Wattle Check with Flocculant	
1630.08	Tiered Skimmer Basin		1636.01	Coir Fiber Wattle Check	
1630.09	Earthen Dam with Skimmer		1636.01	Coir Fiber Wattle Check with Flocculant	
	Infiltration Basin		1636.02	Silt Fence Excelsior Wattle Break	
	Rock Inlet Sediment Trap:			Silt Fence Coir Fiber Wattle Break	
1632.01	Type A		1636.03	Excelsior Wattle Barrier	
1632.02	Type B		1636.03	Coir Fiber Wattle Barrier	
1632.03	Type C				

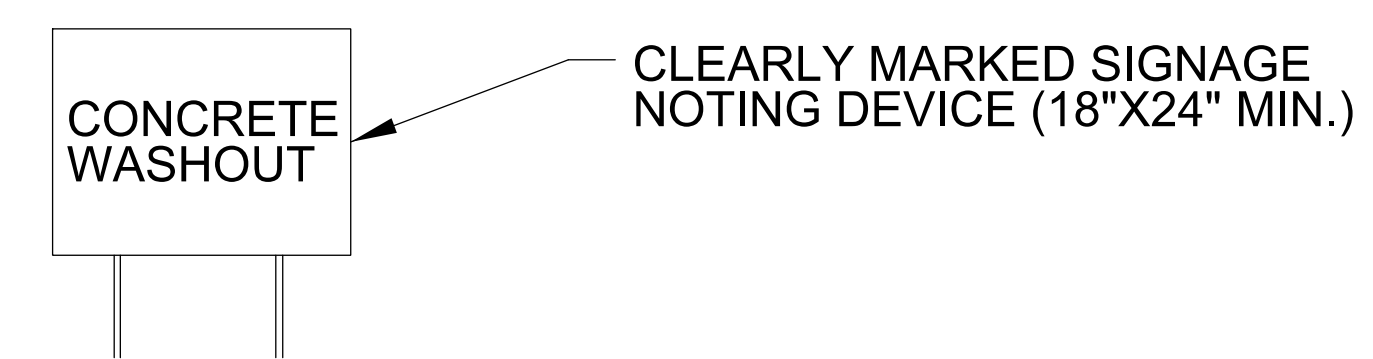
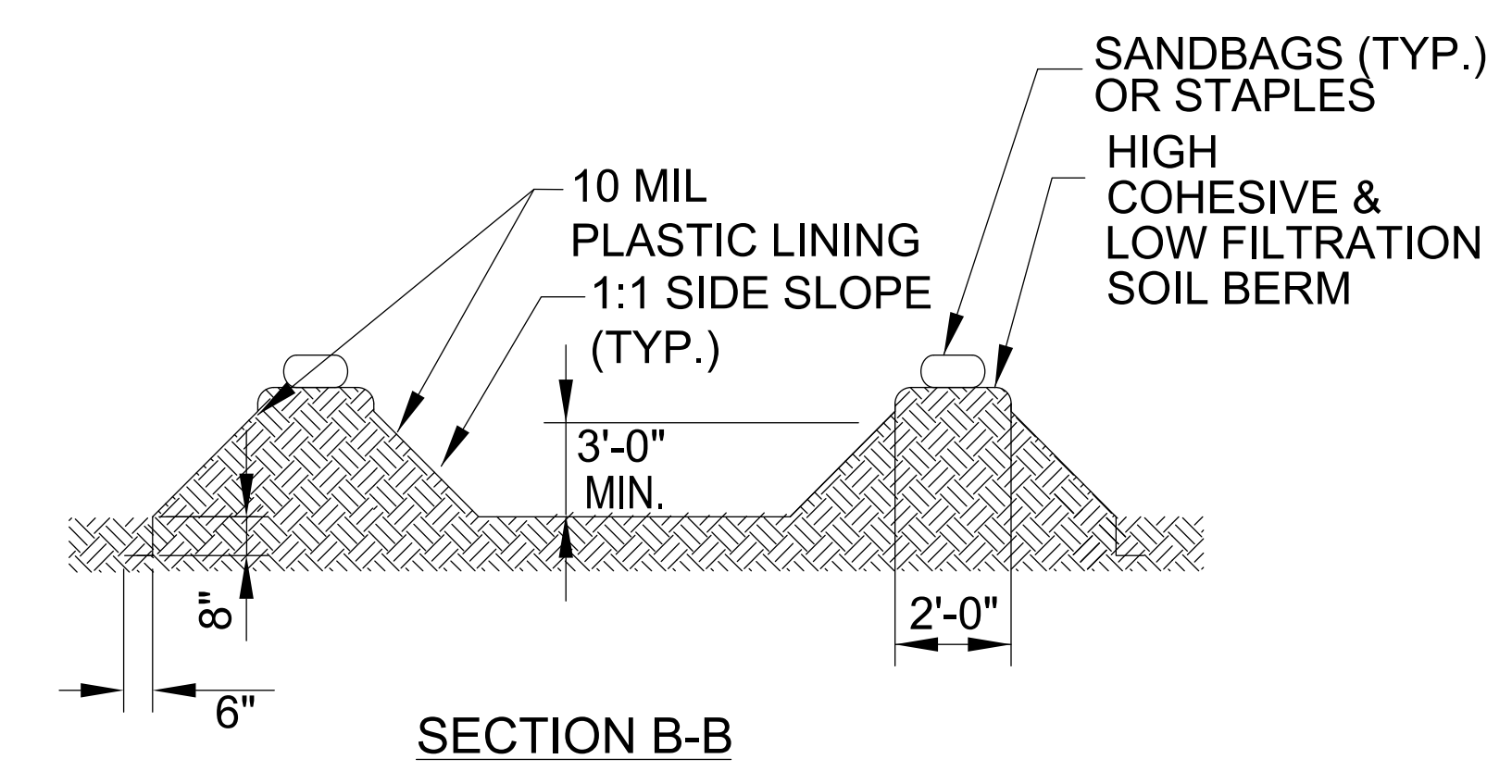
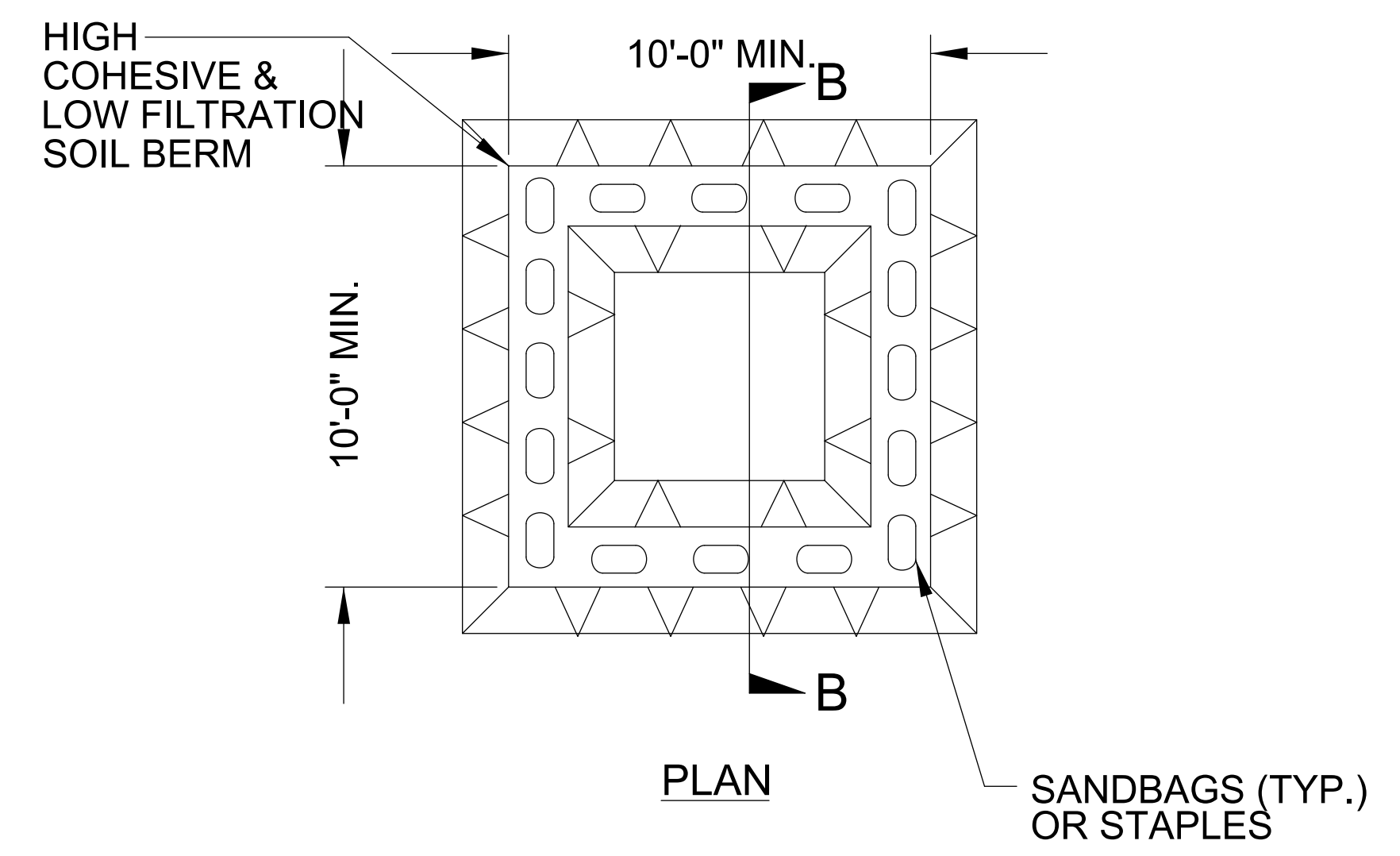
PROJECT REFERENCE NO.	SHEET NO.
18314J075011	EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



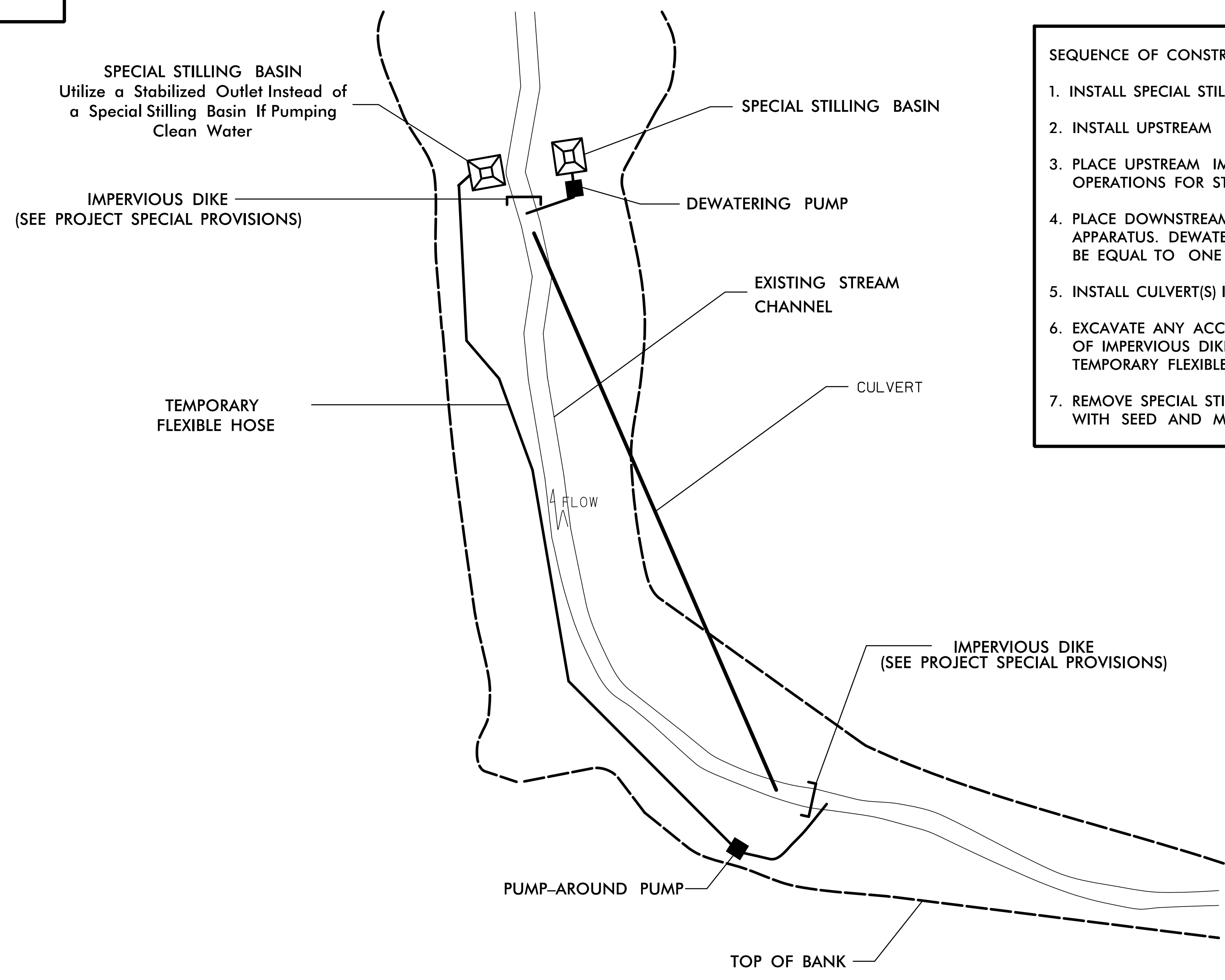
ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

PROJECT REFERENCE NO. 183141075011	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

EXAMPLE OF PUMP-AROUND OPERATION

- NOTES:
- 1) All excavation shall be performed in only dry or isolated areas of the work zone.
 - 2) Impervious dikes are to be used to isolate work from stream flow when necessary.
 - 3) Maintenance of stream flow operations shall be incidental to the work. This includes polyethylene sheeting, diversion pipes, pumps and hoses.
 - 4) Pumps and hoses shall be of sufficient size to dewater the work area.



- SEQUENCE OF CONSTRUCTION FOR TYPICAL WORK AREA
1. INSTALL SPECIAL STILLING BASIN(S).
 2. INSTALL UPSTREAM PUMP AND TEMPORARY FLEXIBLE HOSE.
 3. PLACE UPSTREAM IMPERVIOUS DIKE AND BEGIN PUMPING OPERATIONS FOR STREAM DIVERSION.
 4. PLACE DOWNSTREAM IMPERVIOUS DIKE AND PUMPING APPARATUS. DEWATER ENTRAPPED AREA. AREA TO BE DEWATERED SHALL BE EQUAL TO ONE DAY'S WORK.
 5. INSTALL CULVERT(S) IN ACCORDANCE WITH THE PLANS.
 6. EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES. REMOVE IMPERVIOUS DIKES, PUMPS, AND TEMPORARY FLEXIBLE HOSE. (DOWNSTREAM IMPERVIOUS DIKES FIRST).
 7. REMOVE SPECIAL STILLING BASIN(S) AND BACKFILL. STABILIZE DISTURBED AREA WITH SEED AND MULCH.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. 183141075011	SHEET NO. EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

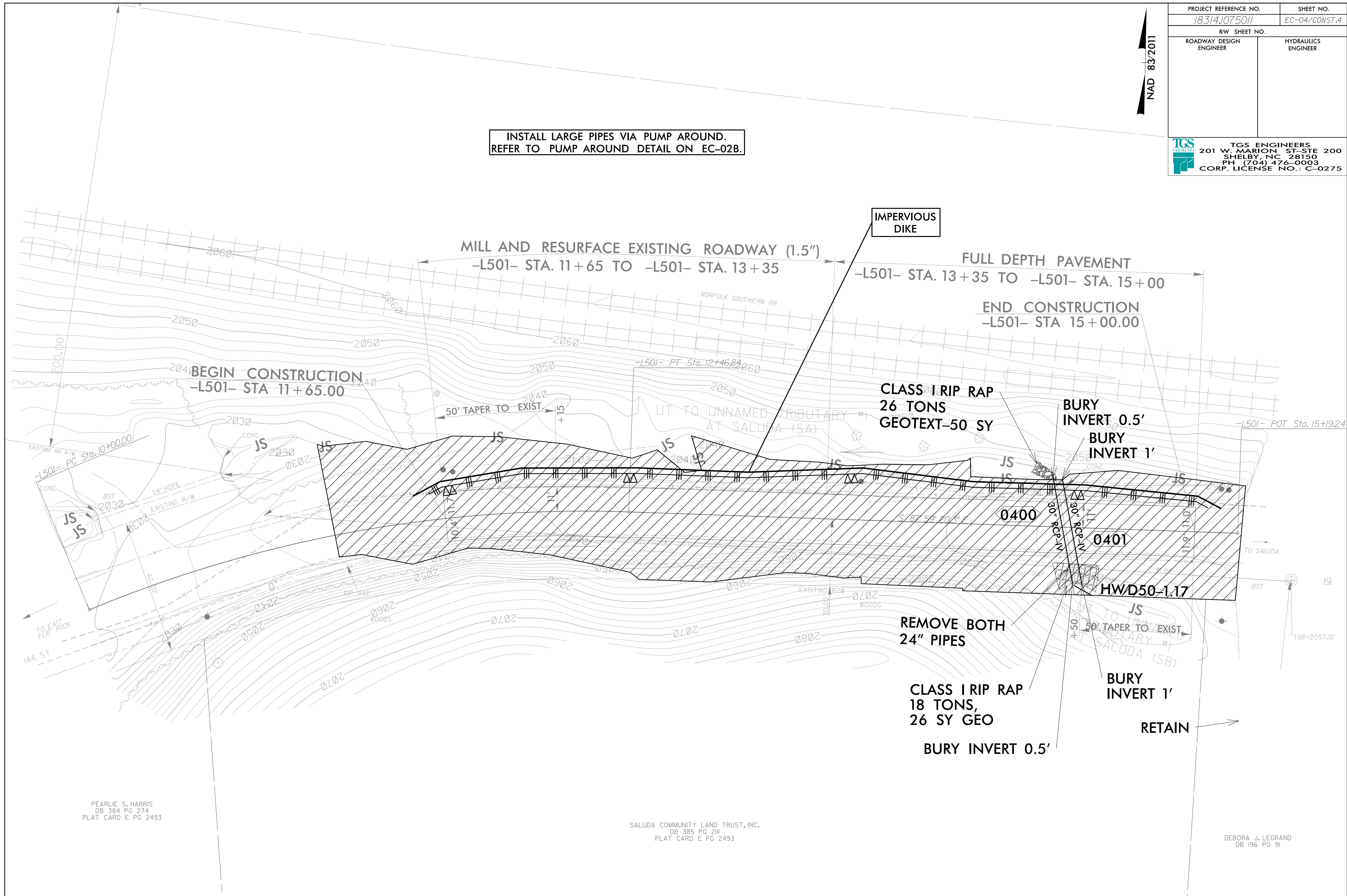
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 TO 4:1	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH WITH SLOPES STEEPER THAN 4:1. 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES

PROJECT REFERENCE NO. 18314.1075011	SHEET NO. EC-04/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
201 W. MARION ST-STE 200
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

NAD 83/2011

INSTALL LARGE PIPES VIA PUMP AROUND.
REFER TO PUMP AROUND DETAIL ON EC-02B.




 ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS

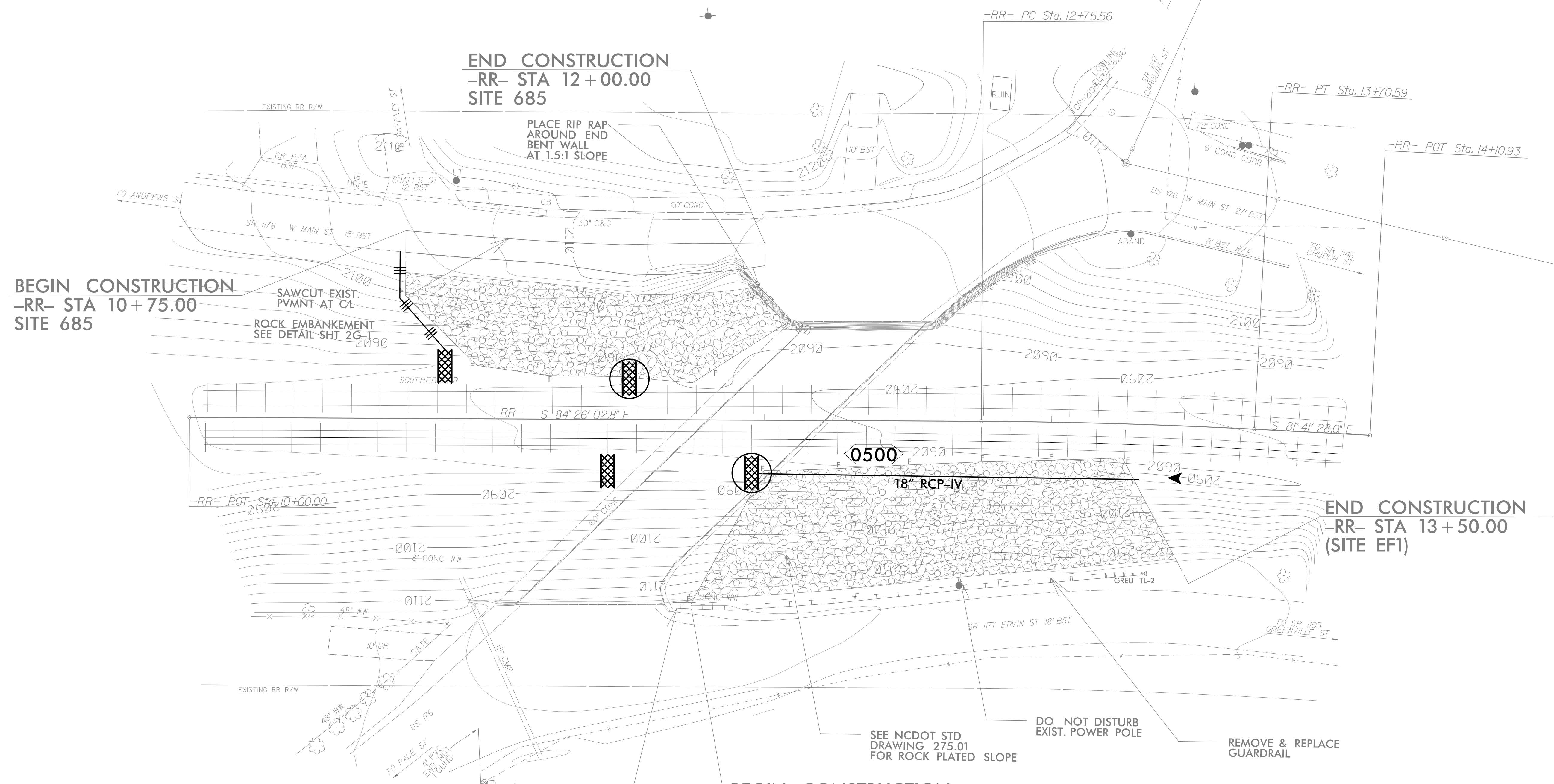
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

PROJECT REFERENCE NO. 18314.1075011	SHEET NO. EC-05/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 TGS ENGINEERS 201 W. MARION ST-STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

NOTE:
SEE XS-SECTION (X-7 THRU X-11) FOR ROAD LAYOUT.
USE FULL DEPTH PAVEMENT, USE SHEET 4 FOR PAVEMENT SCHEDULE



BEGIN CONSTRUCTION
-RR- STA 10+75.00
SITE 685

END CONSTRUCTION
-RR- STA 12+00.00
SITE 685


BEGIN CONSTRUCTION
-RR- STA 11+75.00
(SITE EF1)

END CONSTRUCTION
-RR- STA 13+50.00
(SITE EF1)

-RR- CURVE DATA
 PI Sta 13+23.09
 $\Delta = 2^\circ 44' 34.8''$ (RT)
 $D = 2^\circ 53' 11.2''$
 $L = 95.03'$
 $T = 47.52'$
 $R = 1,985.00'$

NOTE:
DO NOT ATTACH
GUARDRAIL TO
BRIDGE.

**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5**
 PLACE TEMPORARY ROCK SEDIMENT DAMS
 TYPE - B AND TEMPORARY ROCK SILT
 CHECKS TYPE - A AT DRAINAGE OUTLETS.

PROJECT REFERENCE NO. 18314.1075011		SHEET NO. EC-06/CONST.6	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
 TGS ENGINEERS 201 W. MARION ST-STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275			

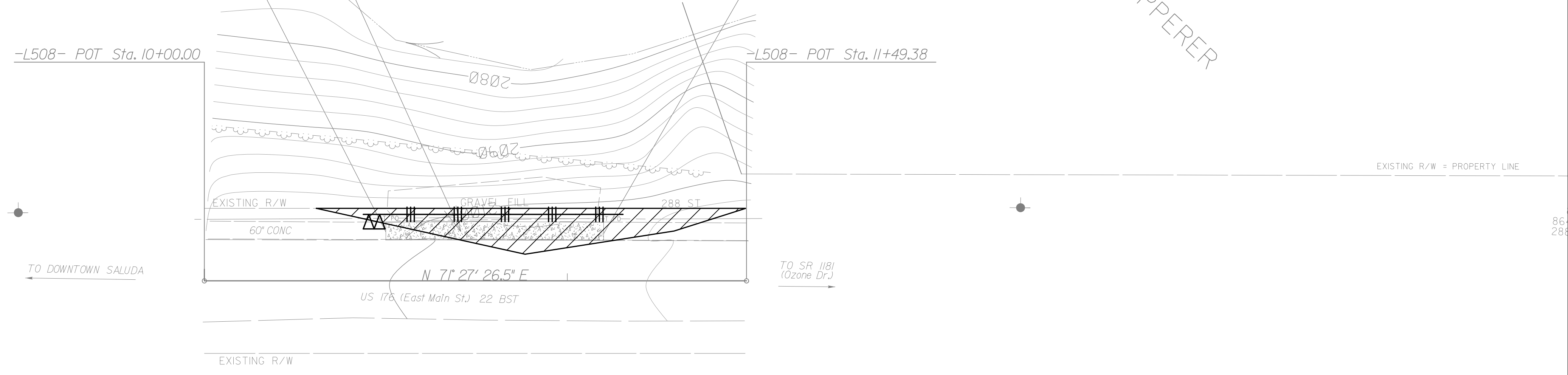
REPLACE DAMAGED 5' SIDEWALK
IN THIS AREA. APPROX. 60 LF
AS DIRECTED BY THE ENGINEER

BEGIN CONSTRUCTION
-L508- STA 10+50 +/-

END CONSTRUCTION
-L508- STA 11+10 +/-

-L508- POT Sta. 10+00.00

-L508- POT Sta. 11+49.38

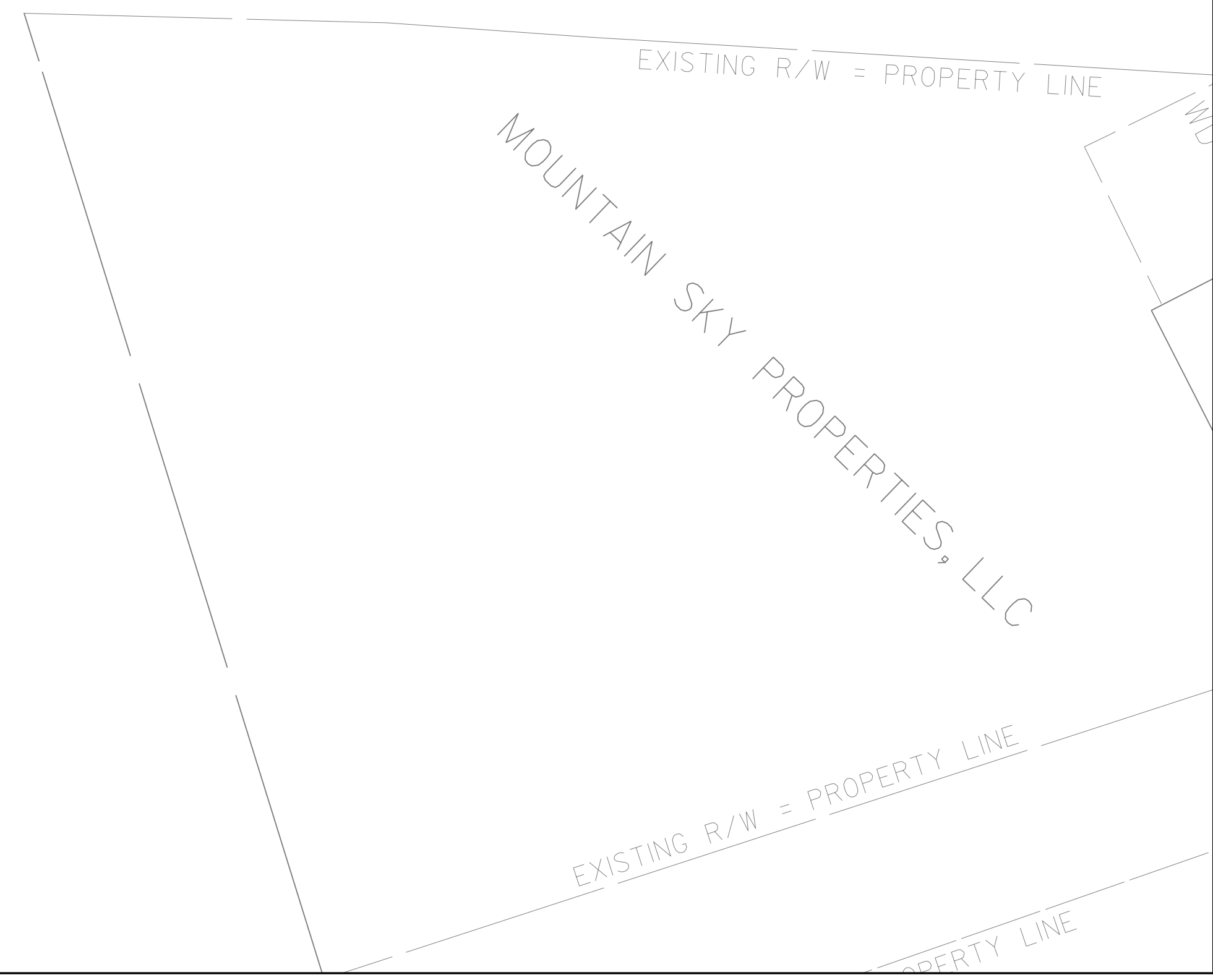


ROBIN G. ZIPPERER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

 ENVIRONMENTALLY
SENSITIVE AREA
SEE PROJECT
SPECIAL PROVISIONS

PLACE TEMPORARY ROCK SEDIMENT DAMS
TYPE - B AND TEMPORARY ROCK SILT
CHECKS TYPE - A AT DRAINAGE OUTLETS.

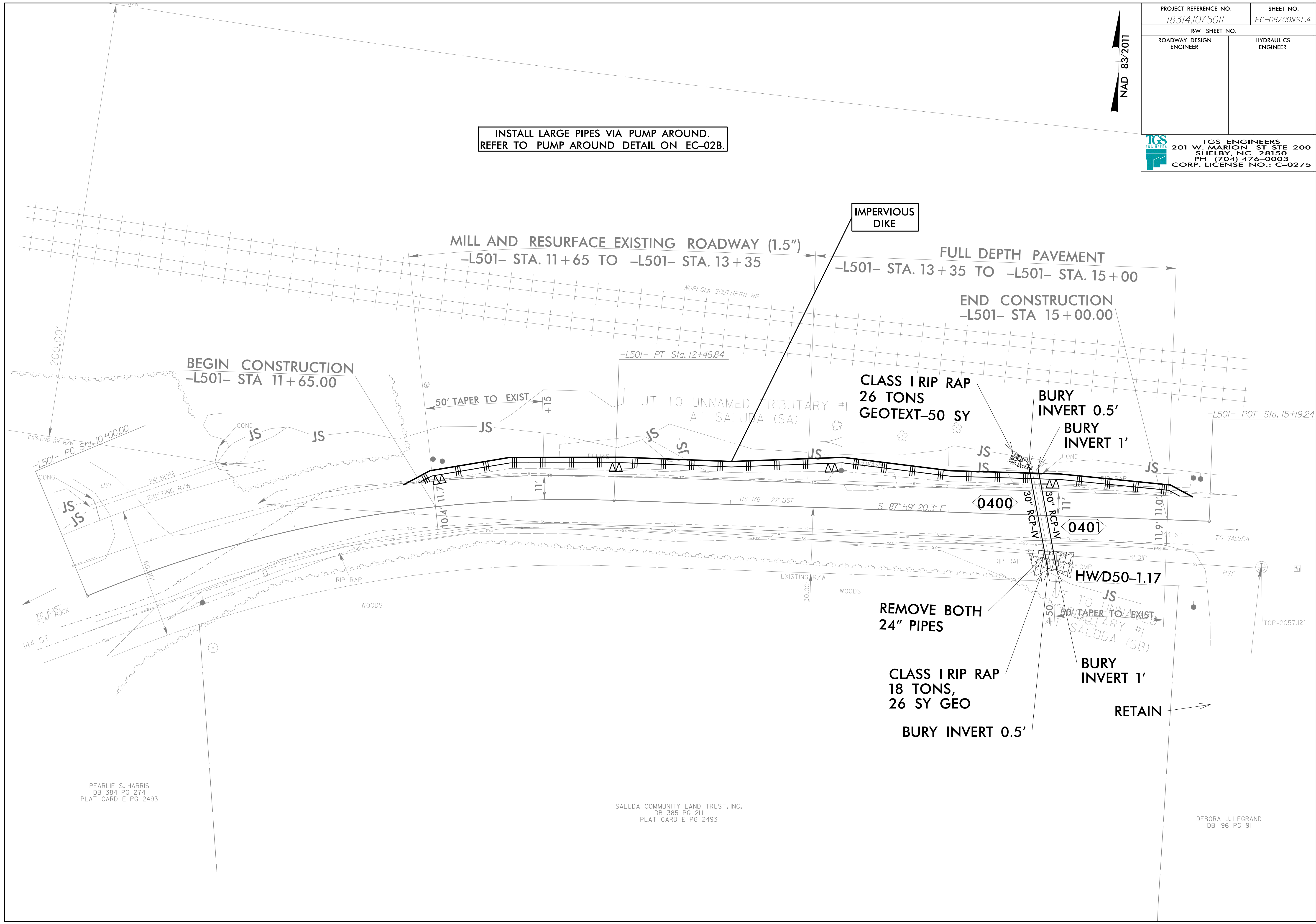


PROJECT REFERENCE NO. 18314.1075011	SHEET NO. EC-08/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
201 W. MARION ST-STE 200
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

NAD 83/2011


INSTALL LARGE PIPES VIA PUMP AROUND.
REFER TO PUMP AROUND DETAIL ON EC-02B.



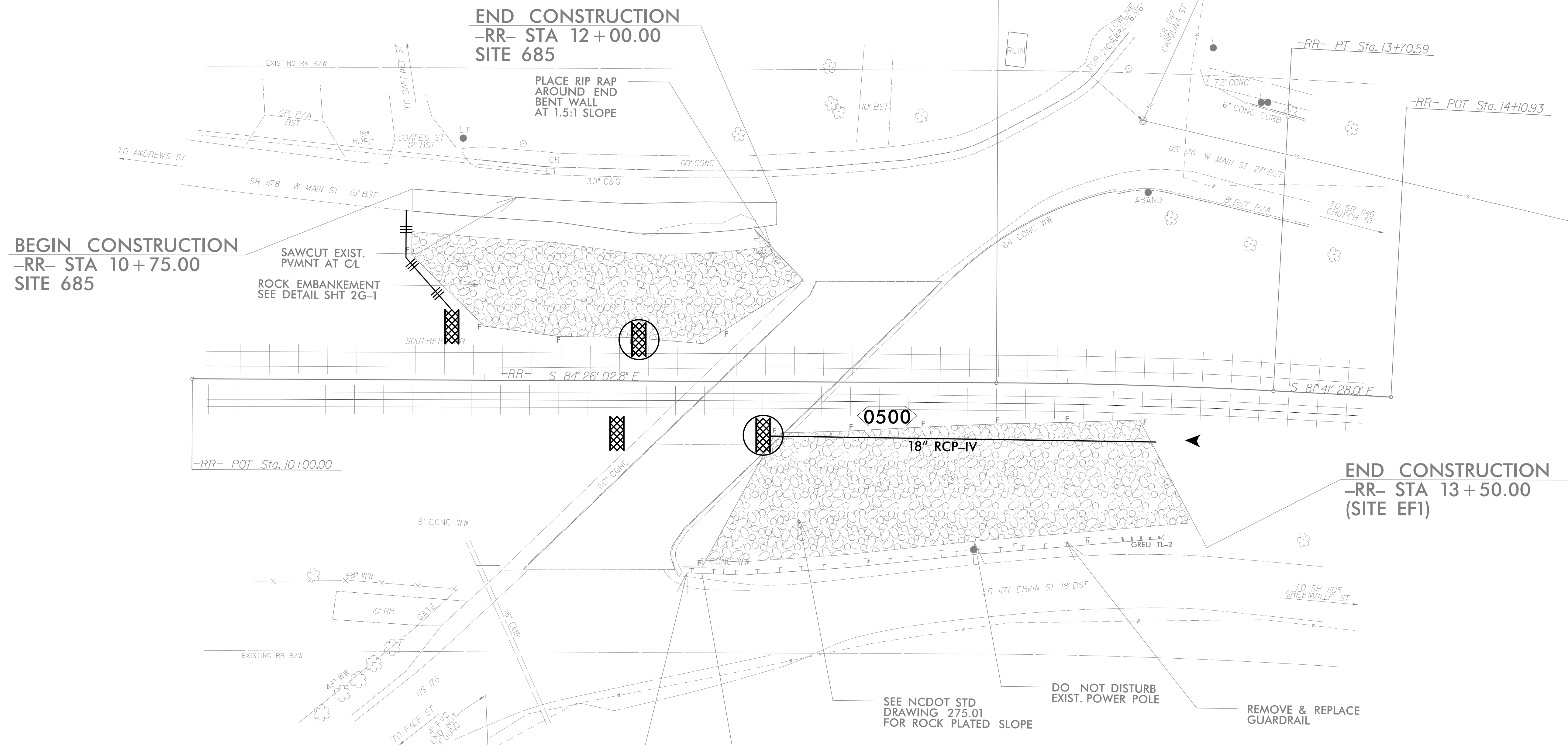
PEARLIE S. HARRIS
DB 384 PG 274
PLAT CARD E PG 2493

SALUDA COMMUNITY LAND TRUST, INC.
DB 385 PG 211
PLAT CARD E PG 2493

DEBORA J. LEGRAND
DB 196 PG 91

PROJECT REFERENCE NO. 18314.1075011	SHEET NO. EC-09/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 TGS ENGINEERS 201 W. MARION ST-STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

NOTE:
SEE XS-SECTION (X-7 THRU X-11) FOR ROAD LAYOUT.
USE FULL DEPTH PAVEMENT, USE SHEET 4 FOR PAVEMENT SCHEDULE



BEGIN CONSTRUCTION
-RR- STA 10+75.00
SITE 685


END CONSTRUCTION
-RR- STA 12+00.00
SITE 685

END CONSTRUCTION
-RR- STA 13+50.00
(SITE EF1)

BEGIN CONSTRUCTION
-RR- STA 11+75.00
(SITE EF1)

-RR- CURVE DATA
 PI Sta 13+23.09
 $\Delta = 2^\circ 44' 34.8''$ (RT)
 $D = 2^\circ 53' 11.2''$
 $L = 95.03'$
 $T = 47.52'$
 $R = 1,985.00'$

NOTE:
DO NOT ATTACH
GUARDRAIL TO
BRIDGE.

PROJECT REFERENCE NO.		SHEET NO.	
18314.1075011		EC-10/CONST.6	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
 TGS ENGINEERS 201 W. MARION ST-STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275			

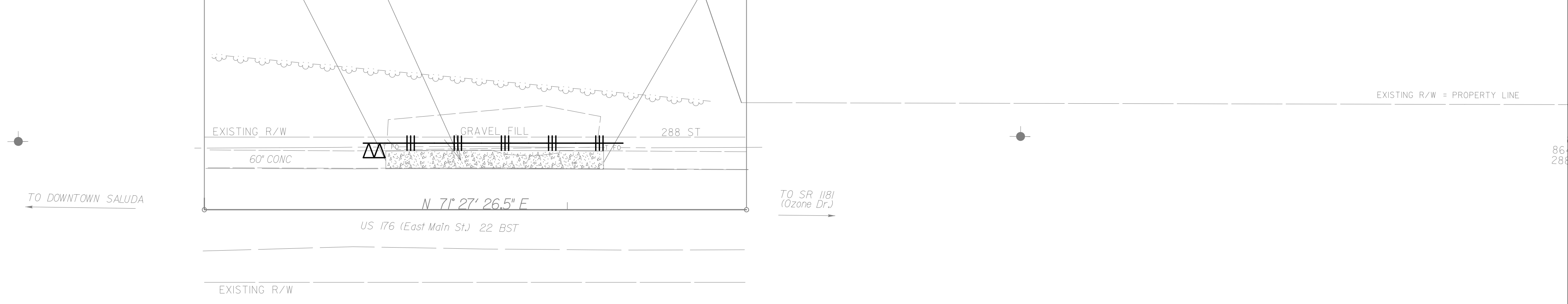
REPLACE DAMAGED 5' SIDEWALK
 IN THIS AREA. APPROX. 60 LF
 AS DIRECTED BY THE ENGINEER

BEGIN CONSTRUCTION
 -L508- STA 10+50 +/-

END CONSTRUCTION
 -L508- STA 11+10 +/-

-L508- POT Sta. 10+00.00

-L508- POT Sta. 11+49.38



ROBIN G. ZIPPERER

MOUNTAIN SKY PROPERTIES, LLC

EXISTING R/W = PROPERTY LINE

PROPERTY LINE

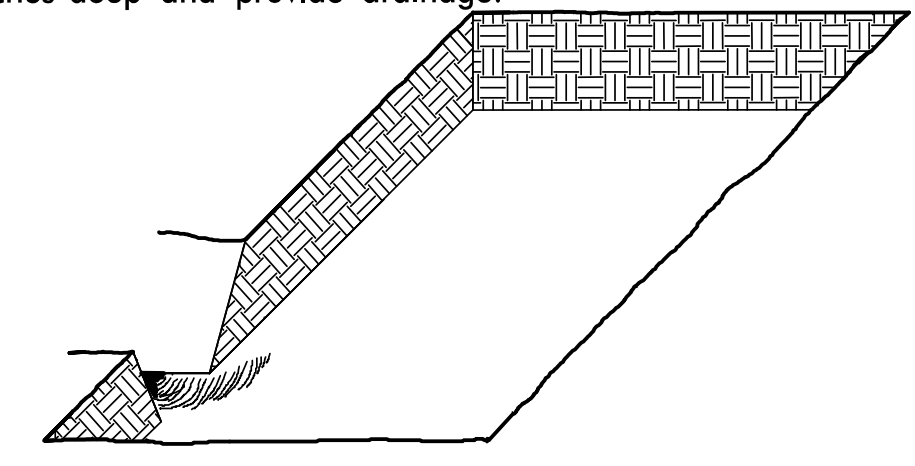
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	18314.1075011	RF-1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	

PLANTING DETAILS

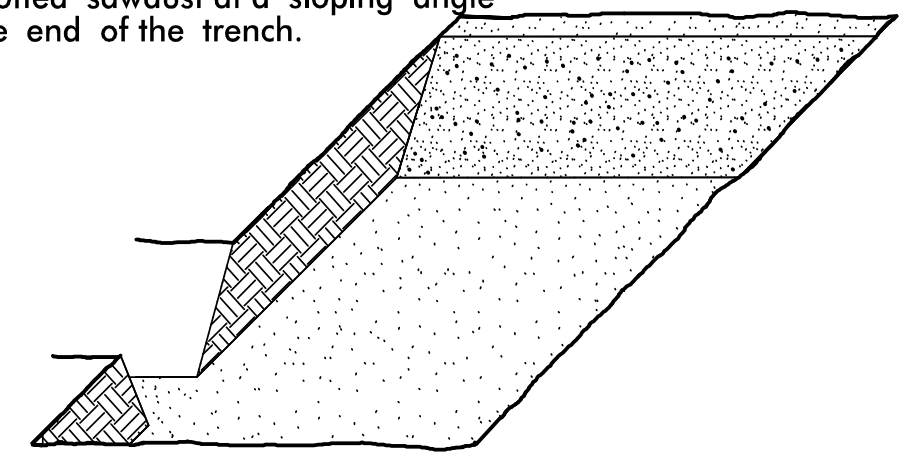
SEEDLING / LINER BAREROOT PLANTING DETAIL

HEALING IN

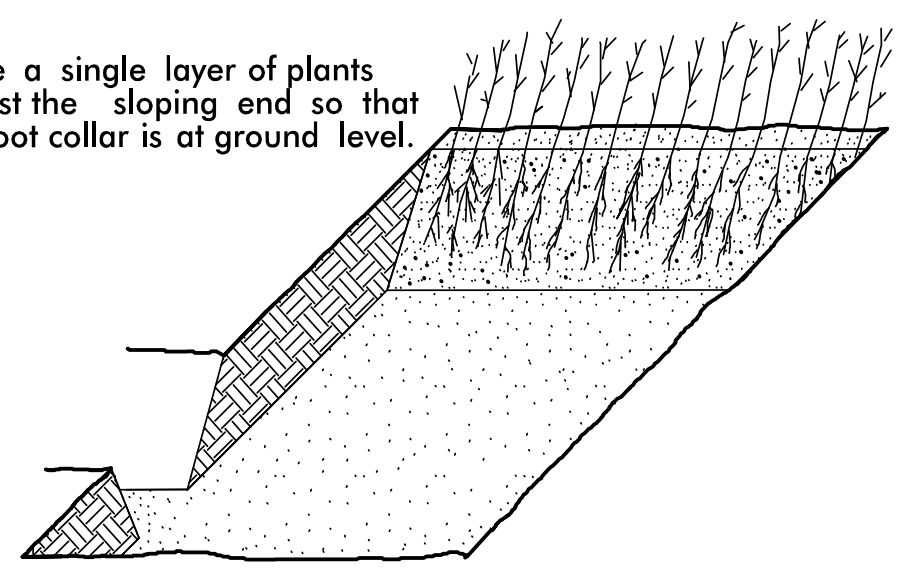
1. Locate a healing-in site in a shady, well protected area.
2. Excavate a flat bottom trench 12 inches deep and provide drainage.



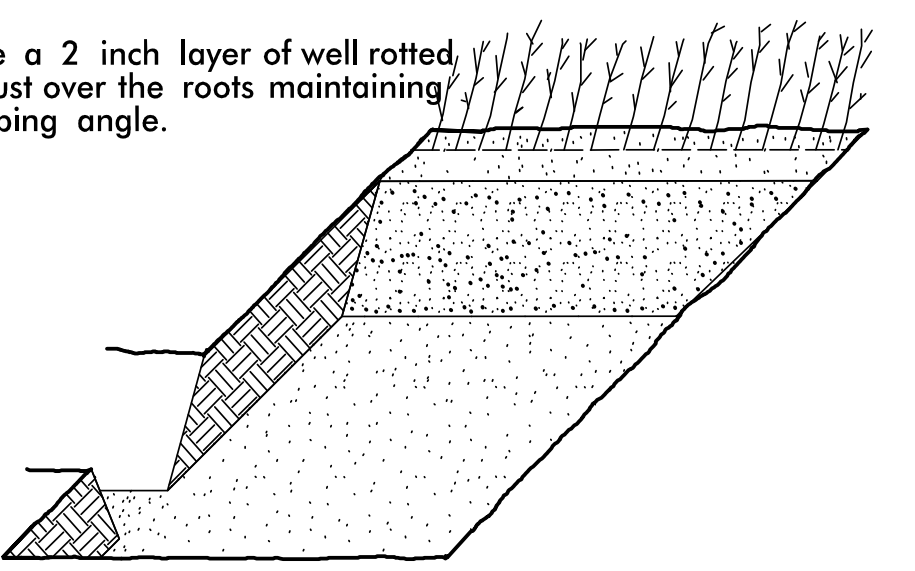
3. Backfill the trench with 2 inches well rotted sawdust. Place a 2 inch layer of well rotted sawdust at a sloping angle at one end of the trench.



4. Place a single layer of plants against the sloping end so that the root collar is at ground level.

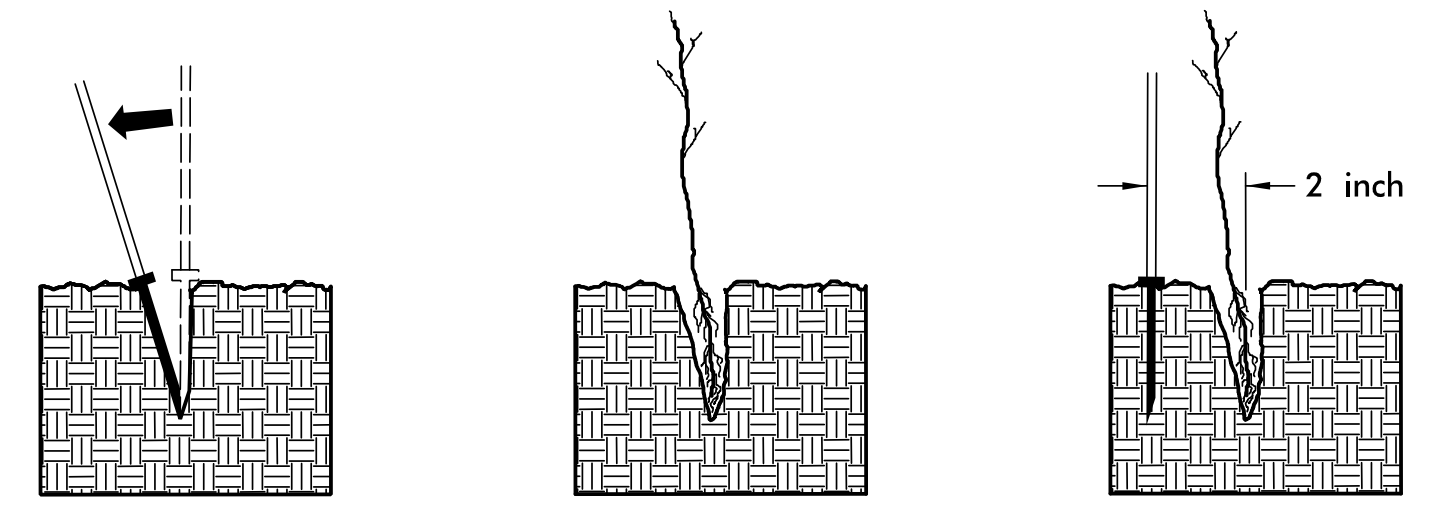


5. Place a 2 inch layer of well rotted sawdust over the roots maintaining a sloping angle.

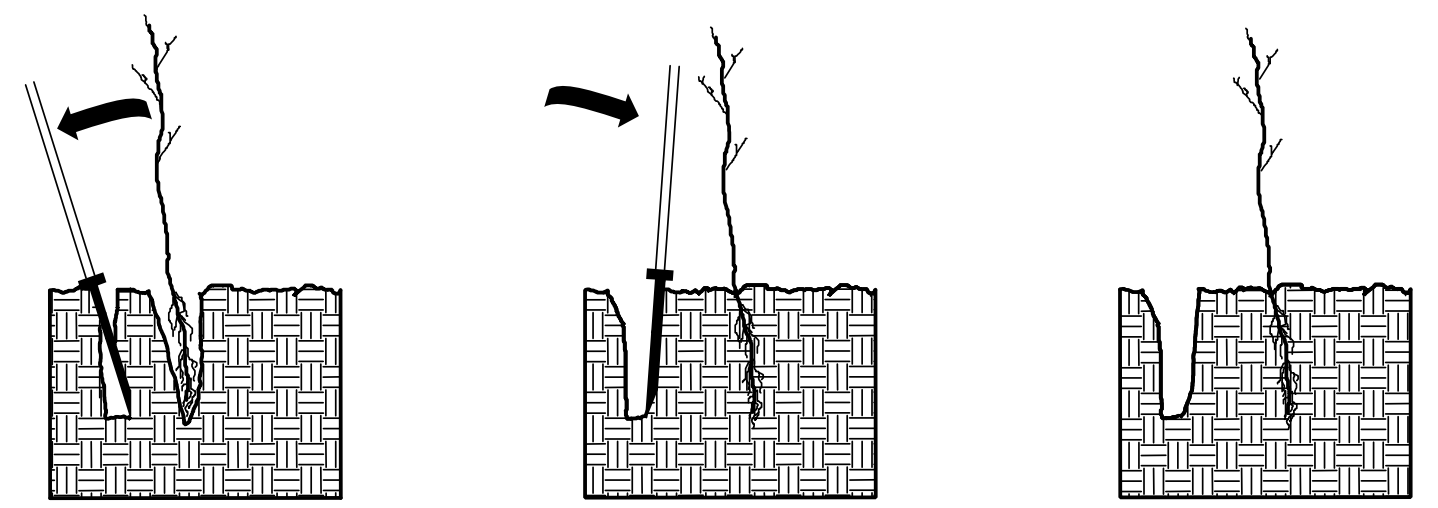


6. Repeat layers of plants and sawdust as necessary and water thoroughly.

DIBBLE PLANTING METHOD USING THE KBC PLANTING BAR



1. Insert planting bar as shown and pull handle toward planter.
2. Remove planting bar and place seedling at correct depth.
3. Insert planting bar 2 inches toward planter from seedling.



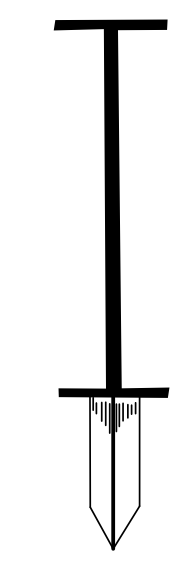
4. Pull handle of bar toward planter, firming soil at bottom.
5. Push handle forward firming soil at top.
6. Leave compaction hole open. Water thoroughly.

PLANTING NOTES:

PLANTING BAG
During planting, seedlings shall be kept in a moist canvas bag or similar container to prevent the root systems from drying.



KBC PLANTING BAR
Planting bar shall have a blade with a triangular cross section, and shall be 12 inches long, 4 inches wide and 1 inch thick at center.



ROOT PRUNING
All seedlings shall be root pruned, if necessary, so that no roots extend more than 10 inches below the root collar.

REFORESTATION

☐ TREE REFORESTATION SHALL BE PLANTED 6 FT. TO 10 FT. ON CENTER, RANDOM SPACING, AVERAGING 8 FT. ON CENTER, APPROXIMATELY 680 PLANTS PER ACRE.

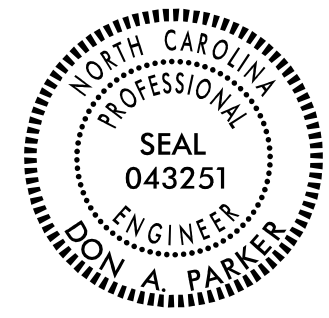
REFORESTATION

MIXTURE, TYPE, SIZE, AND FURNISH SHALL CONFORM TO THE FOLLOWING:

25%	LIRIODENDRON TULIPIFERA	TULIP POPLAR	12 in - 18 in BR
25%	PLATANUS OCCIDENTALIS	SYCAMORE	12 in - 18 in BR
25%	BETULA NIGRA	RIVER BIRCH	12 in - 18 in BR
25%	NYSSA SYLVATICA	BLACK GUM	12 in - 18 in BR

REFORESTATION DETAIL SHEET

N.C.D.O.T. - ROADSIDE ENVIRONMENTAL UNIT

TIP NO. 18314.1075011	SHEET NO. SIGN-1
APPROVED: <u>Don A. Parker</u> <small>TS089E90ADEF440</small>	
DATE: 11/6/2025	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN
POLK COUNTY**

LOCATION: US 176

TYPE OF WORK: GRADING, DRAINAGE, AND PAVING

PROJECT: 18314.1075011

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

GENERAL NOTES

- . SIGNS FURNISHED BY CONTRACTOR
- . CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

SUMMARY OF QUANTITIES

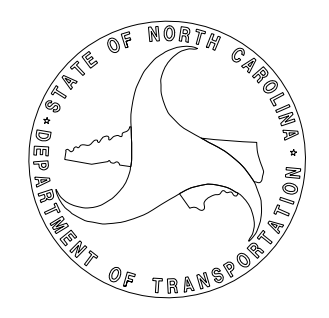
ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4025000000	901	CONTRACTOR FURNISHED, TYPE E SIGN	12.5	S.F.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	26	L.F.
4102000000	904	SIGN ERECTION, TYPE E	2	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	1	EA.

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	TYPE "E" SHEETS
SIGN-3	EXISTING AND PROPOSED SIGN DETAIL SHEETS

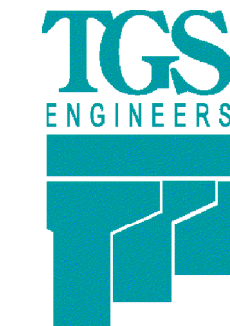
PLAN SUBMITTED TO: NCDOT

JEANETTE WHITE, P.E. DIVISION 14 PROJECT TEAM LEAD



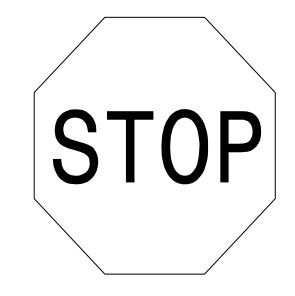
PLAN PREPARED BY: TGS ENGINEERS

DON A. PARKER, P.E. PROJECT ENGINEER
CODA BRANNAN, E.I. DESIGN ENGINEER



TGS ENGINEERS
706 HILLSBOROUGH ST. SUITE 200
RALEIGH, NC 27603
PH (919) 773-8887
CORP. LICENSE NO.: C-0275

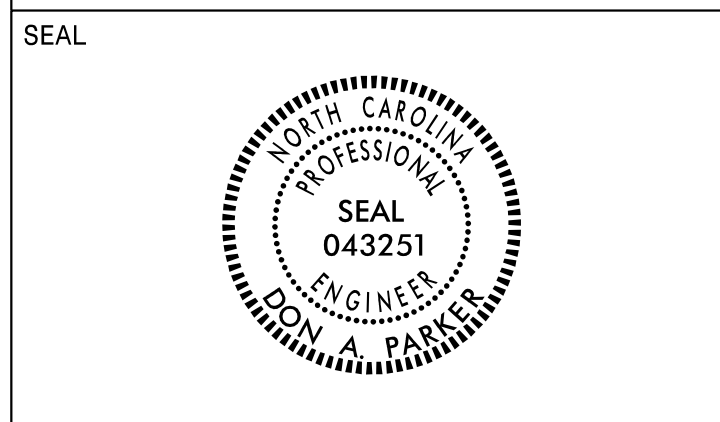
401 QUANTITY REQ'D 2



30 x 30
R1-1

ONE "U" POST PER SIGN

APPROVED: *Don A. Parker*
750B8E90ADEF440...
 DATE: 11/6/2025





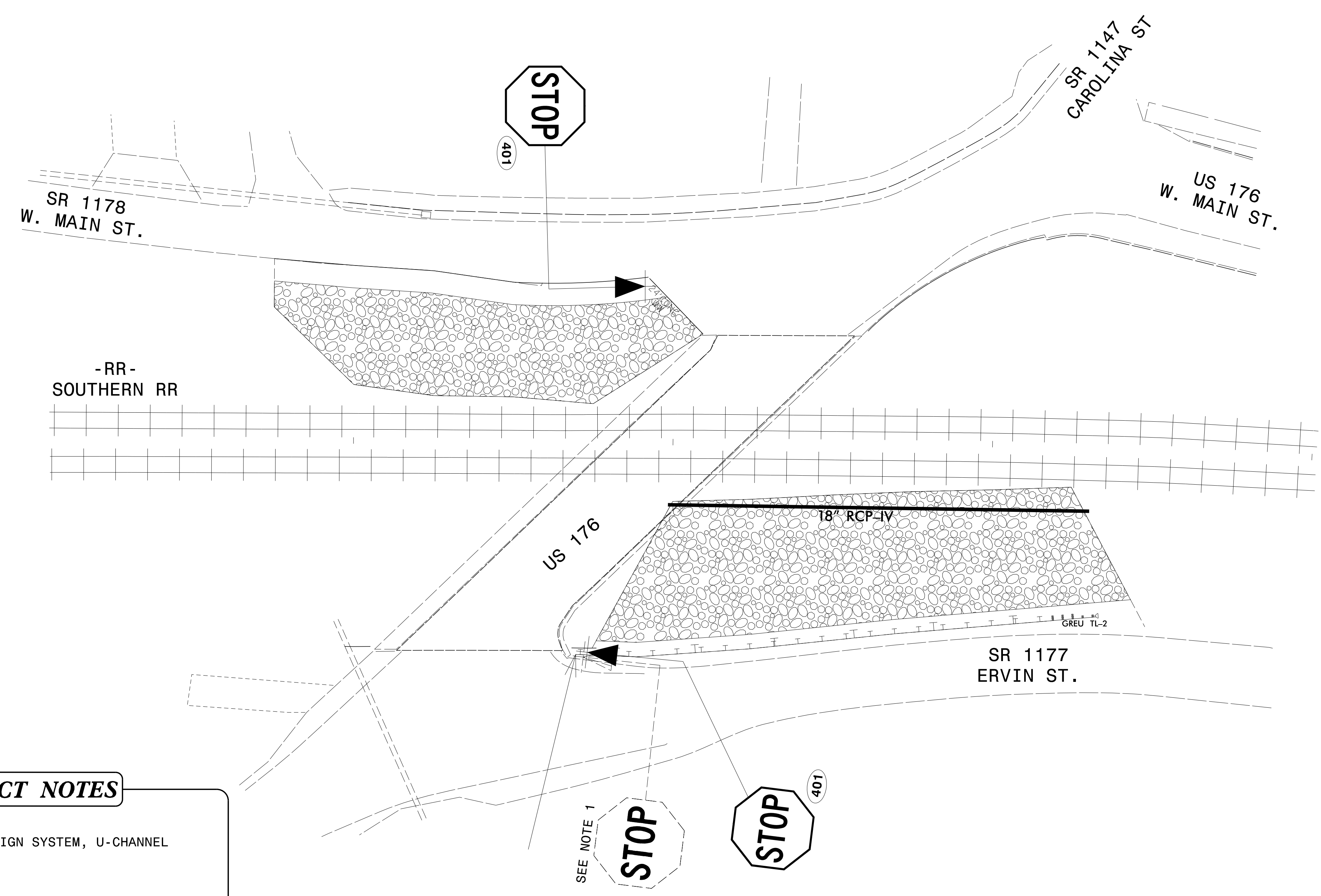
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

TGS ENGINEERS
 706 HILLSBOROUGH STREET
 (SUITE 200)
 RALEIGH, NC 27603
 PH (919) 773-8887
 CORP. LICENSE NO.: C-0275

10/22/2025 10:42:00 AM X:\NC001\Div 14 US 176 Repair\Signing and Delineation\Signing\Town Sites\US 176 Town_Sgn_SGN_02.dgn User:cbannon

TYPE "E" SIGNS

TIP NO. 18314.1075011	SHEET NO. SIGN-3
APPROVED: <i>Don A. Parker</i> <small>750BBE9A0DEF440...</small>	
DATE: 11/6/2025	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 TGS ENGINEERS 706 HILLSBOROUGH STREET (SUITE 200) RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	



PROJECT NOTES

1. DISPOSAL OF SIGN SYSTEM, U-CHANNEL

**SITES 685 & EF1
EXISTING/PROPOSED SIGNS**

10/22/2025
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 User:cbannon