

09/08/99

PROJECT: W-5702B / 15402.1016014

CONTRACT: DB00473

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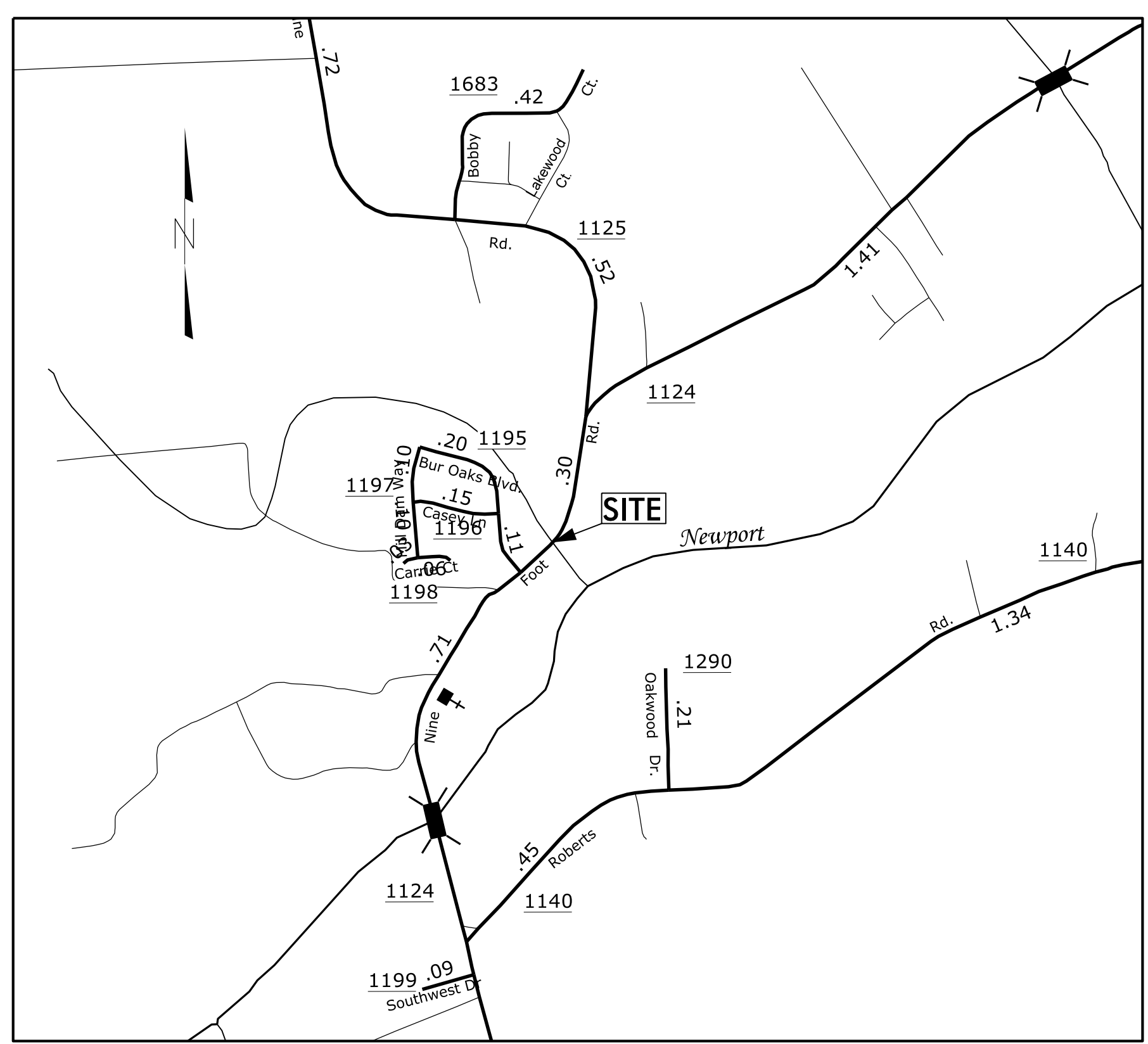
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CARTERET COUNTY

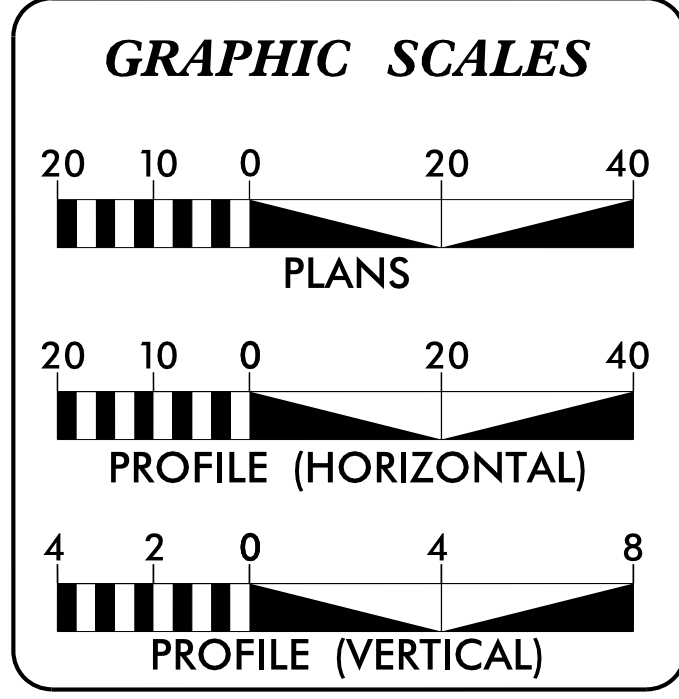
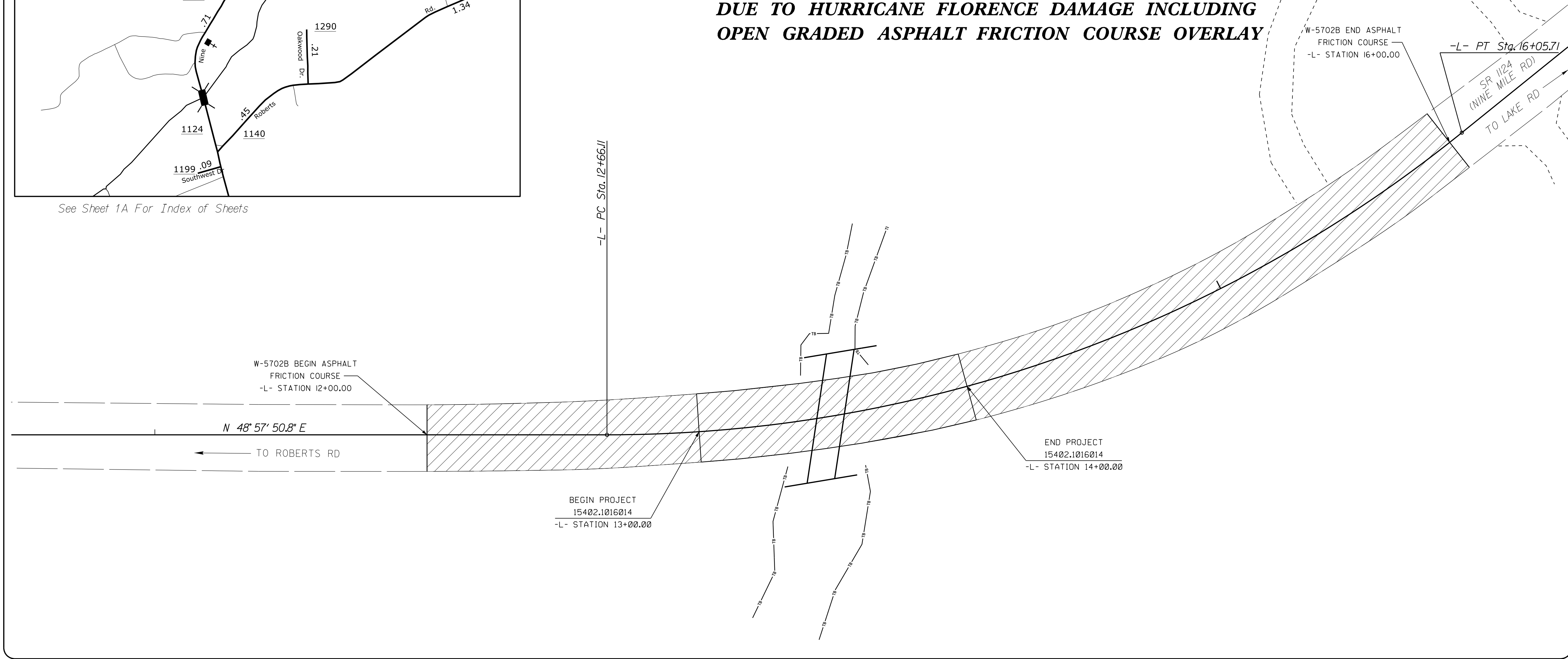
LOCATION: SR 1124 (NINE MILE RD) BETWEEN SR 1125
(LAKE RD) AND SR 1195 (BUR OAK RD)

TYPE OF WORK: CULVERT REMOVAL AND REPLACEMENT
DUE TO HURRICANE FLORENCE DAMAGE INCLUDING
OPEN GRADED ASPHALT FRICTION COURSE OVERLAY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	15402.1016014	1	16
N.C.	W-5702B		
W-5702B TO BE USED FOR OPEN GRADED FRICTION COURSE ONLY			
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44848.1.2	HSIP-1124(016)	PE	
44848.2.2	HSIP-1124(016)	RW	
44848.3.2	HSIP-1124(016)	CONST	



See Sheet 1A For Index of Sheets



PROJECT LENGTH

LENGTH PROJECT 15402.1016014 = 0.019 MILES

LENGTH PROJECT W-5702B = 0.076 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
1037 WH SMITH BLVD., GREENVILLE, NC, 27835

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: N/A

LETTING DATE: OCTOBER 2019

JEFFREY D. CABANISS, PE
PROJECT ENGINEER

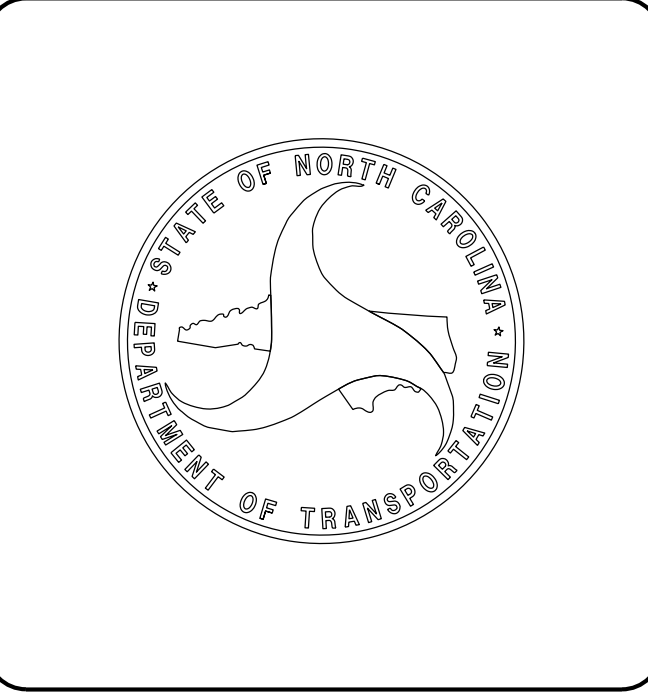
LANG JONES
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

DocuSigned by:
Jeffrey D. Cabaniss
SIGNATURE

ROADWAY DESIGN ENGINEER

DocuSigned by:
Jeffrey D. Cabaniss
SIGNATURE



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

REVISIONS

INDEX OF SHEETS

1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2	TYPICAL SECTIONS
2C1	SPECIAL DETAIL FOR GUARDRAIL PLACEMENT 25'-0" CLEAR SPAN
3	SUMMARY OF QUANTITIES
3A	SUMMARY OF EARTHWORK
4	PLANSHEET
TMP1-TMP2	TRAFFIC MARKING PLANS
EC1-EC3	EROSION CONTROL
X1A	CROSS SECTION SUMMARY
X1-X2	CROSS SECTION SHEET

GENERAL NOTES:

2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018

SUBSURFACE PLANS:

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

GRADING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED OR FUTURE SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

UTILITIES:

ALL UTILITIES WILL BE RELOCATED BY OTHERS.
OWNERS:
CENTURYLINK
WEST CARTERET WATER CORP
CARTERET-CRAVEN ELECTRIC
TIME WARNER CABLE-CHARTER

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 16, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD. NO.	TITLE
DIVISION 2 - EARTHWORK	
200.2	METHOD OF CLEARING - METHOD II
225.02	GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL

DIVISION 3 - PIPE CULVERT	
300.01	METHOD OF PIPE INSTALLATION

DIVISION 16 - EROSION CONTROL	
1605.01	TEMPORARY SILT FENCE

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STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

12/2/2016

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ _{EP}
Computed Property Corner	→
Property Monument	□ _{EDM}
Parcel/Sequence Number	(123)
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	----- _{MLB}
Proposed Wetland Boundary	----- _{MLB}
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	○ _S
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	○ _{MILEPOST 35}
Switch	□ _{SWITCH}
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	◇
Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	○
Exist Permanent Easement Pin and Cap	◇
New Permanent Easement Pin and Cap	◇
Vertical Benchmark	⊠
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	----- _{R/W}
New Right of Way Line with Pin and Cap	----- _{R/W} △
New Right of Way Line with Concrete or Granite RW Marker	----- _{R/W} △
New Control of Access Line with Concrete C/A Marker	----- _{C/A} △
Existing Control of Access	----- _{C/A}
New Control of Access	----- _{C/A}
Existing Easement Line	----- _E
New Temporary Construction Easement	----- _E
New Temporary Drainage Easement	----- _{TDE}
New Permanent Drainage Easement	----- _{PDE}
New Permanent Drainage / Utility Easement	----- _{DUE}
New Permanent Utility Easement	----- _{PUE}
New Temporary Utility Easement	----- _{TUE}
New Aerial Utility Easement	----- _{AUE}

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	----- _C
Proposed Slope Stakes Fill	----- _F
Proposed Curb Ramp	----- _{CR}
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	⊗

VEGETATION:

Single Tree	☼
Single Shrub	☼

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

Hedge	-----
Woods Line	-----
Orchard	-----
Vineyard	----- _{Vineyard}

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	----- _{CONC}
Bridge Wing Wall, Head Wall and End Wall	----- _{CONC WW}
MINOR:	
Head and End Wall	----- _{CONC HW}
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□ _{CB}
Paved Ditch Gutter	-----
Storm Sewer Manhole	○ _S
Storm Sewer	----- _S

UTILITIES:

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 LOS B (S.U.E.*)	----- _P
U/G Power Line LOS C (S.U.E.*)	----- _P
U/G Power Line LOS D (S.U.E.*)	----- _P

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Pedestal	⊠
Telephone Cell Tower	⊠
U/G Telephone Cable Hand Hole	●
U/G Telephone Cable LOS B (S.U.E.*)	----- _T
U/G Telephone Cable LOS C (S.U.E.*)	----- _T
U/G Telephone Cable LOS D (S.U.E.*)	----- _T
U/G Telephone Conduit LOS B (S.U.E.*)	----- _{TC}
U/G Telephone Conduit LOS C (S.U.E.*)	----- _{TC}
U/G Telephone Conduit LOS D (S.U.E.*)	----- _{TC}
U/G Fiber Optics Cable LOS B (S.U.E.*)	----- _{T FO}
U/G Fiber Optics Cable LOS C (S.U.E.*)	----- _{T FO}
U/G Fiber Optics Cable LOS D (S.U.E.*)	----- _{T FO}

WATER:

Water Manhole	○ _W
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	----- _W
U/G Water Line LOS C (S.U.E.*)	----- _W
U/G Water Line LOS D (S.U.E.*)	----- _W
Above Ground Water Line	----- _{A/G Water}

TV:

TV Pedestal	⊠
TV Tower	⊗
U/G TV Cable Hand Hole	●
U/G TV Cable LOS B (S.U.E.*)	----- _{TV}
U/G TV Cable LOS C (S.U.E.*)	----- _{TV}
U/G TV Cable LOS D (S.U.E.*)	----- _{TV}
U/G Fiber Optic Cable LOS B (S.U.E.*)	----- _{TV FO}
U/G Fiber Optic Cable LOS C (S.U.E.*)	----- _{TV FO}
U/G Fiber Optic Cable LOS D (S.U.E.*)	----- _{TV FO}

GAS:

Gas Valve	◇
Gas Meter	◇
U/G Gas Line LOS B (S.U.E.*)	----- _G
U/G Gas Line LOS C (S.U.E.*)	----- _G
U/G Gas Line LOS D (S.U.E.*)	----- _G
Above Ground Gas Line	----- _{A/G Gas}

SANITARY SEWER:

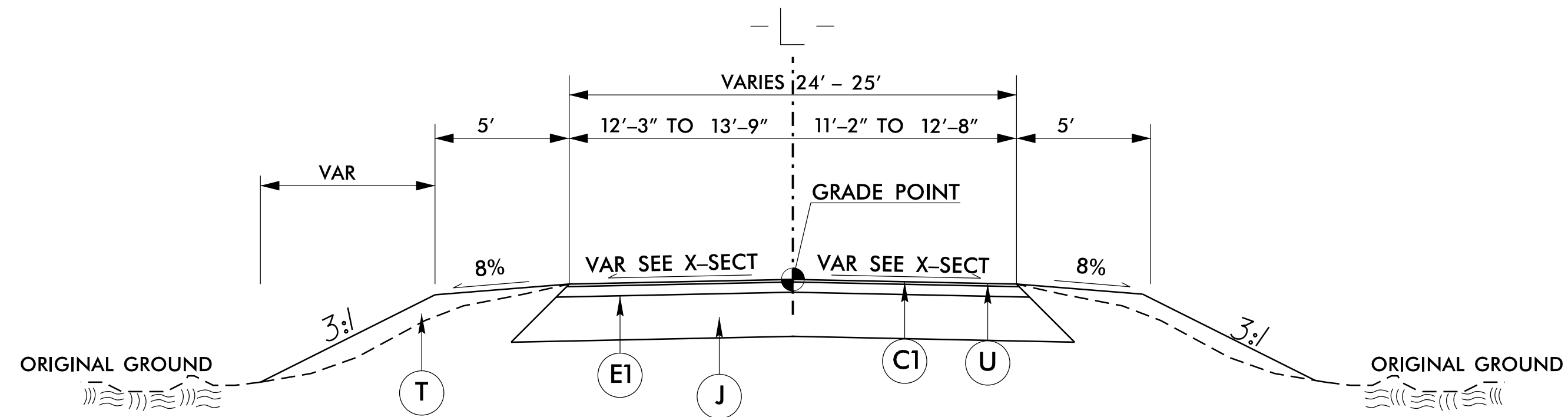
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	----- _{SS}
Above Ground Sanitary Sewer	----- _{A/G Sanitary Sewer}
SS Forced Main Line LOS B (S.U.E.*)	----- _{FSS}
SS Forced Main Line LOS C (S.U.E.*)	----- _{FSS}
SS Forced Main Line LOS D (S.U.E.*)	----- _{FSS}

MISCELLANEOUS:

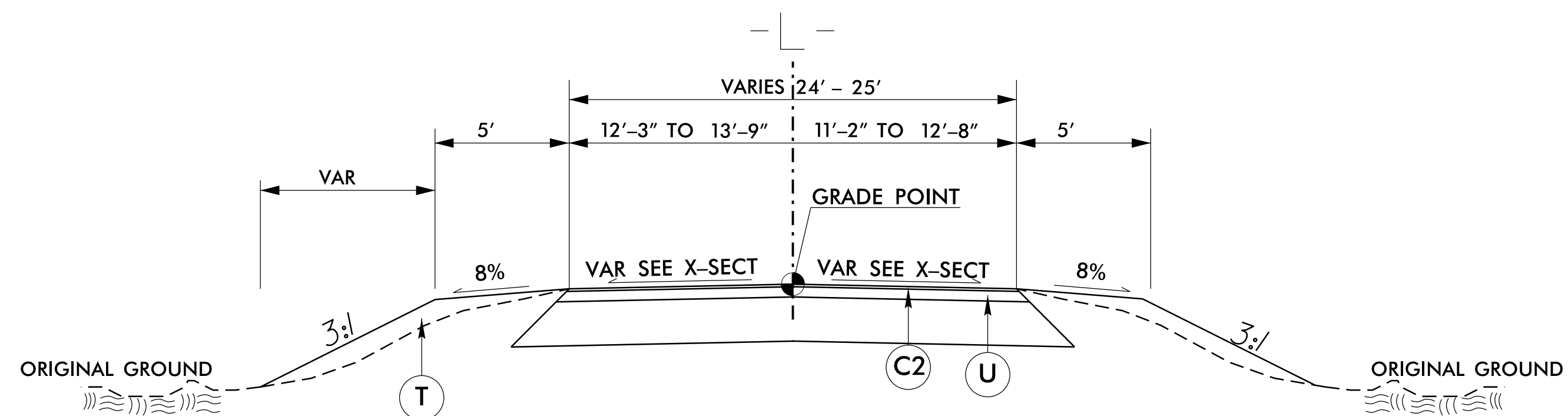
Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊠
Utility Unknown U/G Line LOS B (S.U.E.*)	----- _{UTIL}
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	⊕
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
U/G Test Hole LOS A (S.U.E.*)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

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.
C2	PROP. APPROX. 0.75" ASPHALT CONCRETE SURFACE COURSE TYPE OGFC-1, AT AN AVERAGE RATE OF 75 LBS. PER SQ.YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
J	VARIABLE DEPTH AGGREGATE BASE COURSE
J1	#57 STONE
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V1	GEOTEXTILE SEPARATOR FABRIC

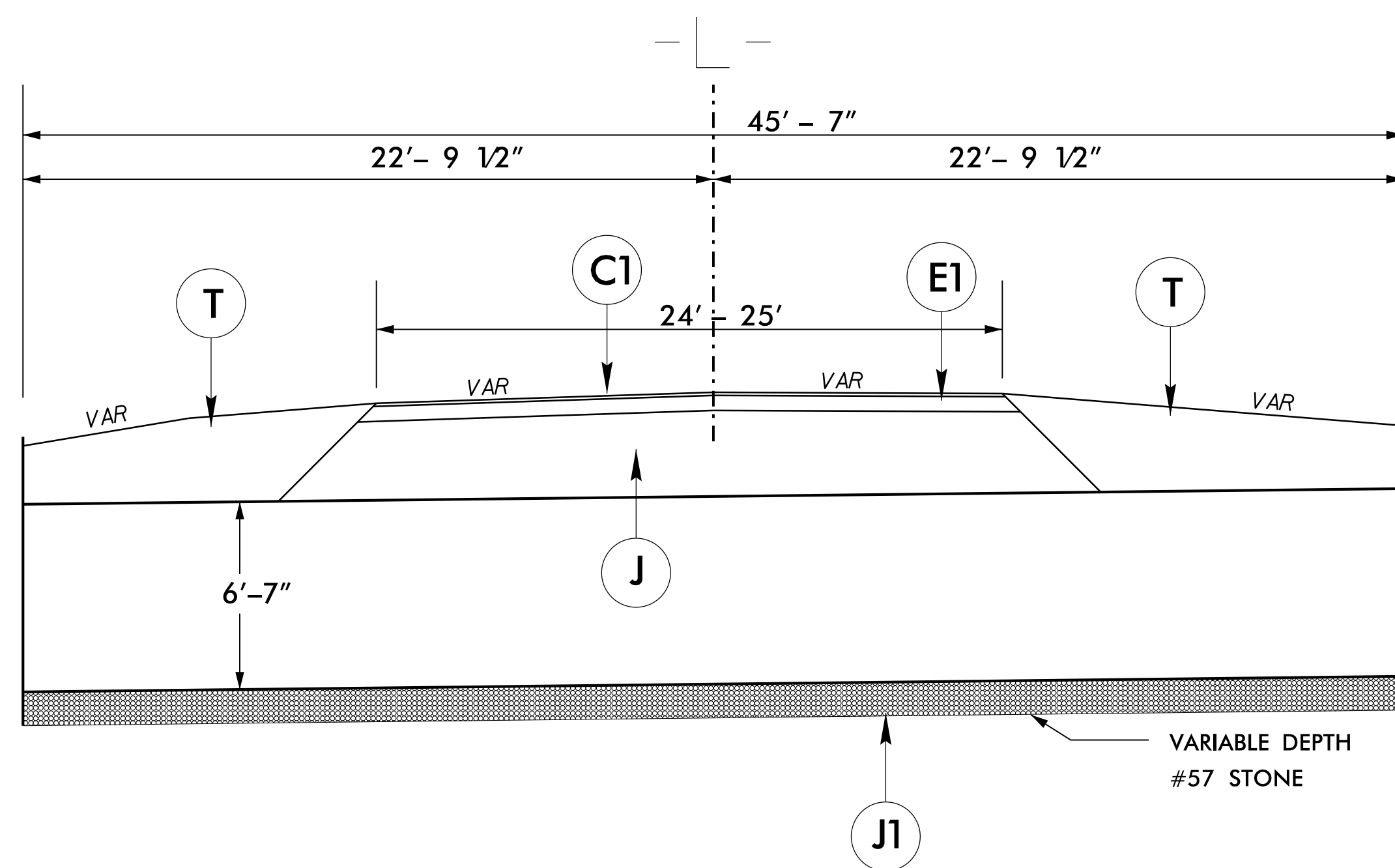
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.
1' WIDE PAVED SHOULDER.



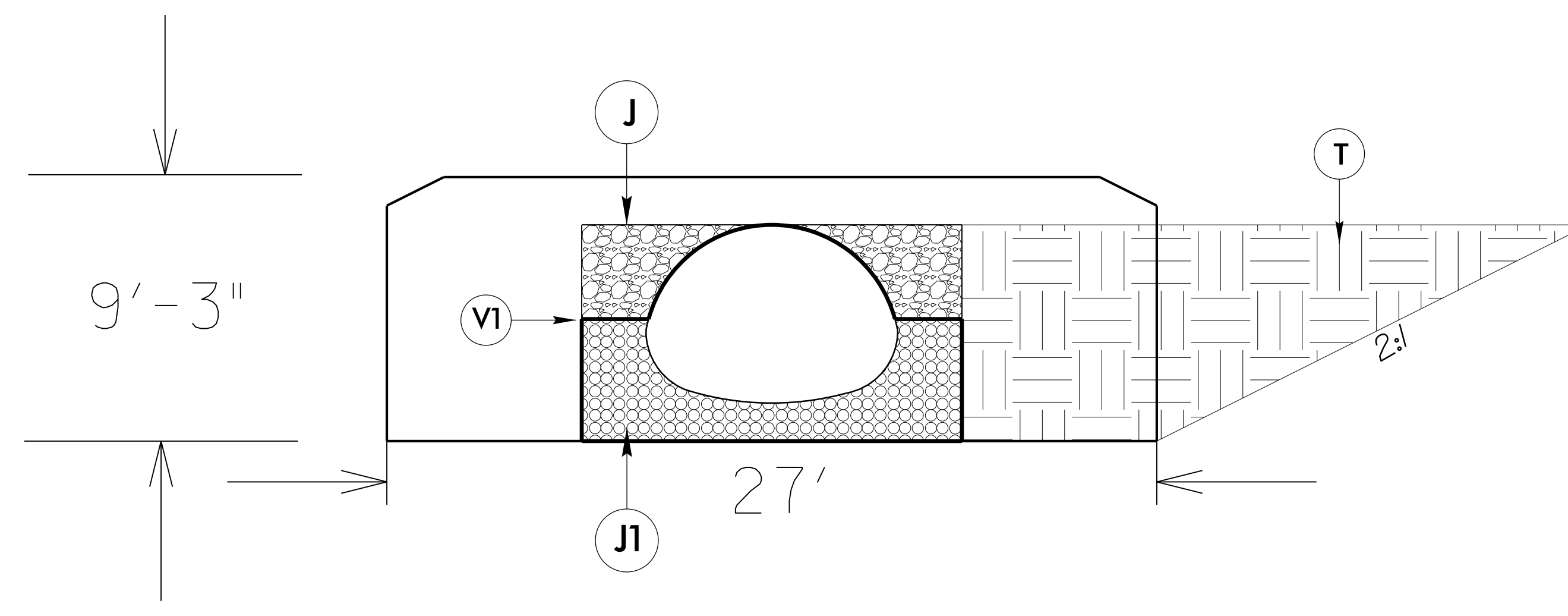
USE TYPICAL SECTION #1
-L- 13+00 TO 14+00



USE TYPICAL SECTION #2
-L- 12+00 TO 16+00
OPEN GRADED ASPHALT
FRICTION COURSE OVERLAY



SIDE VIEW
-L- 13+48.66



END VIEW
-L- 13+48.66

REVISIONS

8/17/99

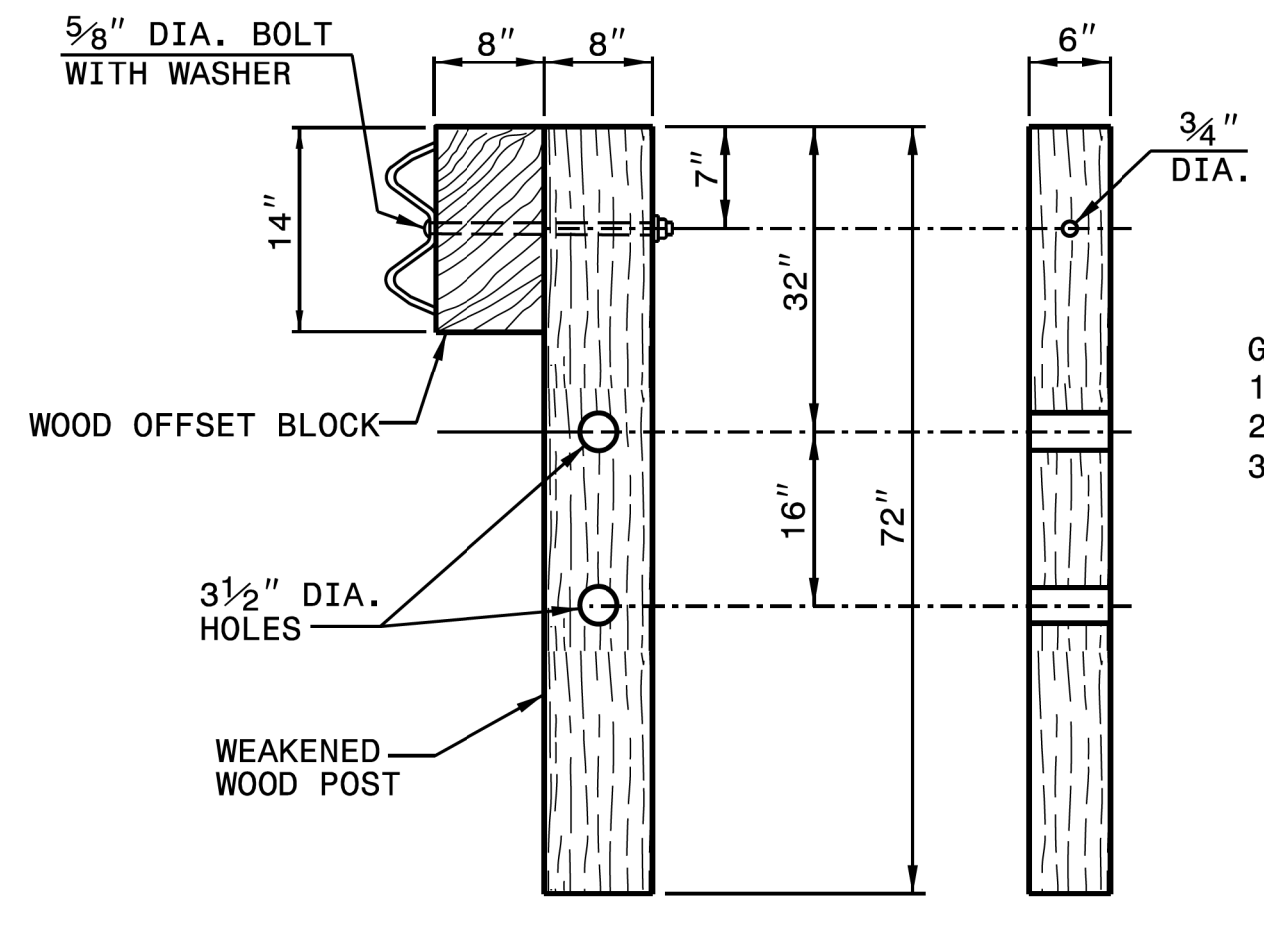
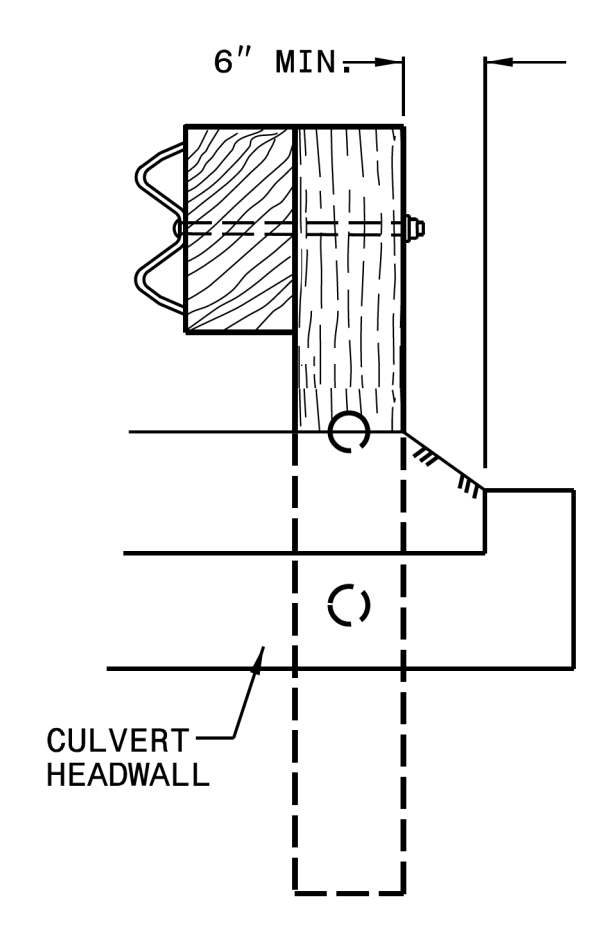
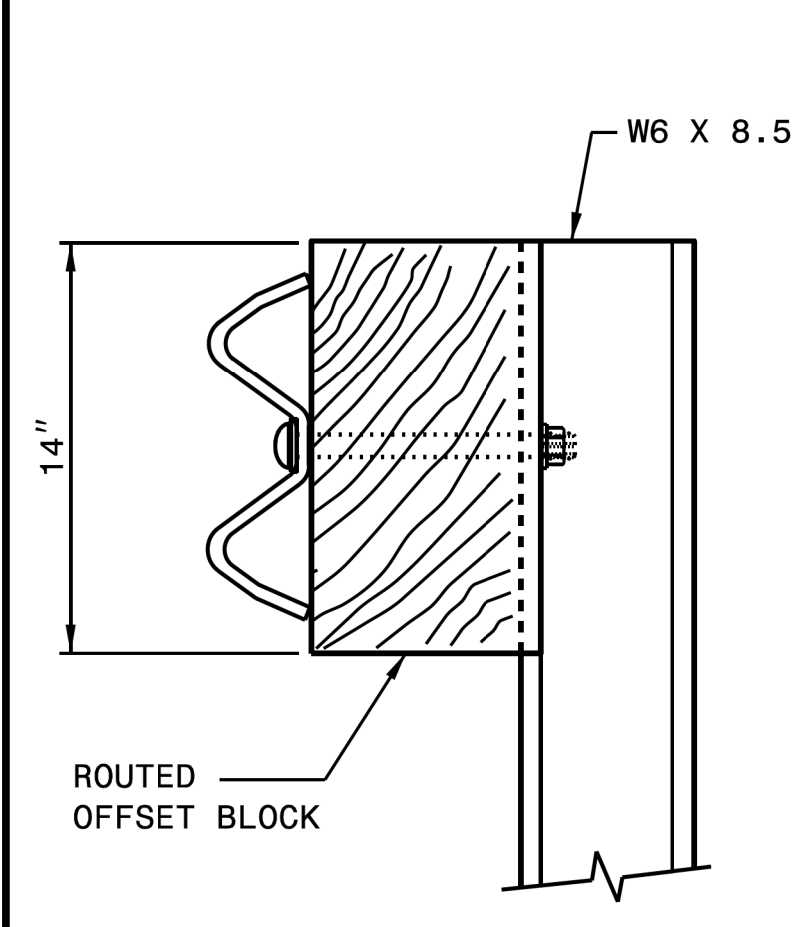
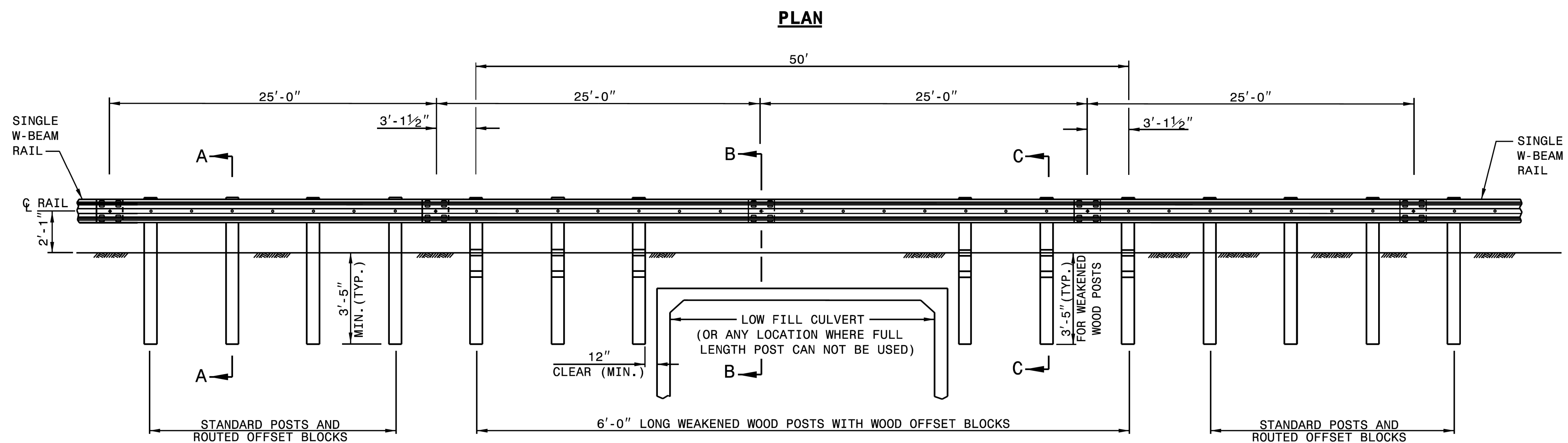
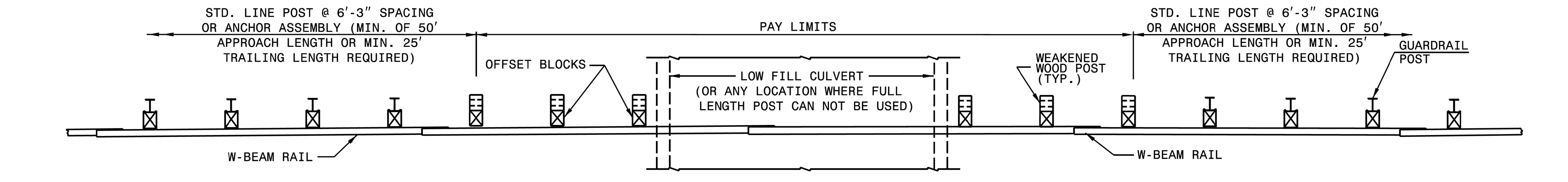
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STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

SPECIAL DETAIL FOR
GUARDRAIL PLACEMENT
25'-0" CLEAR SPAN

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

SPECIAL DETAIL FOR
GUARDRAIL PLACEMENT
25'-0" CLEAR SPAN



- GENERAL NOTES:
1. LAP RAIL IN THE DIRECTION OF TRAFFIC FLOW.
 2. SEE ROADWAY PLANS FOR LOCATIONS AND CONTINUATION OF RAIL OR END SECTIONS.
 3. MINIMUM DISTANCE OF 5 FEET BEHIND THE GUARDRAIL SHOULD BE CLEAR OF ANY FIXED-OBJECT HAZARDS THAT COULD SNAG AN IMPACTING VEHICLE.

SHEET - OF -
862D01

SHEET - OF -
862D01



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

25'-0" CLEAR SPAN GUARDRAIL PLACEMENT

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

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

REVISIONS

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

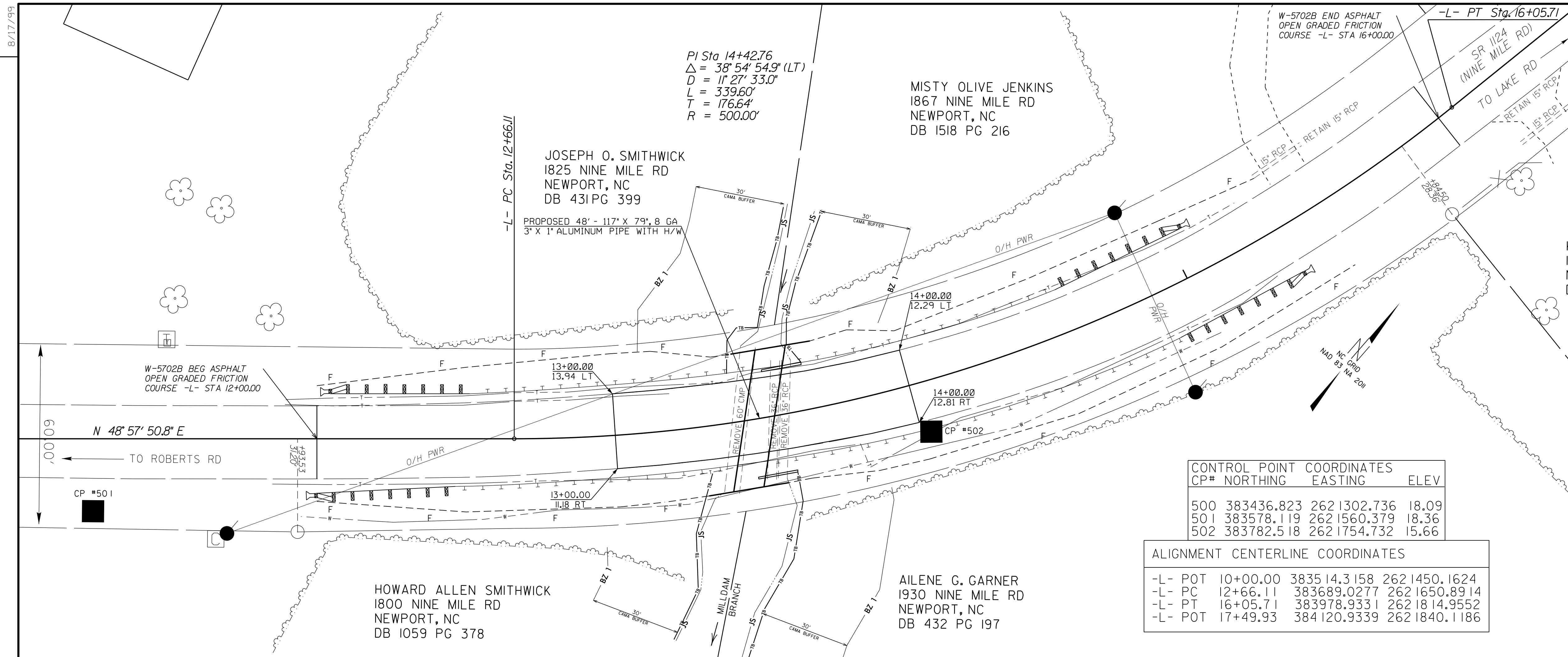
SUMMARY OF QUANTITIES

SECT	QUANTITY	UNIT	ITEM DESCRIPTION
800	1	LS	MOBILIZATION
801	1	LS	CONSTRUCTION SURVEYING
226	1	LS	GRADING
270	100	SY	GEOTEXTILE FOR SOIL STABILIZATION
SP	1	LS	INSTALLATION OF 48' OF 117"X79",8 GAGE,3"X 1" CORR ALUMINUM PIPE W/HW'S
402	1	LS	REMOVAL OF EXISITNG STRUCTURE'S AT STATION'S (-L-13+41.91)(-L-13+55.34)
520	250	TON	AGGREGATE BASE COURSE
SP	200	TON	#57 STONE
610	100	TON	ASPHALT CONC BASE COURSE,TYPE B25.0C
610	35	TON	ASPHALT CONC SURFACE COURSE,TYPE S9.5B
650	50	TON	OPEN-GRADED ASPHALT FRICTION COURSE,TYPE FC-1 MODIFIED
620	10	TON	ASPHALT BINDER FOR PLANT MIX PG 64-22
620	5	TON	ASPHALT BINDER FOR PLANT MIX PG 76-22
SP	4	EA	IMPACT ATTENUATOR UNITS,TYPE TL-3
862	2	EA	25' CLEAR SPAN GUARDRAIL SECTIONS
862	350	LF	STEEL BEAM GUARDRAIL
SP	100	SY	GEOTEXTILE FOR PAVEMENT STABILIZATION (CONTINGENCY)
1605	670	LF	TEMPORARY SILT FENCE
SP	200	SY	COIR FIBER MAT (CONTINGENCY)
SP	60	LF	COIR FIBER WATTLE
1660	0.5	ACRE	SEEDING AND MULCHING
1661	50	LB	SEED FOR REPAIR SEEDING
1661	0.2	TON	FERTILIZER FOR REPAIR SEEDING
SP	60	LF	IMPERVIOUS DIKE
SP	3	EA	RESPONSE FOR EROSION CONTROL
SP	1	LS	DEWATERING
SP	300	SY	GEOTEXTILE SEPARATOR FABRIC
SP	200	LF	SAFETY FENCE
SP	100	SY	FLOATING TURBIDITY CURTAIN (CONTINGENCY)

REVISIONS

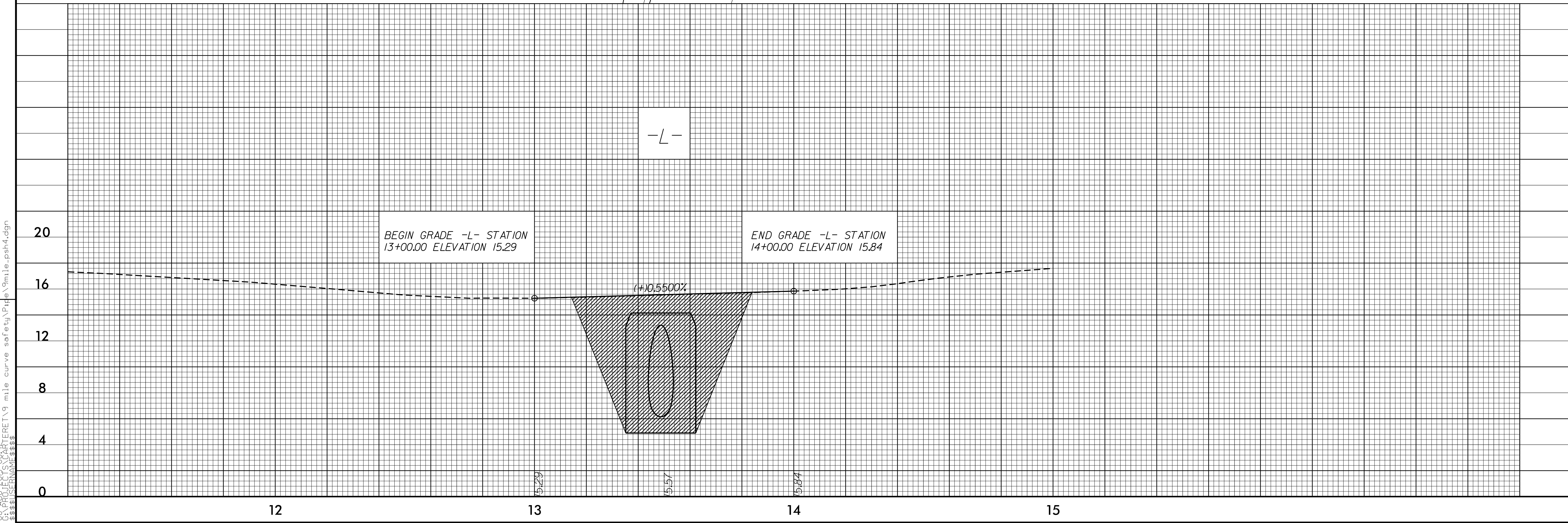
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CP#	NORTHING	EASTING	ELEV
500	383436.823	2621302.736	18.09
501	383578.119	2621560.379	18.36
502	383782.518	2621754.732	15.66

ALIGNMENT	CENTERLINE	COORDINATES
-L-	POT 10+00.00	383514.3158 2621450.1624
-L-	PC 12+66.11	383689.0277 2621650.8914
-L-	PT 16+05.71	383978.9331 2621814.9552
-L-	POT 17+49.93	384120.9339 2621840.1186



REVISIONS

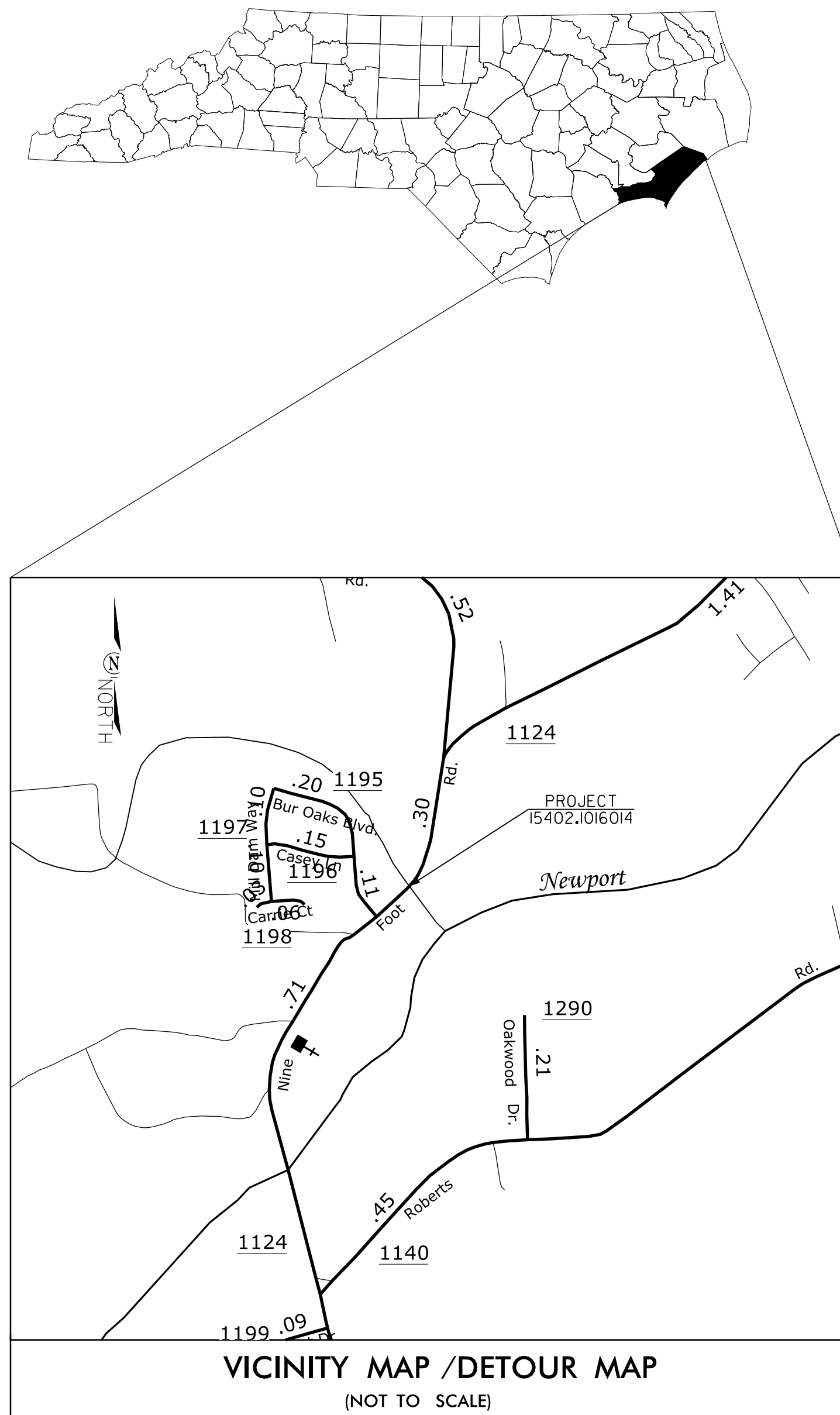
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8/17/99

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

CARTERET COUNTY



INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET WITH VICINITY MAP & INDEX OF SHEETS, LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND.
TMP-2	PROJECT NOTES, DETOUR AND PLANS.

ROADWAY 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
1101.03 (SHT. 1 OF 9)	TEMPORARY ROAD CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1145.01	BARRICADES (TYPE III)

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- NORTH ARROW
- PROPOSED PVMT.
- EXIST. PVMT.
- WORK AREA

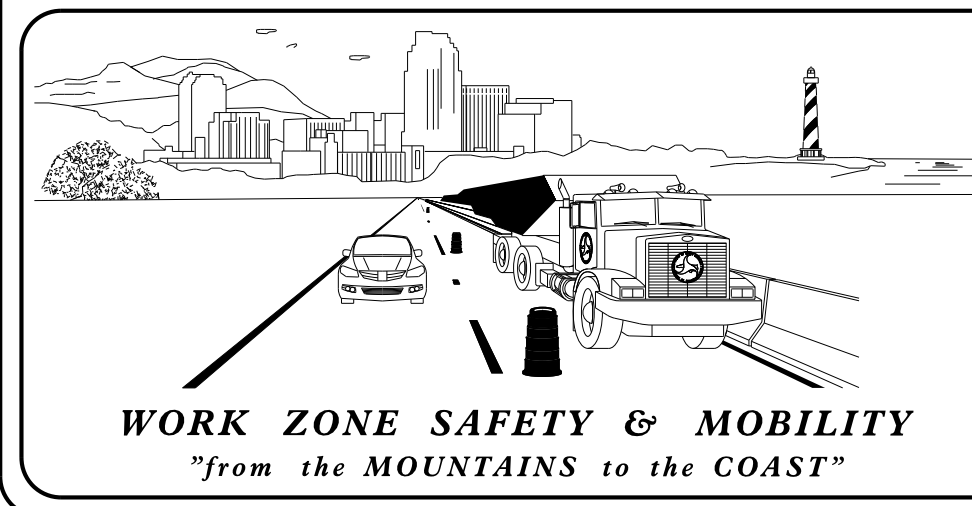
TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)

SHEET NO.
TMP-1

STATE PROJECT:
15402.1016014

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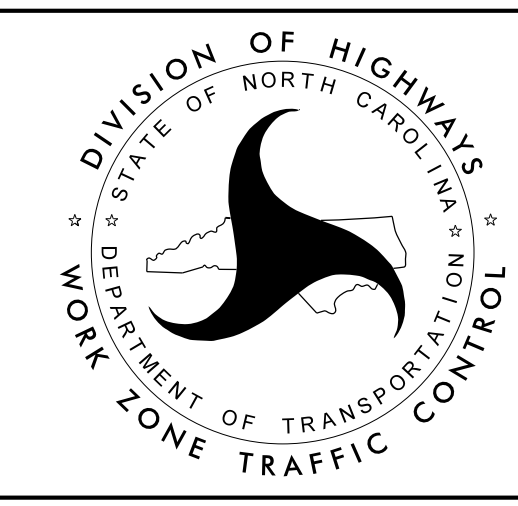
N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1037 WH SMITH BLVD, GREENVILLE, NC 27834
PHONE: (252) 439-2840 FAX: (252) 830-3352

JEFFREY D, CABANISS, PE **TRAFFIC ENGINEER**

JEFFREY D, CABANISS, PE **TRAFFIC CONTROL PROJECT ENGINEER**

Lang Jones **TRAFFIC CONTROL PROJECT DESIGN ENGINEER**

Lang Jones **TRAFFIC CONTROL DESIGN ENGINEER**



APPROVED:
DATE: 8/9/2019

SEAL

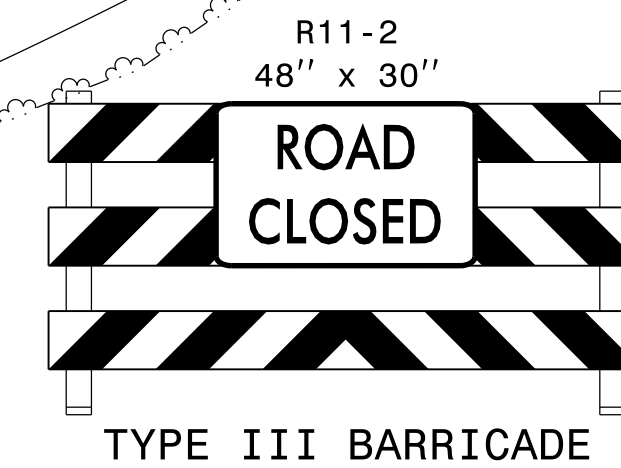
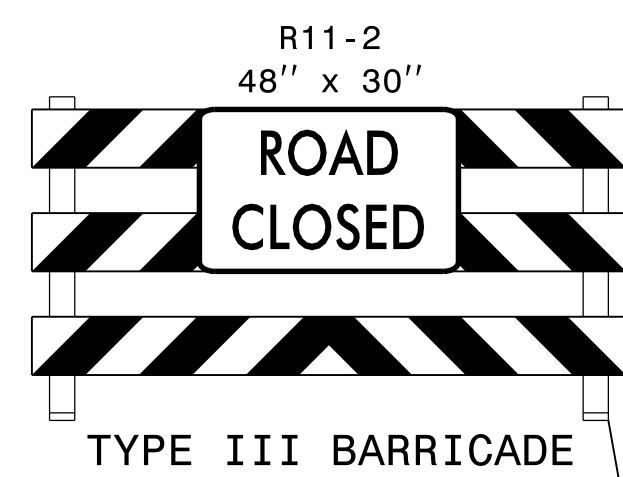
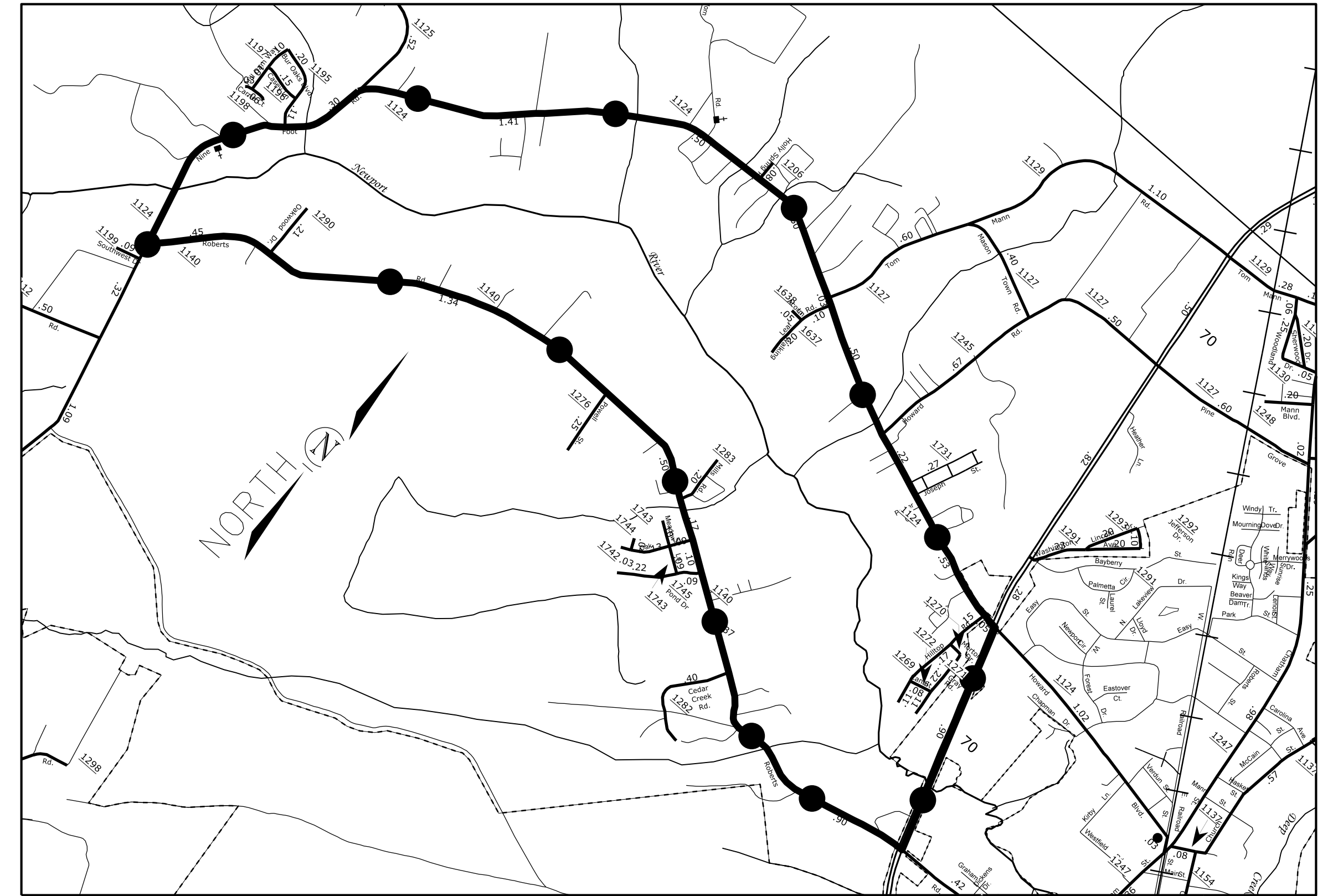
GENERAL NOTES



IMPLEMENT TRAFFIC CONTROL IN ACCORDANCE WITH THE ROADWAY STANDARD DRAWINGS LISTED ON TMP-1.

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 UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES, AS DIRECTED BY THE ENGINEER.

STATE FORCES WILL INSTALL AND MAINTAIN THE PROJECT DETOUR AND THE TYPE III BARRICADES AT THE PROJECT LIMITS. STATE FORCES WILL INSTALL PAINT AND MARKERS ON THE FINISHED PROJECT. CONTACT JEFFREY DUNNING AT 252-439-2950 FOR COORDINATION. PROVIDE A MINIMUM 2 WEEK NOTICE.



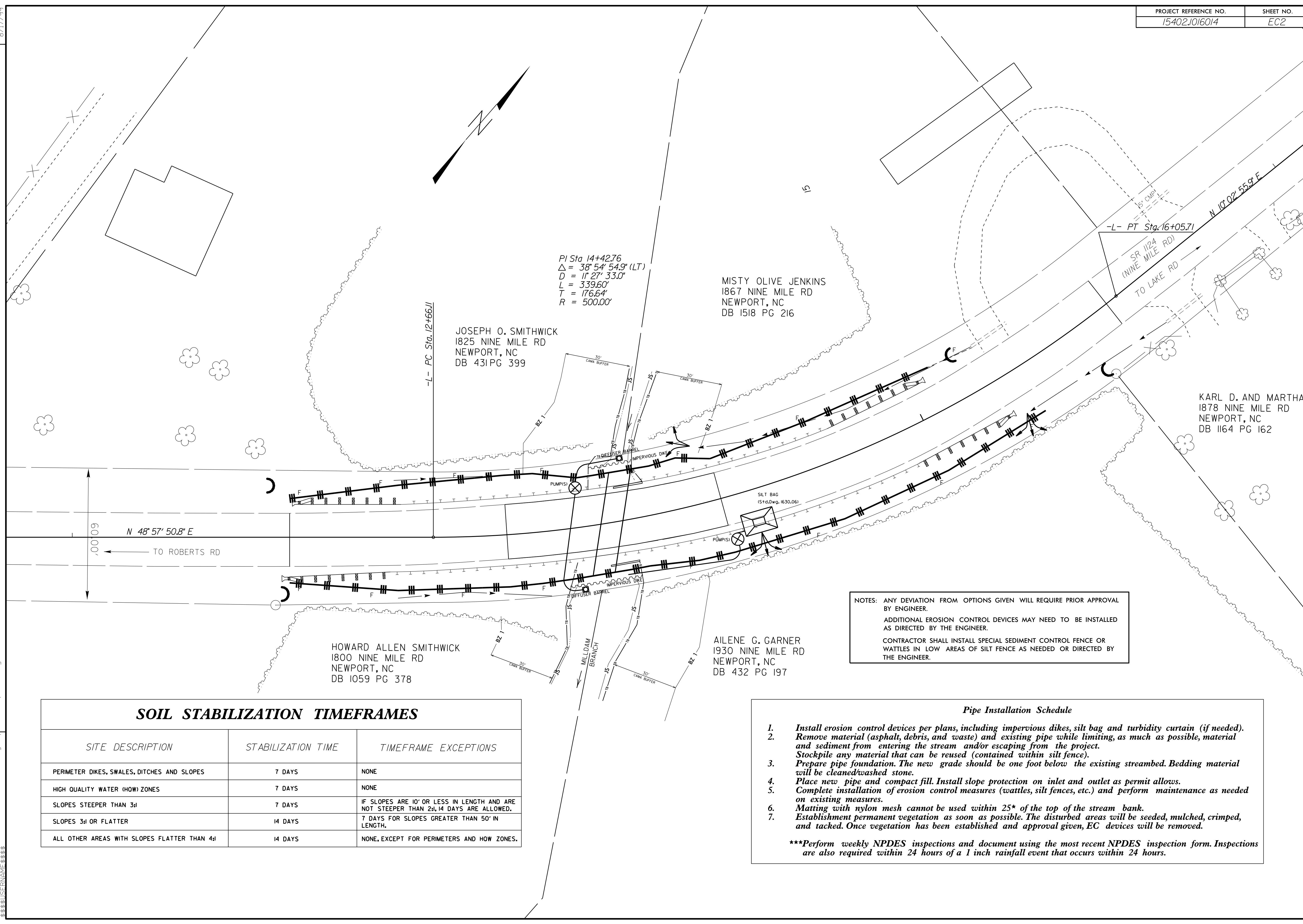
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APPROVED <i>Jeffrey D. Cabanis</i> DAYB/2019 SEAL 		TRANSPORTATION OPERATIONS PLANS
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REVISIONS

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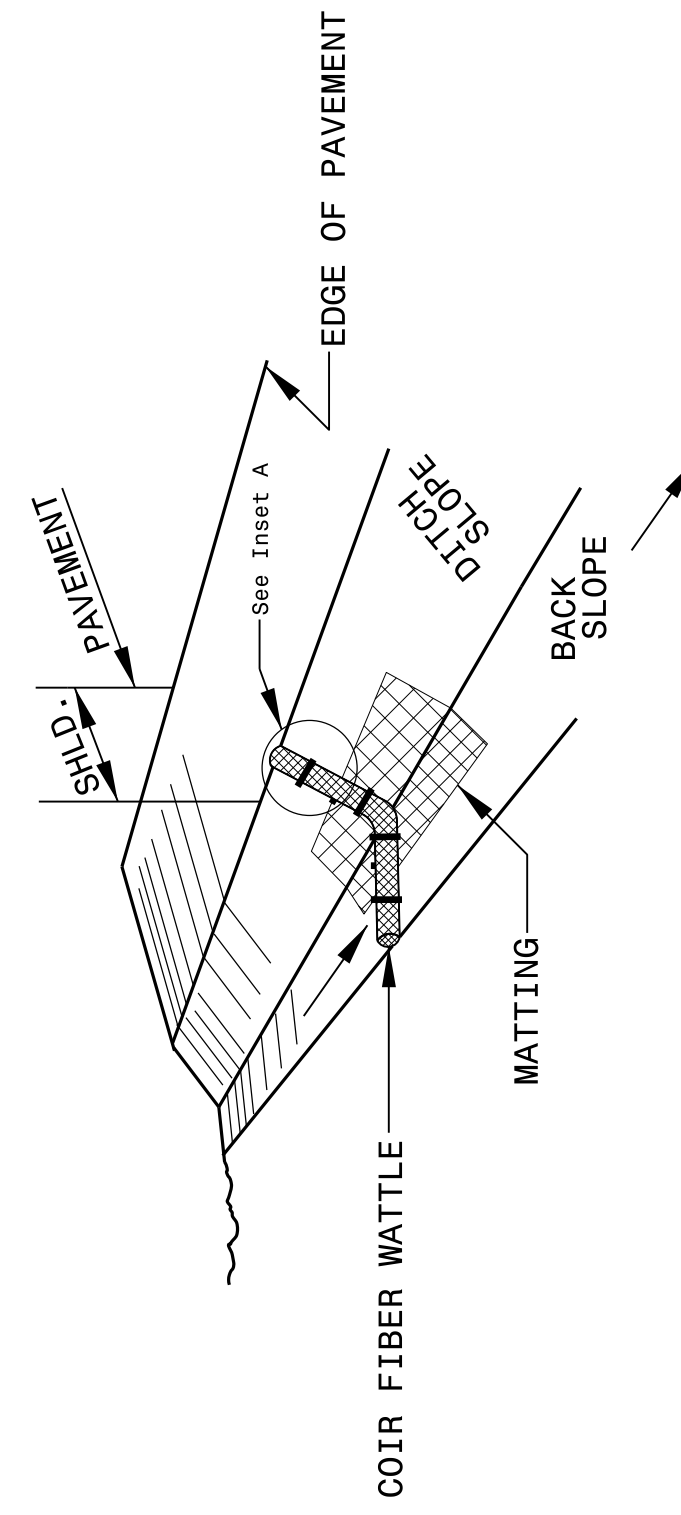
NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.
 ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.
 CONTRACTOR SHALL INSTALL SPECIAL SEDIMENT CONTROL FENCE OR WATTLES IN LOW AREAS OF SILT FENCE AS NEEDED OR DIRECTED BY THE ENGINEER.

SOIL STABILIZATION TIMEFRAMES		
SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) 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 HOW ZONES.

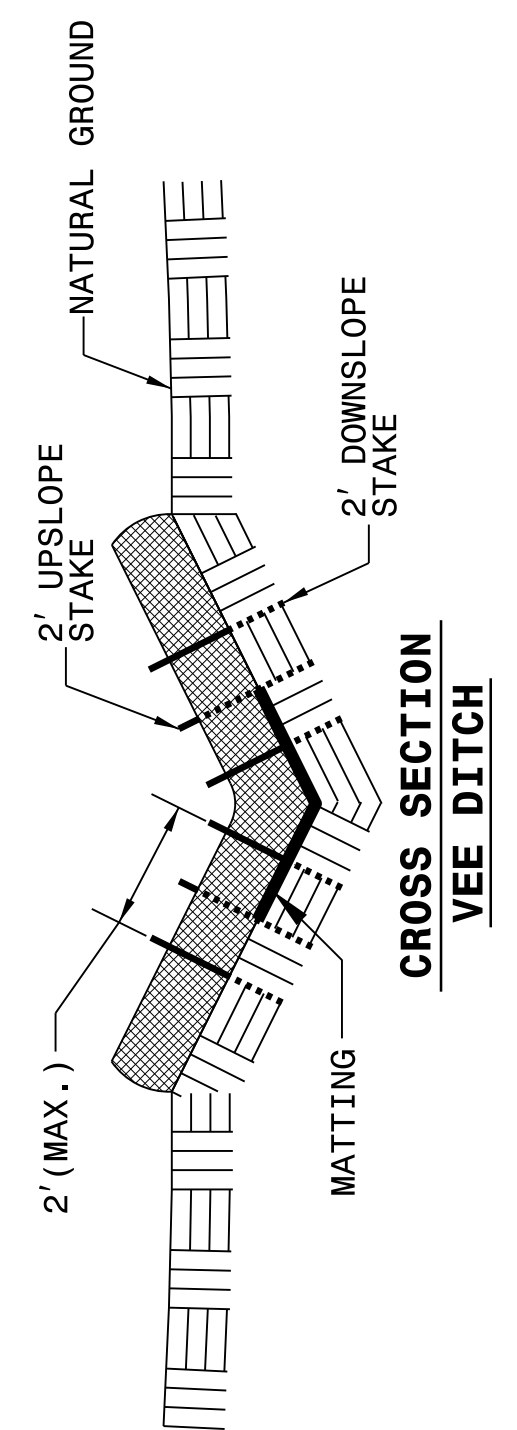
- Pipe Installation Schedule*
1. Install erosion control devices per plans, including impervious dikes, silt bag and turbidity curtain (if needed).
 2. Remove material (asphalt, debris, and waste) and existing pipe while limiting, as much as possible, material and sediment from entering the stream and/or escaping from the project. Stockpile any material that can be reused (contained within silt fence).
 3. Prepare pipe foundation. The new grade should be one foot below the existing streambed. Bedding material will be cleaned/washed stone.
 4. Place new pipe and compact fill. Install slope protection on inlet and outlet as permit allows.
 5. Complete installation of erosion control measures (wattles, silt fences, etc.) and perform maintenance as needed on existing measures.
 6. Matting with nylon mesh cannot be used within 25' of the top of the stream bank.
 7. Establishment permanent vegetation as soon as possible. The disturbed areas will be seeded, mulched, crimped, and tacked. Once vegetation has been established and approval given, EC devices will be removed.
- ***Perform weekly NPDES inspections and document using the most recent NPDES inspection form. Inspections are also required within 24 hours of a 1 inch rainfall event that occurs within 24 hours.

COIR FIBER WATTLE DETAIL

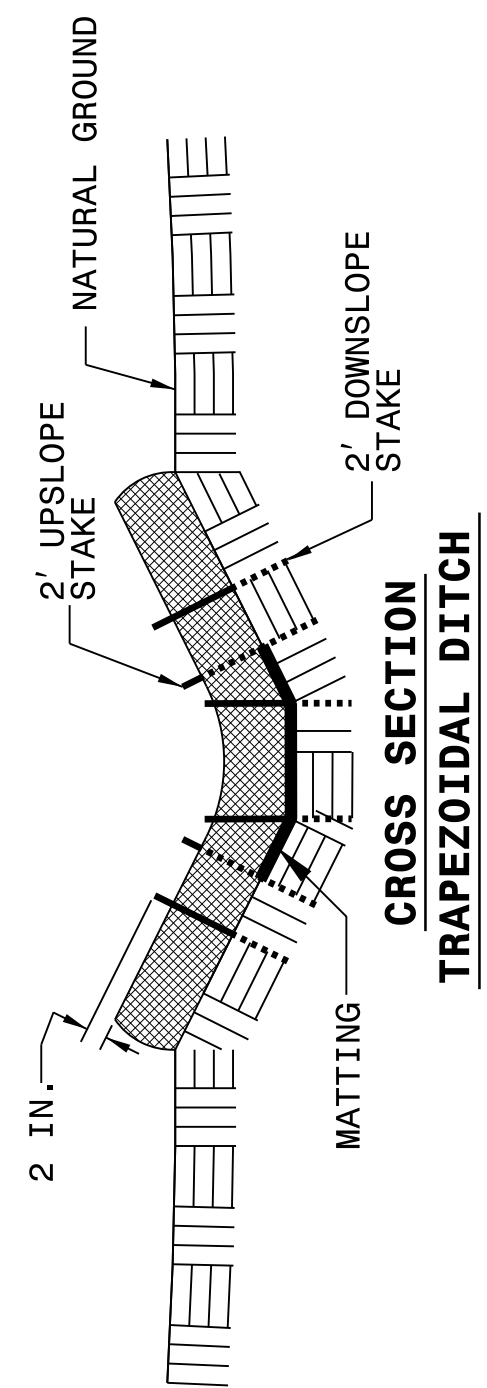
NOTES:
 USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.
 USE 3 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
 ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
 INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
 PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
 INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
 INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



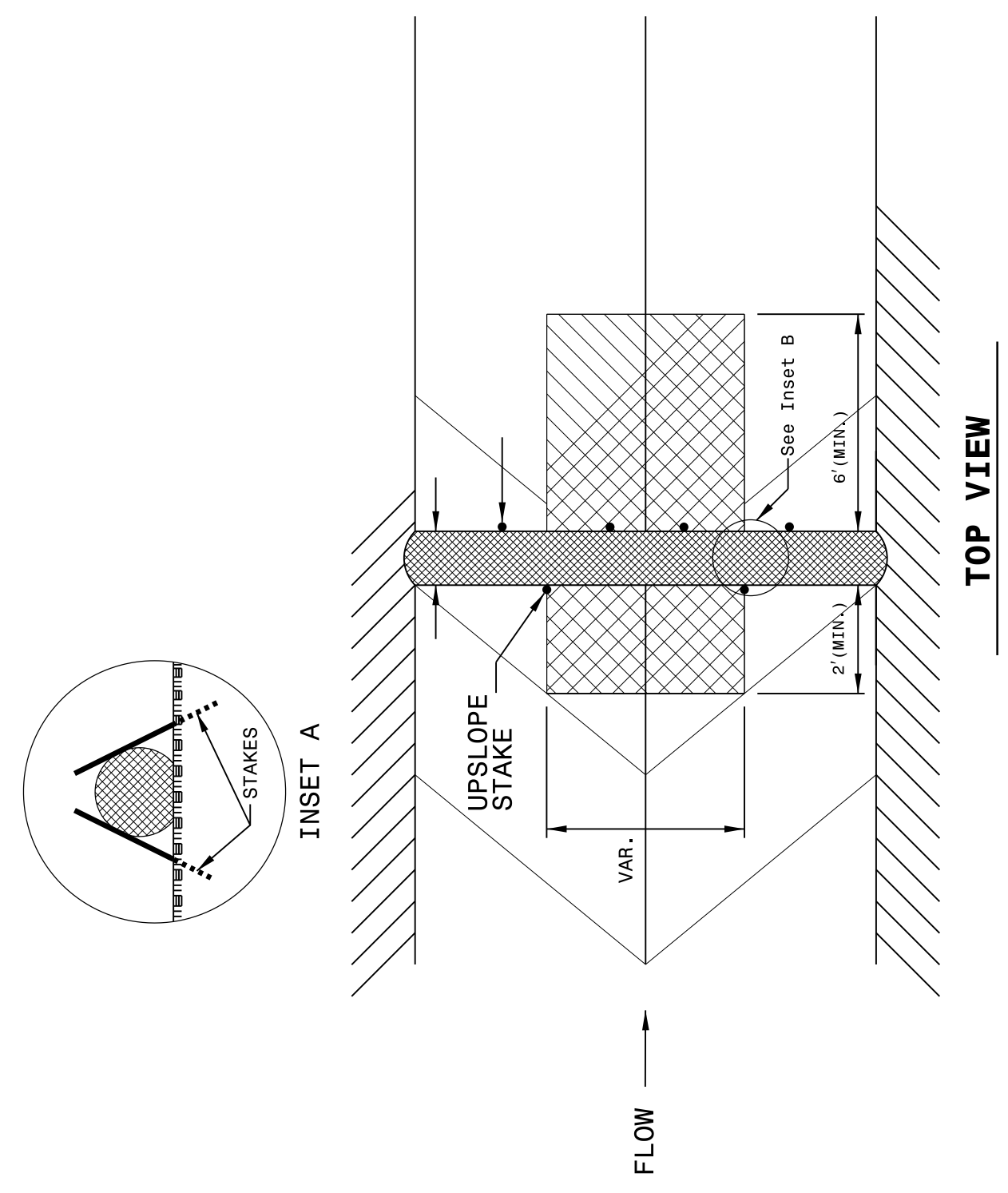
ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH



TOP VIEW

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 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

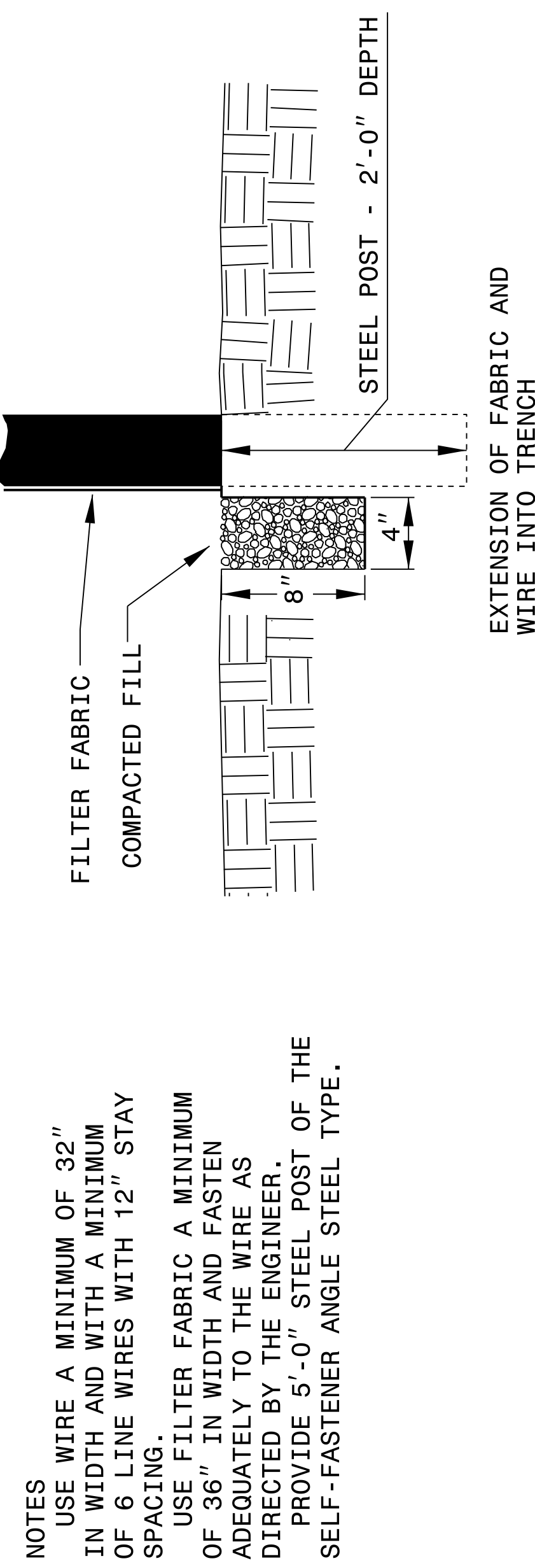
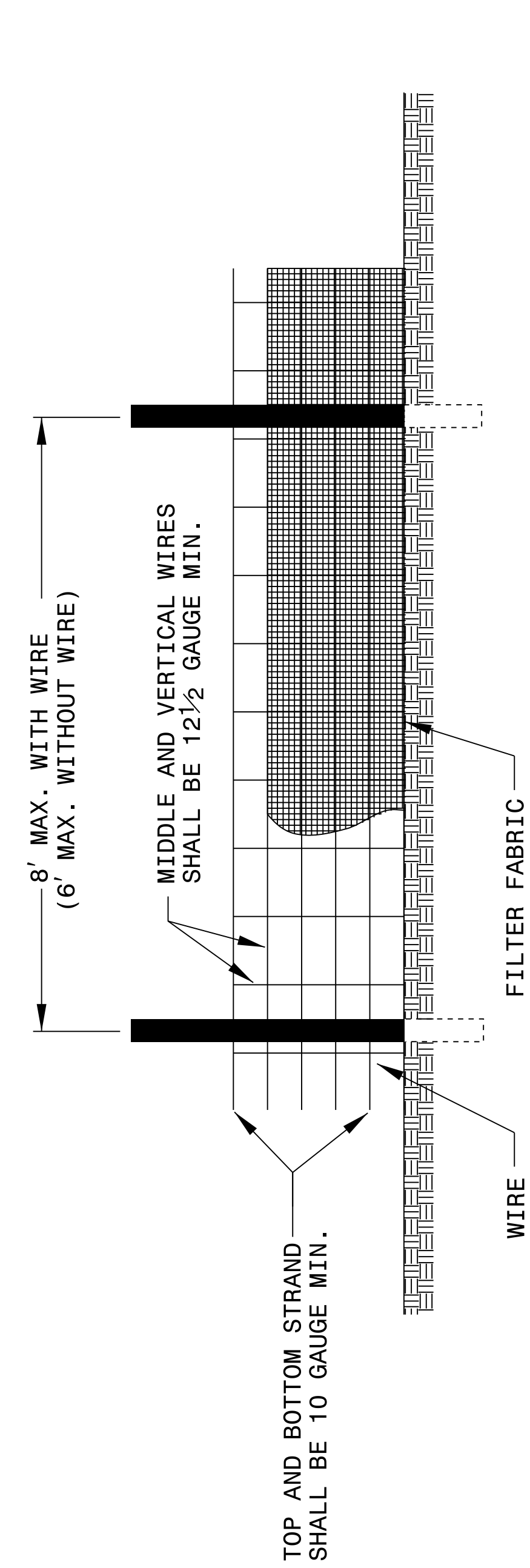
ENGLISH STANDARD DRAWING FOR
TEMPORARY SILT FENCE

SHEET 1 OF 1
1605.01

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

ENGLISH STANDARD DRAWING FOR
TEMPORARY SILT FENCE

SHEET 1 OF 1
1605.01



NOTES
 USE WIRE A MINIMUM OF 32" IN WIDTH AND WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
 USE FILTER FABRIC A MINIMUM OF 36" IN WIDTH AND FASTEN ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.
 PROVIDE 5'-0" STEEL POST OF THE SELF-FASTENER ANGLE STEEL TYPE.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CROSS-SECTION SUMMARY

IN CUBIC YARDS

LOCATION (-L-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT	STRUCTURE EXCAVATION
<i>12 + 00.00</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>12 + 50.00</i>	<i>0</i>	<i>0</i>	<i>15</i>	<i>0</i>
<i>13 + 00.00</i>	<i>0</i>	<i>0</i>	<i>24</i>	<i>0</i>
<i>13 + 14.31</i>	<i>3</i>	<i>0</i>	<i>8</i>	<i>0</i>
<i>13 + 35.21</i>	<i>9</i>	<i>0</i>	<i>14</i>	<i>189</i>
<i>13 + 48.66</i>	<i>6</i>	<i>0</i>	<i>18</i>	<i>229</i>
<i>13 + 62.22</i>	<i>6</i>	<i>0</i>	<i>18</i>	<i>231</i>
<i>13 + 83.88</i>	<i>10</i>	<i>0</i>	<i>14</i>	<i>196</i>
<i>14 + 00.00</i>	<i>4</i>	<i>0</i>	<i>5</i>	<i>0</i>
<i>14 + 50.00</i>	<i>0</i>	<i>0</i>	<i>15</i>	<i>0</i>
<i>15 + 00.00</i>	<i>0</i>	<i>0</i>	<i>16</i>	<i>0</i>
<i>15 + 50.00</i>	<i>0</i>	<i>0</i>	<i>11</i>	<i>0</i>
<i>16 + 00.00</i>	<i>0</i>	<i>0</i>	<i>7</i>	<i>0</i>

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT.

NOTE:

APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, UNCLASSIFIED STRUCTURE EXCAVATION, BORROW EXCAVATION, FINE GRADING, CLEARING AND GRUBBING AND REMOVAL OF EXISTING PAVEMENT. WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "GRADING".

REVISIONS

8/17/99

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