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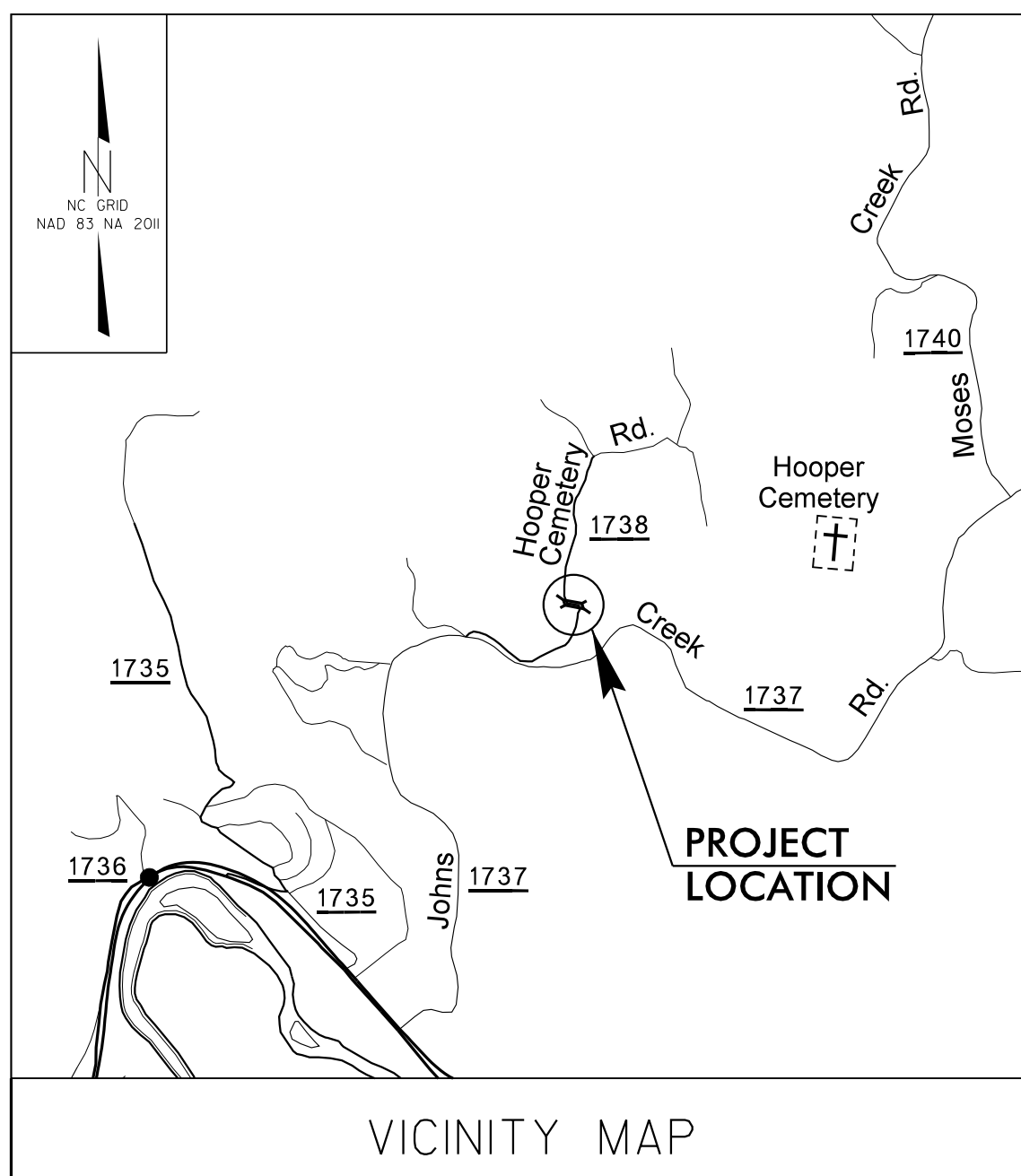
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PROJECT: B-6035

CONTRACT: DN00785

See Sheet 1A For Index of Sheets



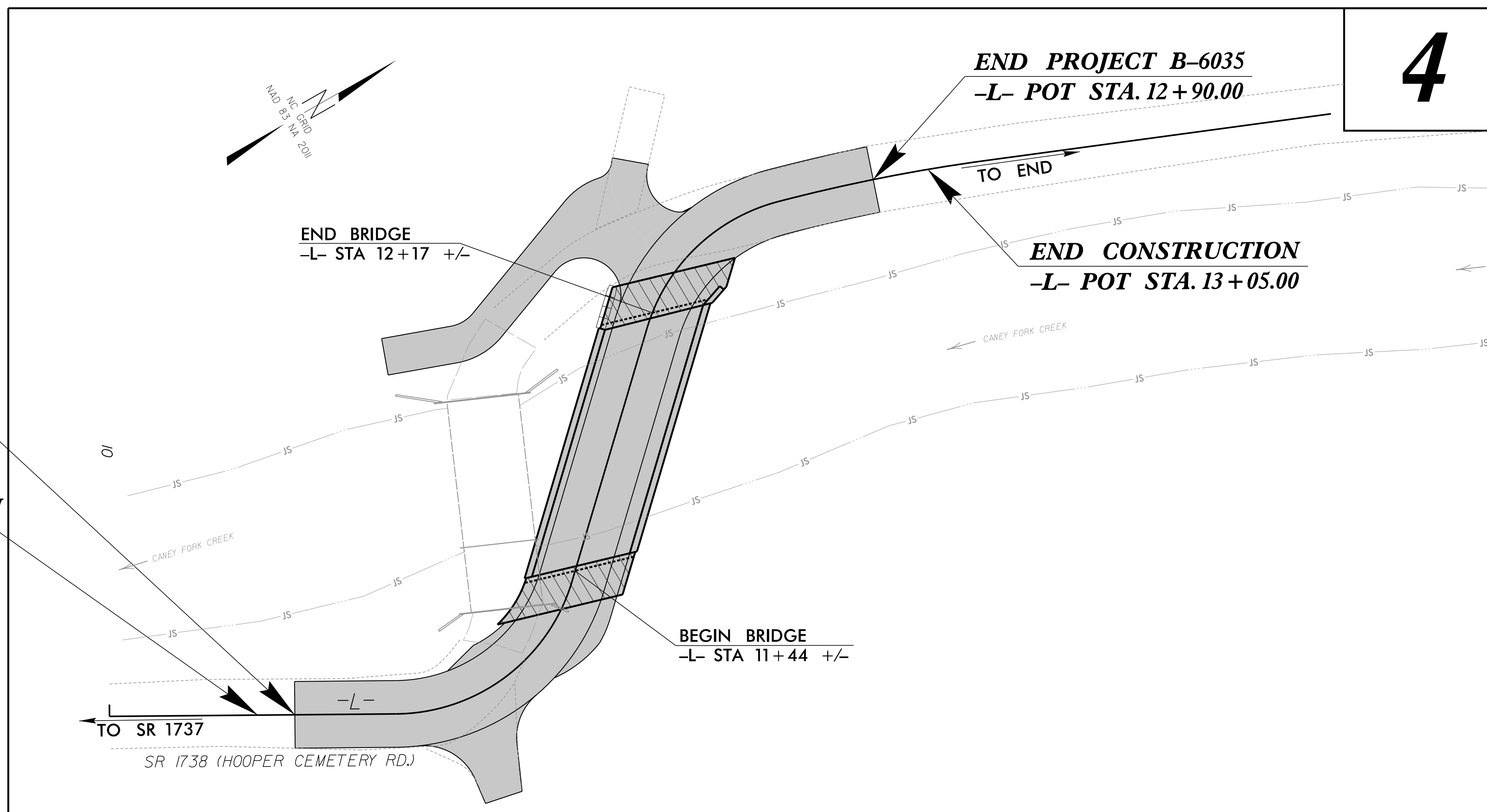
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

JACKSON COUNTY

**LOCATION: BRIDGE NO. 490203 OVER CANEY FORK CREEK
ON SR 1738 (HOOPER CEMETERY ROAD)**

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-6035	1	14
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
48230.1.1	BRZ-1738(008)	PE	
48230.2.1	BRZ-1738(008)	R/W	
48230.3.1	BRZ-1738(008)	CONST.	



BEGIN PROJECT B-6035
-L- POT STA. 10+50.00

BEGIN CONSTRUCTION
-L- POT STA. 10+40.00

END BRIDGE
-L- STA 12+17 +/-

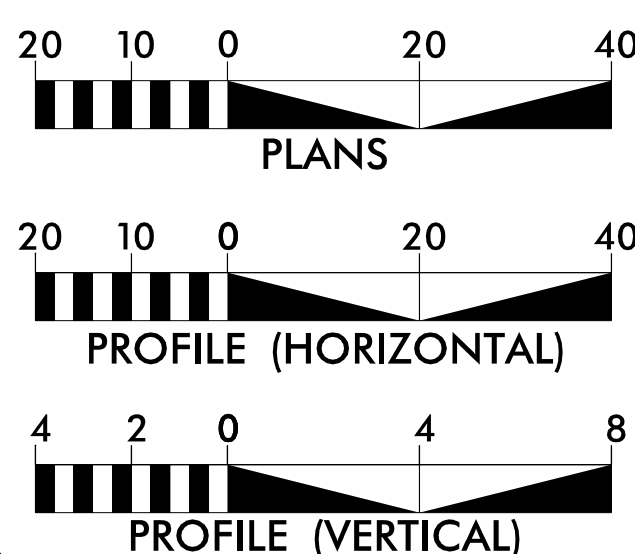
END PROJECT B-6035
-L- POT STA. 12+90.00

END CONSTRUCTION
-L- POT STA. 13+05.00

BEGIN BRIDGE
-L- STA 11+44 +/-

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2017 = 70
ADT 2037 = 96
T = 6 % *
V = 15 MPH
FUNC CLASS =
RURAL LOCAL
SUBREGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY PROJECT B-6035 = 0.031 MI
LENGTH STRUCTURE PROJECT B-6035 = 0.014 MI
TOTAL LENGTH OF PROJECT B-6035 = 0.045 MI

Prepared in the Office of:
VAUGHN & MELTON
1318-F PATTON AVE.
ASHEVILLE NC, 28806

FOR THE NORTH CAROLINA DIVISION OF HIGHWAYS

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JULY 25, 2017

LETTING DATE:
MAY 10, 2022

REECE M. SCHULER, PE, PLS
PROJECT ENGINEER

ALEX FITZPATRICK
PROJECT DESIGN ENGINEER

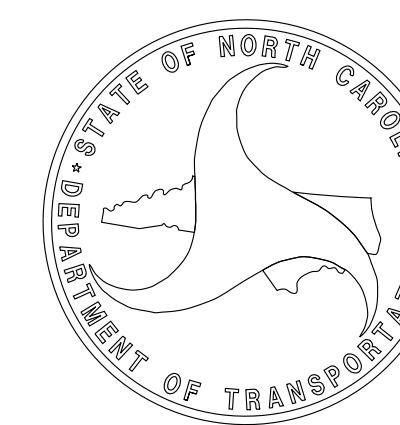
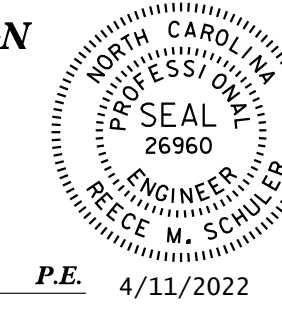
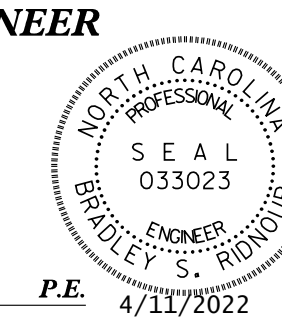
NCDOT CONTACT:
JOHN HERRIN
DIVISION 14 BRIDGE PROJECT MANAGER

HYDRAULICS ENGINEER

DocuSigned by:
Bradley Kidner
SIGNATURE: P.E. 4/11/2022

ROADWAY DESIGN ENGINEER

DocuSigned by:
Reece M. Schuler
SIGNATURE: P.E. 4/11/2022



PROJECT REFERENCE NO. <i>B-6035</i>	SHEET NO. <i>1A</i>
ROADWAY DESIGN ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SHEET NUMBER	INDEX OF SHEETS SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
1C-1	SURVEY CONTROL SHEET
2A-1	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
3B-1	ROADWAY SUMMARIES
3D-1	DRAINAGE SUMMARIES
3P-1	PARCEL INDEX SHEET
4	PLAN & PROFILE SHEET
TMP-1 THRU TMP-4	TRAFFIC CONTROL PLANS
PMP-1	PAVEMENT MARKING PLAN
SIG-1	SIGNAL PLAN
RF-1 THRU RF-3	REFORESTATION PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
UO-1 THRU UO-2	UTILITY PLANS
X-1A	CROSS-SECTION INDEX OF SHEETS AND CROSS-SECTION EARTHWORK SUMMARY
X-1 THRU X-4	CROSS-SECTIONS
S-1 THRU S-24	STRUCTURE PLANS

GENERAL NOTES: 2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018
REVISED:

GRADING AND SURFACING OR RESURFACING AND WIDENING:
THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD 11.

SUPERELEVATION:
ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.05 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:
ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.02

GUARDRAIL:
THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

TEMPORARY SHORING:
SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.

SUBSURFACE PLANS:
NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

END BENTS:
THE ENGINEER SHALL CHECK THE STRUCTURE END BENT PLANS, DETAILS, AND CROSS-SECTION PRIOR TO SETTING OF THE SLOPE STAKES FOR THE EMBANKMENT OR EXCAVATION APPROACHING A BRIDGE.

UTILITIES:
UTILITY OWNERS ON THIS PROJECT ARE: DUKE ENERGY

RIGHT-OF-WAY MARKERS:
ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY CONTRACT IN ACCORDANCE WITH SECTION 801 OF THE NORTH CAROLINA STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.

EFF. 01-16-2018
REV.

2018 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method 11
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 4 - MAJOR STRUCTURES	
422.02	Bridge Approach Fills - Type II Modified Approach Fill
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method 1
DIVISION 8 - INCIDENTALS	
840.00	Concrete Base Pad for Drainage Structures
840.25	Anchorage for Frames - Brick or Concrete or Precast
840.29	Frames and Narrow Slot Flat Grates
840.35	Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
840.66	Drainage Structure Steps
846.01	Concrete Curb, Gutter and Curb & Gutter
846.04	Drop Inlet Installation in Shoulder Berm Gutter
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structure Anchor Units
876.02	Guide for Rip Rap at Pipe Outlets

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STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

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	(23)
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 -----
Potential Contamination Area: Soil	----- S -----
Known Contamination Area: Water	----- W -----
Potential Contamination Area: Water	----- W -----
Contaminated Site: Known or Potential	☠ ?

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	W
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	-----
Proposed Slope Stakes Fill	-----
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	-----
End of Information	-----

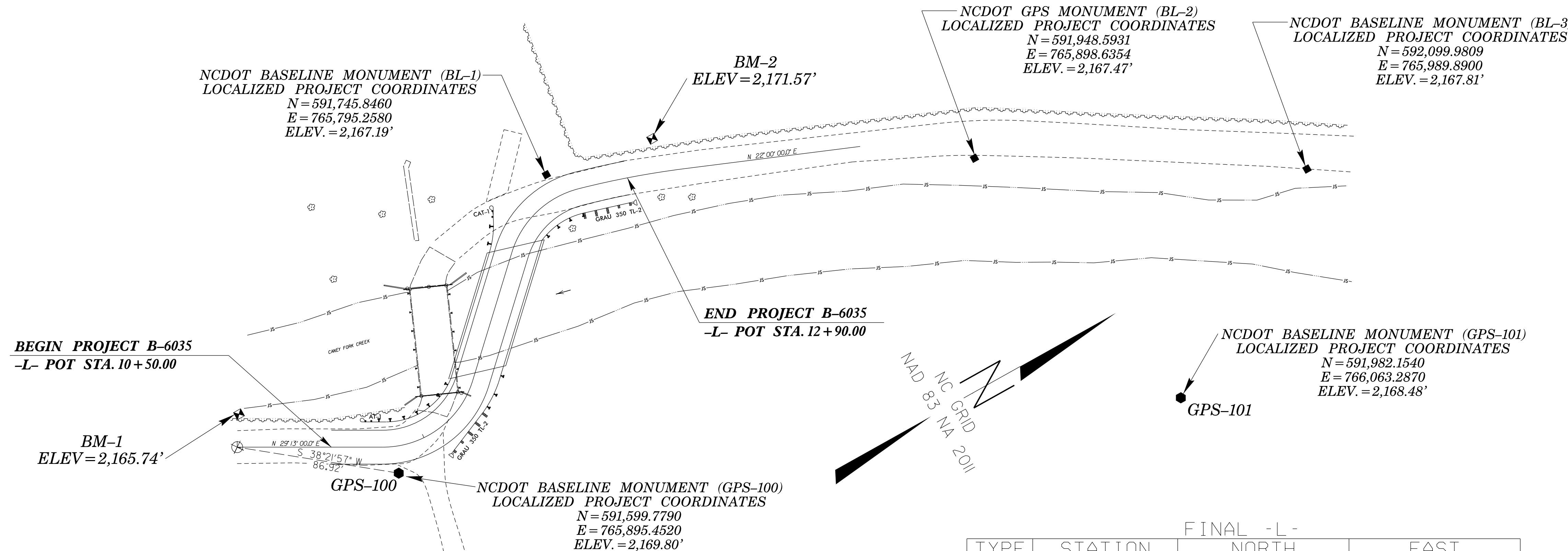
SURVEY CONTROL SHEET -FINAL-

PROJECT REFERENCE NO.	SHEET NO.
B-6035	1C-1
Location and Surveys	

BL	POINT	DESC.	NORTH	EAST	ELEVATION	EL STATION	OFFSET
	G100	GPS-100	591599.7790	765895.4520	2169.80	10+82.92	14.74 RT
1		BL-1	591745.8460	765795.2580	2167.19	12+66.24	11.32 LT
2		BL-2	591948.5931	765898.6354	2167.47	14+93.14	10.67 RT
3		BL-3	592099.9809	765989.8900	2167.81	16+70.63	9.13 RT

 BM1 ELEVATION = 2165.74
 N 591541 E 765827
 BL STATION 5+00.00
 S 49°35'32.75" W DIST 90.35
 10" SPIKE IN BASE OF 24" SYCAMORE

 BM2 ELEVATION = 2171.57
 N 591804 E 765806
 BL STATION 7+34.00 17 LEFT
 10" SPIKE IN ROOT OF A 15" PINE



FINAL ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	10+40.00	9.00	591562.3487	765868.8499
L	10+40.00	30.00	591552.0983	765887.1783
L	10+40.00	-9.00	591571.1348	765853.1399
L	10+40.00	-30.00	591581.3851	765834.8115
L	10+77.29	30.00	591584.6480	765905.3821
L	10+77.29	-30.00	591613.9348	765853.0153
L	11+41.01	30.00	591679.0620	765893.3067
L	11+41.01	-30.00	591637.5383	765849.9965
L	12+12.21	30.00	591730.4619	765844.0271
L	12+12.21	-30.00	591688.9327	765800.7221
L	12+55.00	-25.00	591751.1402	765783.7704
L	12+55.00	-30.00	591751.5956	765778.7912
L	12+63.54	30.00	591749.4899	765839.1414
L	12+63.54	-25.00	591763.7383	765786.0191
L	13+05.00	9.00	591793.6910	765831.1104
L	13+05.00	30.00	591786.4850	765850.8353
L	13+05.00	-25.00	591805.3578	765799.1747
L	13+05.00	-9.00	591799.8675	765814.2033

FINAL -L-

TYPE	STATION	NORTH	EAST
POT	10+00.00	591531.8305	765841.4703
PC	10+77.29	591599.2914	765879.1987
PT	11+41.01	591658.3002	765871.6516
PC	12+12.23	591709.7142	765822.3584
PCC	12+63.54	591757.2618	765810.1656
PT	13+20.84	591811.5676	765828.3437
EOB	14+14.76	591898.6484	765863.5266
EOA	10+00.00	591898.6484	765863.5266

PDE

FINAL ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	12+00.00	-70.00	591652.4387	765780.2966
L	12+00.00	-30.00	591680.1212	765809.1701
L	11+60.00	-30.00	591651.2477	765836.8526
L	11+60.00	-70.00	591623.5652	765807.9791

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS 100" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 591599.7790(ft) EASTING: 765895.4520(ft) ELEVATION: 2169.80(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997739843

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS 100" TO -L- STATION 10+00.00 BEARING S 38°21'57" W DISTANCE 86.92'

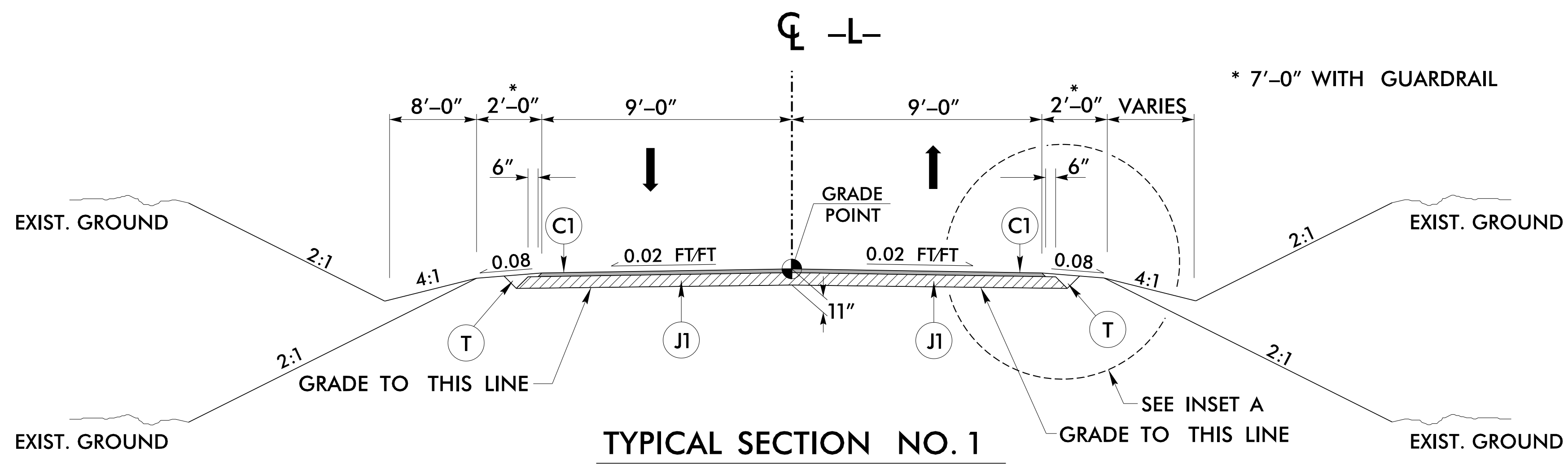
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

NOTES:

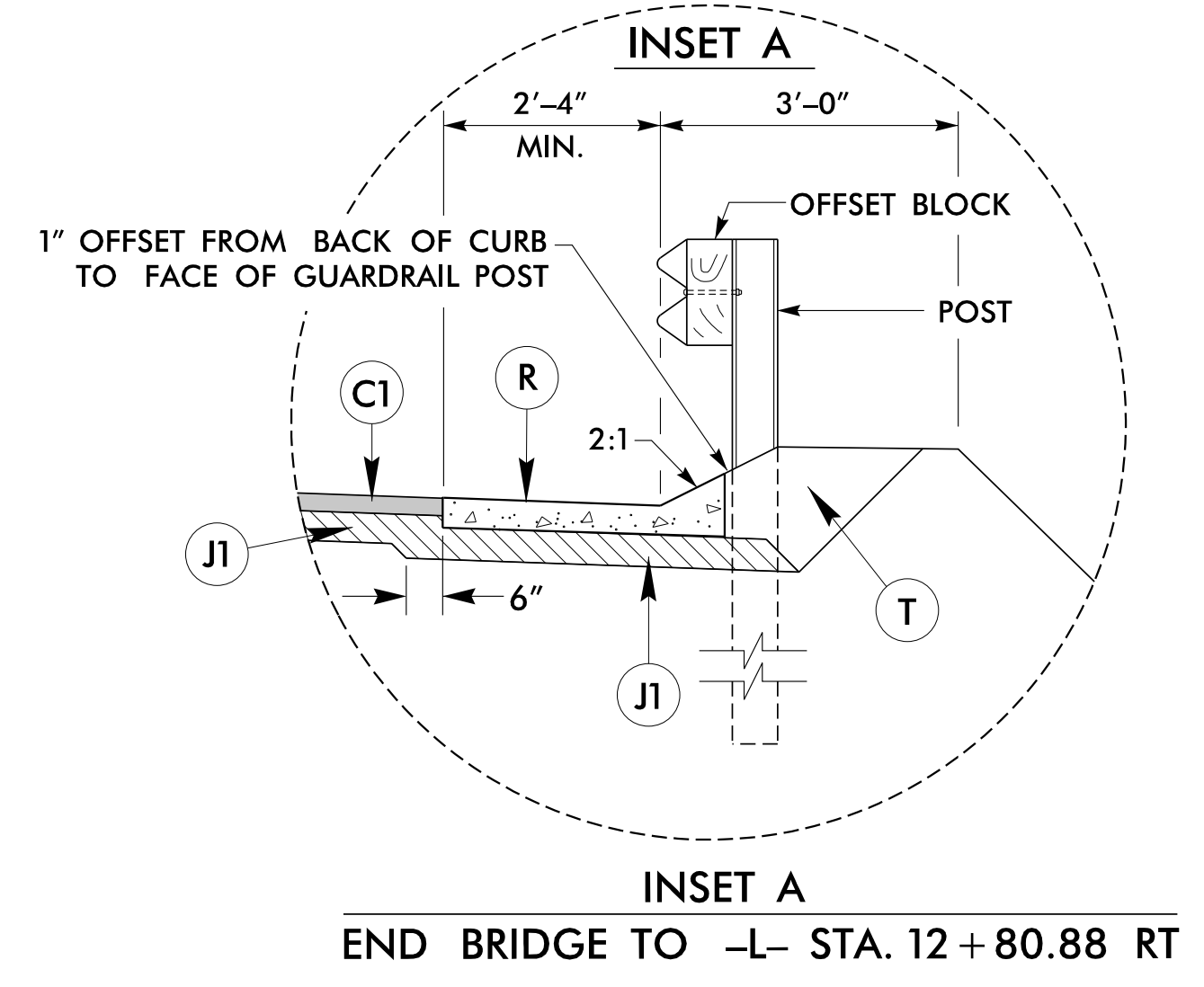
- THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:
[HTTPS://CONNECT.NCDOT.GOV/RESOURCES/LOCATION/](https://connect.ncdot.gov/resources/location/)
 THE FILES TO BE FOUND ARE AS FOLLOWS:
 490203_LS_CONTROL.TXT
 SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER CONTROL INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
 INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT BY THE NCDOT LOCATION AND SURVEYS UNIT.
 PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.

8/17/99

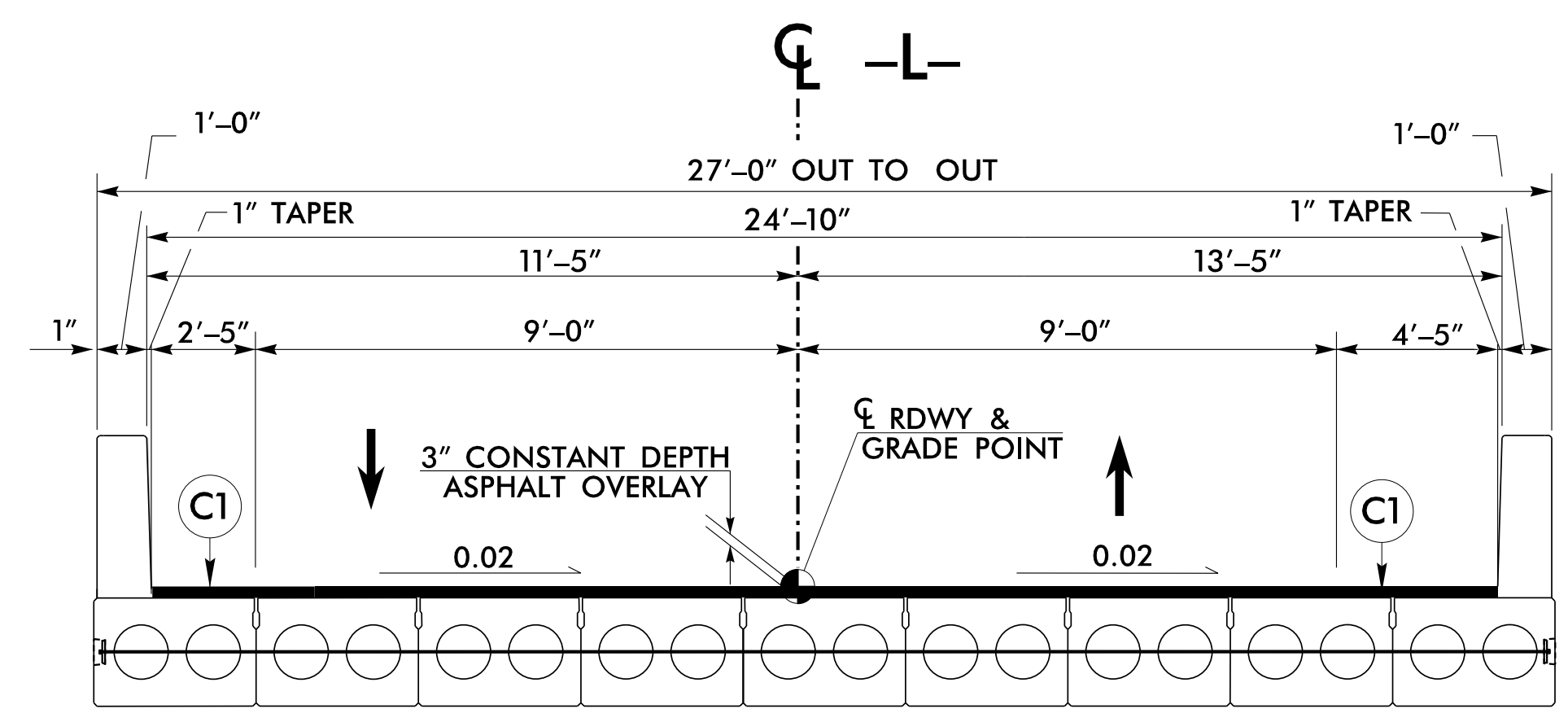
PROJECT REFERENCE NO. B-6035	SHEET NO. 2A-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



TYPICAL SECTION NO. 1
 -L- STA. 10+50.00 TO -L- STA. 11+43.95 (BEGIN BRIDGE)
 -L- STA. 12+16.67 (END BRIDGE) TO -L- STA. 12+90.00



TYPICAL SECTION NO. 2
 -L- STA. 11+43.95 (BEGIN BRIDGE) TO -L- STA. 12+16.67 (END BRIDGE)



PAVEMENT SCHEDULE	
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
J1	PROP. 8" AGGREGATE BASE COURSE
R	SHOULDER BERM GUTTER
T	EARTH MATERIAL
DRAWING NOT TO SCALE	

NOTE: ALL PAVEMENT SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

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 User:jamfitzpatrick

6/21/20

COMPUTED BY: AMF DATE: 03162017
 CHECKED BY: DATE:

PROJECT REFERENCE NO. SHEET NO.
 B-6035 3B-1

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

**SUMMARY OF EARTHWORK
 IN CUBIC YARDS**

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
SUMMARY NO.1					
-L- STA. 10+50.00 TO STA. 11+44.01 (BEGIN BRIDGE)	71		115	44	
SUBTOTAL SUMMARY NO.1	71		115	44	
SUMMARY NO.2					
-L- STA. 12+16.74 (END BRIDGE) TO STA. 12+90.00	20		17		3
SUBTOTAL SUMMARY NO.2	20		17		3
PROJECT SUBTOTAL	91		132	44	3
EST. 5% FOR REPLACING TOP SOIL ON BORROW PITS				2	
WASTE IN LIEU OF BORROW				-3	-3
GRAND TOTAL	91		132	43	0
SAY	95		135	45	0

Approximate quantities only. Unclassified excavation, borrow excavation, fine grading, and clearing and grubbing will be paid for at the contract lump sum price for "grading".

CONTINGENCY ITEMS:
 INCIDENTAL STONE = 25 TONS
 UNDERCUT EXCAVATION = 25 CY
 SELECT GRANULAR MATERIAL = 25 CY
 CLASS IV SUBGRADE STABILIZATION = 25 TONS
 GEOTEXTILE FOR SOIL STABILIZATION = 25 SY

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.
 TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
 FLARE 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

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH		TEMPORARY		WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS						IMPACT ATTENUATOR TYPE 350			SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS								
				STRAIGHT	SHOP CURVED	STRAIGHT	SHOP CURVED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	XI MOD	XI	GREU TL-3	GREU TL-2	TYPE III	TYPE III SHOP CURVED	CAT-1	AT-1	EA	G	NG												
																													EA	G	NG					
-L-	10+57.00	11+38.05	LT	25.00'	50.00'				11+38.05	4	7		25		0.5																					
-L-	12+08.72	12+23.44	LT	12.00'					12+08.72	4	7																									
-L-	11+08.82	11+53.06	RT	50.00'	12.50'				11+53.06	4	7	25			0.5																					
-L-	12+34.52	12+90.00	RT	25.00'	25.00'				12+34.52	4	7		25		0.5																					
-L-	11+22.80	12+29.59	LT			75.00'	37.50'																												SEE SHEET TMP-4 (TRAFFIC CONTROL PLANS) FOR TEMP. GUARDRAIL	
-L-	11+00.70	11+53.06	RT			62.50'	25.00'																												SEE SHEET TMP-4 (TRAFFIC CONTROL PLANS) FOR TEMP. GUARDRAIL	
			SUBTOTAL	112.50'	87.50'	137.50'	62.50'																													
			LESS DEDUCTIONS FOR ANCHORS																																	
			GREU TL-2 3 @ 25' =	-75.00'																																
			TYPE III 4 @ 18.75' =	-18.75'	-56.25'																															
			IA-350 TL-2 1 @ 12' =	-12.00'																																
			TEMPORARY AT-1 3 @ 6.25' =			-18.75'																														
			PROJECT TOTALS:	12.50'	37.50'	125.00'	62.50'																													

ADDITIONAL GUARDRAIL POSTS=5 EA.

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COMPUTED BY: AMF DATE: 03/16/2017
CHECKED BY: DATE:

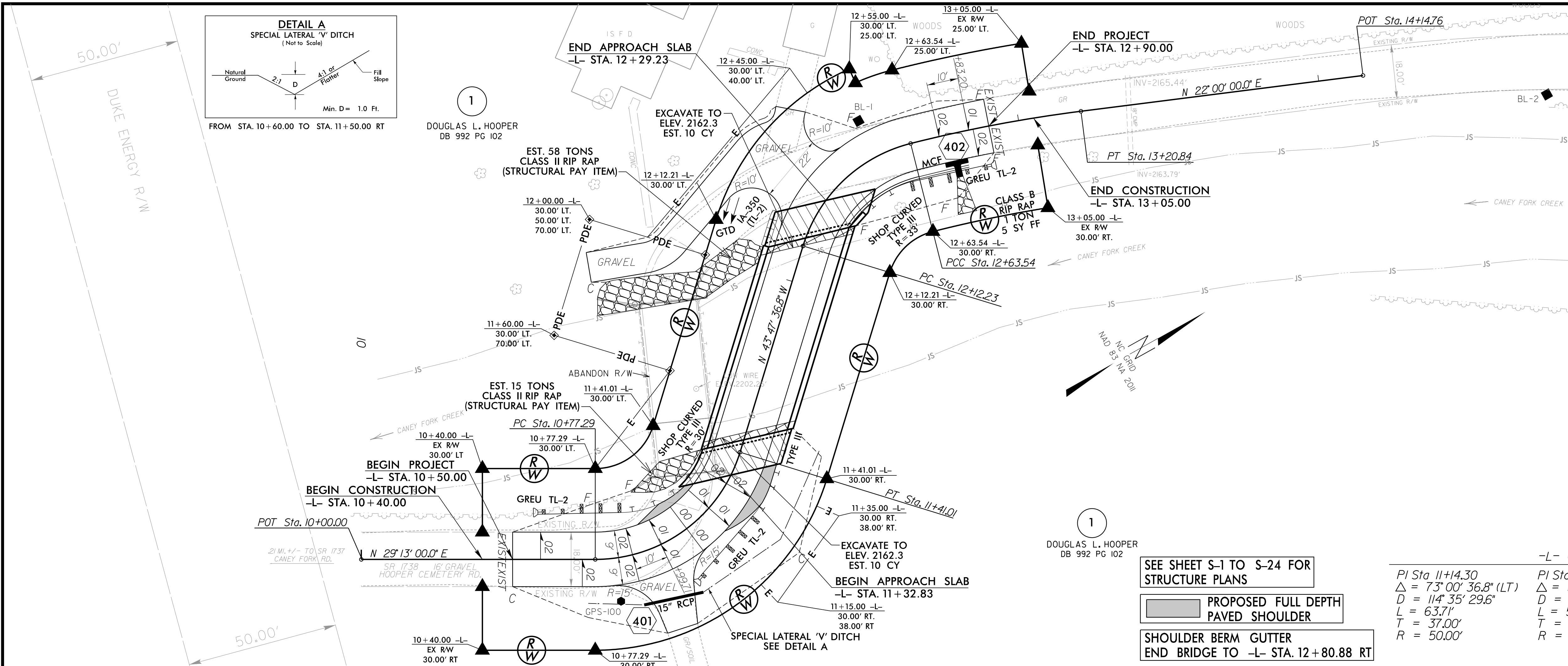
PROJECT REFERENCE NO. SHEET NO.
B-6035 3P-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PARCEL INDEX SHEET

PARCEL NO.	PROPERTY OWNERS NAMES	TOTAL ACREAGE	AREA TAKEN (ACRES)	AREA REMAINING (ACRES)	CONST. EASE. (ACRES)	PERM. DRAIN. EASE. (ACRES)	PERM. UTILITY EASE. (ACRES)
1	DOUGLAS L. HOOPER	8.49	0.27	8.22	0.02	0.04	—

PROJECT REFERENCE NO. B-6035	SHEET NO. 4
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL No. 26960 12/20/2021	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL No. 33023 12/20/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



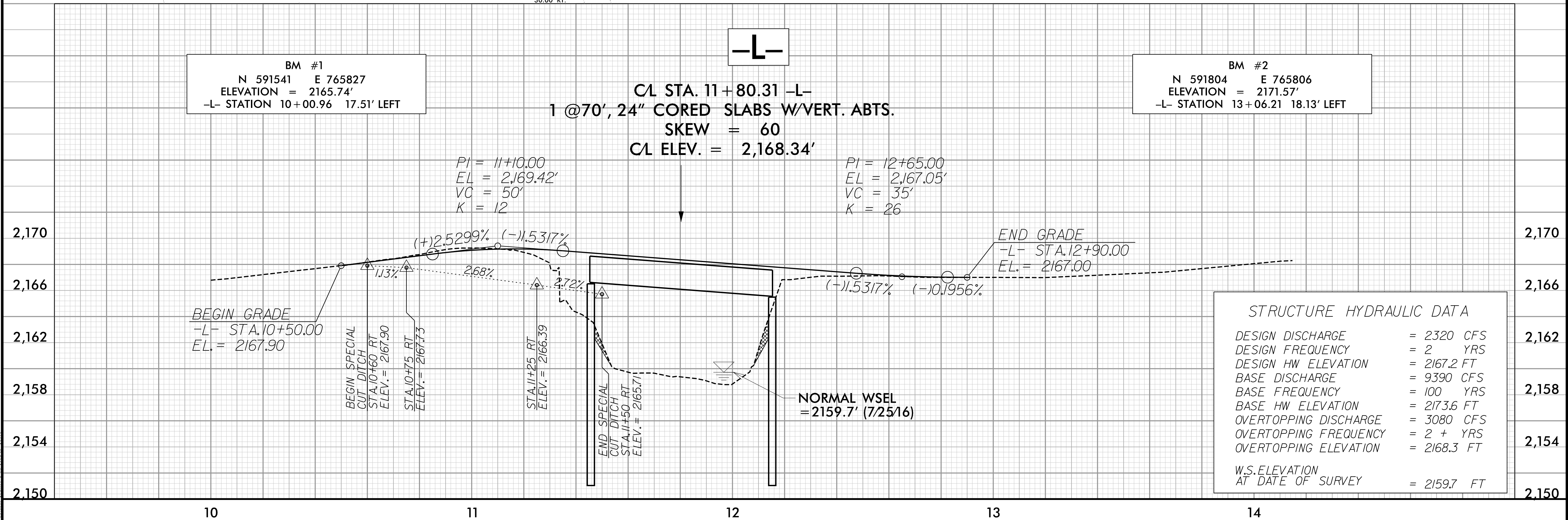
SEE SHEET S-1 TO S-24 FOR
STRUCTURE PLANS

PROPOSED FULL DEPTH
PAVED SHOULDER

SHOULDER BERM GUTTER
END BRIDGE TO -L- STA. 12+80.88 RT

-L- CURVE DATA

PI Sta 11+4.30 Δ = 73° 00' 36.8" (LT) D = 114° 35' 29.6" L = 63.71' T = 37.00' R = 50.00'	PI Sta 12+40.40 Δ = 58° 47' 39.1" (RT) D = 114° 35' 29.6" L = 51.31' T = 28.17' R = 50.00'	PI Sta 12+92.23 Δ = 6° 59' 08.1" (RT) D = 12° 11' 26.1" L = 57.30' T = 28.69' R = 470.00'
--	---	--

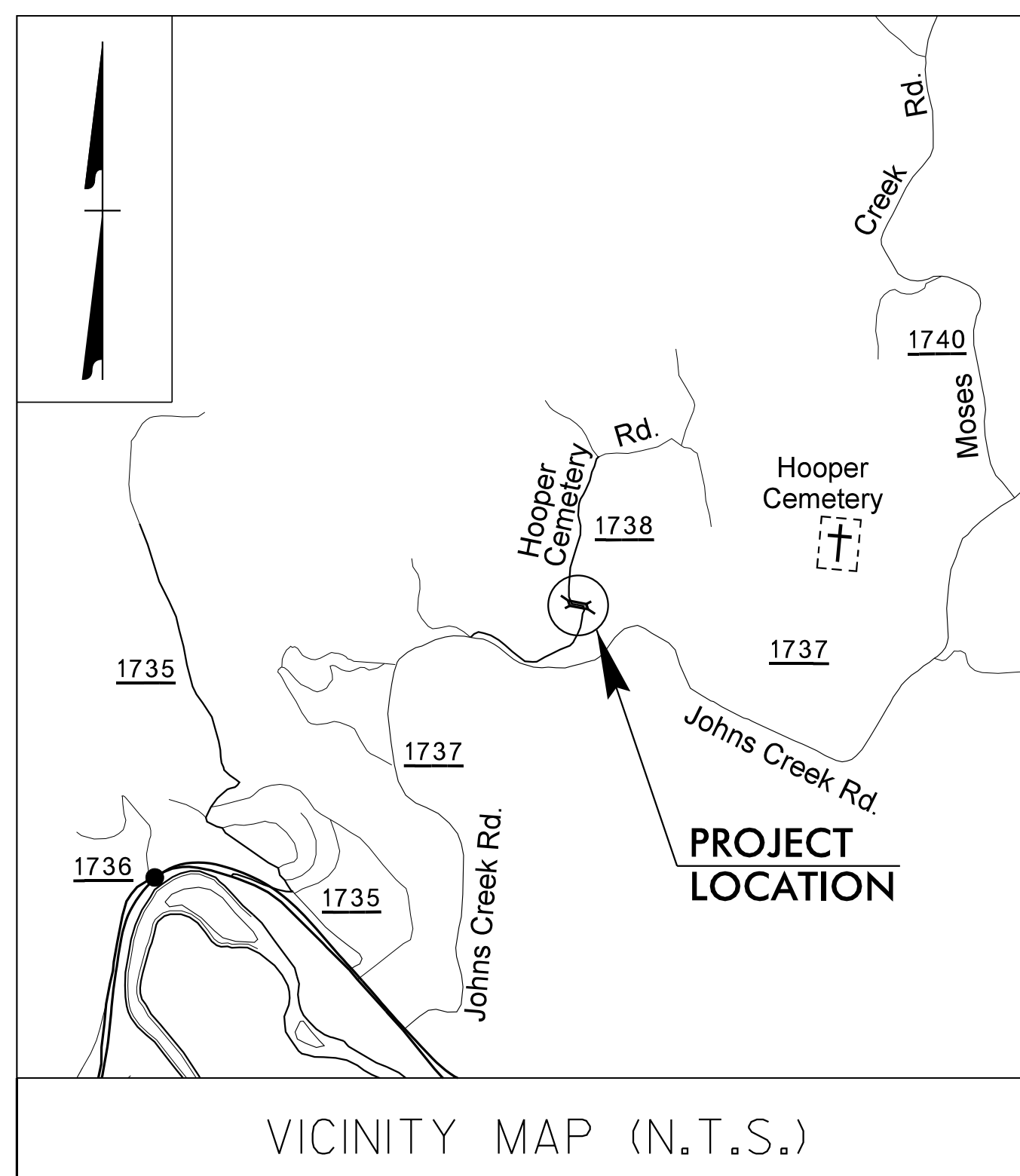
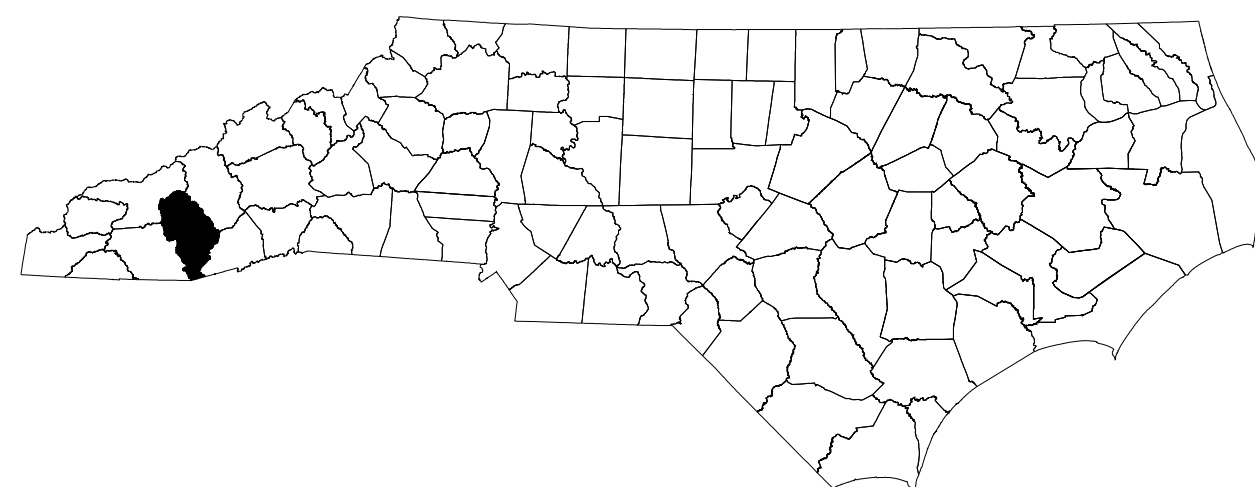


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 User: jackson203

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

JACKSON COUNTY
DIVISION 14



**LOCATION: BRIDGE NO. 490203 OVER CANEY FORK CREEK
ON SR 1738 (HOOPER CEMETERY ROAD)**

TYPE OF WORK: GRADING, DRAINAGE, AND STRUCTURE

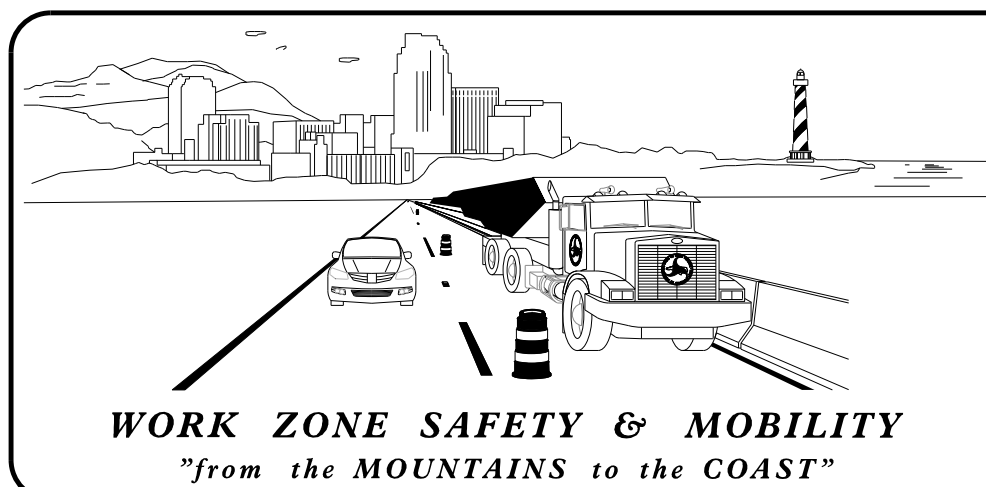
INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET 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-2	TEMPORARY TRAFFIC CONTROL PHASING
TMP-3	TEMPORARY TRAFFIC CONTROL PHASE I DETAIL
TMP-4	TEMPORARY TRAFFIC CONTROL PHASE II DETAIL

SHEET NO.
TMP-1

PROJECT: B-6035

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PLANS PREPARED BY:

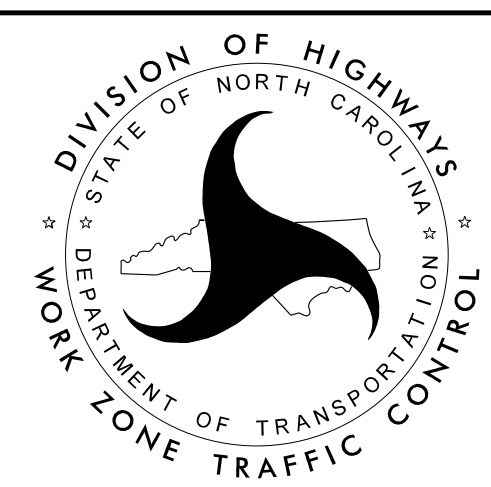
LLOYD DEWAYNE BROWN, P.E., P.L.S.
PROJECT ENGINEER

ALEX FITZPATRICK
PROJECT DESIGN ENGINEER

NCDOT CONTACTS:

JOSEPH E. HUMMER, Ph.D., P.E.
STATE TRAFFIC MANAGEMENT ENGINEER

DON A. PARKER, P.E.
WESTERN WZTC ENGINEER



V&M
Vaughn & Melton
Consulting Engineers

Asheville, North Carolina
828-253-2796

Boone, NC 828-355-9933
Tri-Cities, TN 423-467-8401
Knoxville, TN 865-546-5800
Spartanburg, SC 864-574-4775
Charleston, SC 843-974-5650
Middlesboro, KY 606-248-6600
Atlanta, GA 770-627-3509

Raleigh, NC 919-977-9455
Charlotte, NC 704-357-0488

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APPROVED: Lloyd D. Brown
DATE: 12/17/2021

SEAL

PROFESSIONAL SEAL
LLOYD D. BROWN
ENGINEER
20119

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User:samfitzpatrick

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
862.01	GUARDRAILL PLACEMENT
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

LEGEND

GENERAL

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

WORK AREA

TEMPORARY STONE

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PORTABLE TRAFFIC SIGNAL

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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GENERAL NOTES / LOCAL 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) DO NOT STOP TRAFFIC AS FOLLOWS:

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>	<u>DURATION AND OPERATION</u>
SR 1738		
HOOPER CEMETERY ROAD	12 A.M. TO 6 A.M.	>45 MINUTES
	6 A.M. TO 9 A.M.	DO NOT CLOSE
	9 A.M. TO 4 P.M.	>30 MINUTES
	4 P.M. TO 7 P.M.	DO NOT CLOSE
	7 P.M. TO 12 A.M.	>30 MINUTES

- B) 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.
- C) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, 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.

PAVEMENT EDGE DROP OFF REQUIREMENTS

F) 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.

G) 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) IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

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

- L) 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.
- M) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- N) 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.
- O) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- P) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS BY THE END OF EACH DAY'S OPERATION.

MISCELLANEOUS

Q) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 100 FT AND 200 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

LOCAL NOTES:

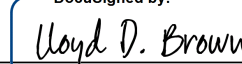
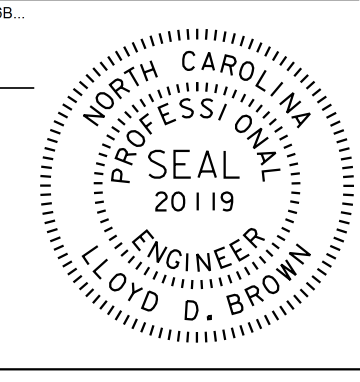
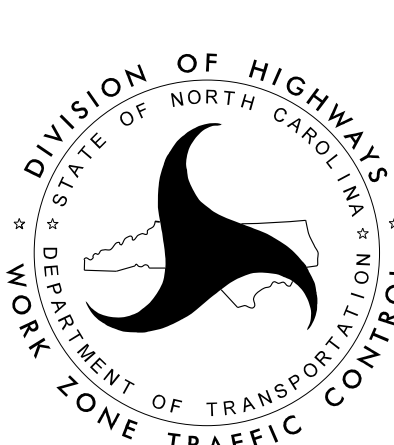
- EMERGENCY VEHICLE ACCESS MUST BE MAINTAINED AT ALL TIMES.
- NOTIFY THE FIRE DEPT, E.M.S., AND JACKSON COUNTY SCHOOL BOARD 30 DAYS PRIOR TO ROAD CLOSURE.
- LOCAL ACCESS TO ALL RESIDENCES AND BUSINESSES WILL BE MAINTAINED BETWEEN CLOSURE POINTS AT ALL TIMES DURING CONSTRUCTION.

MANAGEMENT STRATEGIES

PHASE I DEPICTS TRAFFIC TO BE MAINTAINED ON THE EXISTING ROAD WHILE THE NB PROPOSED ROADWAY IS CONSTRUCTED

PHASE 2 DEPICTS TRAFFIC SHIFTED TO THE PARTIALLY CONSTRUCTED ROADWAY ON A ONE-LANE TWO-WAY PATTERN USING TEMPORARY TRAFFIC CONTROL SIGNALS WHILE THE SB PROPOSED ROADWAY IS CONSTRUCTED. A FLAGGING OPERATION WILL BE USED TO CONSTRUCT THE NEW TIE-INS.

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PROJECT PHASING

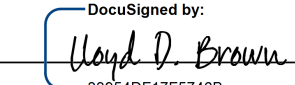
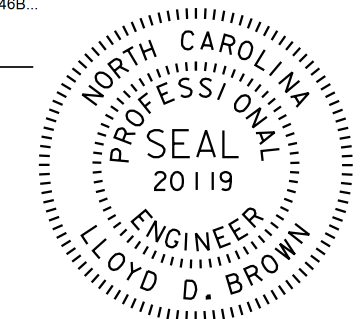

PHASE I

- STEP 1: - ERECT WORK ZONE ADVANCED WARNING SIGNS USING ROADWAY STANDARD DRAWINGS NO. 1101.01, SHEET 3 OF 3.
- STEP 2: - INSTALL PORTABLE TRAFFIC SIGNALS USING RSD 1101.02, SHEET 14 OF 14 (SEE SHEET TMP-3)
- NOTE: STEP 3 SHALL BE COMPLETED IN A CONTINUOUS OPERATION.
- STEP 3: USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 & 14 OF 14, AND FLAGGERS AS NECESSARY, PERFORM THE FOLLOWING ON -L- SR 1738 (HOOPER CEMETERY ROAD):
- DEPLOY WORK ZONE TRAFFIC CHANNELIZATION DEVICES PER SHEET TMP-3 AND ROADWAY STANDARD DRAWINGS NO. 1130.01 AND 1135.01.
 - PLACE TEMPORARY STONE (6" ABC) FROM -L- STA. 11+94 +/- (LT) TO 12+57 +/- (RT) (SEE SHEET TMP-3).
 - ACTIVATE PORTABLE TRAFFIC SIGNALS AND DIRECT SR 1738 (HOOPER CEMETERY ROAD) TRAFFIC INTO A ONE-LANE TWO-WAY PATTERN IN THE NORTHBOUND LANE OF SR 1738 (SEE SHEET TMP-3).
- STEP 4: AWAY FROM TRAFFIC, PERFORM THE FOLLOWING ON -L- SR 1738 (HOOPER CEMETERY ROAD):
- INSTALL TEMPORARY SHORING FROM -L- STA. 11+22 +/- TO -L- STA. 11+49 +/- (1) AND FROM -L- STA. 12+09 +/- TO -L- STA. 12+52 +/- (2) (SEE SHEET TMP-3).
 - CONSTRUCT APPROACH SLABS FOR PROPOSED STRUCTURE, BRIDGE NO. 490203. ON SOUTH SIDE OF PROPOSED STRUCTURE, CONSTRUCT NORTHBOUND (RIGHT SIDE) APPROACH SLAB ONLY (SEE SHEET TMP-3).
 - CONSTRUCT STRUCTURE PER STAGE 1 OF THE STRUCTURE PLANS.
- STEP 5: USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 & 14 OF 14, AND FLAGGERS AS NECESSARY, PERFORM THE FOLLOWING ON -L- SR 1738 (HOOPER CEMETERY ROAD):
- PLACE TEMPORARY STONE (6" ABC) FROM -L- STA. 10+50 +/- (RT) TO 11+41 +/- (RT), -L- STA. 12+39 +/- (RT) TO 12+80 +/- (RT) (SEE SHEET TMP-3).
 - CONSTRUCT -L- SR 1738 (HOOPER CEMETERY ROAD) FROM STA. 10+50 +/- TO STA. 12+90 +/- NORTHBOUND LANE (RT) UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- STEP 6: - AWAY FROM TRAFFIC, CONSTRUCT TEMPORARY GUARDRAIL ALONG -L- (SEE SHEET TMP-4).

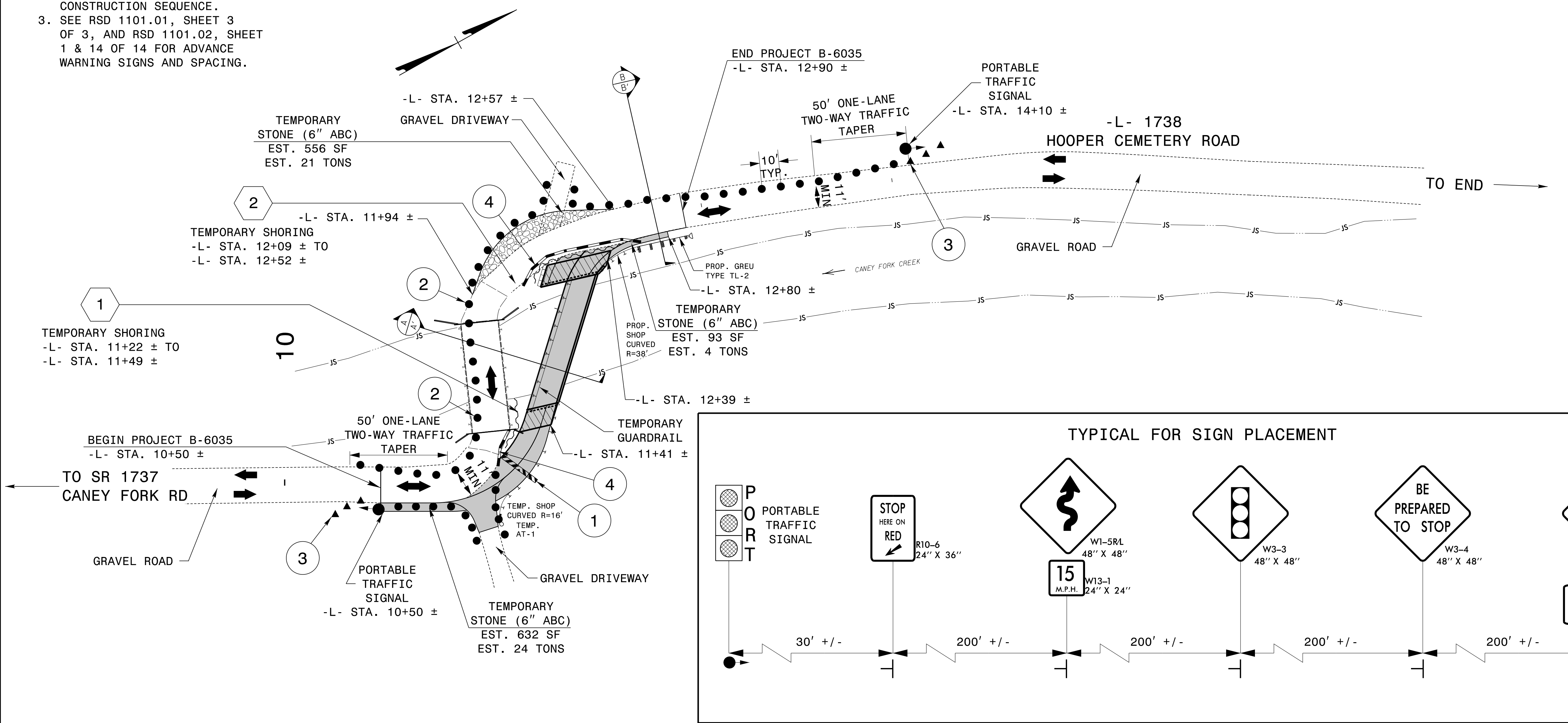
PHASE II

- NOTE: STEP 1 SHALL BE COMPLETED IN A CONTINUOUS OPERATION.
- STEP 1: USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 & 14 OF 14, AND FLAGGERS AS NECESSARY, PERFORM THE FOLLOWING ON -L- SR 1738 (HOOPER CEMETERY LANE):
- REMOVE TEMPORARY STONE PLACED IN STEP 3, PHASE I.
 - ACTIVATE PORTABLE TRAFFIC SIGNALS AND DIRECT SR 1738 (HOOPER CEMETERY ROAD) TRAFFIC INTO A ONE-LANE TWO-WAY PATTERN IN THE NEWLY CONSTRUCTED NORTHBOUND LANE OF SR 1738 (HOOPER CEMETERY ROAD) (SEE SHEET TMP-4).
- STEP 2: - AWAY FROM TRAFFIC, PERFORM THE FOLLOWING ON -L- SR 1738 (HOOPER CEMETERY ROAD):
- REMOVE EXISTING STRUCTURE (SEE STRUCTURAL PLANS).
 - REMOVE ALL TEMPORARY SHORING PLACED IN STEP 4, PHASE I.
- STEP 3: - AWAY FROM TRAFFIC, INSTALL TEMPORARY SHORING FROM -L- STA. 10+80 +/- TO -L- STA. 12+45 +/- (3) (SEE SHEET TMP-4).
- CONSTRUCT SOUTHBOUND APPROACH SLAB ON SOUTH SIDE OF PROPOSED STRUCTURE, BRIDGE NO. 490203 (SEE SHEET TMP-4).
 - CONSTRUCT STRUCTURE PER STAGE 2 OF THE STRUCTURAL PLANS.
- STEP 4: USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 & 14 OF 14, AND FLAGGERS AS NECESSARY, PERFORM THE FOLLOWING ON -L- SR 1738 (HOOPER CEMETERY ROAD):
- CONSTRUCT -L- (SR 1738 HOOPER CEMETERY ROAD) FROM STA 11+15 TO STA 12+34 SOUTHBOUND LANE (LEFT SIDE), BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE SHEET TMP-4).
- STEP 5: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, AND FLAGGERS AS NECESSARY, PERFORM THE FOLLOWING ON -L- SR 1738 (HOOPER CEMETERY ROAD):
- CONSTRUCT GUARDRAIL, AND REMOVE TEMPORARY GUARDRAIL PLACED IN STEP 6, PHASE I.
 - REMOVE TEMPORARY STONE PLACED IN STEP 5, PHASE I.
 - CONSTRUCT SHOULDER BERM GUTTER (RT) AND MODIFIED CONCRETE FLUME (RT), AND GRADE EMBANKMENT PER THE ROADWAY PLANS.
- STEP 6: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, AND FLAGGERS AS NECESSARY, PLACE THE FINAL LAYER OF SURFACE COURSE, AND THE FINAL PAVEMENT MARKINGS (PAINT) ON THE ENTIRE PROJECT (SEE PAVEMENT MARKING PLANS).
- STEP 7: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, AND FLAGGERS AS NECESSARY, DEACTIVATE ALL PORTABLE TRAFFIC SIGNALS AND REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES, SIGNS AND SIGNALS, AND OPEN SR 1738 (HOOPER CEMETERY ROAD) TO ITS FINAL TRAFFIC PATTERN.

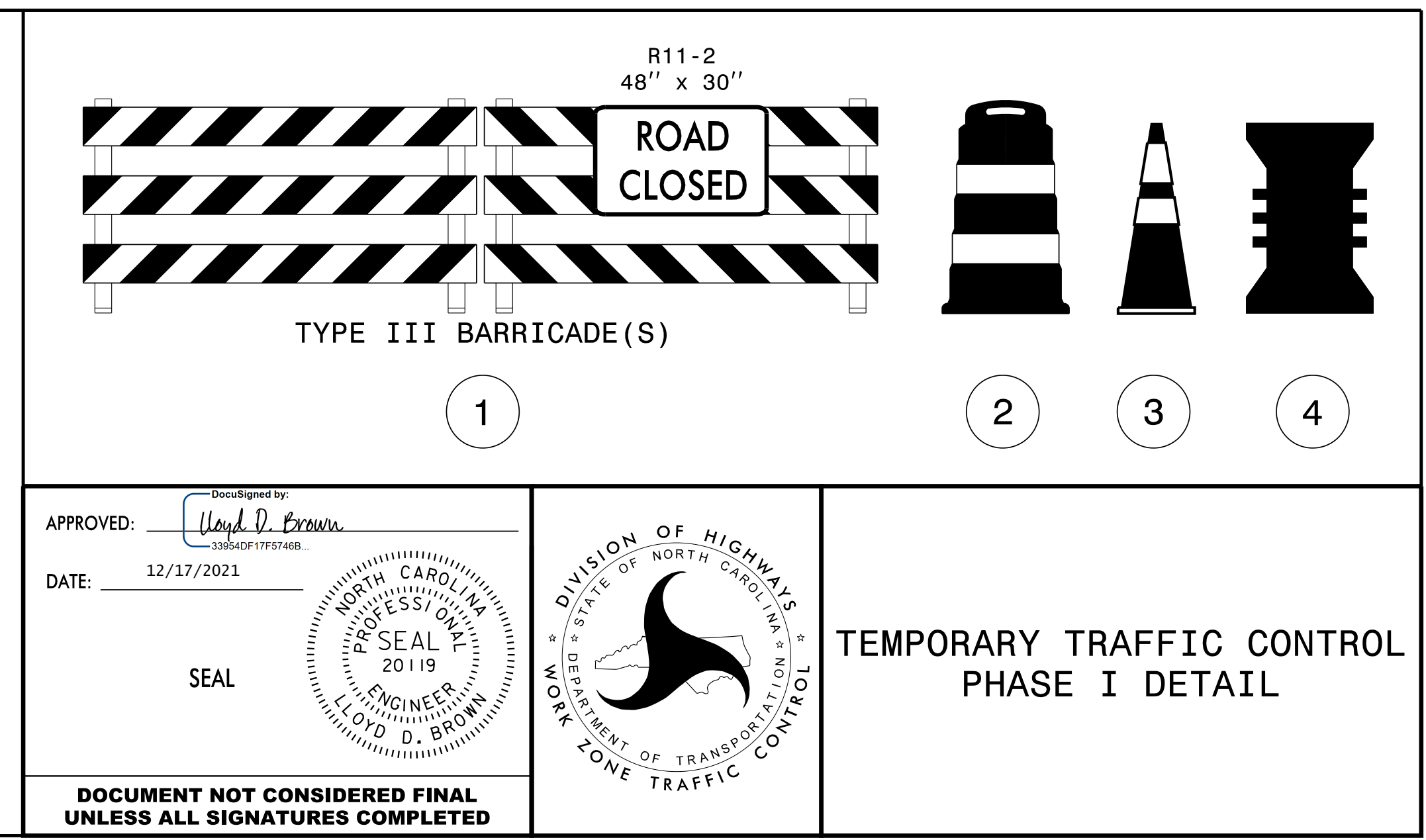
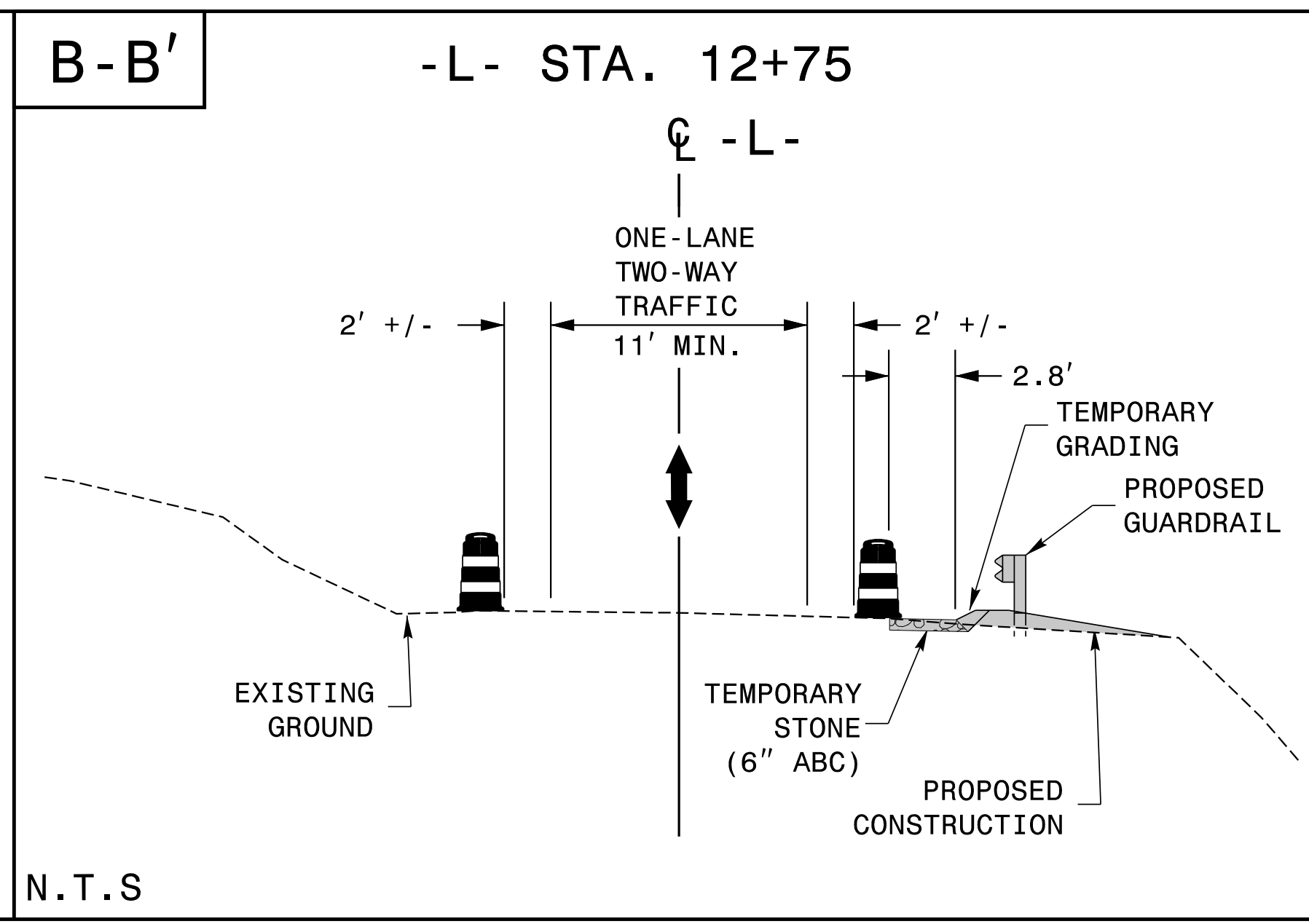
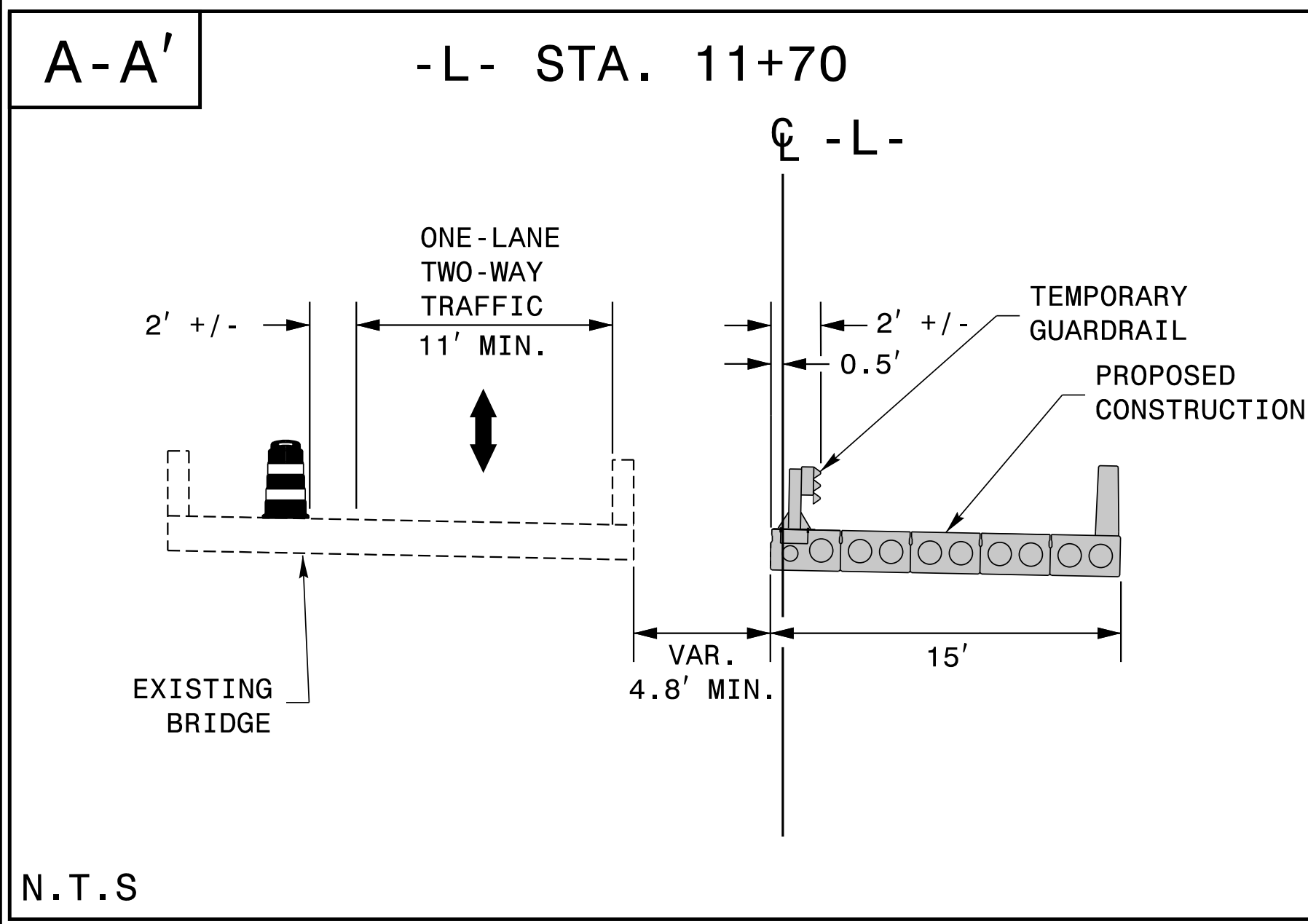
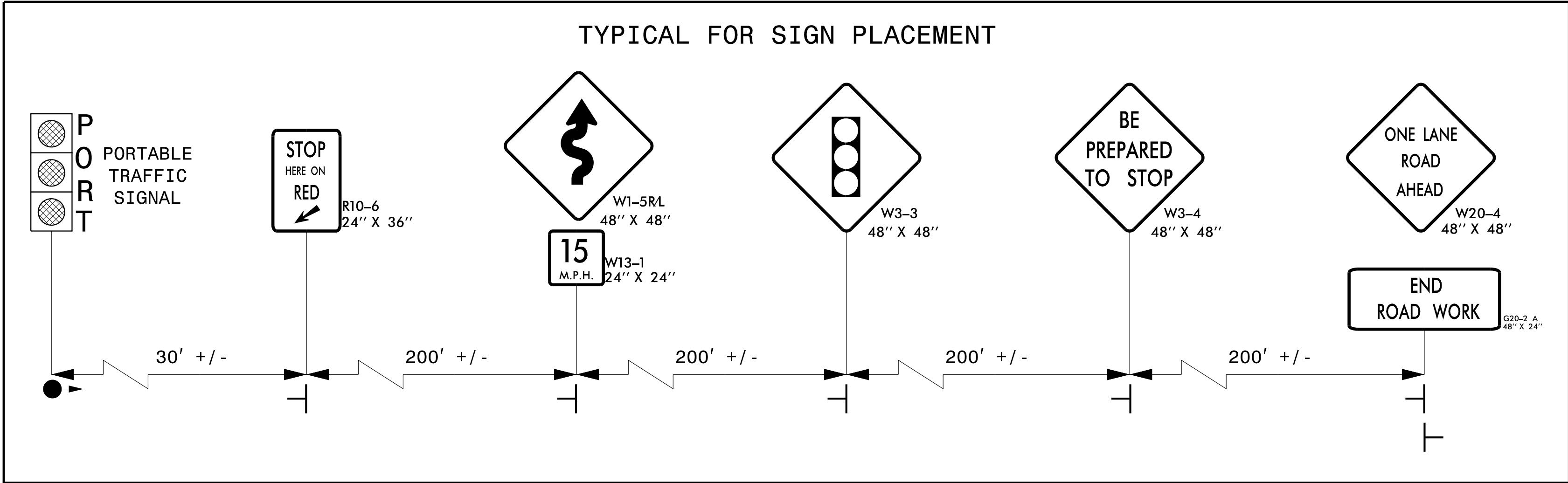
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APPROVED:  DATE: 12/17/2021 SEAL 		<h3>TEMPORARY TRAFFIC CONTROL PHASING</h3>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

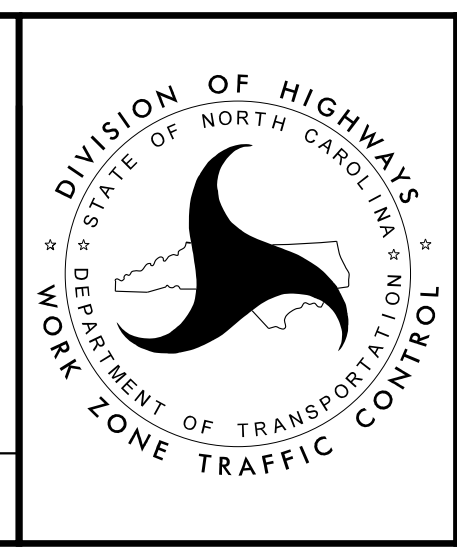
- NOTES:
1. MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION.
 2. SEE PHASING NOTES FOR CONSTRUCTION SEQUENCE.
 3. SEE RSD 1101.01, SHEET 3 OF 3, AND RSD 1101.02, SHEET 1 & 14 FOR ADVANCE WARNING SIGNS AND SPACING.



SCALE 1"=30'



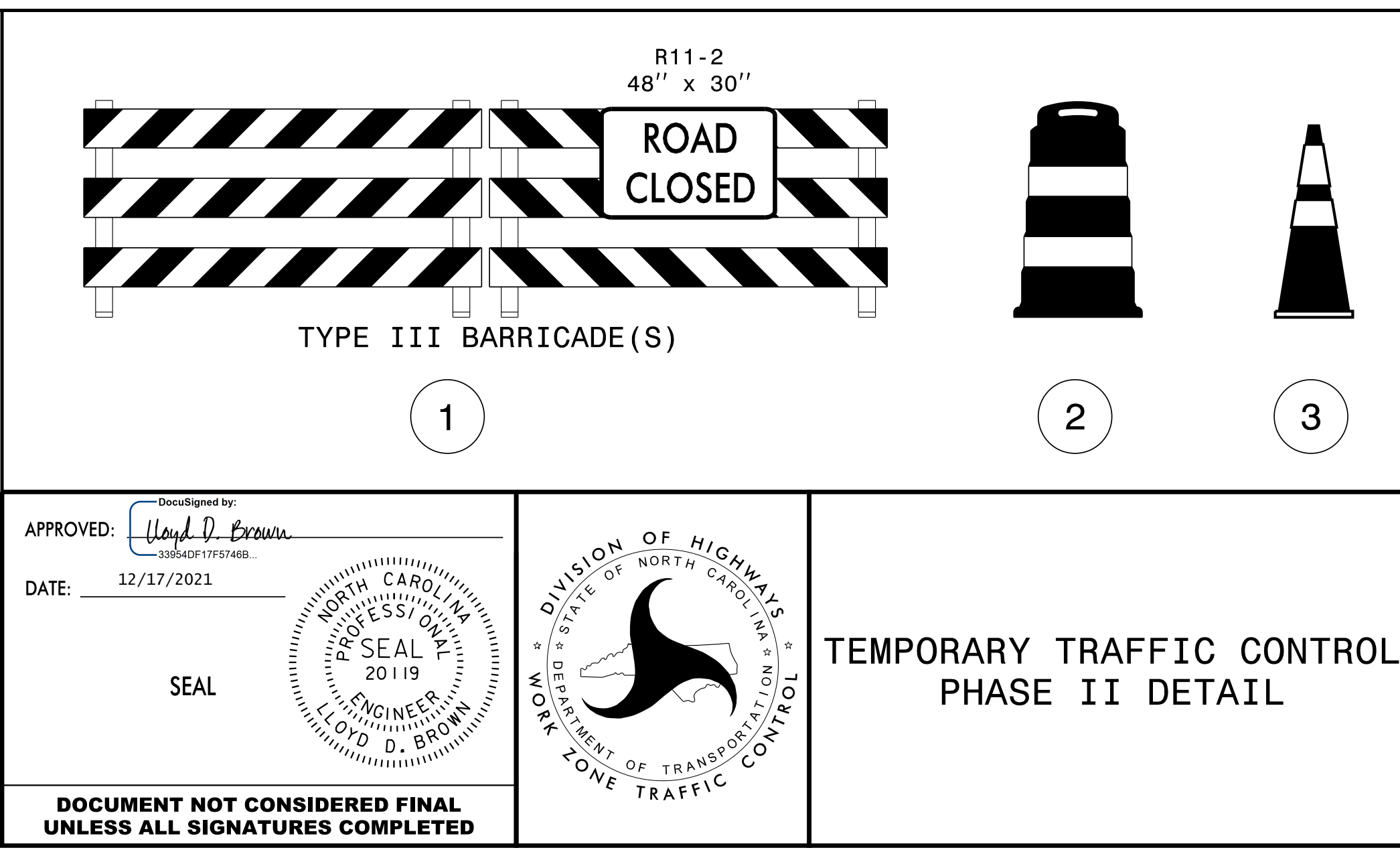
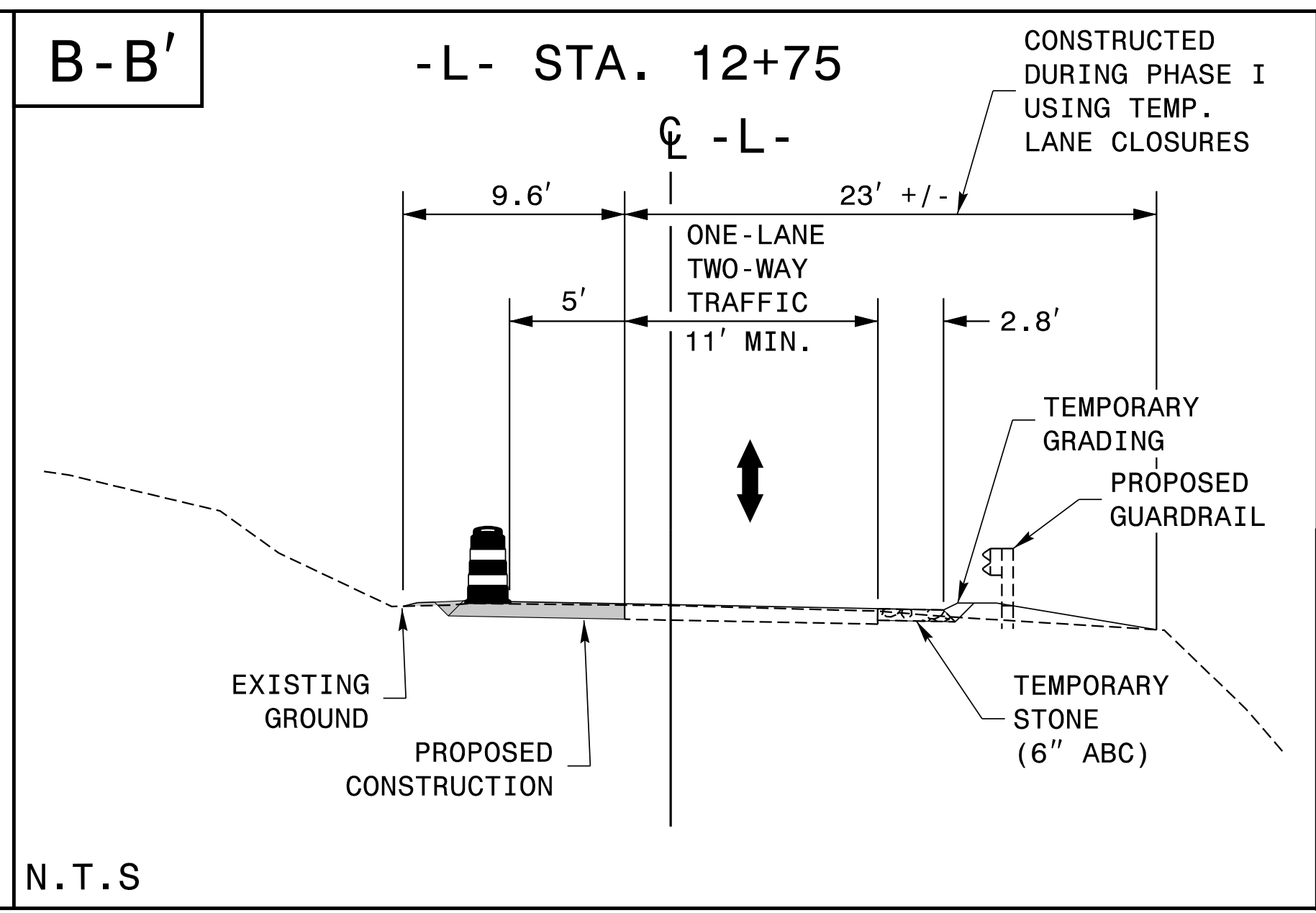
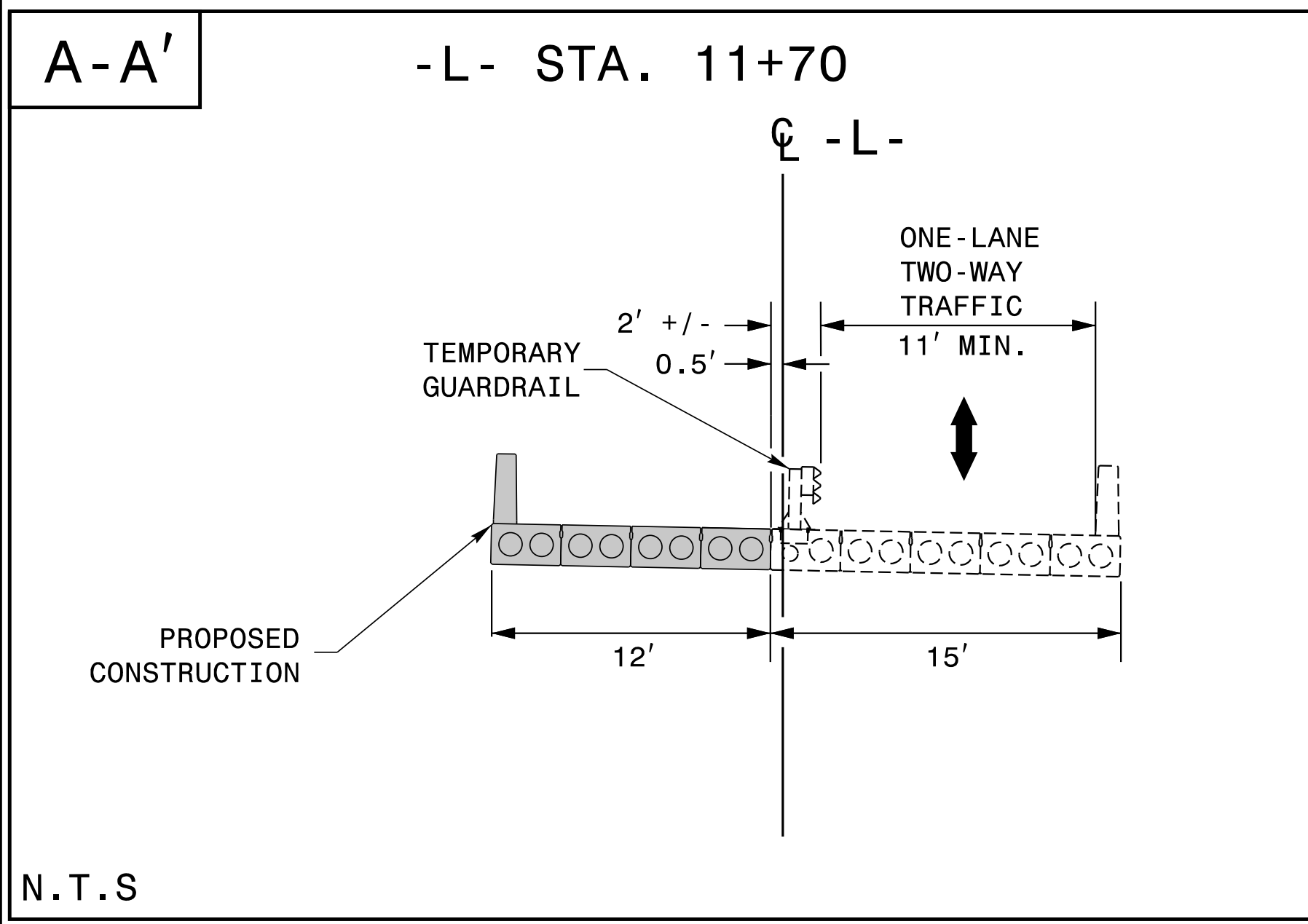
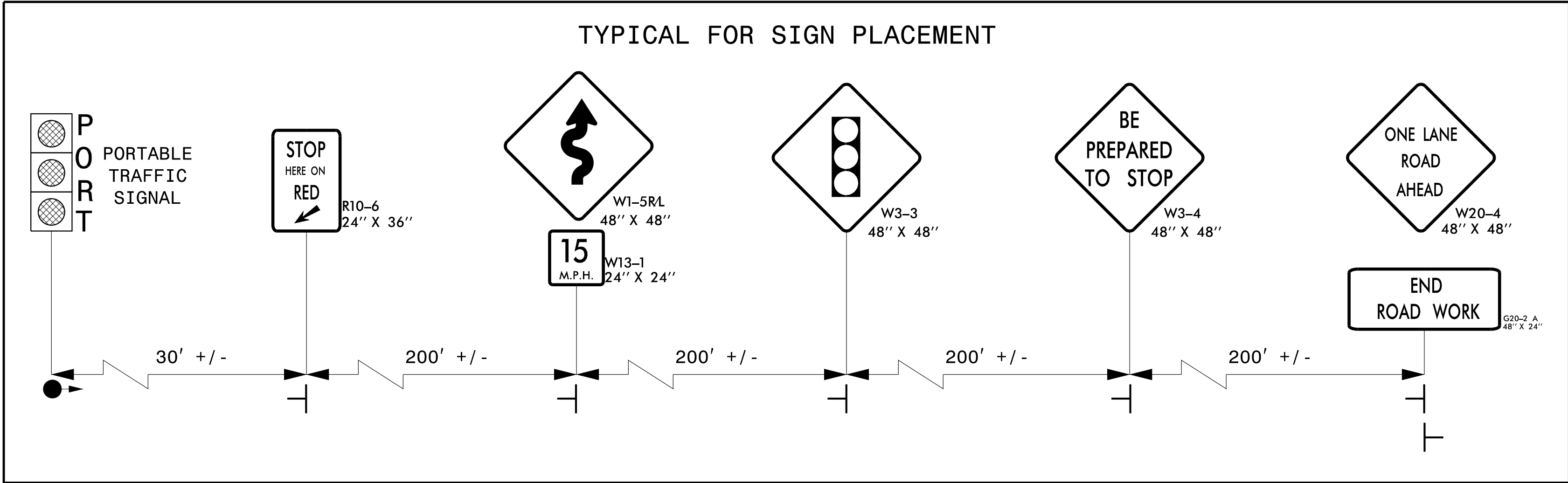
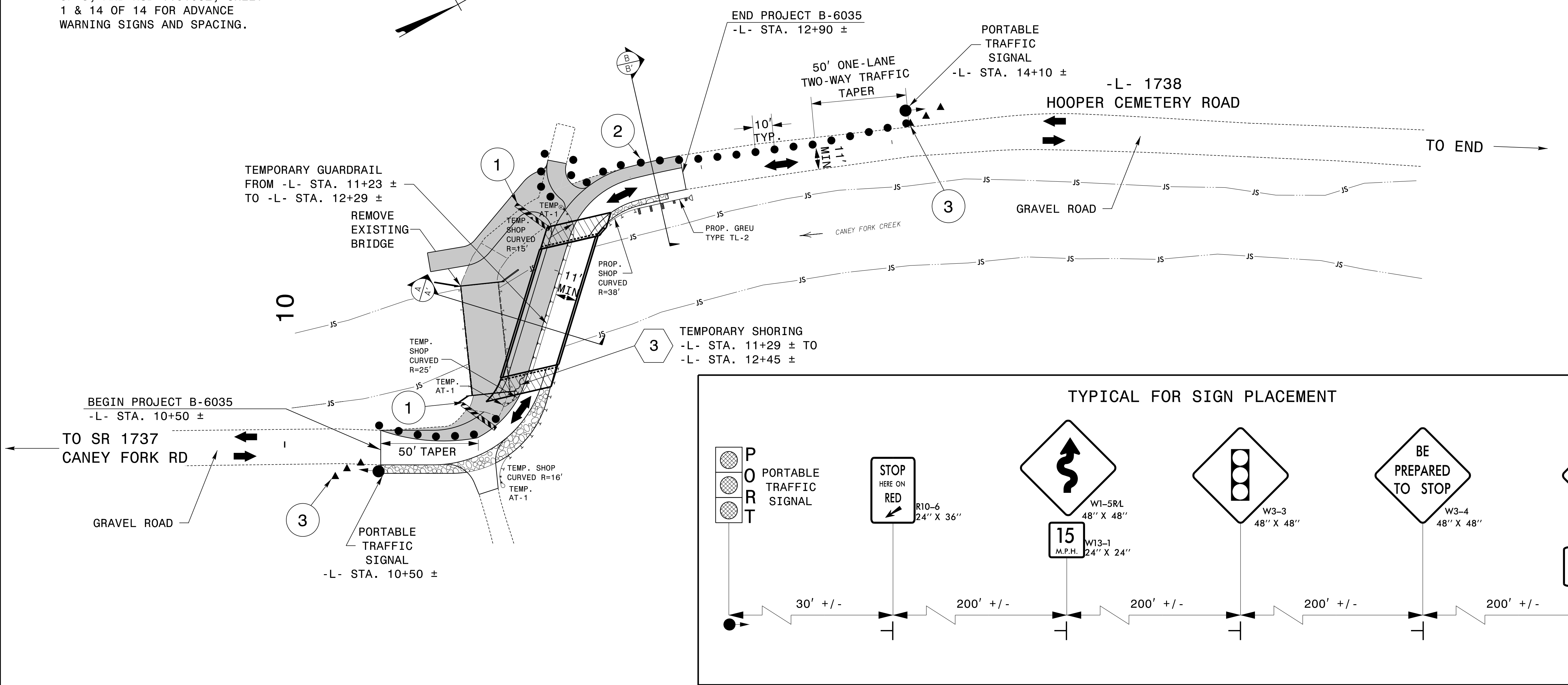
APPROVED: *Lloyd D. Brown*
 DATE: 12/17/2021
 SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 LLOYD D. BROWN
 33654017757468



TEMPORARY TRAFFIC CONTROL PHASE I DETAIL

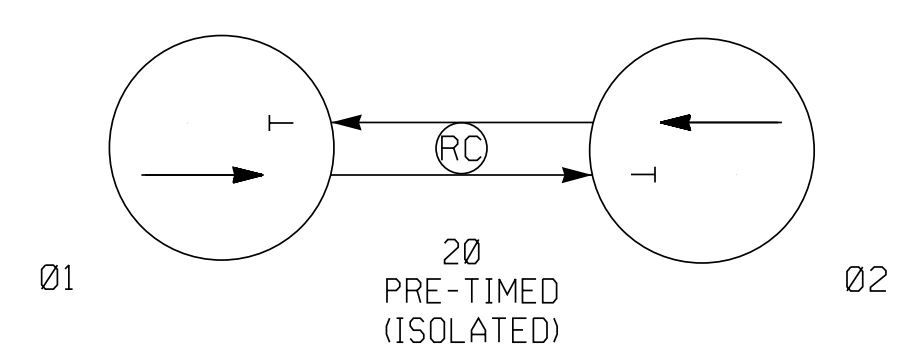
12/17/2021 10:36:00 AM
 ...TrafficControl\TMP-3.dgn
 User:samfitzpatrick

- NOTES:
1. MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION.
 2. SEE PHASING NOTES FOR CONSTRUCTION SEQUENCE.
 3. SEE RSD 1101.01, SHEET 3 OF 3, AND RSD 1101.02, SHEET 1 & 14 OF 14 FOR ADVANCE WARNING SIGNS AND SPACING.



12/14/2021 11:39:34 PM
...:\TrafficControl\TCP\TMP-4.dgn
User:sam.fitzpatrick

PHASING DIAGRAM



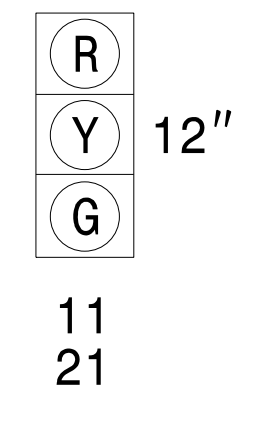
PHASING DIAGRAM DETECTION LEGEND

- ←●← DETECTED MOVEMENT
- ← UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- ←--- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

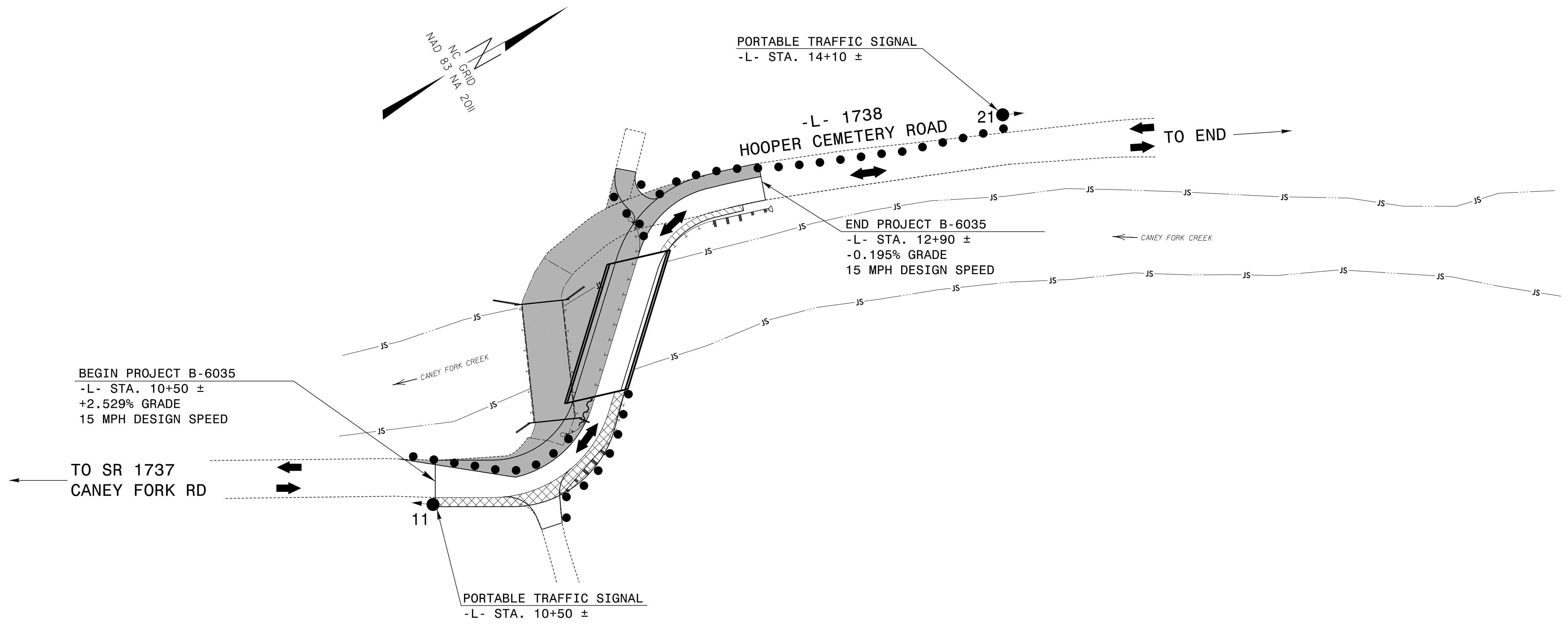
SIGNAL FACE	02			01			FLASH
	CLEAR			CLEAR			
	R/W	01	02	R/W	01	02	
11	R	R	R	G	Y	R	R
21	G	Y	R	R	R	R	R

SIGNAL FACE I.D.



NOTES

1. PORTABLE TEMPORARY INSTALLATION.
2. NO COUNTS AVAILABLE.
3. CONTRACTOR TO UTILIZE NCDOT PRE-APPROVED PORTABLE TRAFFIC SIGNAL MANUFACTURER AND MODEL.




TIMING CHART
NEMA CONTROLLER

PHASE	01	02
MINIMUM GREEN	27 SEC.	27 SEC.
PASSAGE GAP	0 SEC.	0 SEC.
YELLOW CHANGE INT.	3.0 SEC.	3.0 SEC.
RED CLEARANCE	26 SEC.	26 SEC.
MAX. 1	40 SEC.	40 SEC.
RECALL POSITION	MAX. RECALL	MAX. RECALL
VEHI. CALL MEMORY	-	-

4/25/2018 7:32:47 AM \\users\lloyd\transpor-tation\31631-02 Jackson 203 - 17BP.14.R.1.45\Traffic\TrafficControl\TCP\SIG-1.dgn

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

<p>Prepared in the Office of:</p> <p>Ashleyville, North Carolina 888-253-2796</p>	<p>PORTABLE TRAFFIC SIGNAL PLAN SR 1738 HOOPER CEMETERY ROAD</p>		<p>SEAL</p>								
	<p>DIV. 14 JACKSON COUNTY</p> <p>PLAN DATE: 2/9/2018 REVIEWED BY: LDB</p> <p>PREPARED BY: CGM REVIEWED BY:</p>										
<p>SCALE</p> <p>0 30</p>	<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	INIT.	DATE					<p>DocuSign by:</p> <p><i>Lloyd D. Brown</i> 12/17/2021</p> <p>3338081787488E DATE</p> <p>SIG. INVENTORY NO.</p>
NO.	DATE	INIT.	DATE								

TIP NO.	SHEET NO.
B-6035	PMP-1
APPROVED: <u>Lloyd D. Brown</u> <small>20254DF17F5746B...</small>	
DATE: 4/11/2022	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PAVEMENT MARKING PLAN
JACKSON COUNTY

**LOCATION : BRIDGE NO. 490203 OVER CANEY FORK CREEK
ON SR 1738 (HOOPER CEMETERY ROAD)**

TIP B-6035

CONTRACT: DN00785

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 2018 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 & MULTILANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES & MOUNTING
1262.01	GUARDRAIL END DELINEATION

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 ON THE FINAL SURFACE
ROAD NAME: _____ MARKING _____ MARKER _____
SR 1738 (HOOPER CEMETERY ROAD) PAINT NONE
- B) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- C) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE SHEET AND SCHEDULE
PMP-2	PAVEMENT MARKING DETAIL AND QUANTITIES

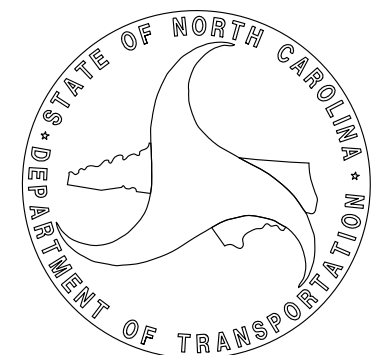
**PAVEMENT MARKING
SCHEDULE**

FINAL
PAVEMENT MARKINGS

SYMBOL	DESCRIPTION
PAINT (4")	
	WHITE EDGELINE
	YELLOW DOUBLE CENTER

PLANS REVIEWED BY: N.C.D.O.T SIGNING AND DELINEATION UNIT

K. L. JORDAN SIGNING & DELINEATION REGIONAL ENGINEER
M. TRACEY, P.E. SIGNING & DELINEATION PROJECT DESIGN ENGINEER




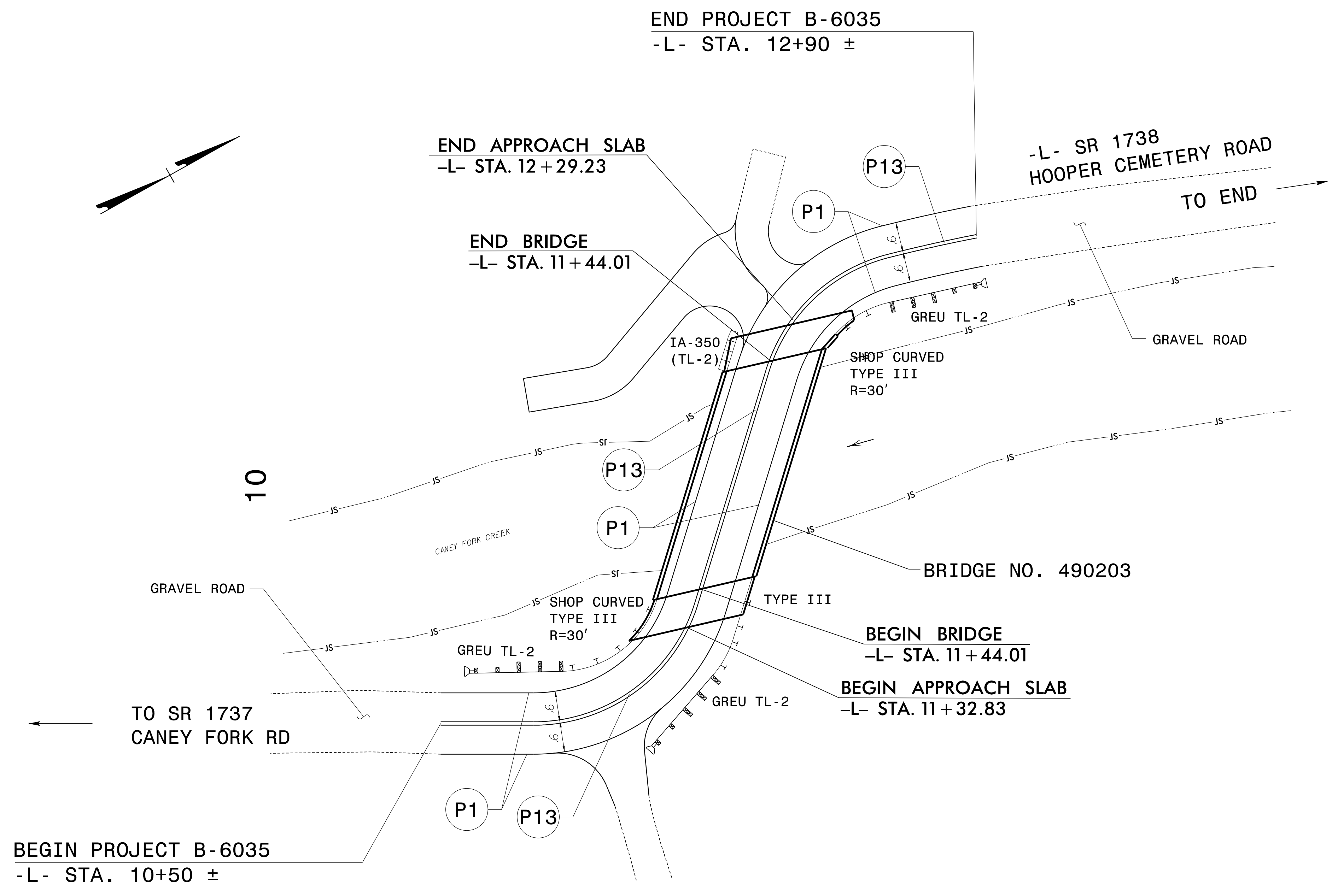
PLAN PREPARED BY: Vaughn & Melton Consulting Engineers

LLOYD DEWAYNE BROWN, P.E. PROJECT ENGINEER
ALEX FITZPATRICK PROJECT DESIGN ENGINEER



<input type="checkbox"/> Raleigh, NC 919-977-9455	<input type="checkbox"/> Charlotte, NC 704-357-0488	<input type="checkbox"/> Boone, NC 828-355-9933
<input type="checkbox"/> Tri-Cities, TN 423-467-9400	<input type="checkbox"/> Tri-Cities, TN 423-467-8400	<input type="checkbox"/> Knoxville, TN 865-546-9800
<input type="checkbox"/> Charleston, SC 843-974-5650	<input type="checkbox"/> Milledgeville, KY 606-248-6600	<input type="checkbox"/> Atlanta, GA 770-627-3509
<input type="checkbox"/> Spartanburg, SC 864-574-4775		

TIP NO. B-6035	SHEET NO. PMP-2
APPROVED: <i>Lloyd D. Brown</i> 33954DF1F9746B...	
DATE: 12/17/2021	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



FINAL PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	QUANTITY BREAKDOWN	PAY ITEM	TOTAL QUANTITY
P1	WHITE EDGELINE (4") - PAINT	480 FT	4810000000-E	960 FT
P13	YELLOW DOUBLE CENTER (4") - PAINT	480 FT	4810000000-E	960 FT

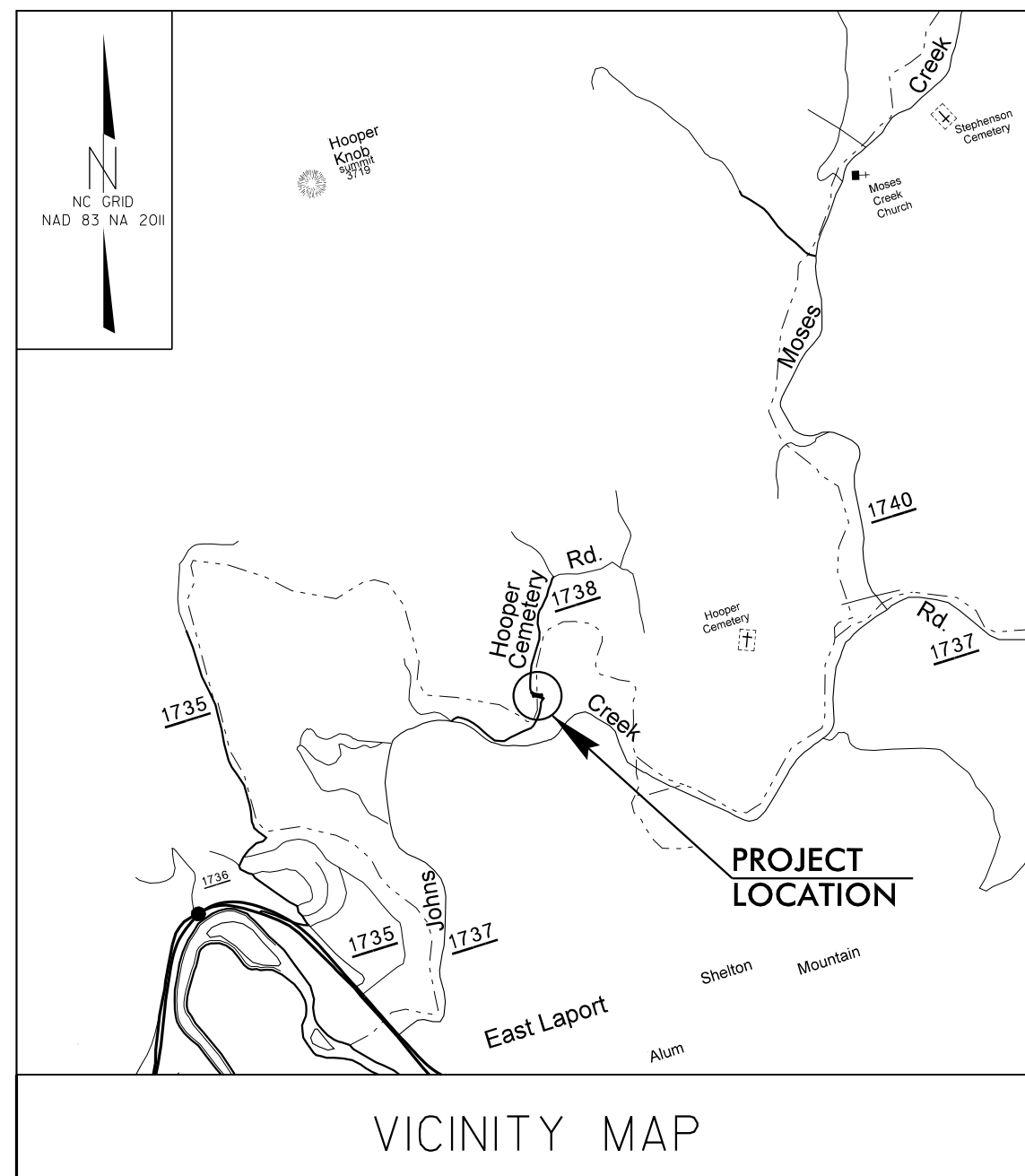
SCALE 1" = 20'

PAVEMENT MARKING DETAIL

12/17/2021 10:49:29 AM
User:tomfitzpatrick

PROJECT: B-6035

CONTRACT: DN00785



STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL
JACKSON COUNTY

**LOCATION: STRUCTURE NO. 490203 ON SR 1738
 OVER CANEY FORK CREEK.**

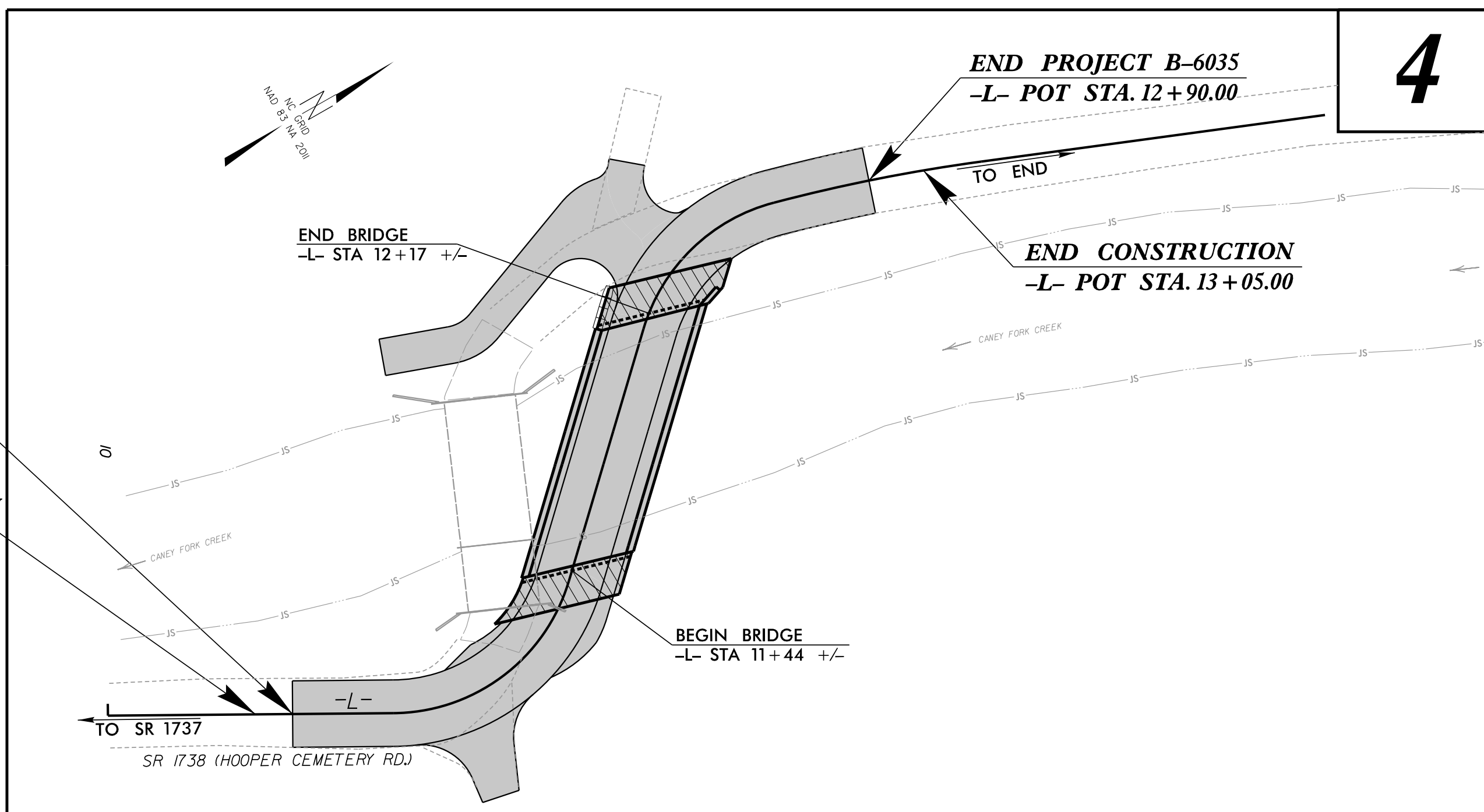
TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE.

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.

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.
 ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

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



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-6035	EC-1	6
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

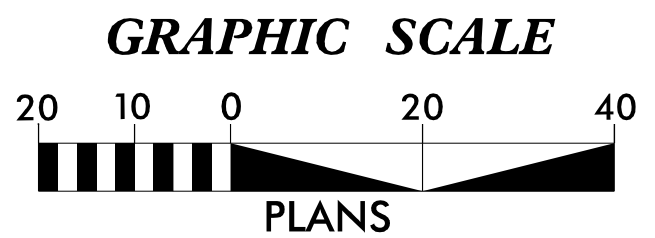
EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	▲▲▲▲▲
1622.01	Temporary Berms and Slope Drains	T
1630.02	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▨
1633.02	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	▨
1633.03	Temporary Rock Silt Check Type-B	▨
1633.04	Wattle / Coir Fiber Wattle	W
1633.05	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	W
1634.01	Temporary Rock Sediment Dam Type-A	▨
1634.02	Temporary Rock Sediment Dam Type-B	▨
1635.01	Rock Pipe Inlet Sediment Trap Type-A	U
1635.02	Rock Pipe Inlet Sediment Trap Type-B	U
1630.04	Stilling Basin	▭
1630.06	Special Stilling Basin	▭
Rock Inlet Sediment Trap:		
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
1630.07	Skimmer Basin	▭
1630.08	Tiered Skimmer Basin	▭
1630.09	Infiltration Basin	▭

V&M
Vaughn & Melton
 Consulting Engineers
 Asheville, North Carolina
 828-253-2796

- Boone, NC 828-355-9933
- Tri-Cities, TN 423-467-8403
- Knoxville, TN 865-546-5800
- Spartanburg, SC 864-574-4775
- Charleston, SC 843-974-5650
- Wadesboro, NC 910-248-1600
- Asheville, NC 828-253-2796
- Charlotte, NC 704-357-0488
- Athens, GA 770-627-3590

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THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 1, 2016 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER RESOURCES.

Prepared In the Office of:
Vaughn & Melton
 Consulting Engineers
 1318-F Patton Avenue
 Asheville, NC 28806

2018 STANDARD SPECIFICATIONS

Designed by:
Christian J. Gonzalez-Martell 3939
 NAME LEVEL III CERTIFICATION NO.

Reviewed In the Office of:
ROADSIDE ENVIRONMENTAL UNIT
 1 South Wilmington St.
 Raleigh, NC 27611

2018 STANDARD SPECIFICATIONS

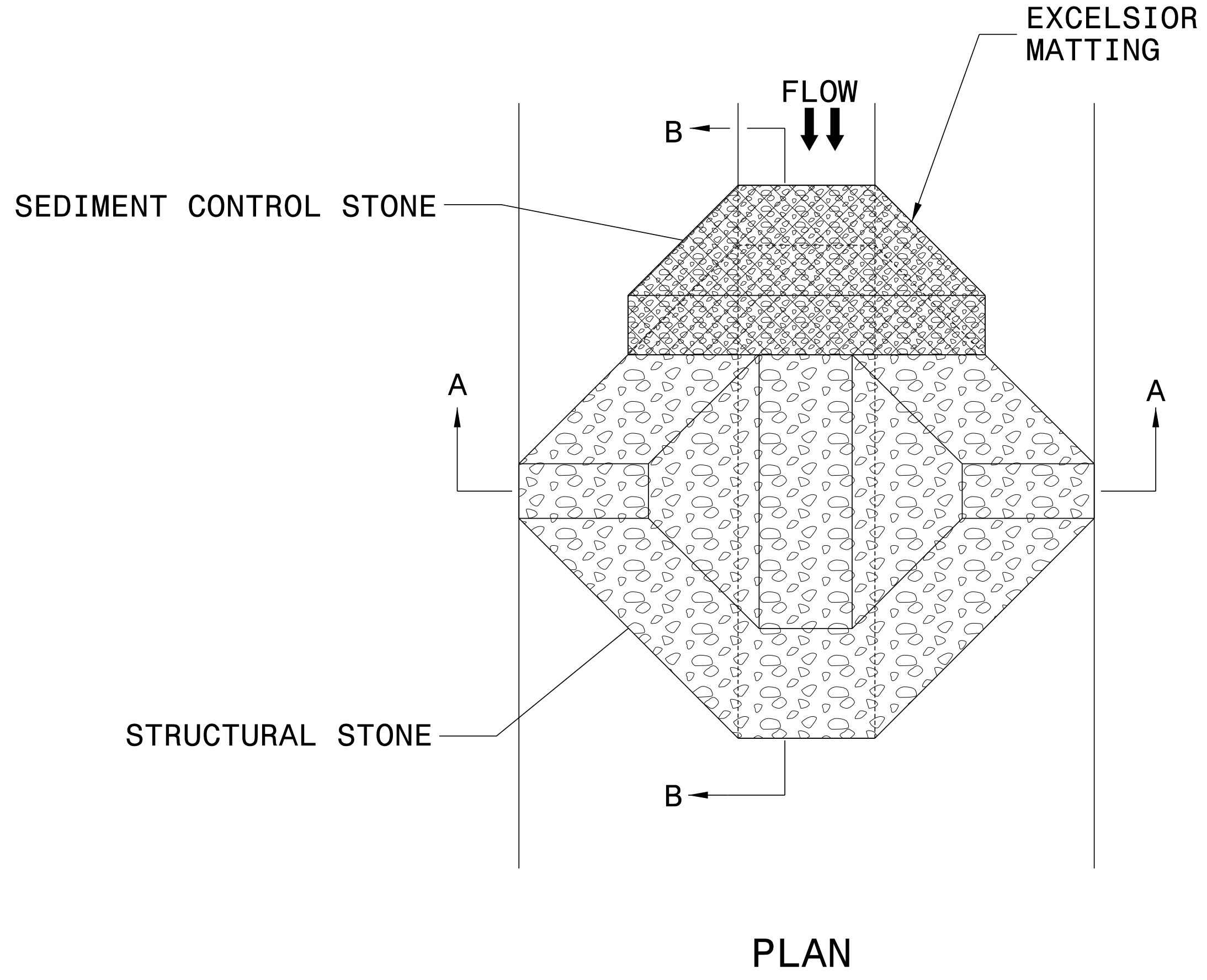
Reviewed by:
Reid Whitehead, PE, CPESC

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated JANUARY 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type J
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type J
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type J	1634.02 Temporary Rock Sediment Dam Type J
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type J
1630.05 Temporary Diversion	1640.01 Coir Fiber Jaffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



PLAN

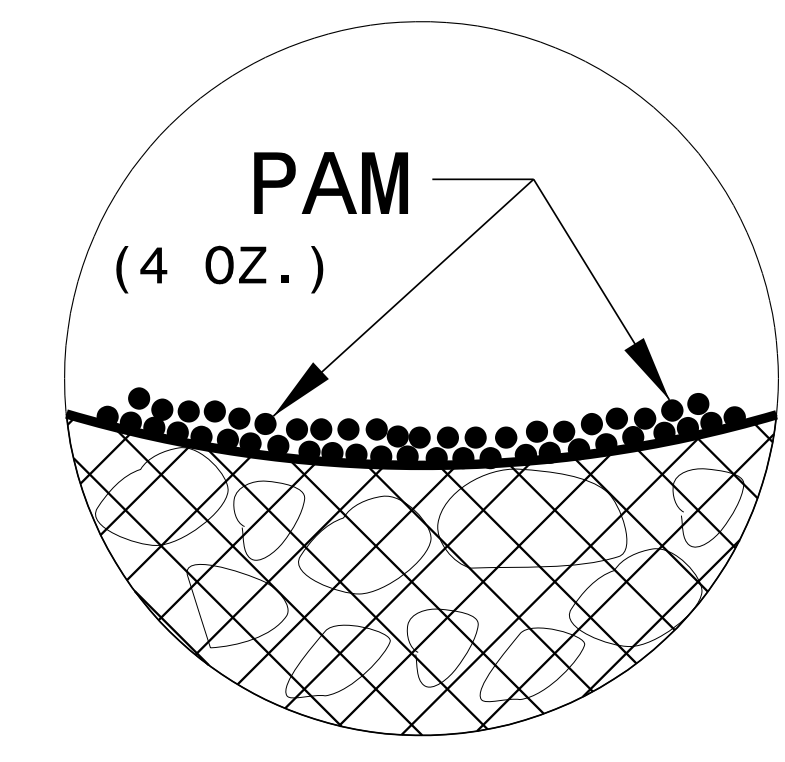
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

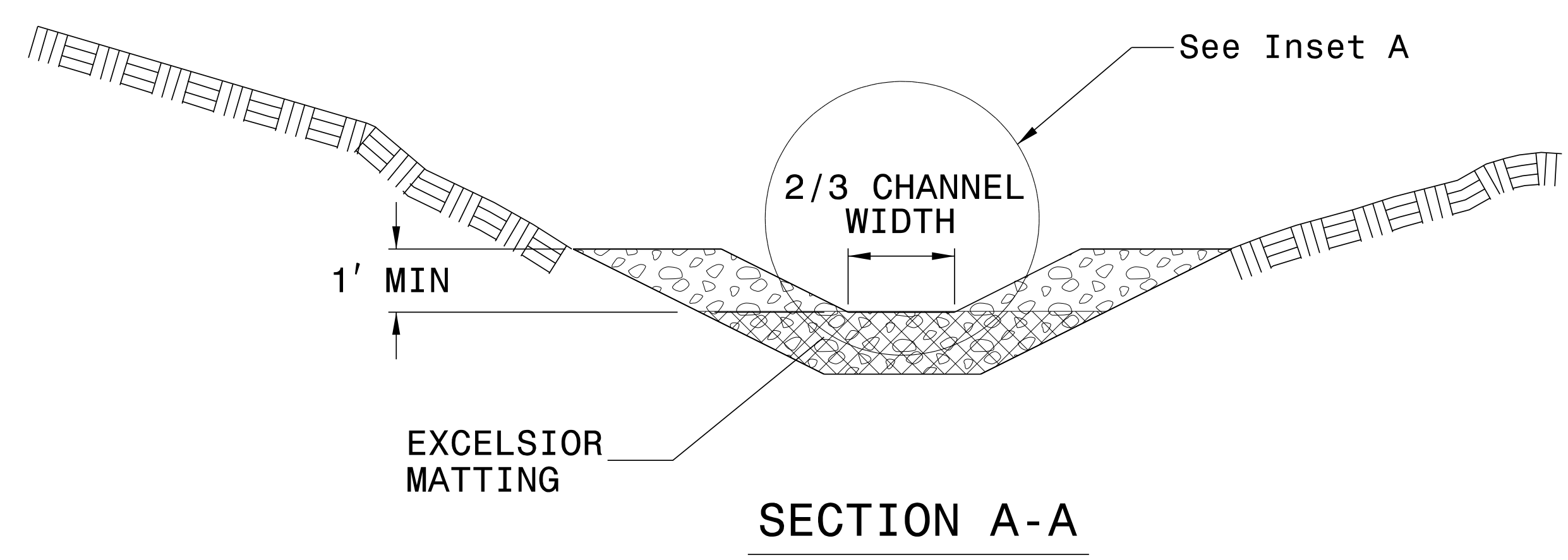
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

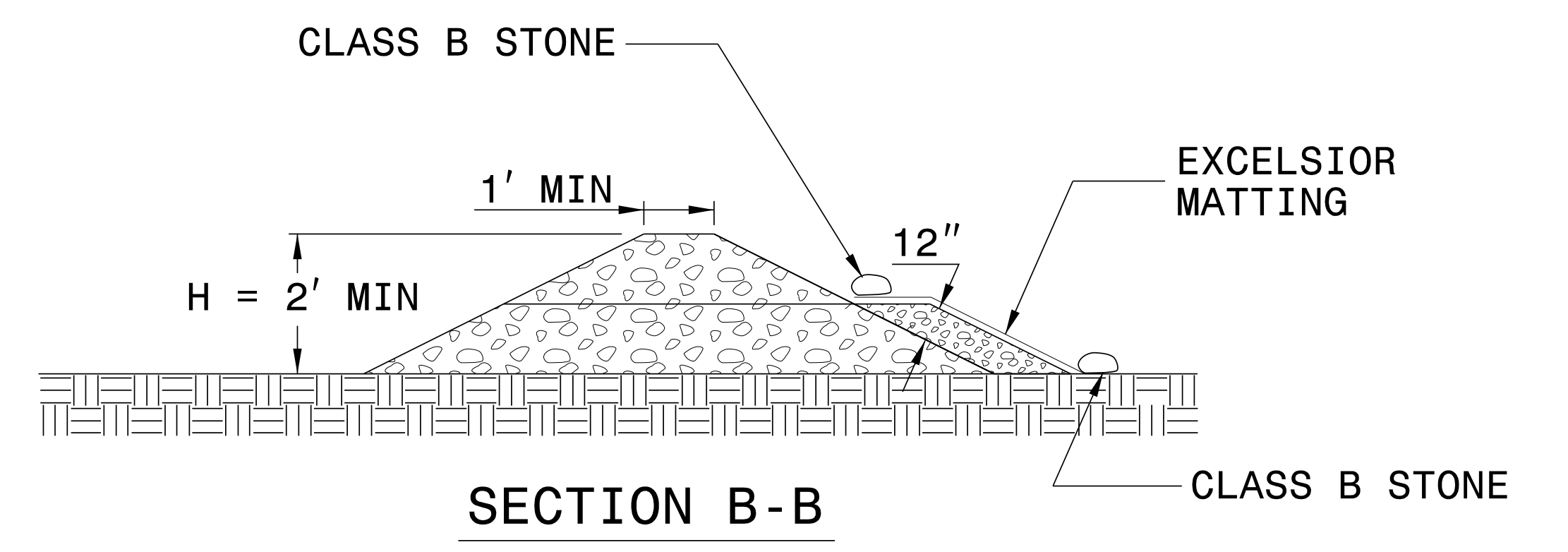
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



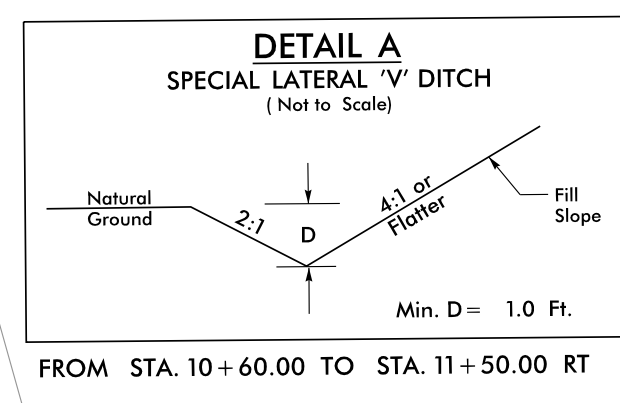
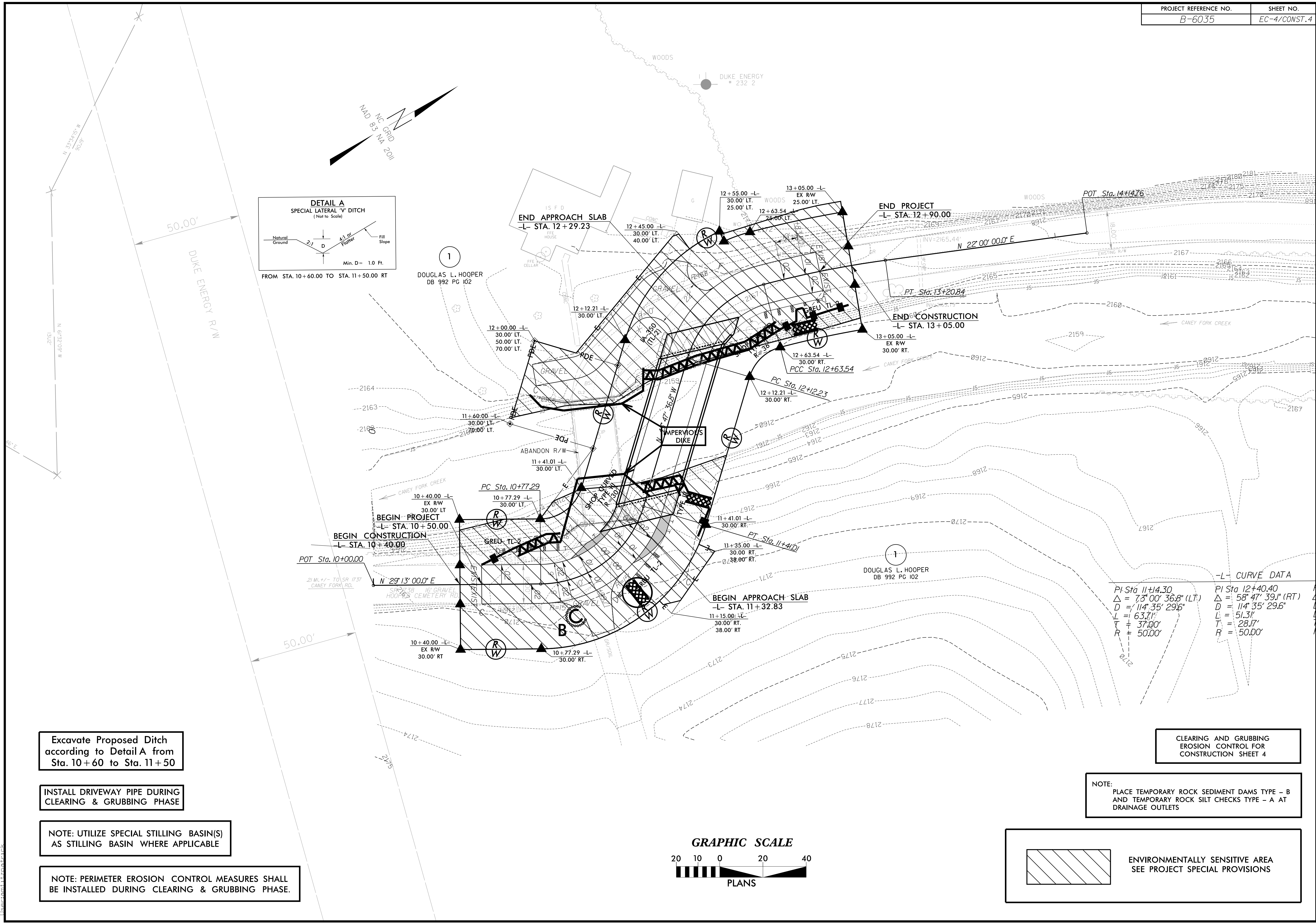
SECTION B-B

NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.



-L- CURVE DATA

PI Sta. 11+14.30	PI Sta. 12+40.40
$\Delta = 73^{\circ} 00' 36.8''$ (LT)	$\Delta = 58^{\circ} 47' 39.1''$ (RT)
$D = 114^{\circ} 35' 29.6''$	$D = 114^{\circ} 35' 29.6''$
$L = 63.71'$	$L = 51.31'$
$T = 37.00'$	$T = 28.17'$
$R = 50.00'$	$R = 50.00'$

Excavate Proposed Ditch according to Detail A from Sta. 10+60 to Sta. 11+50

INSTALL DRIVEWAY PIPE DURING CLEARING & GRUBBING PHASE

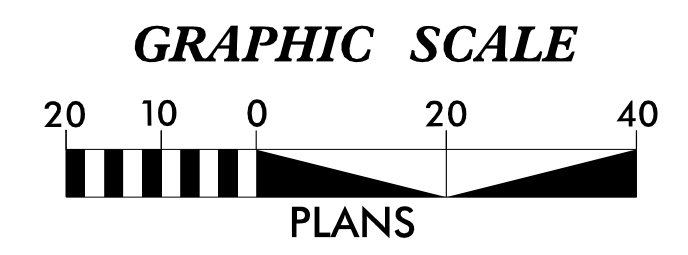
NOTE: UTILIZE SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE

NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING & GRUBBING PHASE.

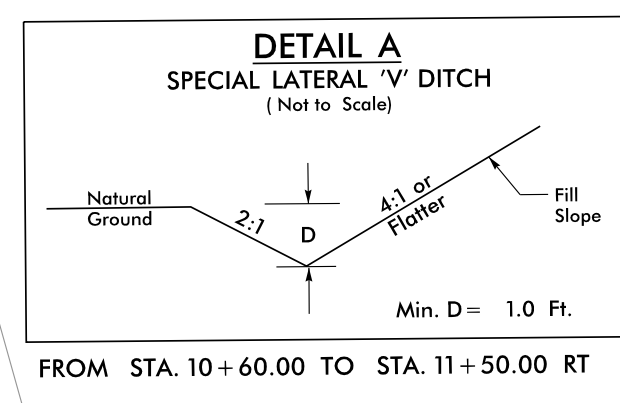
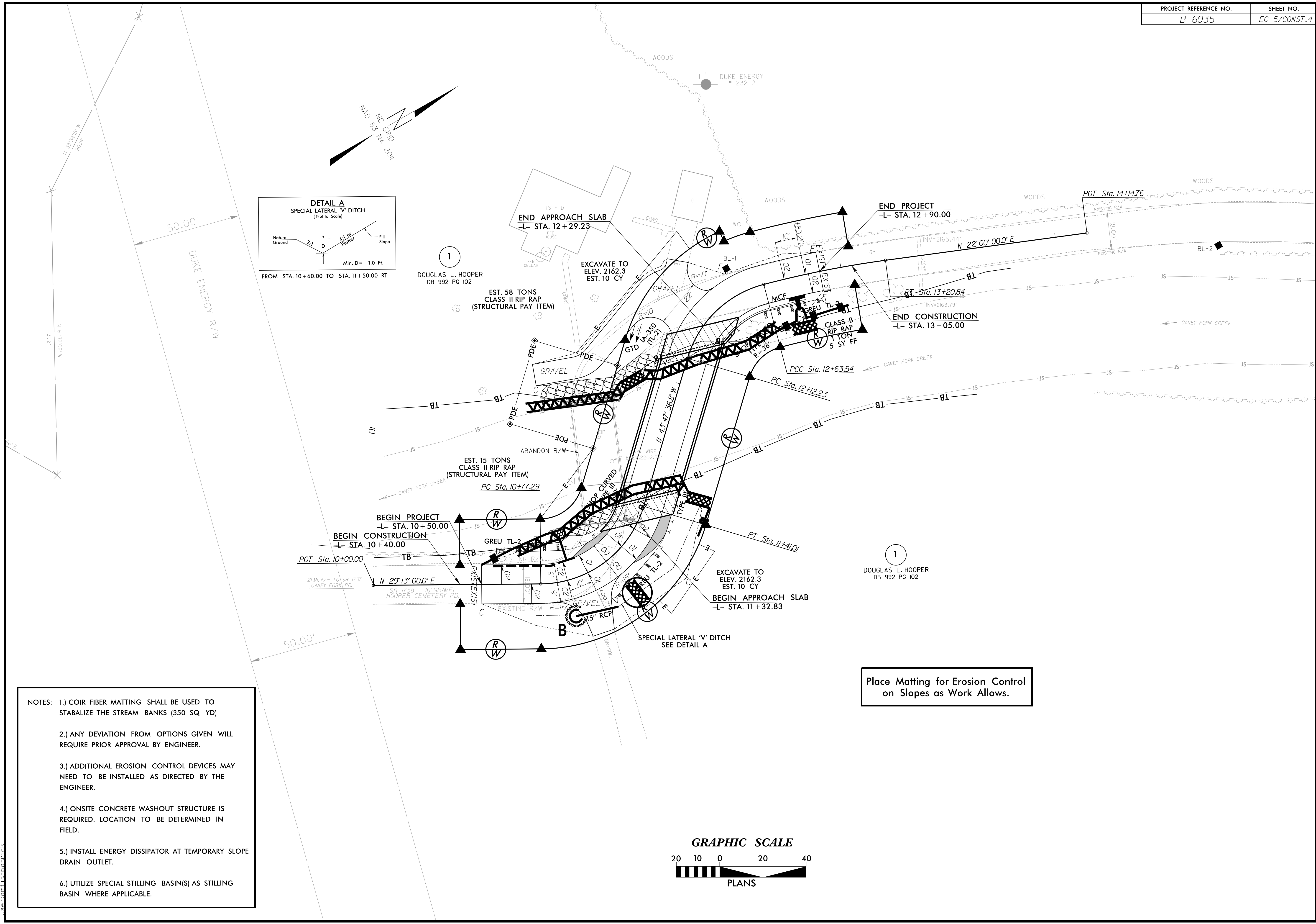
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

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

 ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS

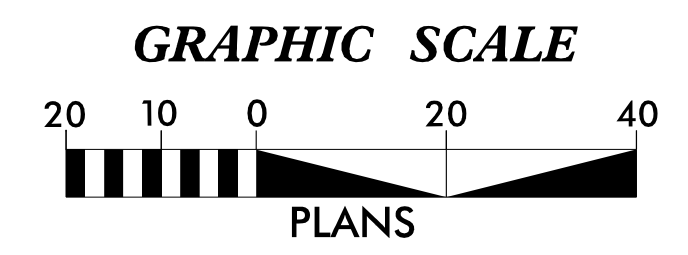


11/5/2021 6:28:35 AM EC-4.dgn



- NOTES:**
- 1.) COIR FIBER MATTING SHALL BE USED TO STABILIZE THE STREAM BANKS (350 SQ YD)
 - 2.) ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.
 - 3.) ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.
 - 4.) ONSITE CONCRETE WASHOUT STRUCTURE IS REQUIRED. LOCATION TO BE DETERMINED IN FIELD.
 - 5.) INSTALL ENERGY DISSIPATOR AT TEMPORARY SLOPE DRAIN OUTLET.
 - 6.) UTILIZE SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

Place Matting for Erosion Control on Slopes as Work Allows.



11/5/2021 6:29:58 AM EC-5.dgn

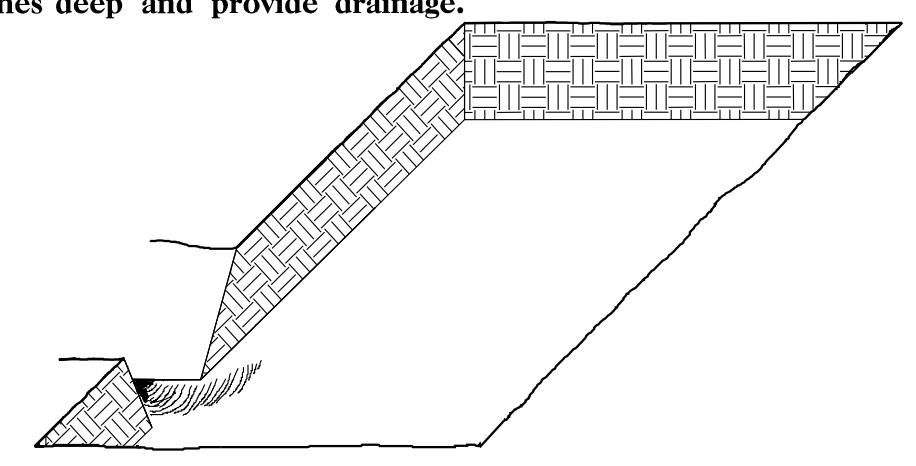
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-6035	RF-1	3
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

PLANTING DETAILS

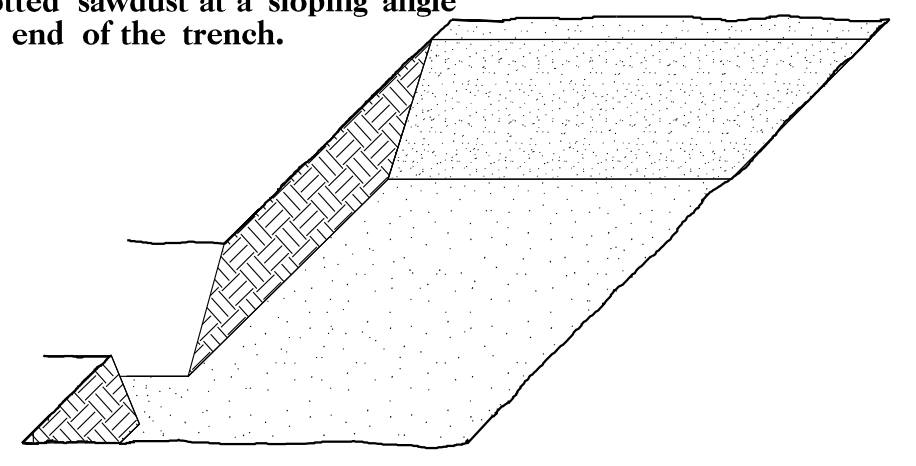
SEEDLING / LINER BAREROOT PLANTING DETAIL

HEALING IN

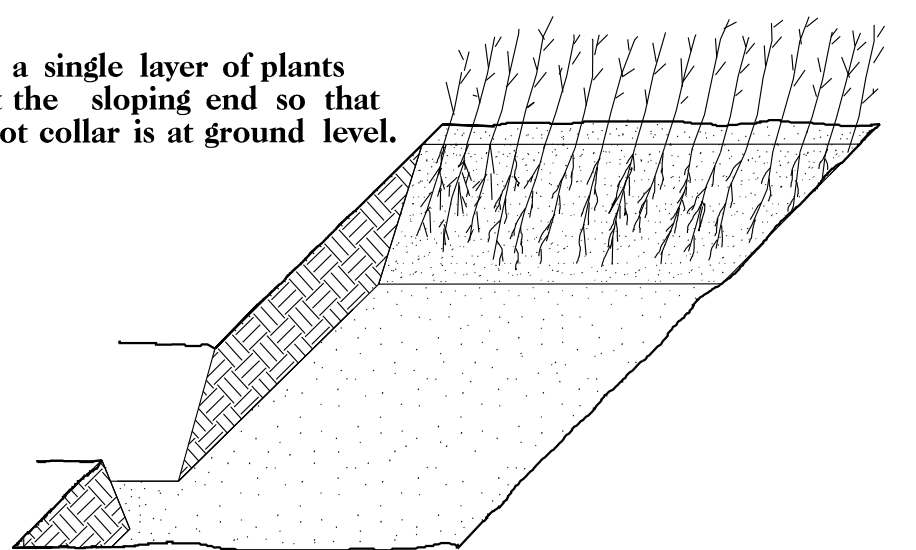
1. Locate a healing-in site in a shady, well protected area.
2. Excavate a flat bottom trench 12 inches deep and provide drainage.



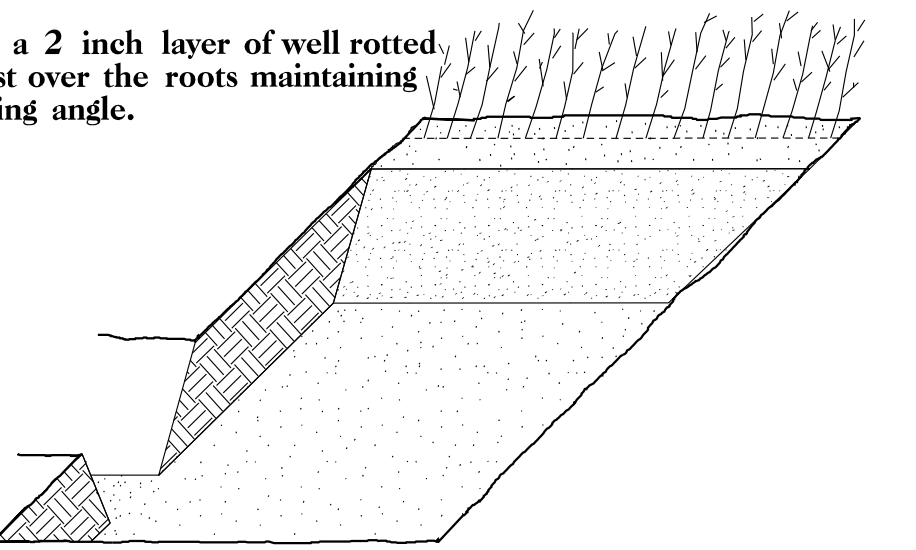
3. Jackfill the trench with 2 inches well rotted sawdust. Place a 2 inch layer of well rotted sawdust at a sloping angle at one end of the trench.



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

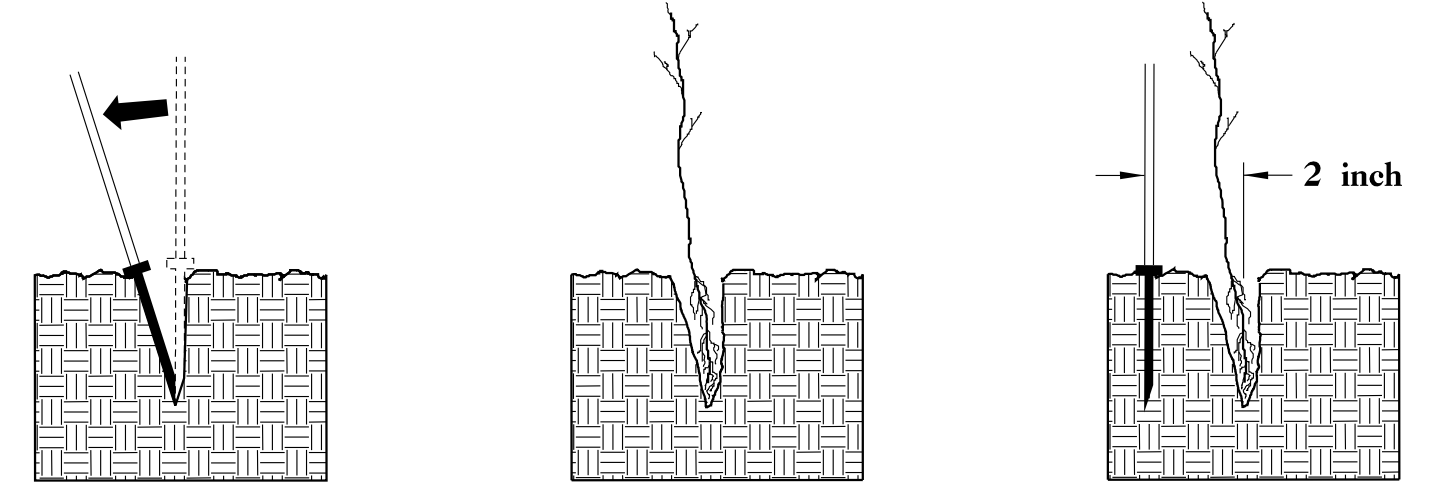


5. Place a 2 inch layer of well rotted sawdust over the roots maintaining a sloping angle.

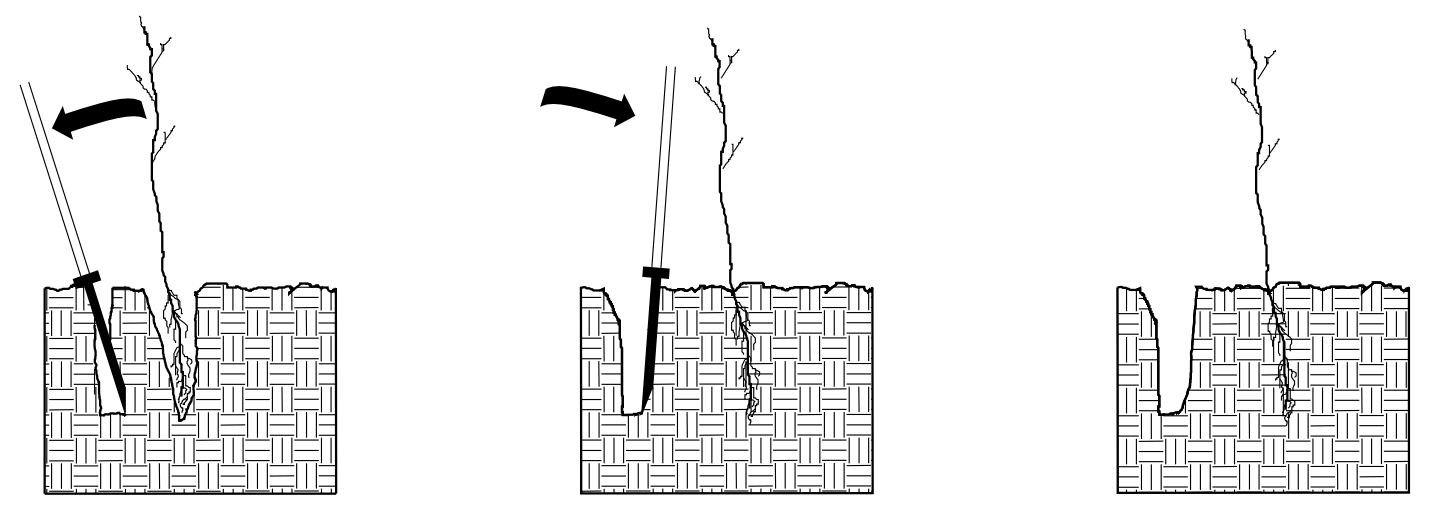


6. Repeat layers of plants and sawdust as necessary and water thoroughly.

DOUBLE PLANTING METHOD USING THE K3C 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.



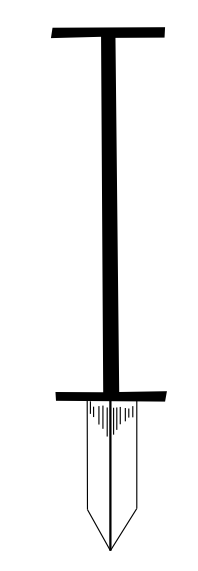
4. Pull handle of bar toward planter, firming soil at bottom.
5. Push handle forward firming soil at top.
6. Leave compaction hole open. Water thoroughly.

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.



K3C 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:

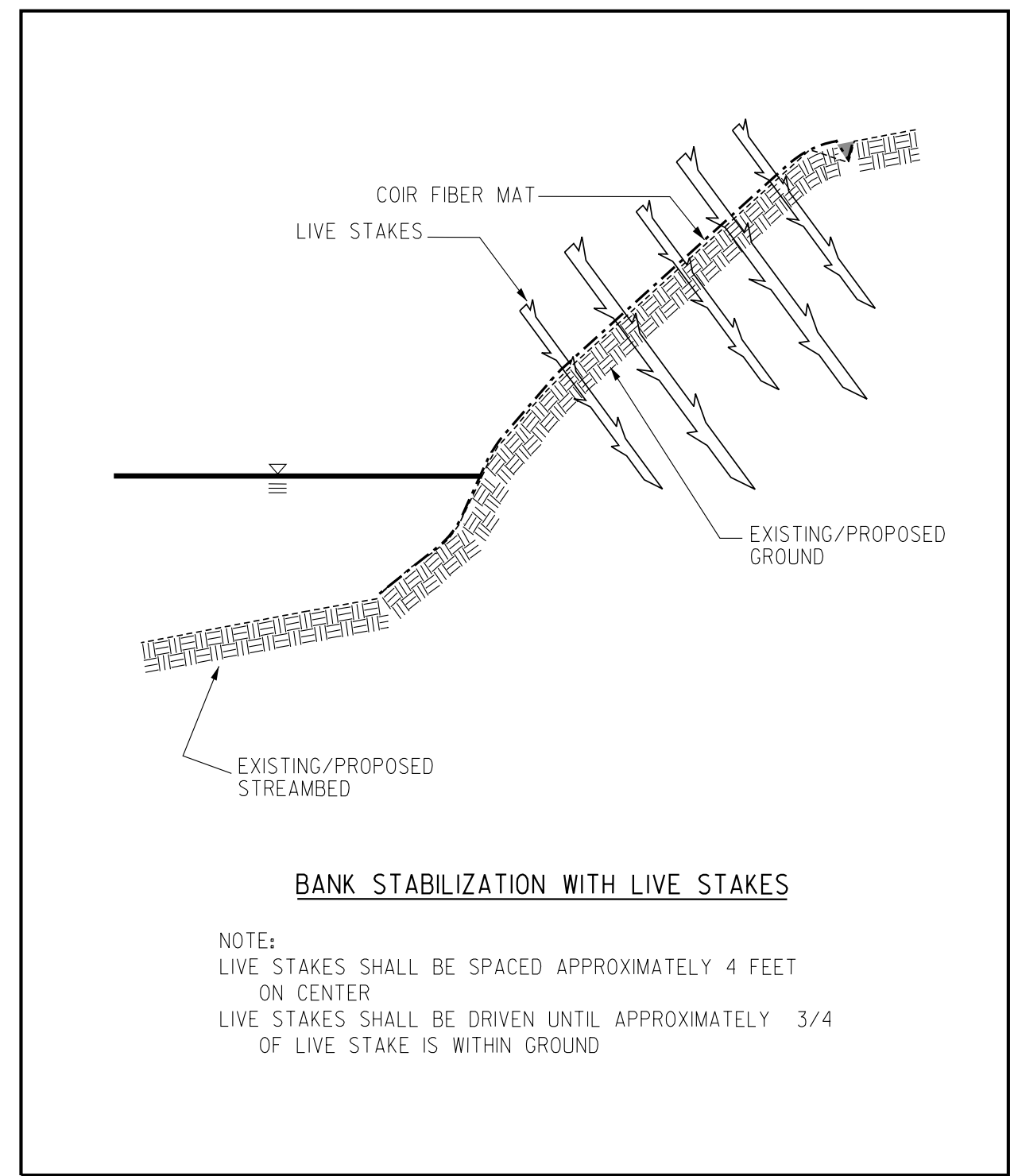
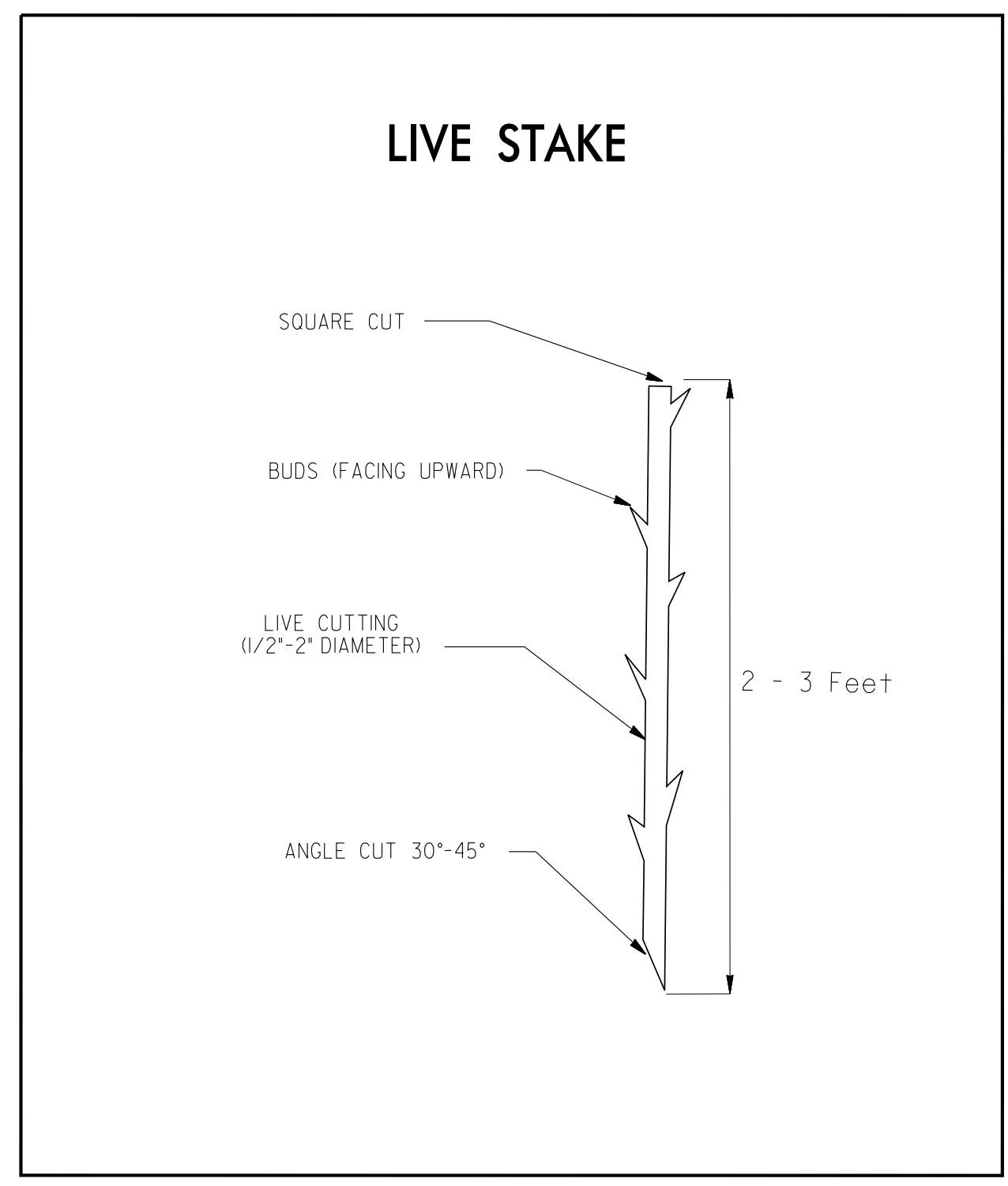
25% LIRIODENDRON TULIPIFERA	TULIP POPLAR	12 in - 18 in 3R
25% PLATANUS OCCIDENTALIS	SYCAMORE	12 in - 18 in 3R
25% FRAXINUS PENNSYLVANICA	GREEN ASH	12 in - 18 in 3R
25% BETULA NIGRA	RIVER BIRCH	12 in - 18 in 3R

REFORESTATION DETAIL SHEET

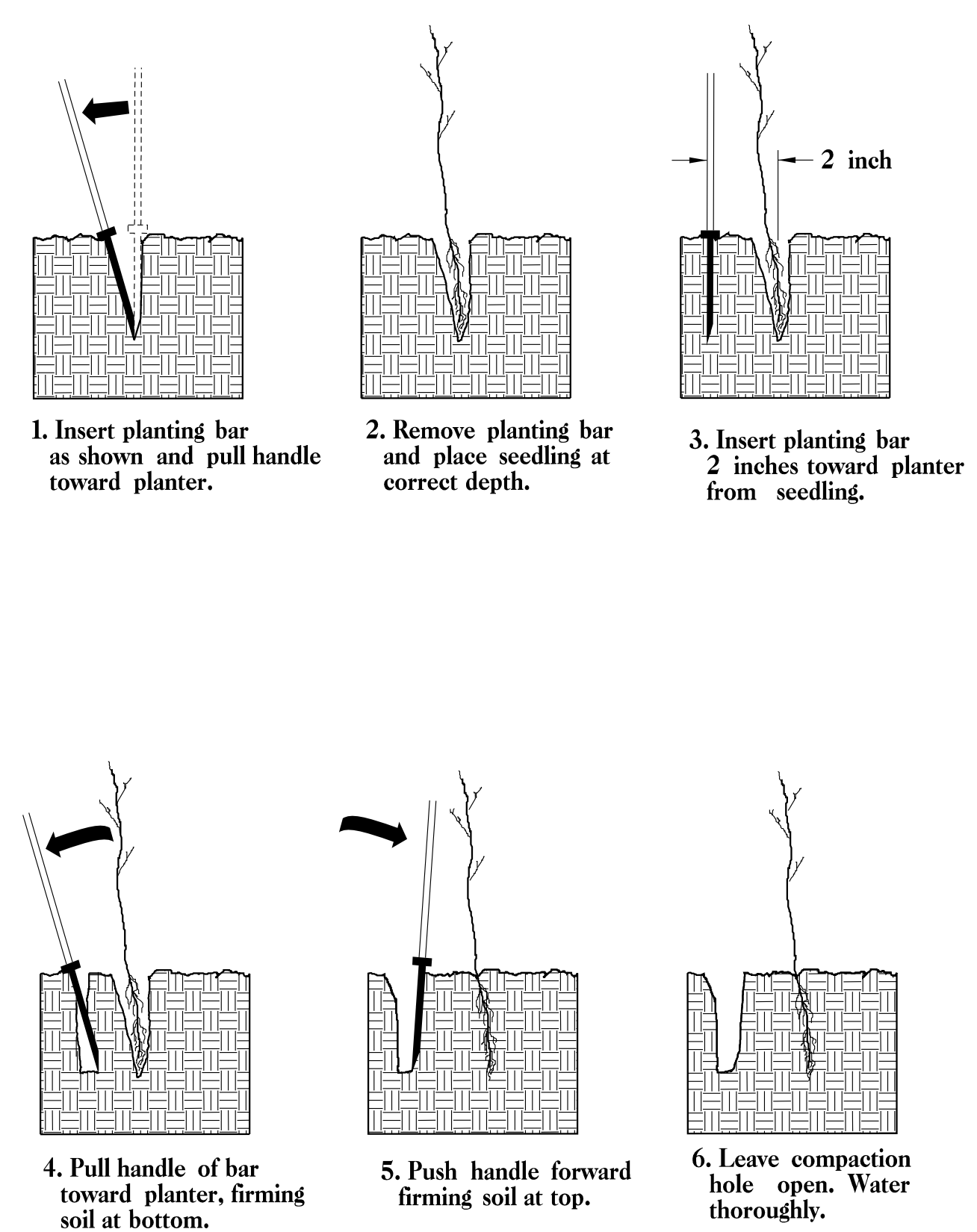
N.C.D.O.T. - ROADSIDE ENVIRONMENTAL UNIT

PLANTING DETAILS

LIVE STAKES PLANTING DETAIL

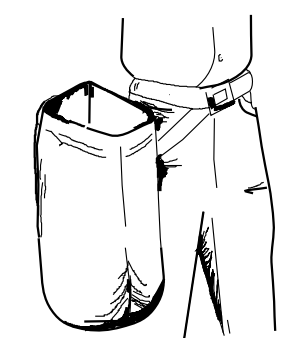


BAREROOT PLANTING DETAIL DOUBLE PLANTING METHOD USING THE KJC PLANTING BAR

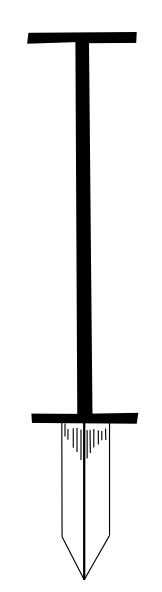


PLANTING NOTES:

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



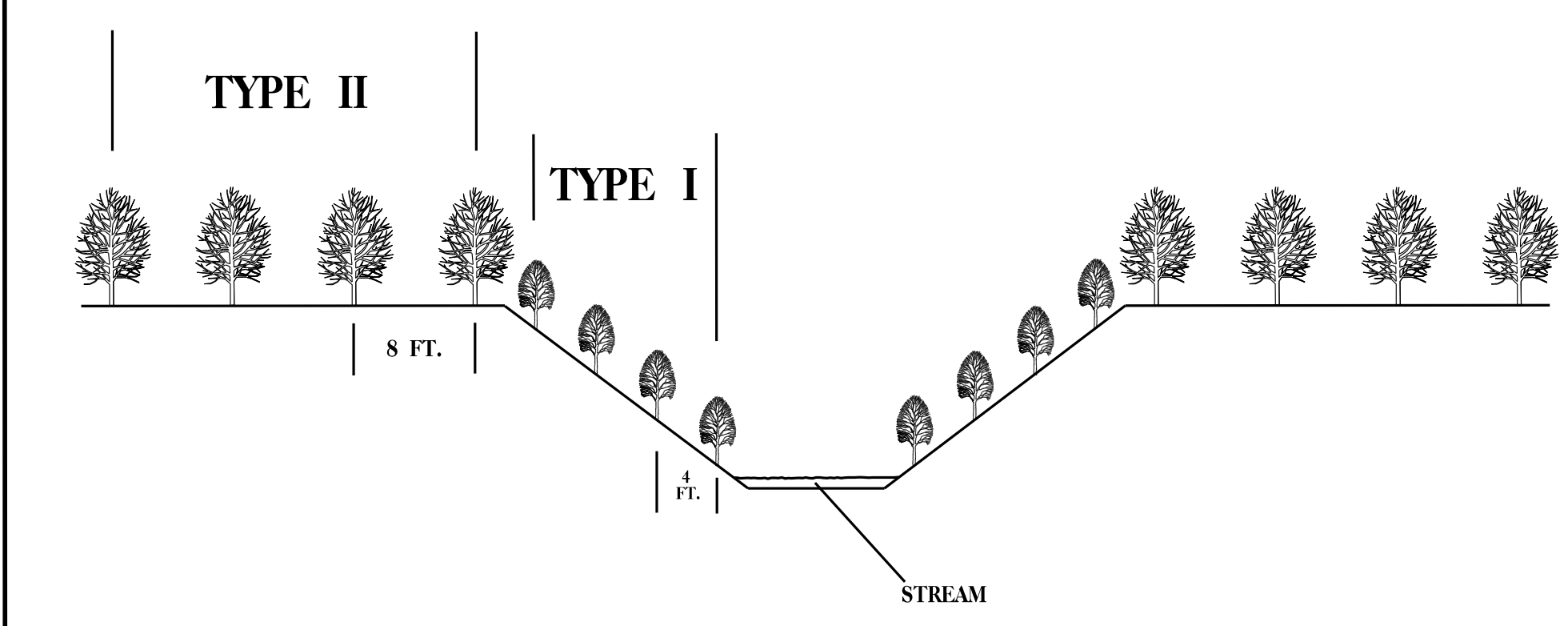
KJC PLANTING BAR
 Planting bar shall have a blade with a triangular cross section, and shall be 12 inches long, 4 inches wide and 1 inch thick at center.



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

- TYPE 1 STREAMBANK REFORESTATION SHALL BE PLANTED 3 FT. TO 5 FT. ON CENTER, RANDOM SPACING, AVERAGING 4 FT. ON CENTER, APPROXIMATELY 2724 PLANTS PER ACRE.
- TYPE 2 STREAMBANK REFORESTATION SHALL BE PLANTED 6 FT. TO 10 FT. ON CENTER, RANDOM SPACING, AVERAGING 8 FT. ON CENTER, APPROXIMATELY 680 PLANTS PER ACRE.
- NOTE: TYPE 1 AND TYPE 2 STREAMBANK REFORESTATION SHALL BE PAID FOR AS "STREAMBANK REFORESTATION"

STREAMBANK REFORESTATION TYPICAL



STREAMBANK REFORESTATION

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

TYPE 1		
50% SALIX NIGRA	BLACK WILLOW	2 ft - 3 ft LIVE STAKES
50% CORNUS AMOMUM	SILKY DOGWOOD	2 ft - 3 ft LIVE STAKES
TYPE 2		
25% LIRIODENDRON TULIPIFERA	TULIP POPLAR	12 in - 18 in 3R
25% PLATANUS OCCIDENTALIS	SYCAMORE	12 in - 18 in 3R
25% PRUNUS SEROTINA	BLACK CHERRY	12 in - 18 in 3R
25% BETULA NIGRA	RIVER BIRCH	12 in - 18 in 3R

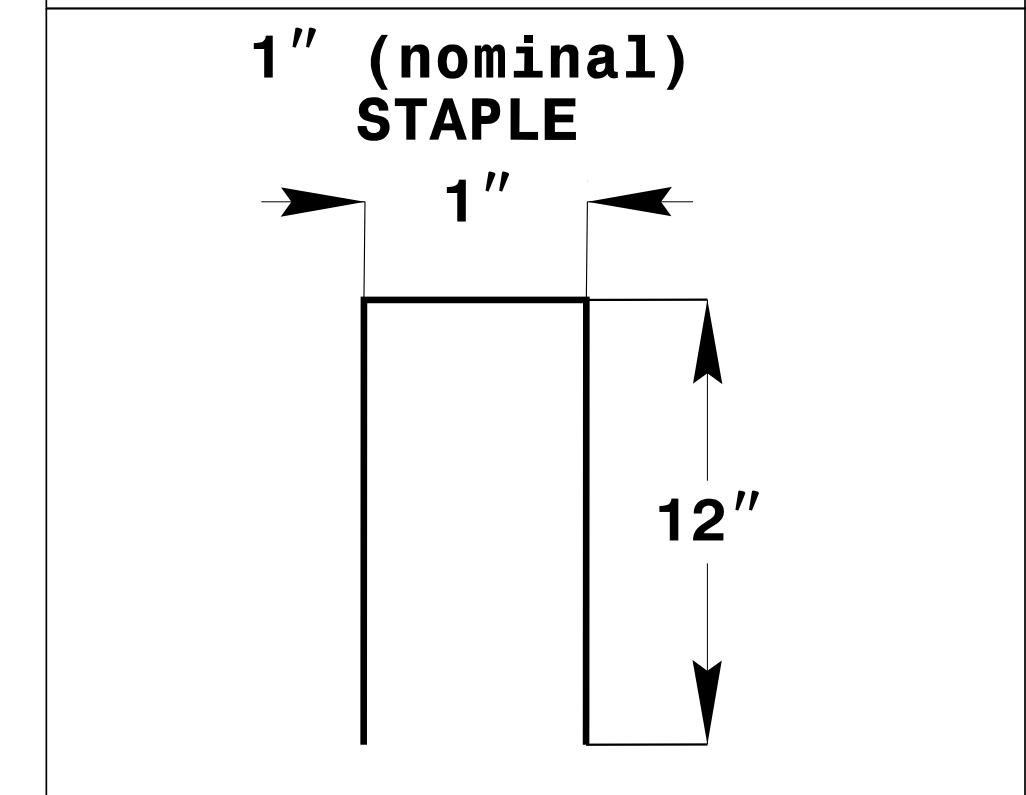
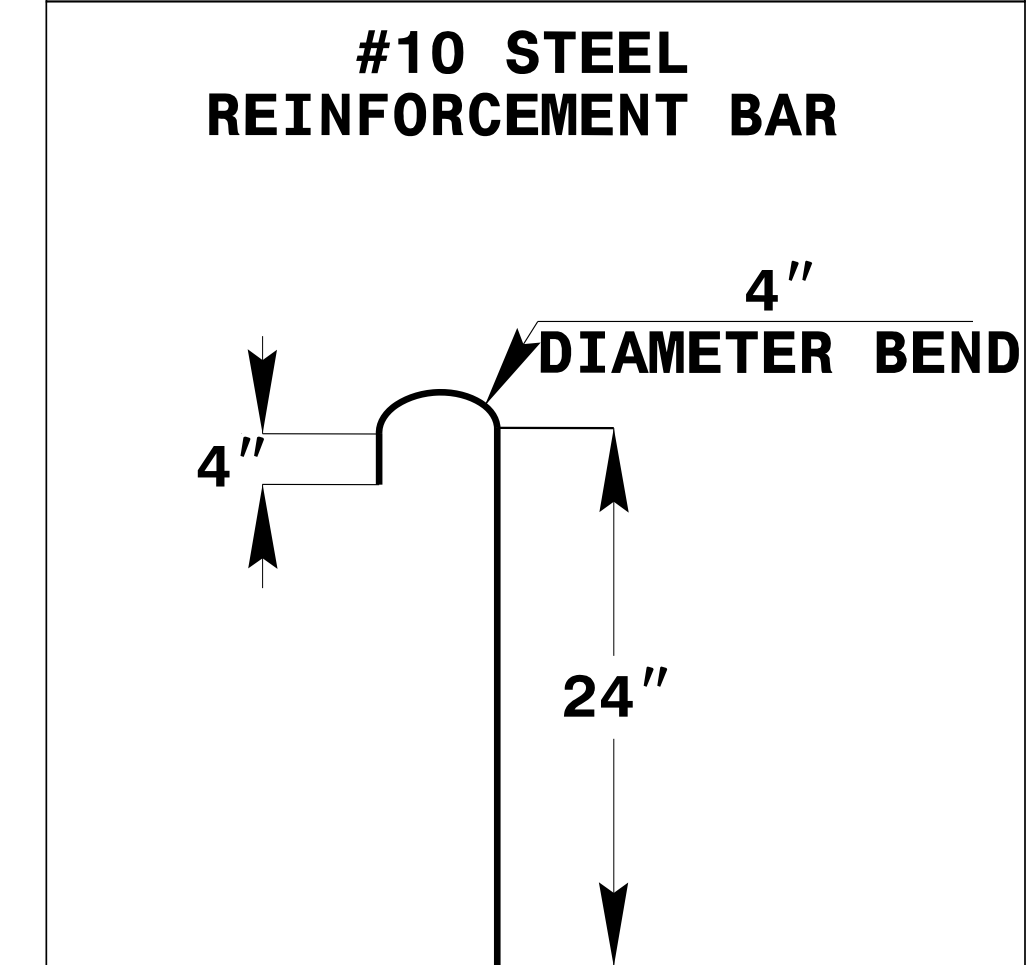
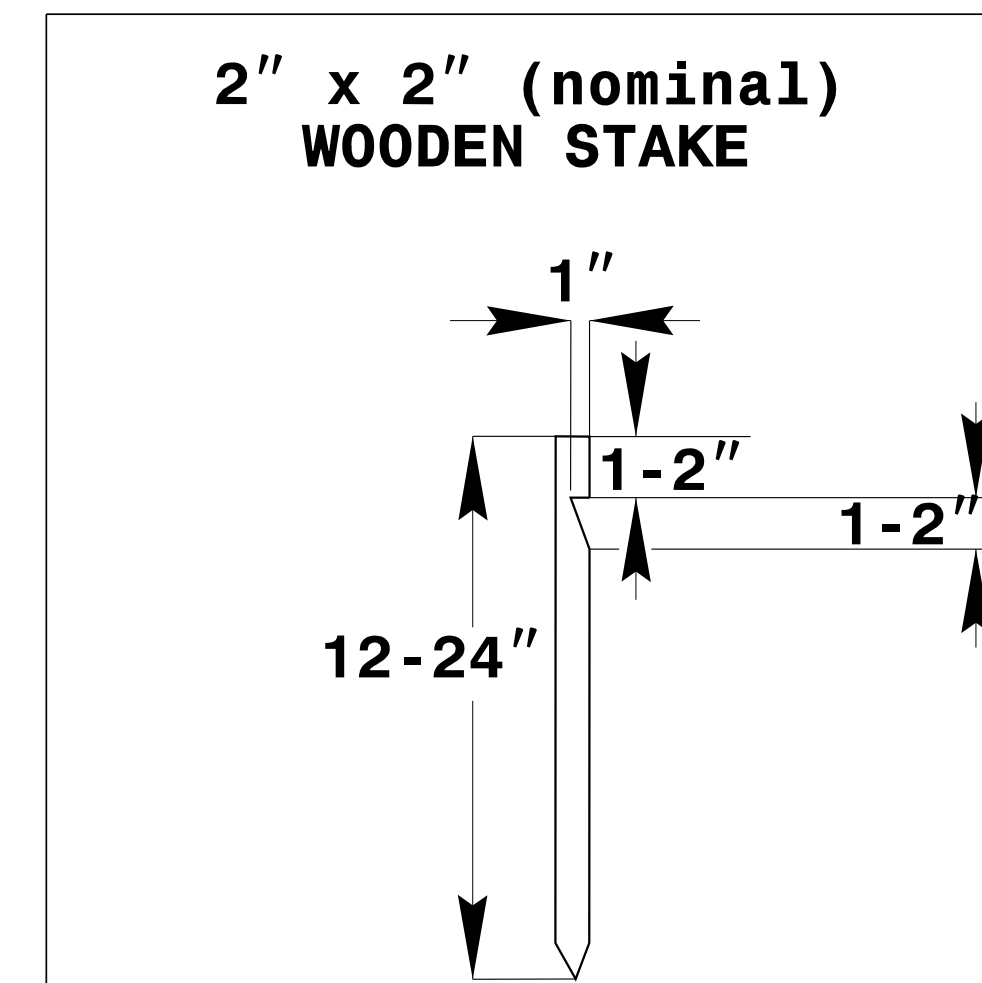
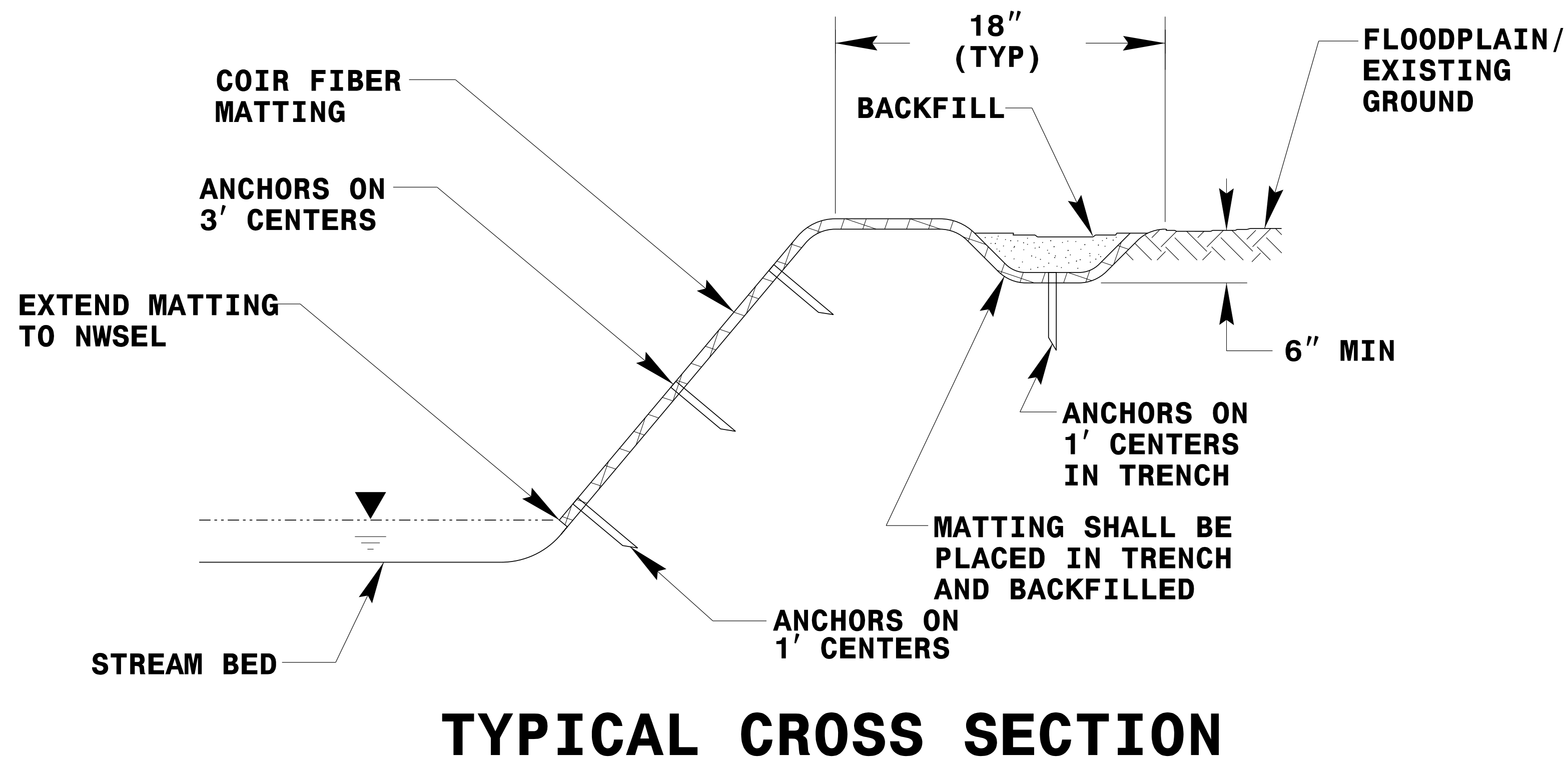
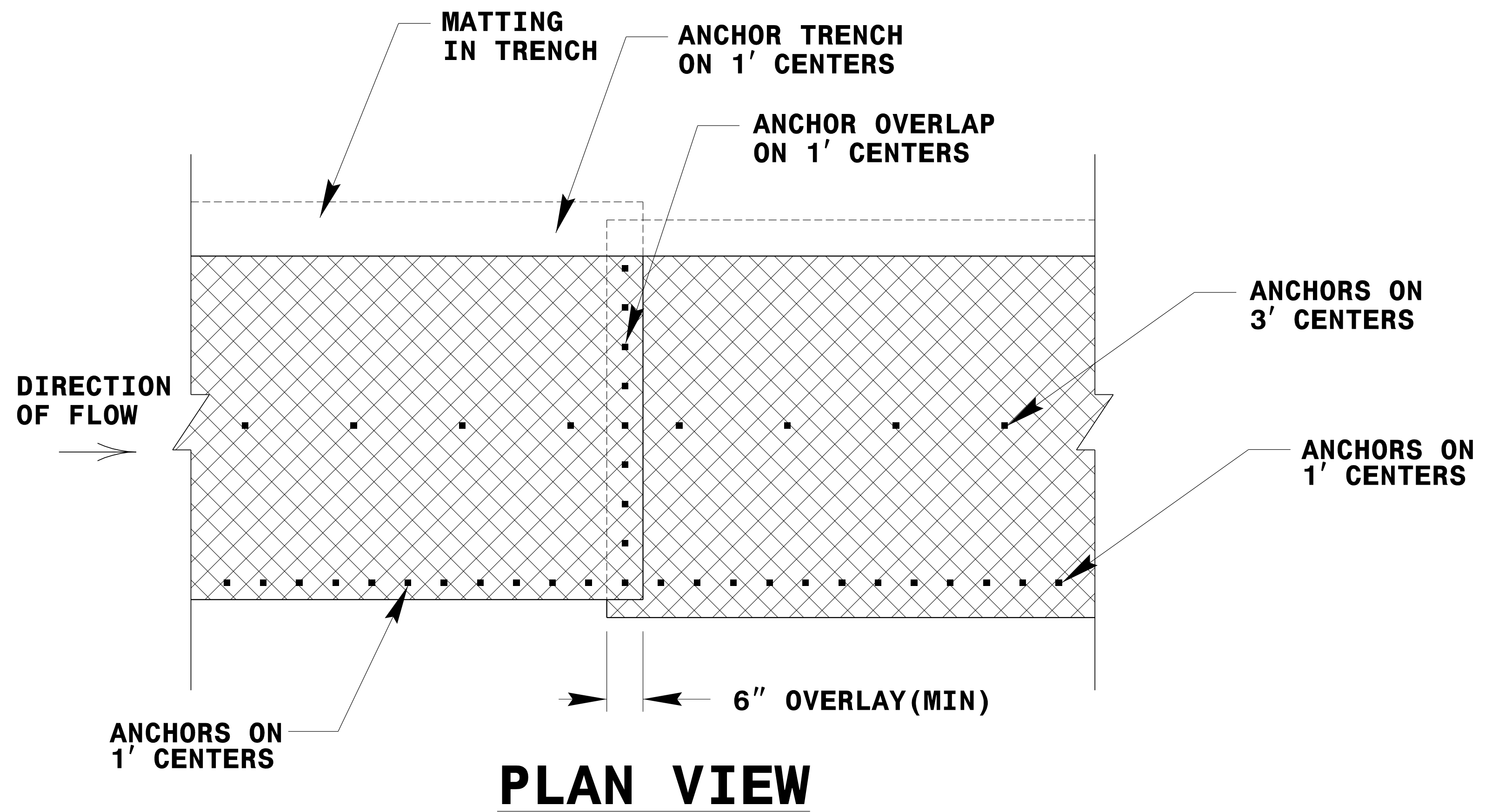
SEE PLAN SHEETS FOR AREAS TO BE PLANTED

STREAMBANK REFORESTATION
DETAIL SHEET 1 OF 2
 N.C.D.O.T. - ROADSIDE ENVIRONMENTAL UNIT

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 Spartanburg, SC 864-574-4775
 Charleston, SC 843-974-5650
 Middletown, KY 606-248-6600
 Charlotte, NC 704-357-0488
 Boone, NC 828-355-9933
 Atlanta, GA 770-627-3509

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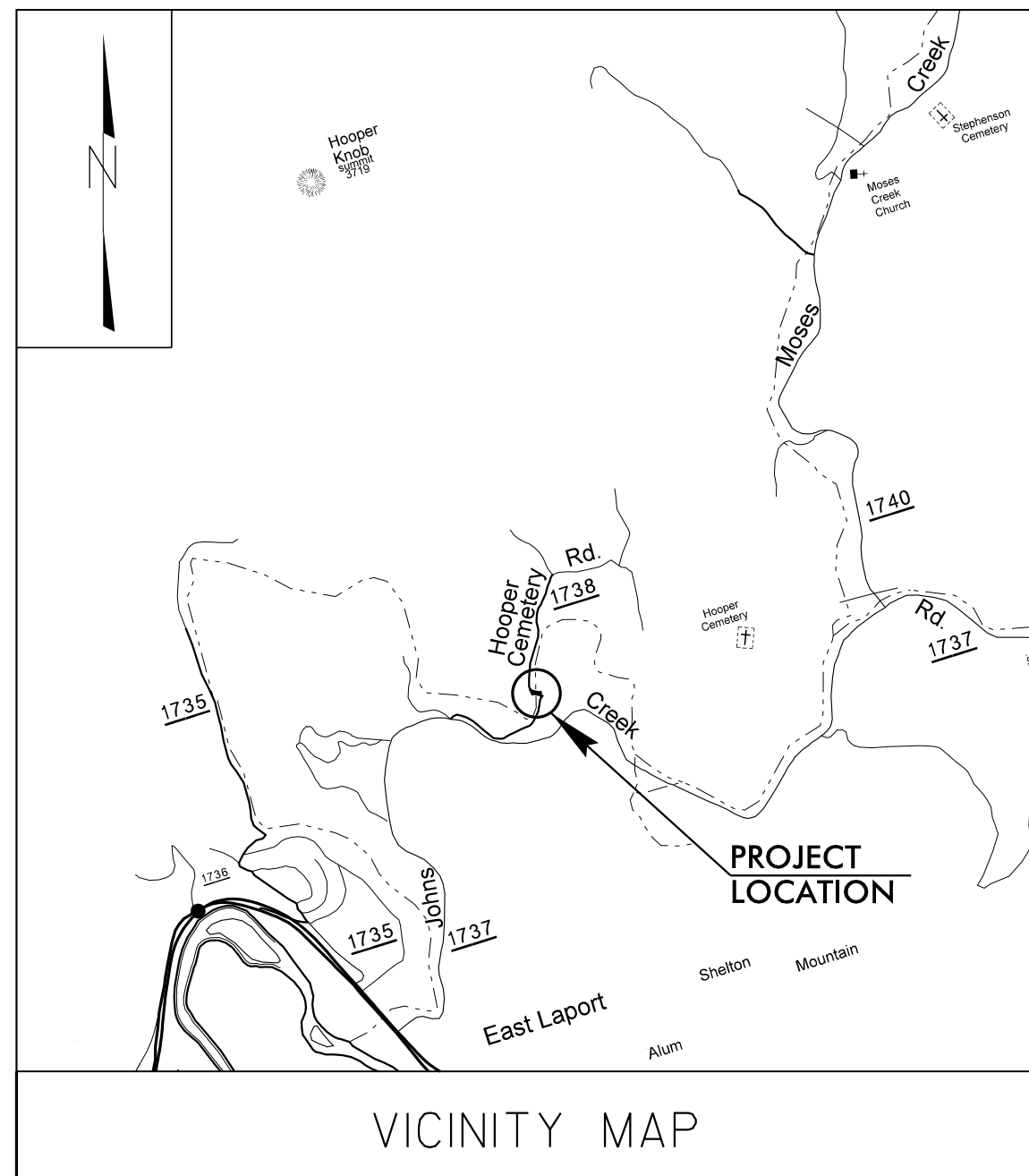
ANCHOR OPTIONS

COIR FIBER MATTING DETAIL
NOT TO SCALE

2/26/18
DUKE & FRONTIER NS ADDED 8/16/19

PROJECT: B-6035

CONTRACT: DN00785

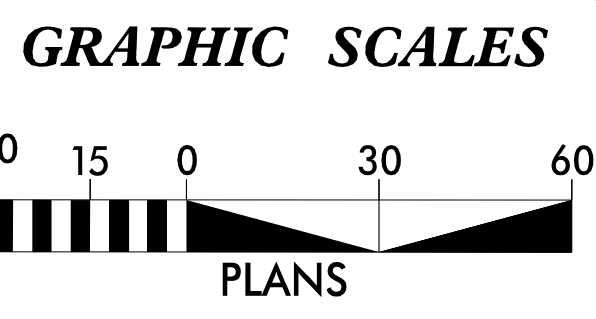
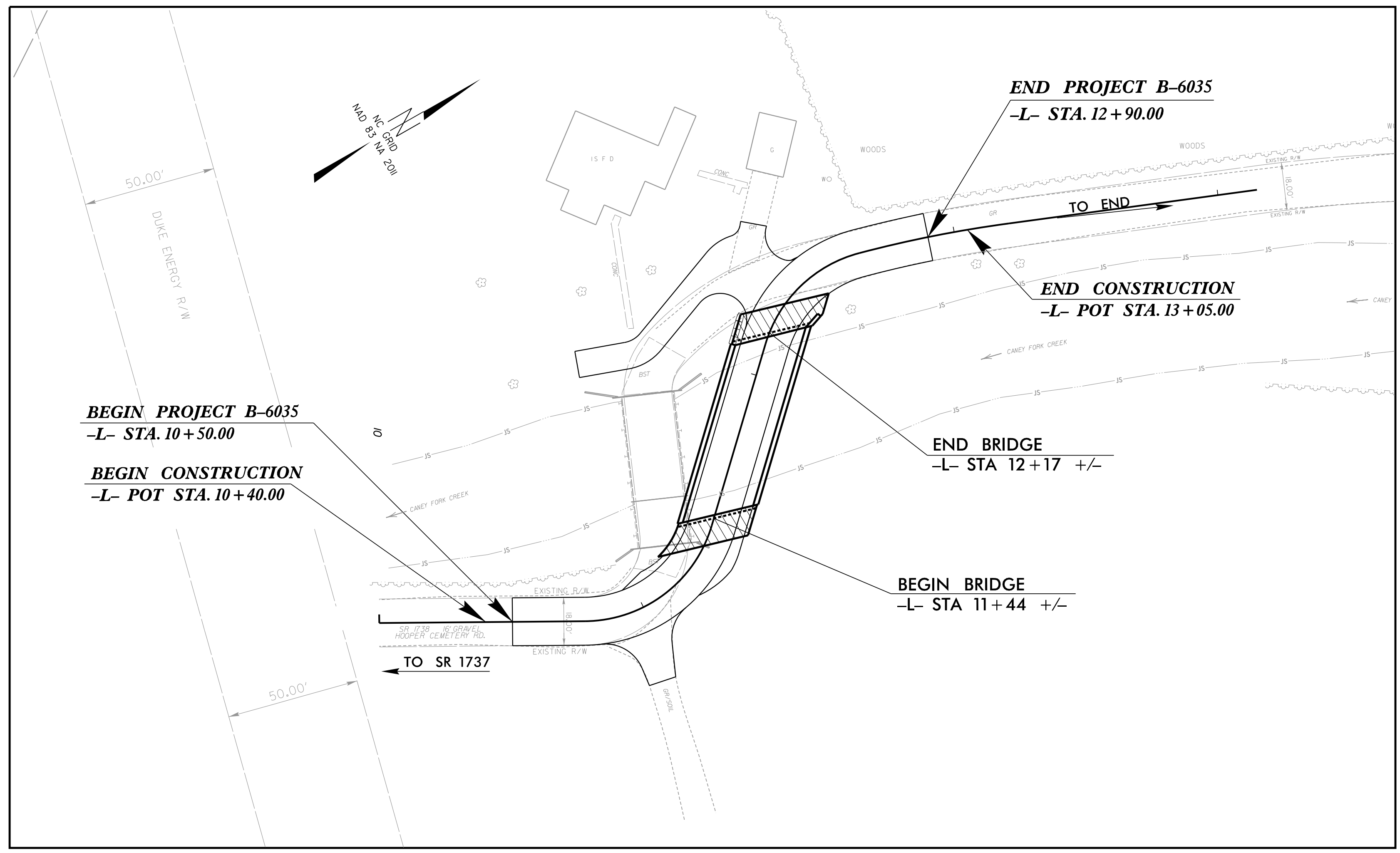


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITIES BY OTHERS
JACKSON COUNTY**

**LOCATION: BRIDGE NO. 203 OVER CANEY FORK CREEK
ON SR 1738 (HOOPER CEMETERY ROAD)**
TYPE OF WORK: AERIAL POWER & TELEPHONE

PROJECT REFERENCE NO.	SHEET NO.
B-6035	UO-1



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2	UBO PLAN SHEET

UTILITY OWNERS WITH CONFLICTS

(1) POWER - DUKE ENERGY
(2) TELEPHONE - FRONTIER COMM.

PREPARED IN THE OFFICE OF:

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Vaughn & Melton
Consulting Engineers
1318-F Patton Ave.
Asheville, NC 28806
828-253-2796

<u>Lynn A. Mann, P.G.</u>	PROJECT UTILITY MANAGER
<u>James R. Montgomery</u>	PROJECT UTILITY COORDINATOR

**DIVISION OF HIGHWAYS
DIVISION 14**

253 Webster Road
Sylva NC 28779
PHONE (828) 586-2141

<u>Robert Golding</u>	DIVISION UTILITY ENGINEER
<u>Bill Green</u>	DIVISION UTILITY COORD.

V&M PROJECT #31631-02
TRANSPORTATION\31631-02\UTILITIES\UO-1.DGN

2/26/19
DUKE & FRONTIER NS ADDED 6/16/19

V&M PROJECT #31631-02
TRANSPORTATION\31631-02\UTILITIES\JACKSON_203_U0-2.DGN

PROJECT: B-6035

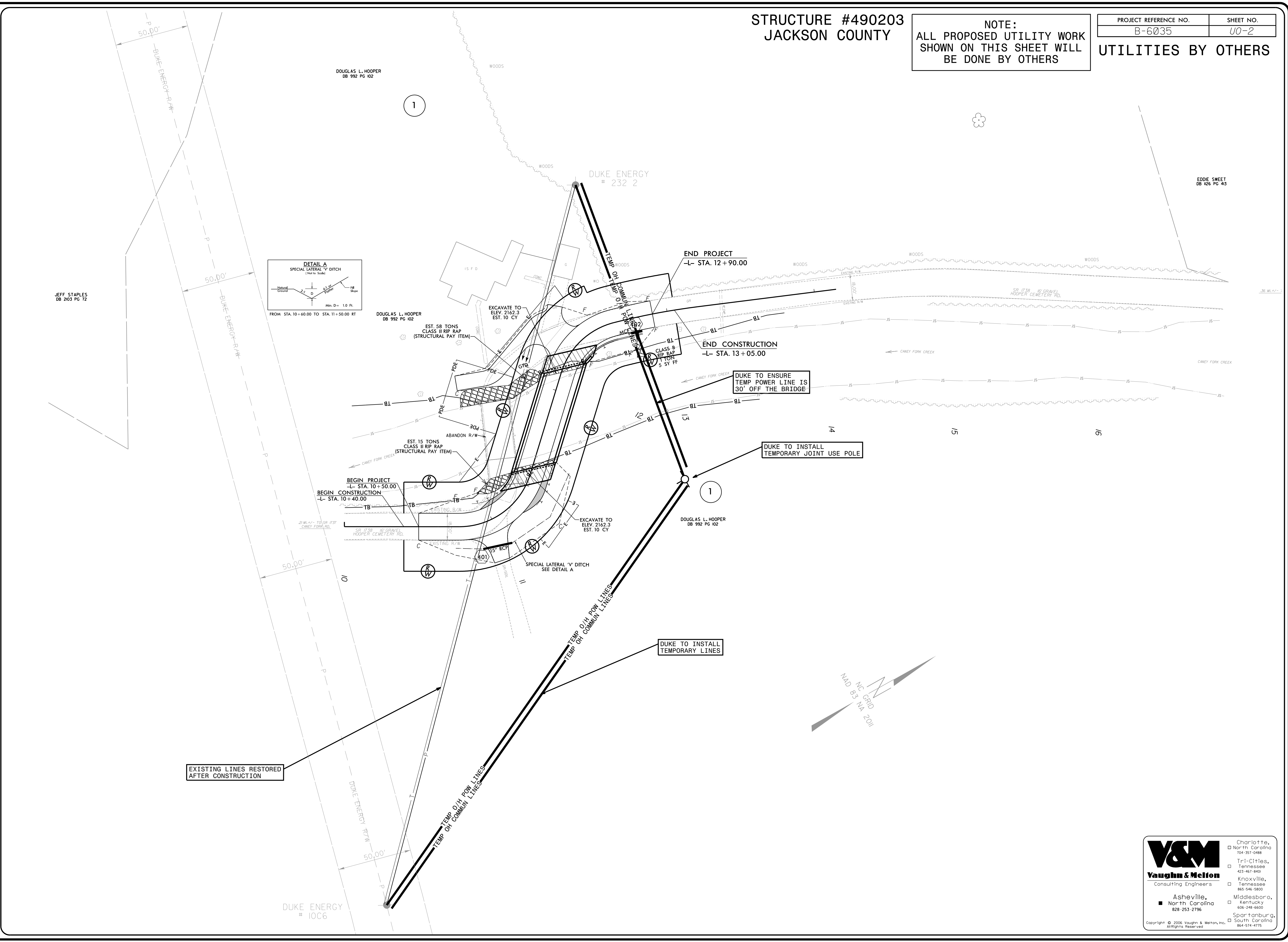
CONTRACT: DN00785

**STRUCTURE #490203
JACKSON COUNTY**

**NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS**

PROJECT REFERENCE NO. B-6035	SHEET NO. U0-2
---------------------------------	-------------------

UTILITIES BY OTHERS



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Vaughn & Melton
Consulting Engineers

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