

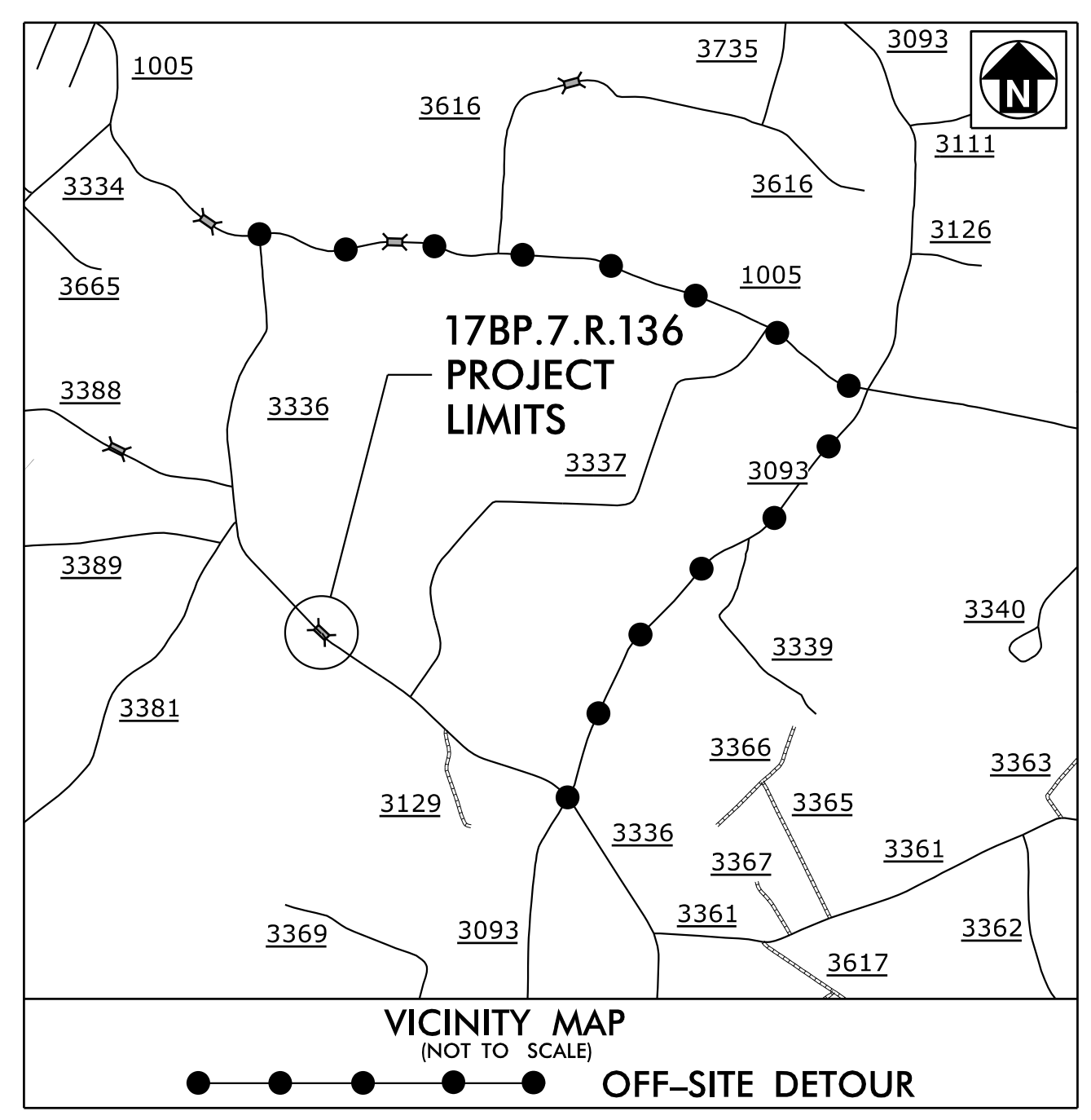
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09.028/299

PROJECT: 17BP.7.R.136

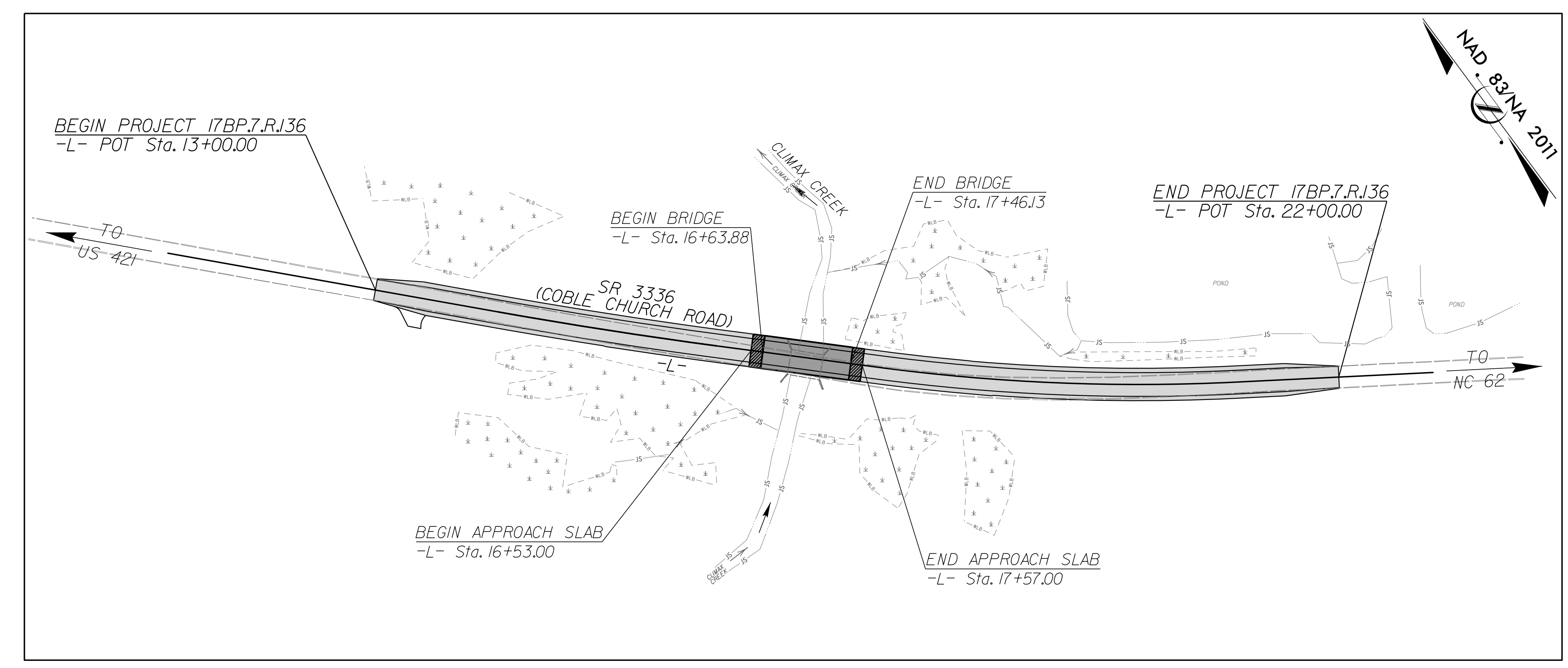


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
GUILFORD COUNTY

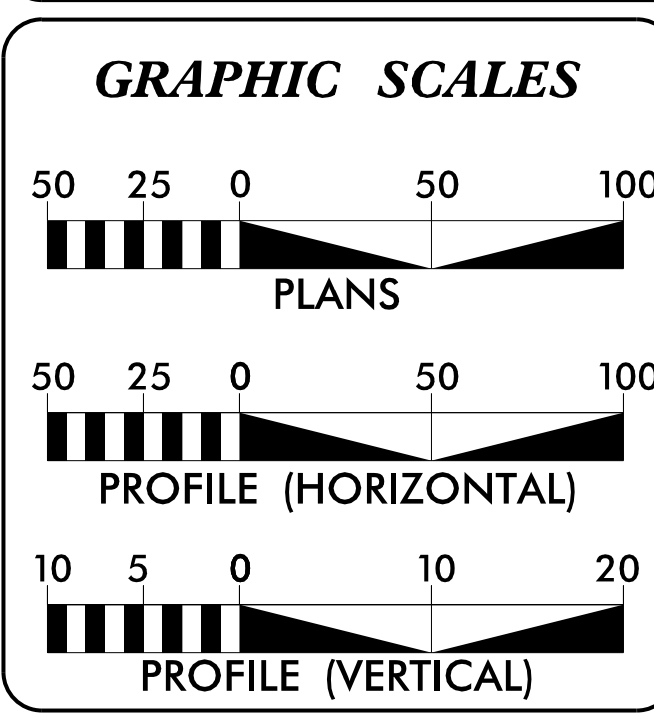
**LOCATION: BRIDGE NO. 267 OVER CLIMAX CREEK
ON SR 3336 (COBLE CHURCH ROAD)**

TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	17BP.7.R.136	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
17BP.7.PE.136		PE	
17BP.7.ROW.136		ROW	
17BP.7.R.136		CONSTRUCTION	



CONTRACT:



DESIGN DATA

ADT (2013) =	710
ADT (2025) =	1,420
V =	45 MPH
FUNC CLASS =	MINOR COLLECTOR
SUB REGIONAL TIER	

PROJECT LENGTH

LENGTH ROADWAY PROJECT	=	0.154 MILES
LENGTH STRUCTURE PROJECT	=	0.016 MILES
TOTAL LENGTH PROJECT	=	0.170 MILES

Prepared in the Office of WGI for
DIVISION 7
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2024 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: OCTOBER 28, 2019	DAVID SIMPSON, PE PROJECT ENGINEER
LETTING DATE: JUNE 6, 2024	REID B. ROBOL, PE HYDRAULIC ENGINEER
NCDOT CONTACT:	DANIEL DAGENHART DIVISION BRIDGE PROGRAM MANAGER

ROADWAY DESIGN ENGINEER

Seal: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 21102
Signature: James Timothy Robol, P.E. 4/12/2024

HYDRAULICS ENGINEER

Seal: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043870
Signature: Reid B. Robol, P.E. 4/12/2024

PLANS PREPARED BY:

WGI 5640 Dillard Drive, Suite 200, Cary, NC 27518
(919) 852-0468 (919) 852-0598 (Fax) www.wginc.com

LICENSE NO. C-4434

vhb
VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE	SHEET NO.
17BP.7.R.136 – GUILFORD 267	1A
ROADWAY DESIGN ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	
	MOTT MACDONALD 930 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmac.com

GENERAL NOTES

GENERAL NOTES: 2024 SPECIFICATIONS EFFECTIVE: 01-16-24

GRADING AND SURFACING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED 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.

CLEARING:

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

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 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. 560.01.

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.

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT FOR 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-SECTIONS PRIOR TO SETTING OF THE SLOPE STAKES FOR THE EMBANKMENT OR EXCAVATION APPROACHING A BRIDGE.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE DUKE ENERGY AND AT&T. ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

RIGHT-OF-WAY MARKERS:

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY CONTRACT.

LIST OF ROADWAY STANDARD DRAWINGS

EFF. 01-16-2024

2024 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, 2024 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 II
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	
423.01	Bridge Approach Fills – Type 1 Approach Fill for Bridge Abutment
DIVISION 5 – SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction – High Side of Superelevated Curve – Method I
DIVISION 6 – ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 – INCIDENTALS	
806.01	Concrete Right-of-Way Marker
806.02	Granite Right-of-Way Marker
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
840.46	Traffic Bearing Precast Drainage Structure
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
876.01	Rip Rap in Channels
876.02	Guide for Rip Rap at Pipe Outlets
876.04	Drainage Ditches with Class 'B' Rip Rap

INDEX OF SHEETS

SHEET NUMBER	DESCRIPTION
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
3B-1	GUARDRAIL, EARTHWORK, AND SHOULDER BERM GUTTER SUMMARY
3D-1	DRAINAGE SUMMARY
4	PLAN AND PROFILE SHEET
RW01 THRU RW04	SURVEY CONTROL SHEETS
TMP-1 THRU TMP-4	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
RF-1	REFORESTATION DETAIL SHEET
SIGN-1 THRU SIGN-3	SIGNING PLANS
UO-1 THRU UO-2	UTILITIES BY OTHERS PLANS
X-1 THRU X-4	CROSS-SECTIONS
S-1 THRU S-19	STRUCTURE PLANS
SN	STRUCTURE NOTES

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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	(123)
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	WLB
Proposed Wetland Boundary	WLB
Existing Endangered Animal Boundary	EAB
Existing Endangered Plant Boundary	EPB
Existing Historic Property Boundary	HPB
Known Contamination Area: Soil	☠-s-☠-s-
Potential Contamination Area: Soil	☠-s-☠-s-
Known Contamination Area: Water	☠-w-☠-w-
Potential Contamination Area: Water	☠-w-☠-w-
Contaminated Site: Known or Potential	☠ ?

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	○
Small Mine	×
Foundation	□
Area Outline	□
Cemetery	□
Building	□
School	□
Church	□
Dam	□

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	JS
Buffer Zone 1	BZ 1
Buffer Zone 2	BZ 2
Flow Arrow	←
Disappearing Stream	→
Spring	○
Wetland	WLB
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	E
Proposed Temporary Drainage Easement	TDE
Proposed Permanent Drainage Easement	PDE
Proposed Permanent Drainage/Utility Easement	DUE
Proposed Permanent Utility Easement	PUE
Proposed Temporary Utility Easement	TUE
Proposed 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	T T T
Proposed Guardrail	T T T
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	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	⊕
Storm Sewer	S

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	PH
H-Frame Pole	●
U/G Power Line Test Hole (SUE - LOS A)*	⊕
U/G Power Line (SUE - LOS B)*	P
U/G Power Line (SUE - LOS C)*	P
U/G Power Line (SUE - LOS D)*	P

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Pedestal	⊠
Telephone Cell Tower	⊠
U/G Telephone Cable Hand Hole	PH
U/G Telephone Test Hole (SUE - LOS A)*	⊕
U/G Telephone Cable (SUE - LOS B)*	T
U/G Telephone Cable (SUE - LOS C)*	T
U/G Telephone Cable (SUE - LOS D)*	T
U/G Telephone Conduit (SUE - LOS B)*	TC
U/G Telephone Conduit (SUE - LOS C)*	TC
U/G Telephone Conduit (SUE - LOS D)*	TC
U/G Fiber Optics Cable (SUE - LOS B)*	TF
U/G Fiber Optics Cable (SUE - LOS C)*	TF
U/G Fiber Optics Cable (SUE - LOS D)*	TF

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)*	W
U/G Water Line (SUE - LOS C)*	W
U/G Water Line (SUE - LOS D)*	W
Above Ground Water Line	A/G Water

TV:

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

GAS:

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

SANITARY SEWER:

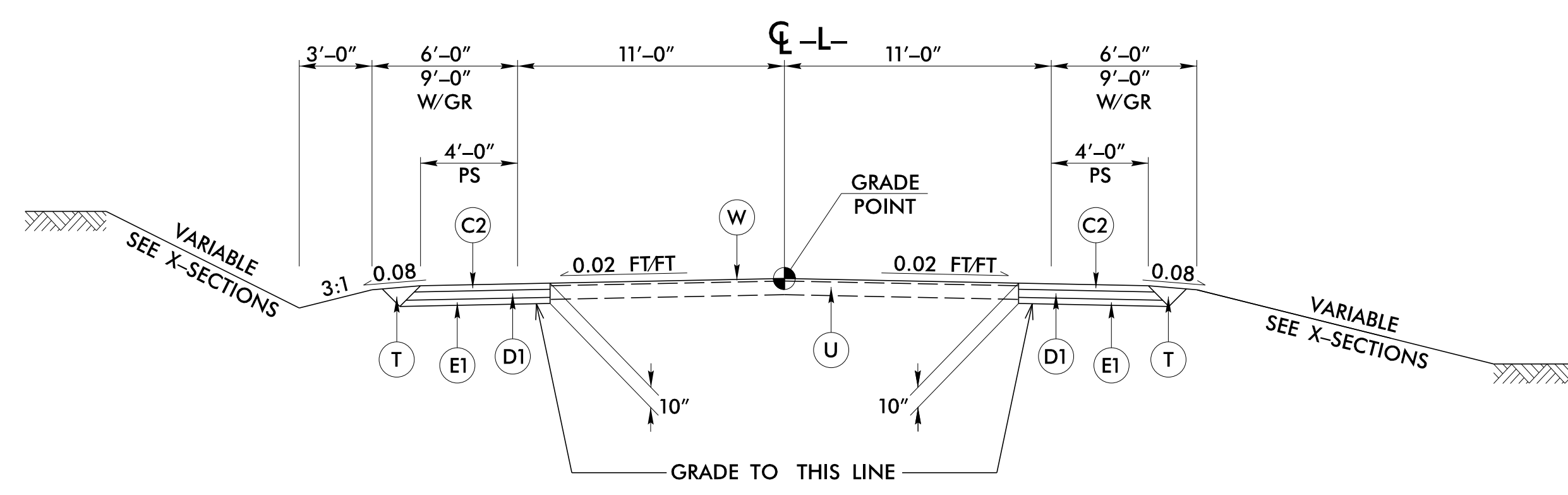
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	SS
Above Ground Sanitary Sewer	A/G Sanitary Sewer
SS Force Main Line Test Hole (SUE - LOS A)*	⊕
SS Force Main Line (SUE - LOS B)*	FSS
SS Force Main Line (SUE - LOS C)*	FSS
SS Force Main Line (SUE - LOS D)*	FSS

MISCELLANEOUS:

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

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PROJECT REFERENCE	SHEET NO.
17BP.7.R.136 - GUILFORD 267	2A-1
ROADWAY DESIGN ENGINEER MOTT MACDONALD 1 & E, LLC SEAL 21102 4/12/2024 LICENSE NO. F-06697	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	M MOTT MACDONALD 1 & E, LLC 930 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmac.com

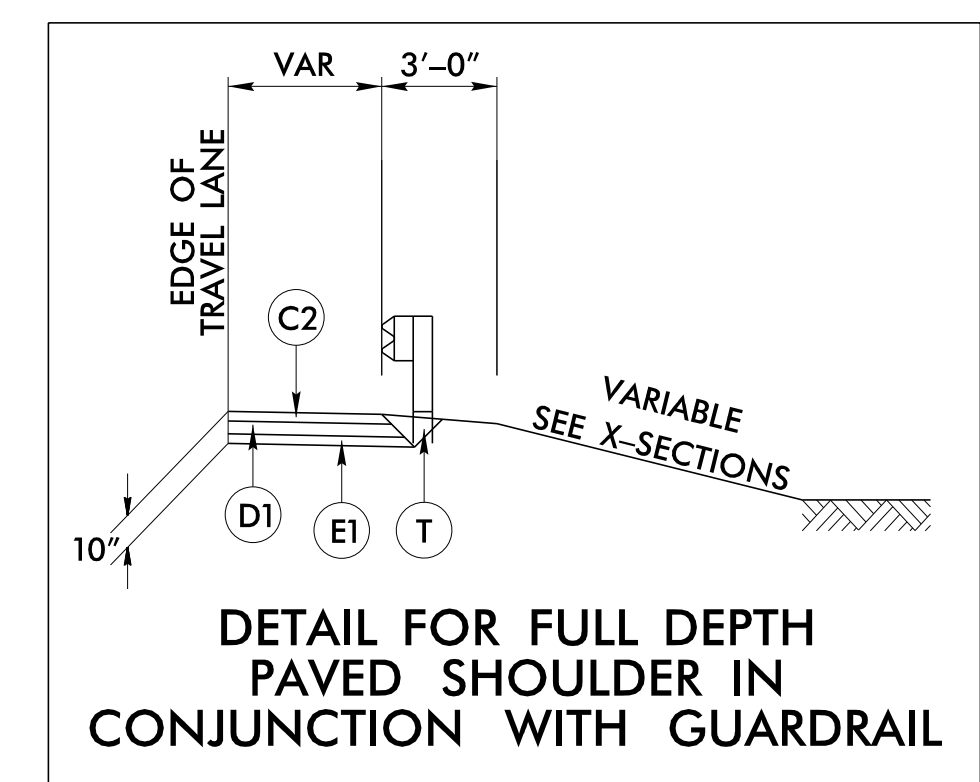


TYPICAL SECTION NO. 1

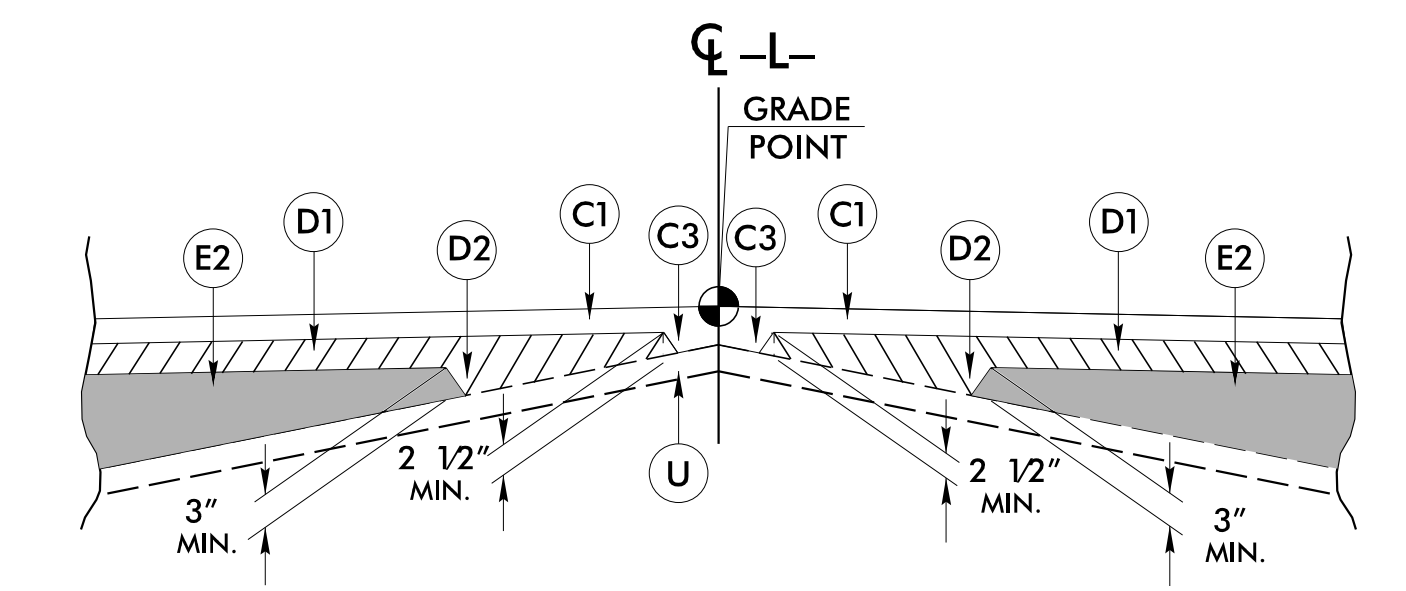
TRANSITION FROM EXISTING TO TYPICAL SECTION NO. 1:
 -L- STA 13+00.00 TO 13+50.00

USE TYPICAL SECTION NO. 1:
 -L- STA 13+50.00 TO 16+63.88 (BEGIN BRIDGE)
 -L- STA 19+50.00 TO 21+50.00

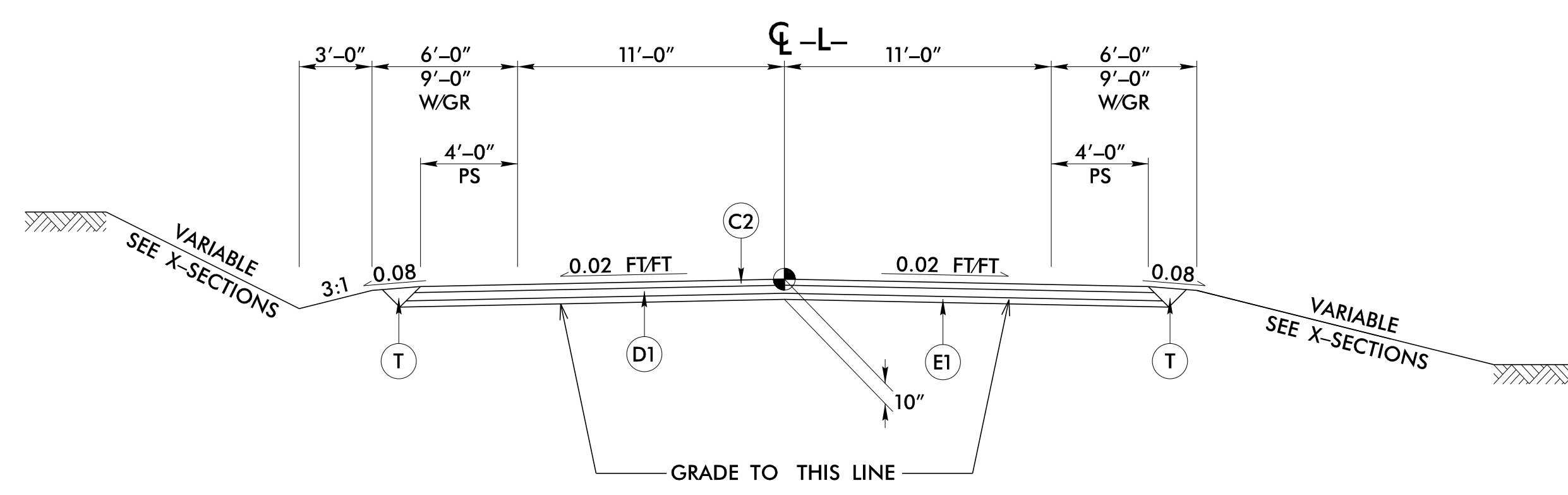
TRANSITION FROM TYPICAL SECTION NO. 1 TO EXISTING:
 -L- STA 21+50.00 TO 22+00.00



DETAIL FOR FULL DEPTH PAVED SHOULDER IN CONJUNCTION WITH GUARDRAIL

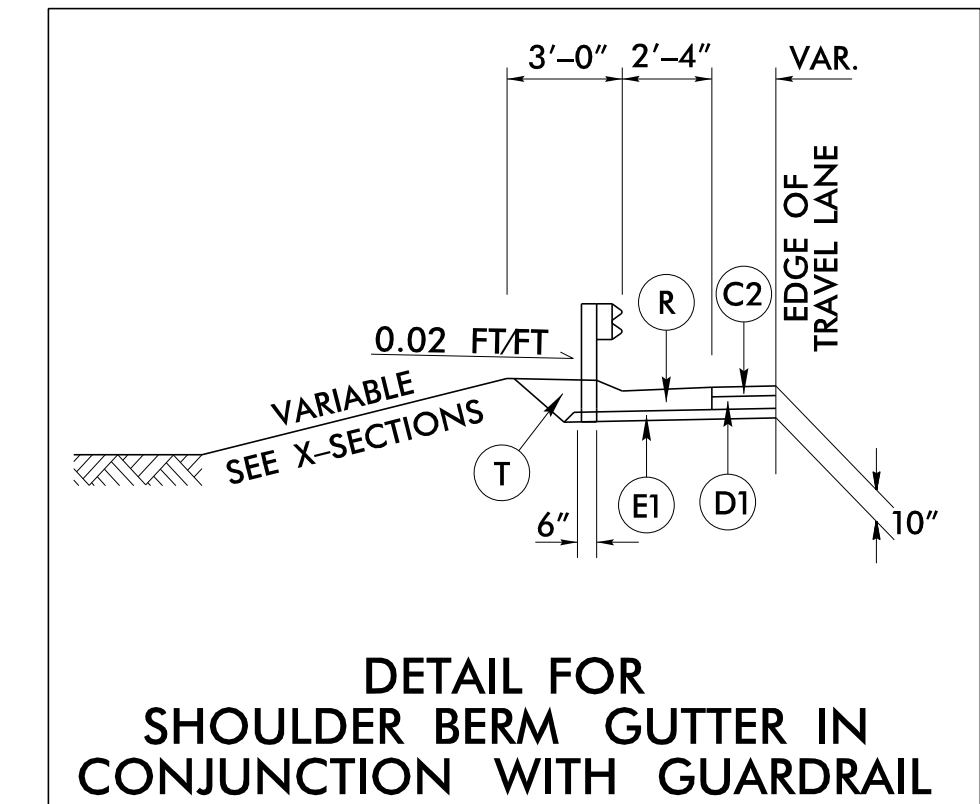


Detail Showing Method of Wedging



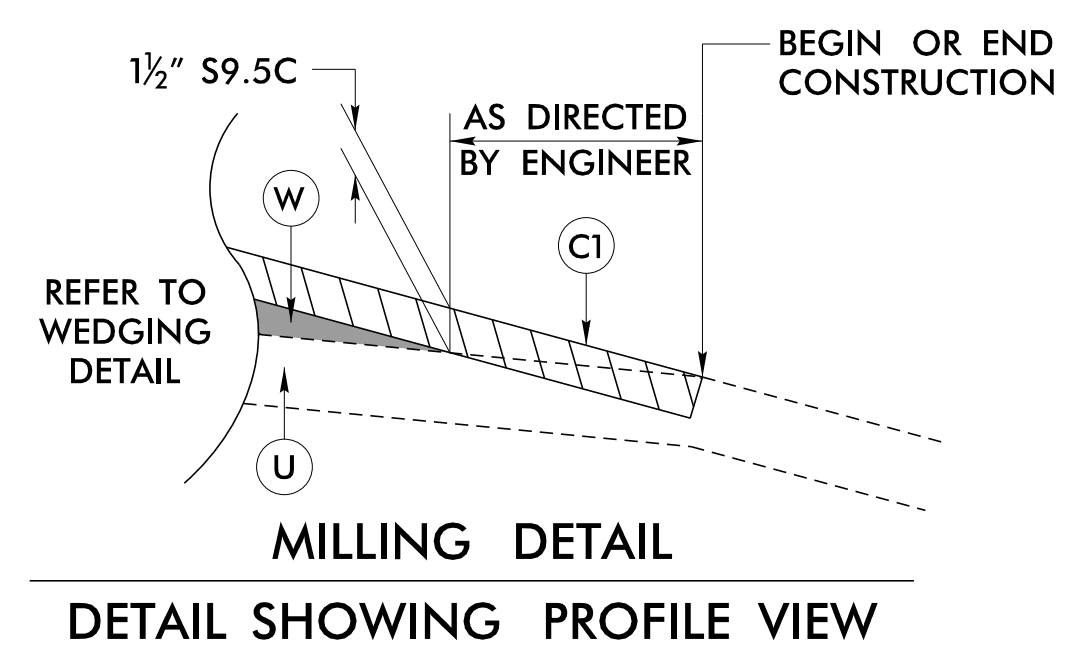
TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2:
 -L- STA 17+46.13 (END BRIDGE) TO 19+50.00



DETAIL FOR SHOULDER BERM GUTTER IN CONJUNCTION WITH GUARDRAIL

-L- STA 16+21.00 TO 16+53.00 LT
 -L- STA 17+57.00 TO 18+25.00 LT



**MILLING DETAIL
DETAIL SHOWING PROFILE VIEW**

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 1 1/2" IN DEPTH OR GREATER THAN 2" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 3" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5 1/2" IN DEPTH.
R	SHOULDER BERM GUTTER.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	WEDGING (SEE DETAIL SHOWING METHOD OF WEDGING).

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

TYPICAL SECTION NO. 3

USE TYPICAL SECTION NO. 3:
 -L- STA 16+63.88 (BEGIN BRIDGE) TO 17+46.13 (END BRIDGE)

USE TYPICAL SECTION NO. 3:
 -L- STA 16+63.88 (BEGIN BRIDGE) TO 17+46.13 (END BRIDGE)

NOTE: SEE STRUCTURE PLANS FOR PAVEMENT DEPTHS ON STRUCTURE

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"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			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOULDER WIDTH	FLARE LENGTH		W		ANCHORS							IMPACT ATTENUATOR TYPE 350			REMARKS							
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	AT-1	GREU TL-2	TYPE III									NO.	PERMITTED					
-L-	15+20.13	16+63.88	RT	143.75'			16+63.88 (BRIDGE)		6'	9'																						
-L-	13+45.13	16+63.88	LT	318.75'				16+63.88 (BRIDGE)	6'	9'																						
-L-	17+46.13	18+77.38	RT	131.25'				17+46.13 (BRIDGE)	6'	9'																						
-L-	17+46.13	18+52.38	LT	106.25'				17+46.13 (BRIDGE)	6'	9'																						
SUBTOTAL				700.00'																												
LESS ANCHOR DEDUCTIONS																																
			GREU TL-2 4 x 25.00'	=	-100.00'																											
			TYPE III 4 x 18.75'	=	-75.00'																											
TOTAL				525.00'																												5 ADDITIONAL GUARDRAIL POSTS

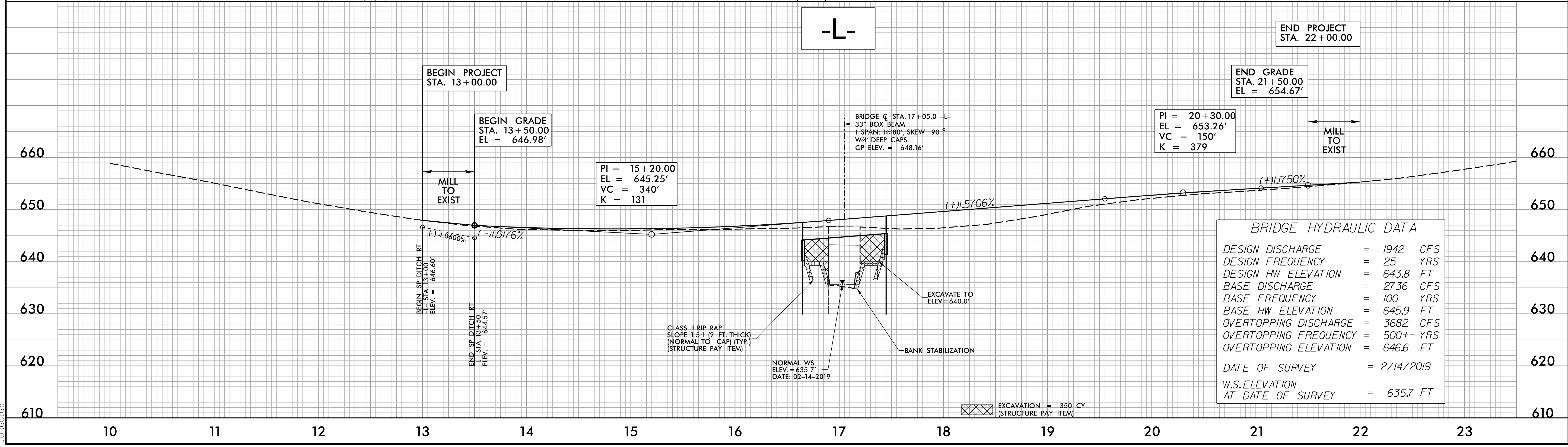
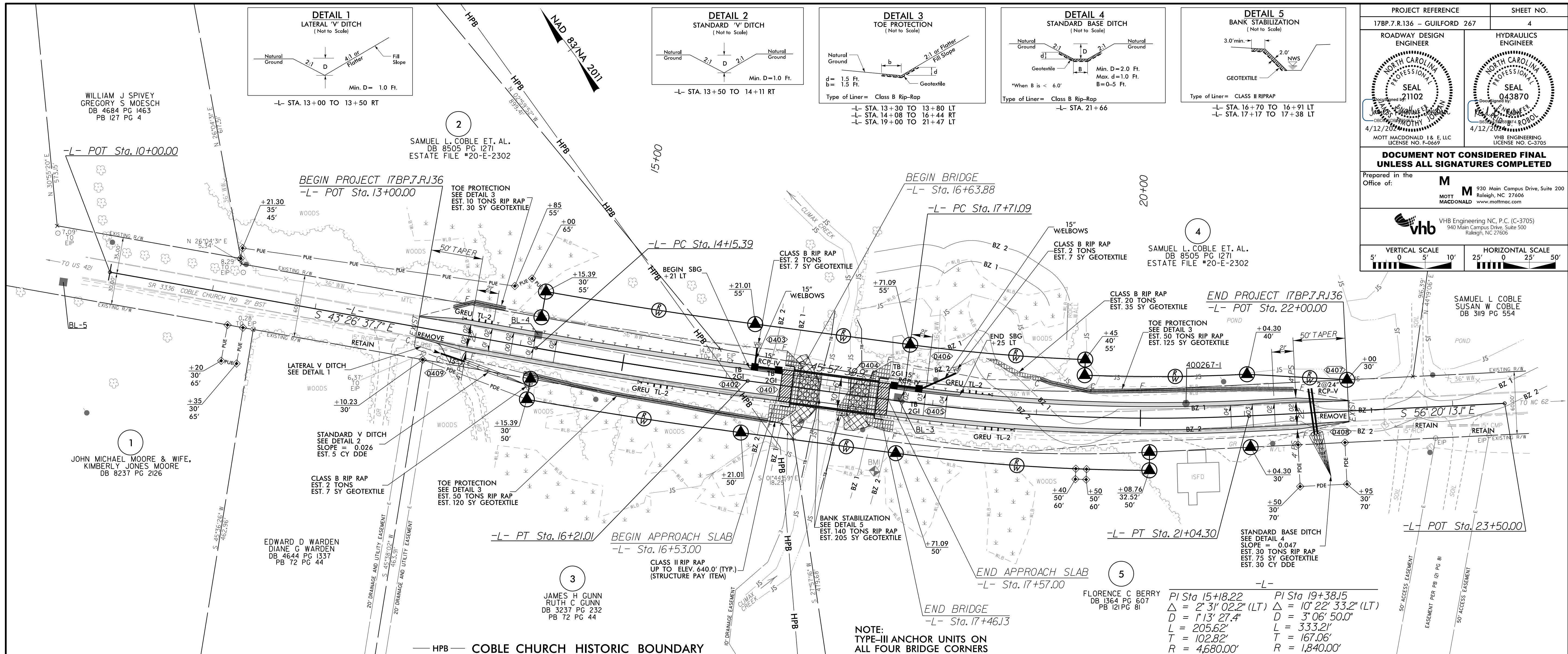
SUMMARY OF EARTHWORK IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
-L- 13+00.00 TO 16+63.88 (BEGIN BRIDGE)	19		1057	1038	
-L- 17+46.13 (END BRIDGE) TO 22+00.00	63		1373	1310	
SUBTOTAL	82		2025	2348	
WASTE IN LIEU OF BORROW					
PROJECT TOTAL	82			2348	
5% TO REPLACE BORROW				118	
GRAND TOTAL	82			2466	
SAY	90			2590	

SUMMARY OF SHOULDER BERM GUTTER

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	LENGTH
-L-	16+21.00	16+53.00	LT	32.00'
-L-	17+57.00	18+25.00	LT	68.00'
TOTAL:				100.00'
SAY:				105'

NOTE: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing and Removal of Existing Asphalt Pavement will be paid for at the contract Lump Sum price for "Grading".



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TIP PROJECT: 17BP.7.R.136

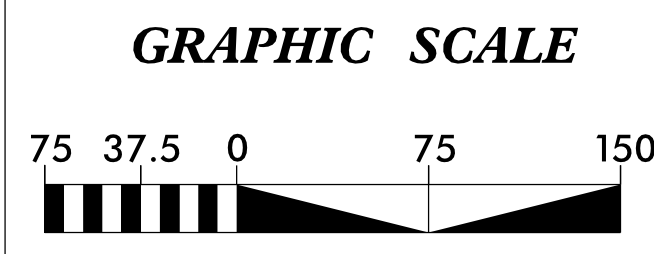
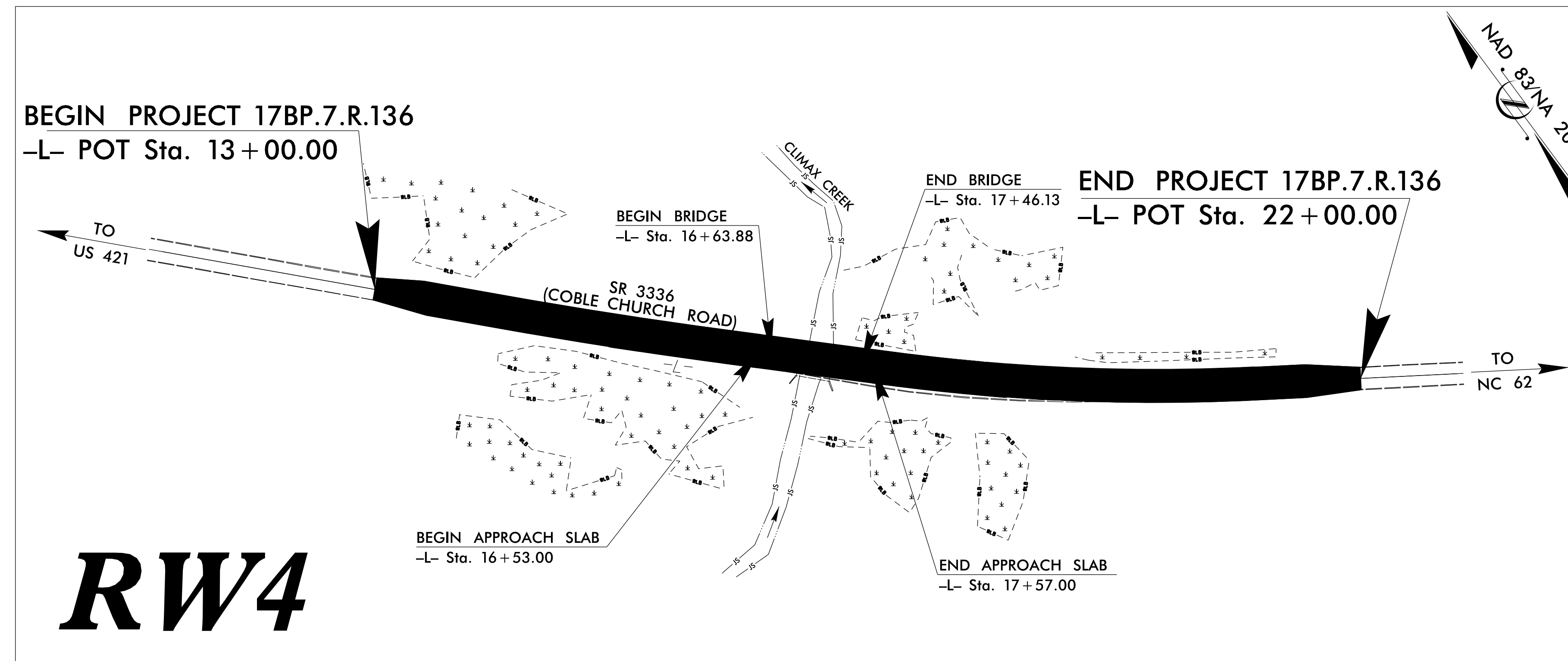
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	17BP.7.R.136	RW01	07

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

GUILFORD COUNTY

BRIDGE #267 OVER CLIMAX CREEK ON SR 3336 (COBLE CHURCH RD)



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "400267-1" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 806625.761(ft) EASTING: 1807791.669(ft) ELEVATION: 652.462(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999234679 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "400267-1" TO -L- STATION 13+00 IS N 47°50'29.8" W 471.16(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

DRMP
DRMP, INC.
N.C. LICENSE NUMBER: C-4923
8000 REGENCY PARKWAY, SUITE 110
CARY, NC 27518
PHONE: (919) 650 1038

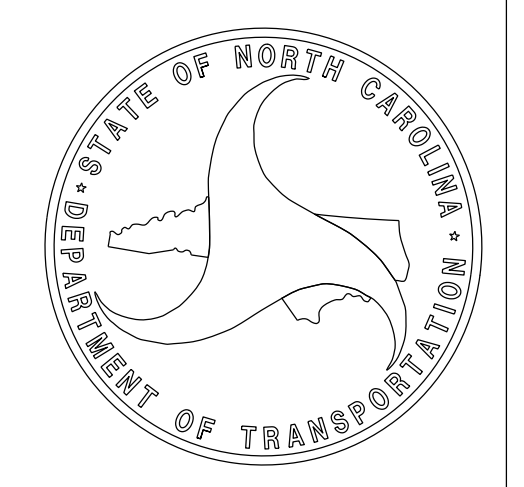
RIGHT OF WAY DATE: _____ **LETTING DATE:** _____

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROFESSIONAL LAND SURVEYOR

Steven C Bailey Digitally signed by Steven C Bailey
Date: 2022.06.10 10:34:13 -04'00'

SIGNATURE: _____ Date: _____



6/2/09

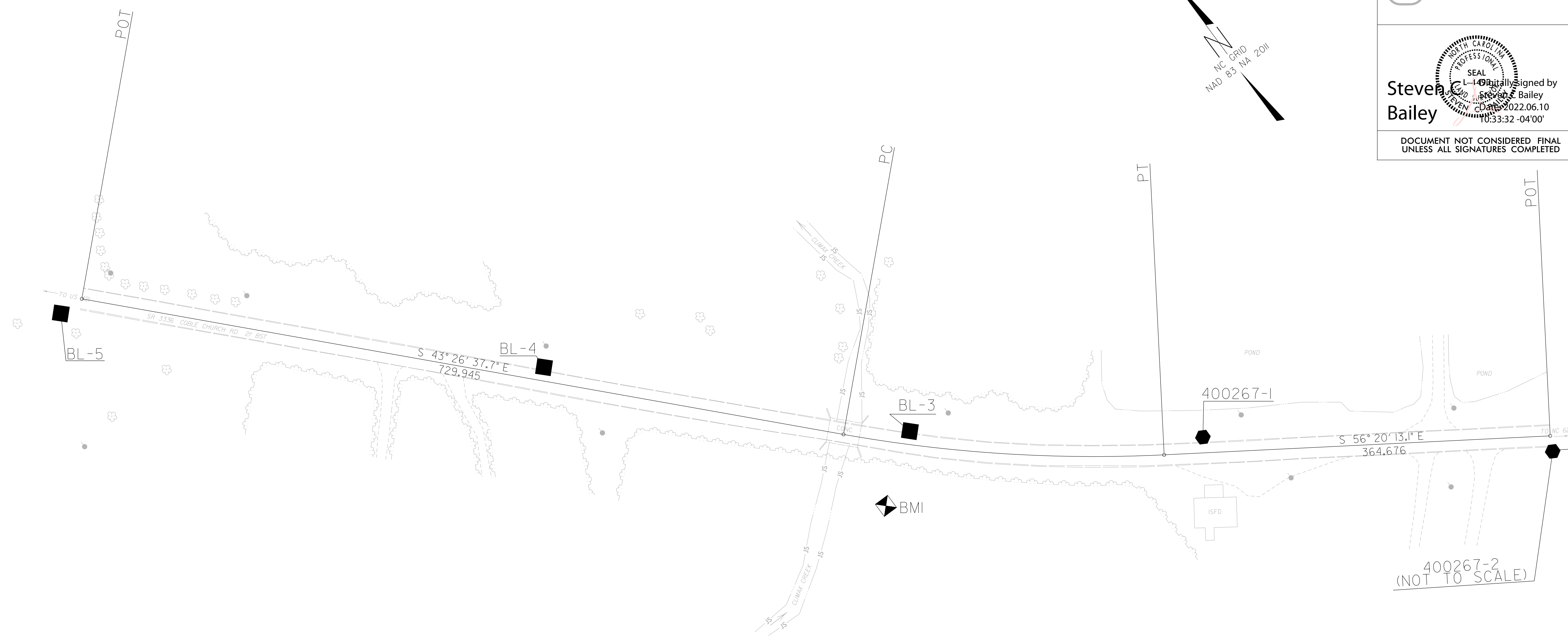
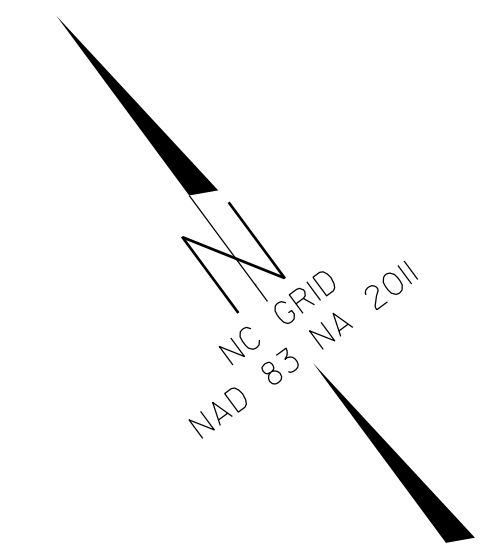
REVISIONS

10-JUN-2022 09:05 P:\Projects\2022\0431\027-D079p3_con-drm_LocationSurveys\RedLines\40-0267_Submittal\220609\DGNS\400267-1s_rw02c-1.dgm
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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. 17BP.7.R.136	SHEET NO. RW02C-1
Location and Surveys	
 Steven C Bailey Digitally signed by Steven C Bailey Date: 2022.06.10 10:33:32 -04'00'	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



I, STEVEN C BAILEY, PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: AA
 Type of GPS field procedure: RTN
 Dates of survey: 05/12-16/2022
 Datum/Epoch: NAD83/2011
 Published/Fixed-control use: N/A
 Localized around: 400267-1
 Northing: 806625.761
 Easting: 1807791.669
 Combined grid factor: 0.9999234679
 Geoid model: GEOID12
 Units: US FOOT

I also certify that the Baseline Control for this project was verified under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 05/12/2022 to 05/16/2022, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 10th day of June, 2022.

Professional Land Surveyor L-4493

Steven C Bailey
 Digitally signed by Steven C Bailey
 Date: 2022.06.10 10:33:02 -04'00'

SEE SHEET RW02C-2 FOR FURTHER ALIGNMENT DETAILS

NOTES:

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

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

Location and Surveys



PROJECT SURVEYOR

Digitally signed by
Steven C Bailey
Date: 2022.06.10
10:30:48 -04'00'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT LINE	807359.391	1807018.569	S 43°26'37.7" E	729.94					
PC CURVE	806829.415	1807520.511	S 49°53'25.4" E	303.15	12°53'35.4"(LT)	04°14'38.9"	303.79	152.54	1350.00
PT LINE	806634.111	1807752.362	S 56°20'13.1" E	364.68					
POT	806431.969	1808055.886							

BL POINT	DESC.	NORTH	EAST	ELEVATION
5	BL - 5	807360.0640	1806994.3860	658.93
4	BL - 4	807048.3470	1807330.9160	645.61
3	BL - 3	806794.6570	1807572.6700	646.01
1	400267 - 1	806625.7610	1807791.6690	652.46
2	400267 - 2	806198.1210	1808380.9140	672.91

 BM1 ELEVATION = 641.83
 N 806751 E 1807513
 EL STATION 17+79.00 60 RIGHT
 BENCH TIE NAIL SET IN 15" MAPLE TREE

I, STEVEN C BAILEY, PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: AA
 Type of GPS field procedure: RTN
 Dates of survey: 05/12-16/2022
 Datum/Epoch: NAD83/2011
 Published/Fixed-control use: N/A
 Localized around: 400267-1
 Northing: 806625.761
 Easting: 1807791.669
 Combined grid factor: 0.9999234679
 Geoid model: GEOID12
 Units: US FOOT

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 05/12/2022 to 05/16/2022, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 10th day of June, 2022.

Professional Land Surveyor L-4493


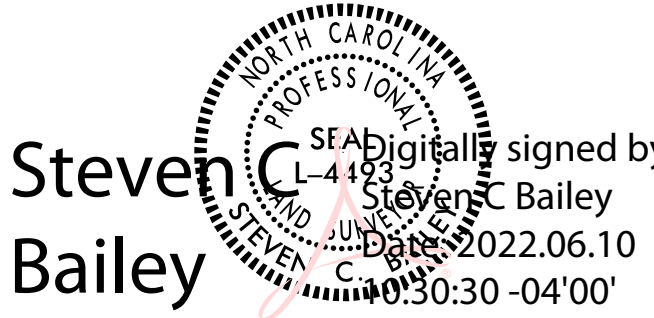
Steven C Bailey
 Digitally signed by Steven C Bailey
 Date: 2022.06.10 10:30:48 -04'00'

NOTES:

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

REVISIONS

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO. 17.BP.7.R.136	SHEET NO. RW02D-1
Location and Surveys	
	
	
Digitally signed by Steven C Bailey Date: 2022.06.10 10:30:30 -04'00'	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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

This 10th day of June, 2022.

Professional Land Surveyor L-4493

Steven C Bailey
 Digitally signed by Steven C Bailey
 Date: 2022.06.10 10:30:16 -04'00'

TYPE	STATION	NORTH	EAST
POT	10+00.00	807341.0319	1807035.9571
PC	14+15.39	807039.4361	1807321.5991
PT	16+21.01	806893.3029	1807466.2222
PC	17+71.09	806788.9766	1807574.1086
PT	21+04.30	806580.2391	1807833.2533
POT	23+50.00	806444.0450	1808037.7536


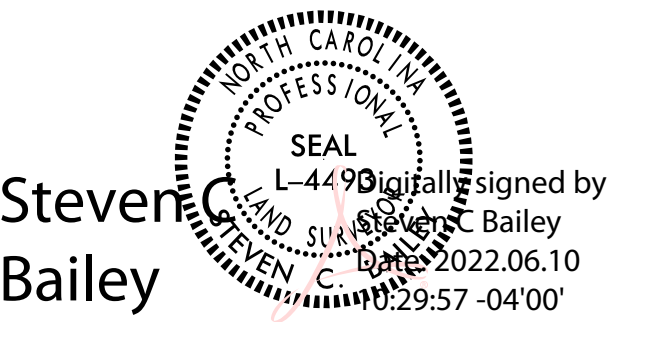
REVISIONS

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NOTES:

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

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. 17BP.7.R.136	SHEET NO. RW03E-1
Location and Surveys	
	
	
Digitally signed by Steven C Bailey Date: 2022.06.10 10:29:44 -04'00'	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, STEVEN C BAILEY, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 05/12/2022 to 05/16/2022, and all coordinates are based on NAD83/2011; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 10th day of June, 2022.

Professional Land Surveyor L-4493

Steven C Bailey

Digitally signed by Steven C Bailey
Date: 2022.06.10 10:29:44 -04'00'

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	14+15.39	50.00	807005.0540	1807285.2966
L	14+15.39	-55.00	807077.2565	1807361.5318
L	14+15.39	30.00	807018.8068	1807299.8176
L	14+15.39	-30.00	807060.0654	1807343.3806
L	16+21.01	-55.00	806932.8407	1807504.4553
L	16+21.01	50.00	806857.3596	1807431.4649
L	17+71.09	50.00	806753.0332	1807539.3513
L	17+71.09	-55.00	806828.5143	1807612.3417
L	19+45.00	-55.00	806717.1345	1807738.9836
L	19+45.00	-40.00	806705.4155	1807729.6207
L	20+08.76	50.00	806595.1159	1807725.3079
L	20+08.76	32.52	806609.1393	1807735.7370
L	21+04.30	30.00	806555.2698	1807816.6240
L	21+04.30	-40.00	806613.5316	1807855.4256
L	22+00.00	-30.00	806552.1604	1807929.5360

REVISIONS

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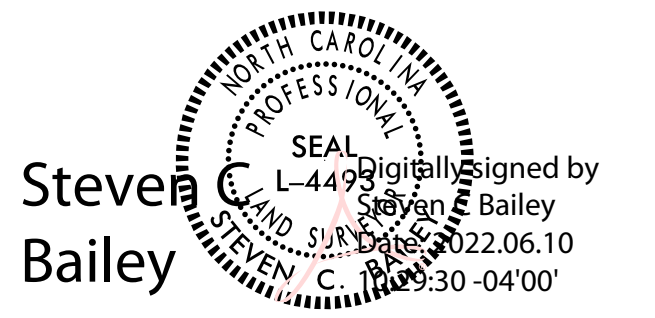
NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 05/12/2022 TO 05/16/2022 .

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
17BP.7.R.136	RW03E-2

Location and Surveys



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

I, STEVEN C BAILEY, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 05/12/2022 to 05/16/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 10th day of June, 2022.

Professional Land Surveyor L-4493

Steven C Bailey
Digitally signed by Steven C Bailey
Date: 2022.06.10 10:29:16 -04'00'

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	11+20.00	65.00	807209.2092	1807071.2810
L	11+20.00	30.00	807233.2767	1807096.6927
L	11+21.30	-35.00	807277.0298	1807144.7797
L	11+21.30	-45.00	807283.9062	1807152.0402
L	11+35.00	65.00	807198.3185	1807081.5957
L	11+35.00	30.00	807222.3860	1807107.0074
L	13+10.23	30.00	807095.1600	1807227.5033
L	13+85.00	-55.00	807099.3233	1807340.6323
L	14+00.00	-65.00	807095.3090	1807358.2074
L	19+40.00	50.00	806638.3129	1807669.4346
L	19+40.00	60.00	806630.5172	1807663.1714
L	19+50.00	50.00	806631.9013	1807677.4596
L	19+50.00	59.99	806624.0827	1807671.2476
L	21+50.00	70.00	806496.6446	1807832.4897
L	21+50.00	30.00	806529.9371	1807854.6620
L	21+95.00	70.00	806471.7008	1807869.9437
L	21+95.00	30.00	806504.9933	1807892.1160

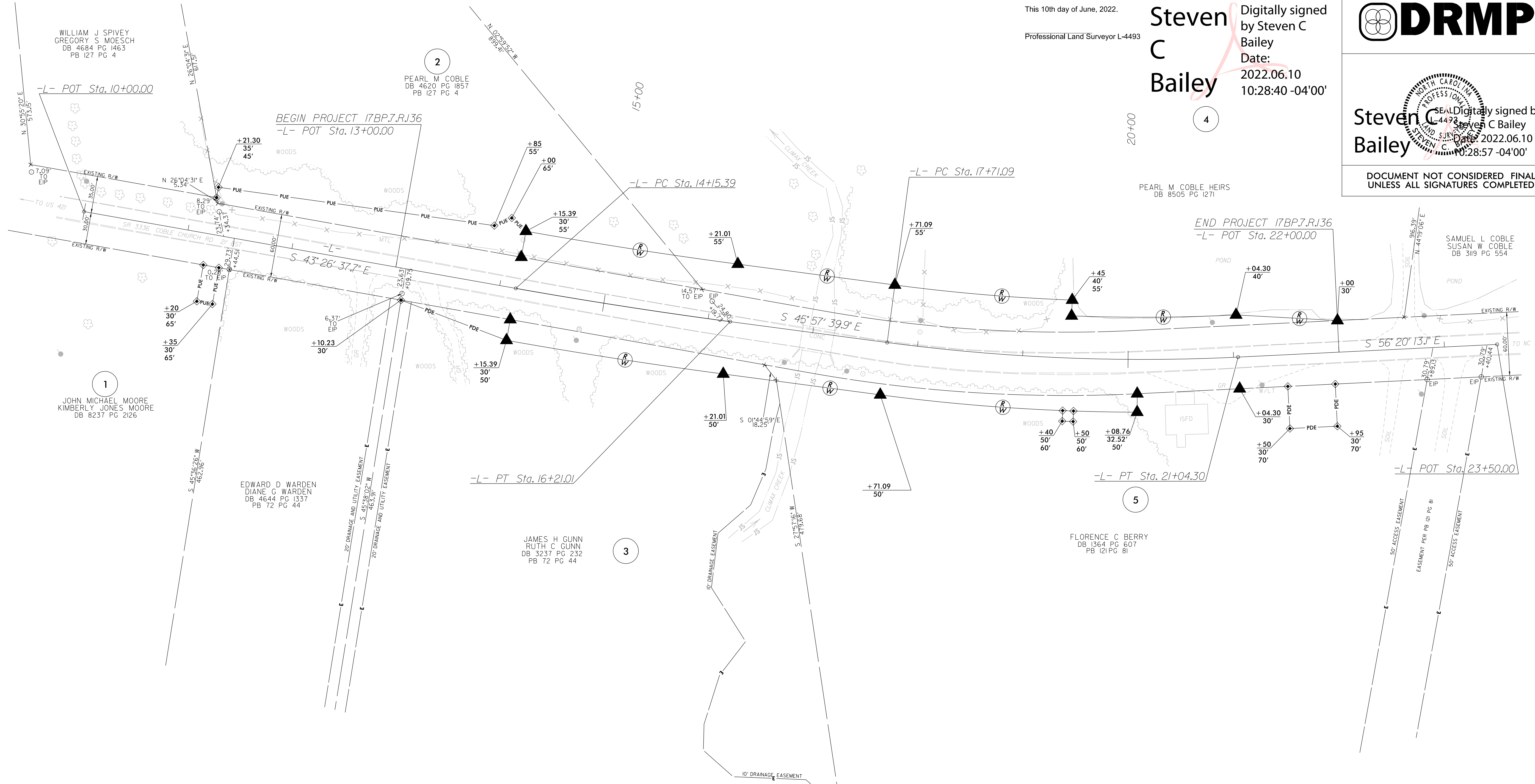
REVISIONS

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NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 05/12/2022 TO 05/16/2022 .

REVISIONS



WILLIAM J SPIVEY
GREGORY S MOESCH
DB 4684 PG 1463
PB 127 PG 4

2
PEARL M COBLE
DB 4620 PG 1857
PB 127 PG 4

1
JOHN MICHAEL MOORE
KIMBERLY JONES MOORE
DB 8237 PG 2126

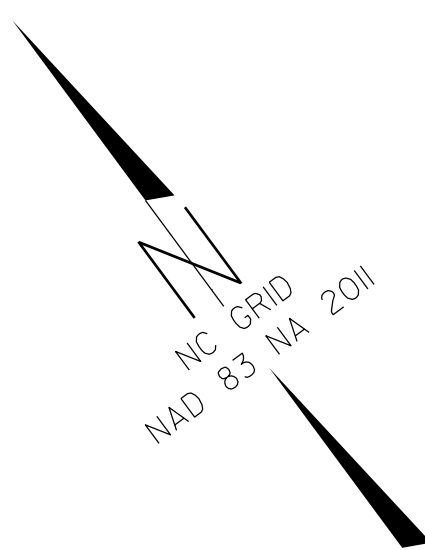
EDWARD D WARDEN
DIANE G WARDEN
DB 4644 PG 1337
PB 72 PG 44

3
JAMES H GUNN
RUTH C GUNN
DB 3237 PG 232
PB 72 PG 44

5
FLORENCE C BERRY
DB 1364 PG 607
PB 121 PG 81

PEARL M COBLE HEIRS
DB 8505 PG 1271

SAMUEL L COBLE
SUSAN W COBLE
DB 3119 PG 554



I, STEVEN C BAILEY, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 05/12/2022 to 05/16/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 10th day of June, 2022.

Professional Land Surveyor L-4493

Steven C Bailey
Digitally signed by Steven C Bailey
Date: 2022.06.10 10:28:40 -04'00'

PROJECT REFERENCE NO. 17BP.7.R.136	SHEET NO. RW04
Location and Surveys	
 Digitally signed by Steven C Bailey Date: 2022.06.10 10:28:57 -04'00'	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

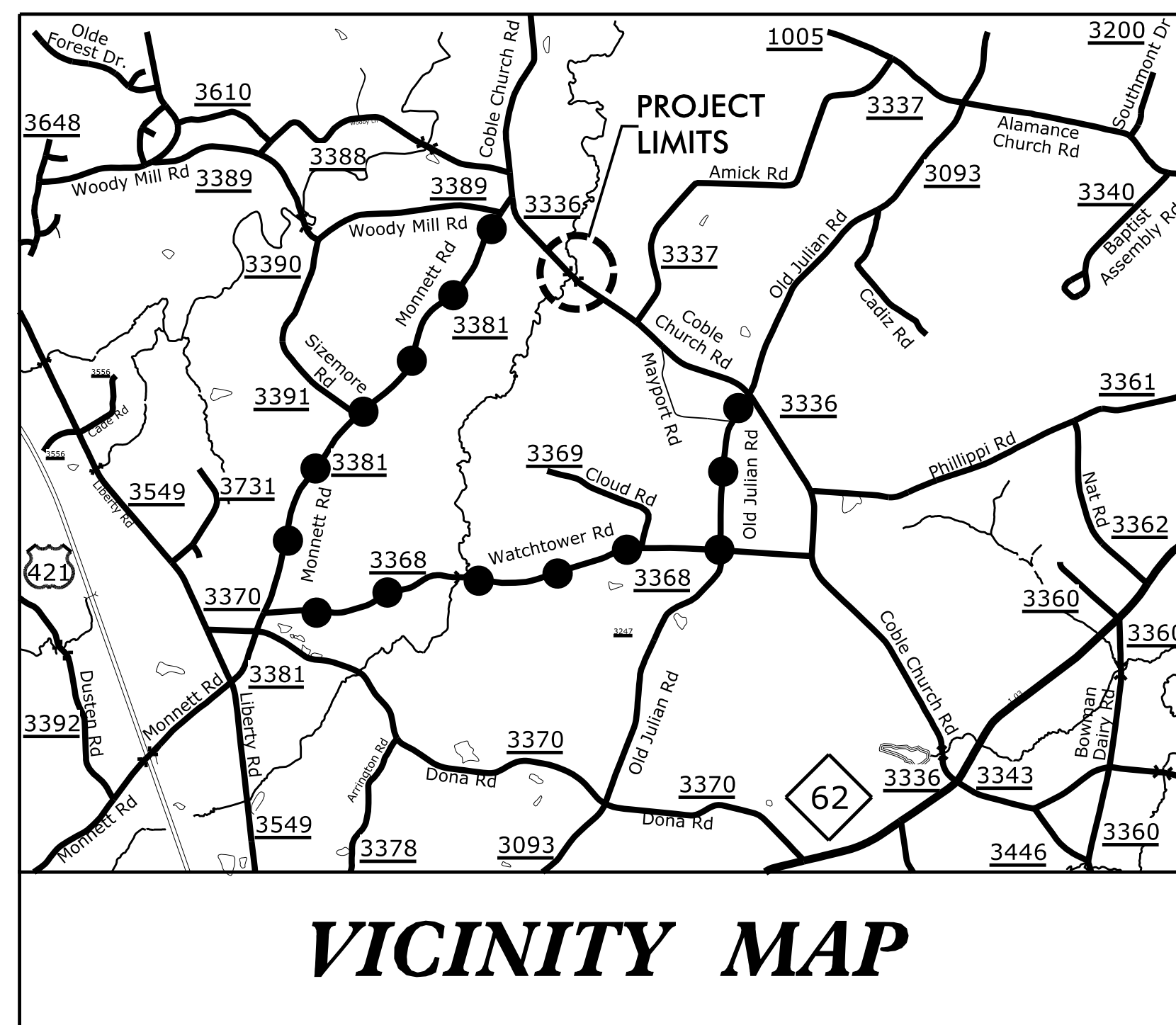
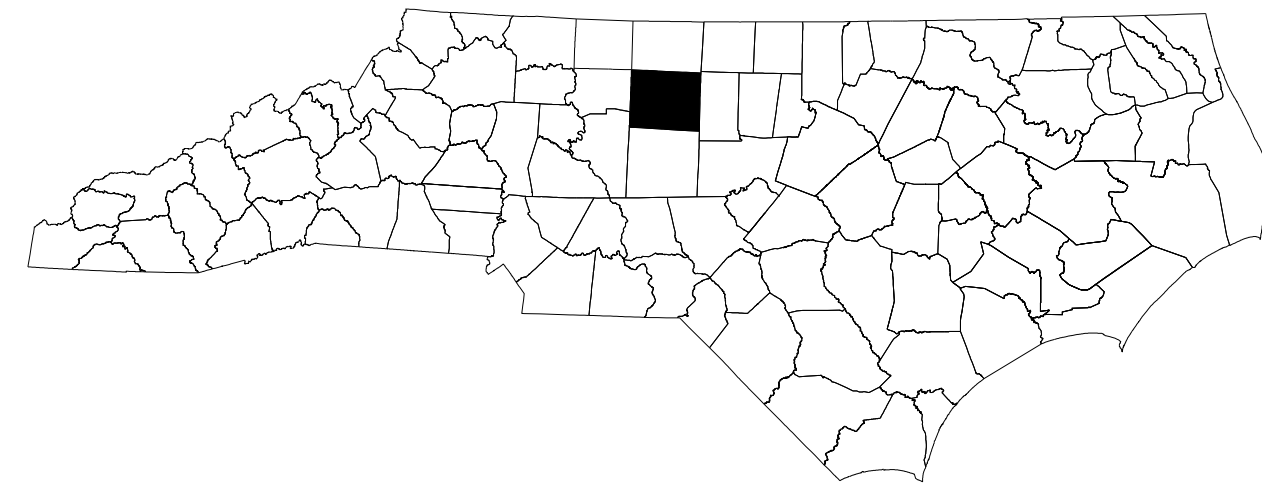
NOTES:

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3. RIGHT OF WAY MONUMENTATION ESTABLISHED 05/12/2022 TO 05/16/2022.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

GUILFORD COUNTY



LOCATION: BRIDGE NO. 267 OVER CLIMAX CREEK ON SR 3336 (COBLE CHURCH RD)
TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURES

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-2	TRANSPORTATION OPERATIONS PLAN: MANAGEMENT STRATEGY, GENERAL NOTES, LOCAL NOTES AND PHASING
TMP-3	DETOUR FOR COBLE CHURCH ROAD CLOSURE
TMP-4	ROAD CLOSURE SIGNS, DETOUR SIGNS AND SIGN DESIGN

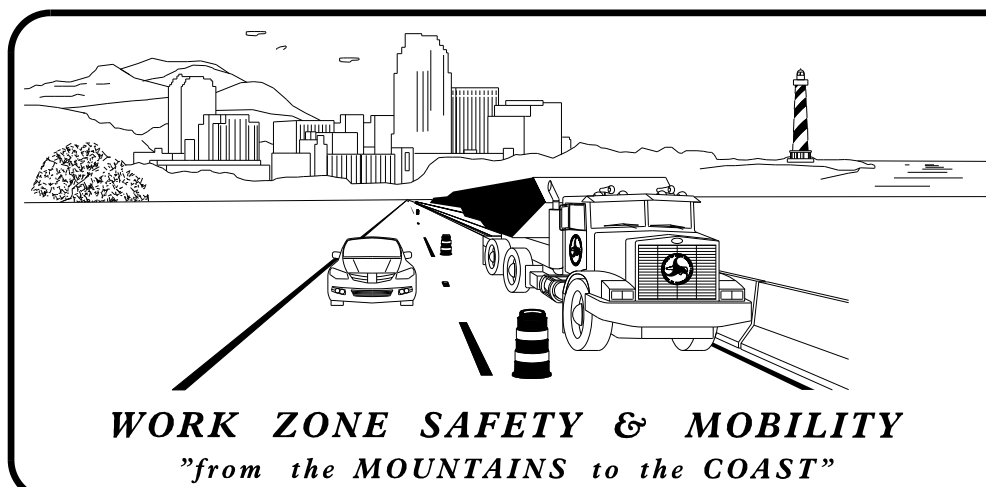
SHEET NO.

TMP-1

17BP.7.R.136

PROJECT:

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



PLANS PREPARED BY:

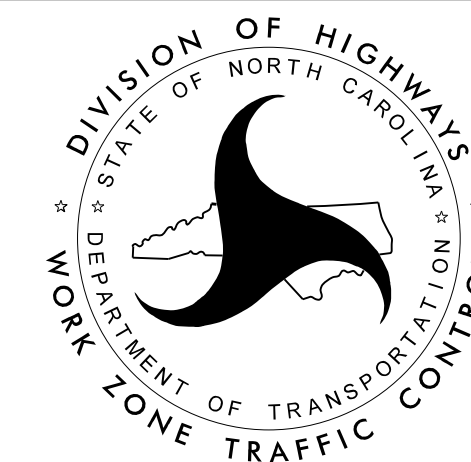
M. RZEPKA, P.E.
PROJECT ENGINEER

E. CARRON
PROJECT DESIGN ENGINEER

NCDOT CONTACTS:

T. POWERS, P.E.
DIV. 9 BRIDGE PROGRAM MANAGER

PROJECT DESIGN ENGINEER



555 Fayetteville St.,
Suite 900
Raleigh, NC 27601

APPROVED: *Mike Rzepka*

DATE: 4/11/2024

SEAL




ROADWAY STANDARD DRAWINGS

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

<u>STD. NO.</u>	<u>TITLE</u>
1101.03	TEMPORARY ROAD CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1145.01	BARRICADES

LEGEND


GENERAL

 NORTH ARROW

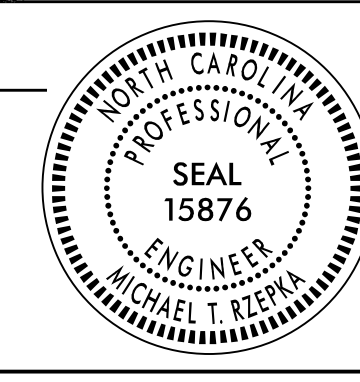

TRAFFIC CONTROL DEVICES

 BARRICADE (TYPE III)

TEMPORARY SIGNING

 STATIONARY SIGN

PLOT DRIVER: NCDOT_pdf_color_eng_50.plt
 USER: CHARNDEN
 FILE: p:\p\p\h\p\uses\01\HDE_US_East_01\Documents\5705\10140684\6.0.CAD.BIM\6.2.WIP\17BP.7.R.136.Bridge #267\TrafficControl\TCP\17BP.7.R.136.tmp.ftitle_1a.dgn
 PENTABLE: NCDOT_tcp.tbl
 TIME: 11:44:40 PM

APPROVED: <u>Mike Ryzpka</u> DATE: <u>4/11/2024</u>			<p>ROADWAY STANDARD DRAWINGS & LEGEND</p>
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>			

MANAGEMENT STRATEGY

THIS PROJECT CONSISTS OF REPLACING BRIDGE NO. 267 OVER CLIMAX CREEK ON SR 3336 (COBLE CHURCH RD) DURING CONSTRUCTION. SR 3336 (COBLE CHURCH RD) WILL BE CLOSED AT THE CONSTRUCTION LIMITS AND TRAFFIC WILL BE PLACED ON AN OFF-SITE DETOUR ALONG SR 3381 (MONNETT RD), SR 3368 (WATCHTOWER RD) AND SR 3093 (OLD JULIAN RD).

SR 3336 (COBLE CHURCH RD) WILL BE REOPENED TO 2-LANE/2-WAY TRAFFIC UPON COMPLETION OF CONSTRUCTION.

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED 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.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- B) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

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

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

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

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

TRAFFIC CONTROL DEVICES

- E) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

LOCAL NOTES

- 1) MAINTAIN ACCESS TO ALL RESIDENCES AND BUSINESSES BETWEEN THE CLOSURE POINTS AT ALL TIMES DURING CONSTRUCTION.

PHASING

STEP 1

USING ROADWAY STANDARD DRAWING 1101.03 (SHEET 1 OF 9), INSTALL ROAD CLOSURE AND DETOUR SIGNS. CLOSE COBLE CHURCH RD AND DETOUR TRAFFIC (SEE LOCAL NOTE 1).

STEP 2

REMOVE EXISTING BRIDGE.

STEP 3

CONSTRUCT PROPOSED STRUCTURE AND ROADWAY.

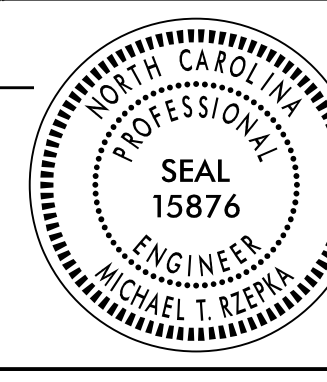
STEP 4

PLACE FINAL PAVEMENT MARKINGS AND MARKERS ON SR 3336 (COBLE CHURCH RD.) AND OPEN ROAD TO TRAFFIC.

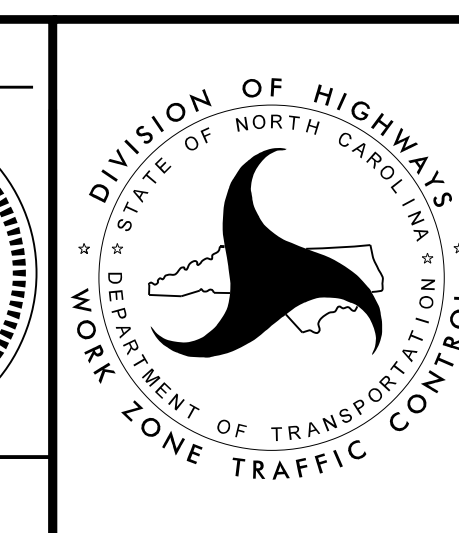
STEP 5

REMOVE ALL WORK ZONE TRAFFIC CONTROL DEVICES.

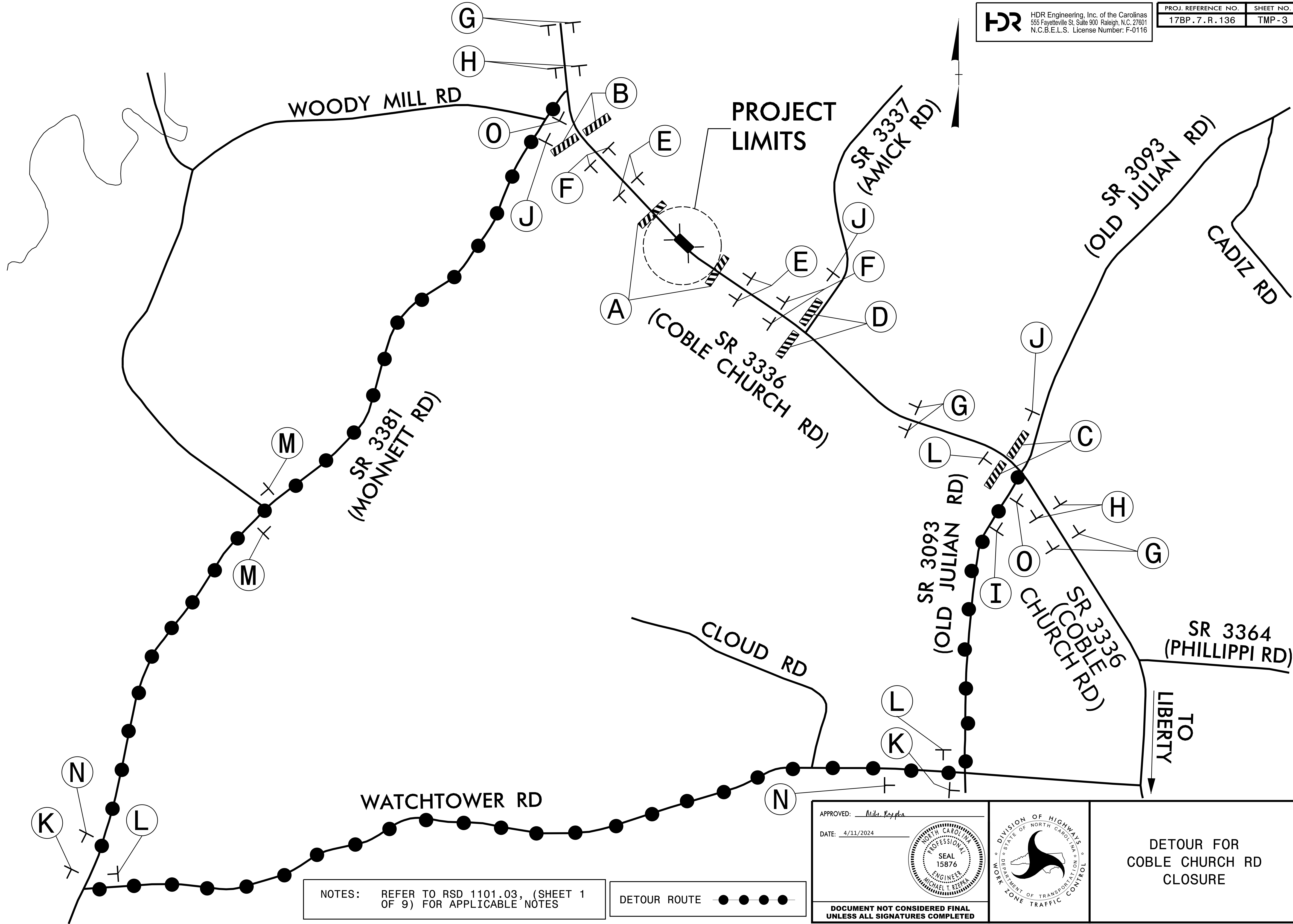
APPROVED: Mike Ryjpla
 DATE: 4/11/2024



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



**TRANSPORTATION
 OPERATIONS
 PLAN**



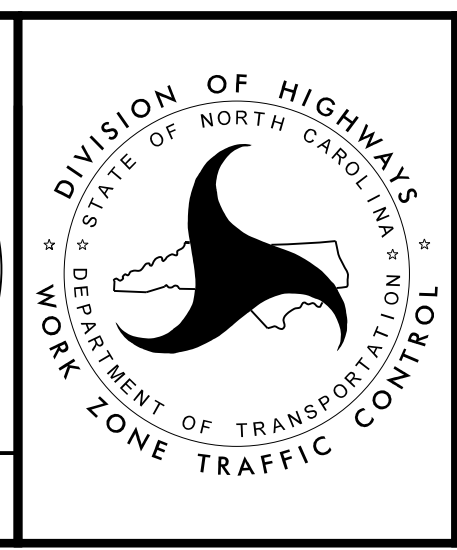
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NOTES: REFER TO RSD 1101.03, (SHEET 1 OF 9) FOR APPLICABLE NOTES

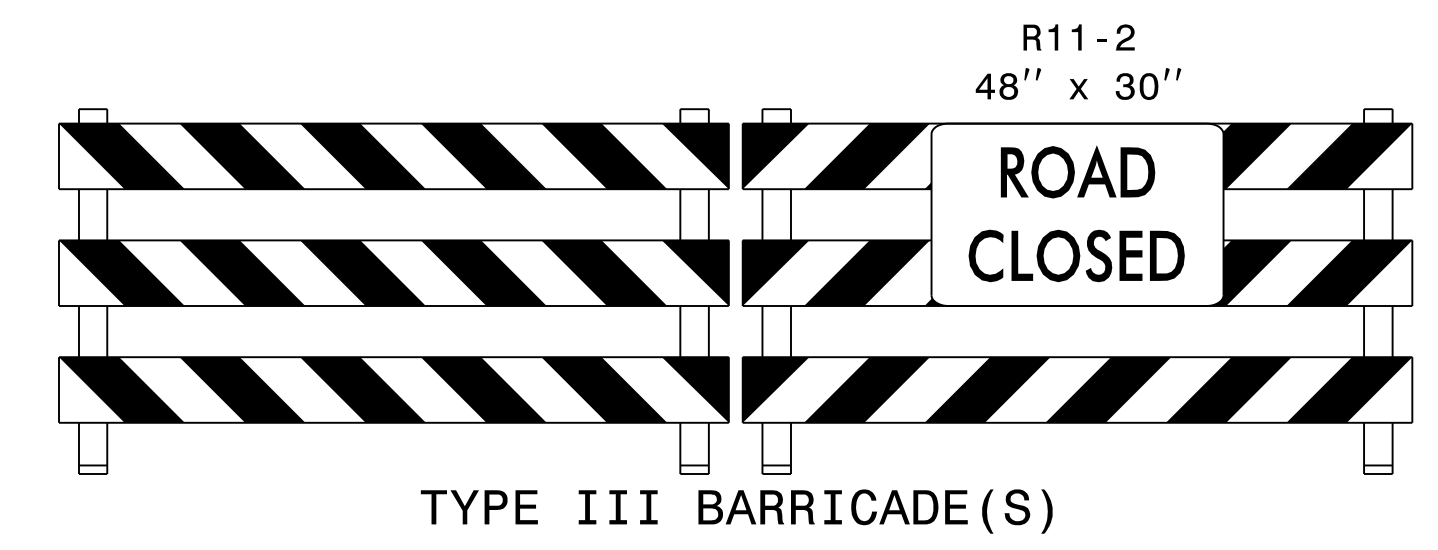
DETOUR ROUTE

APPROVED: *Mike Reynolds*
 DATE: 4/11/2024

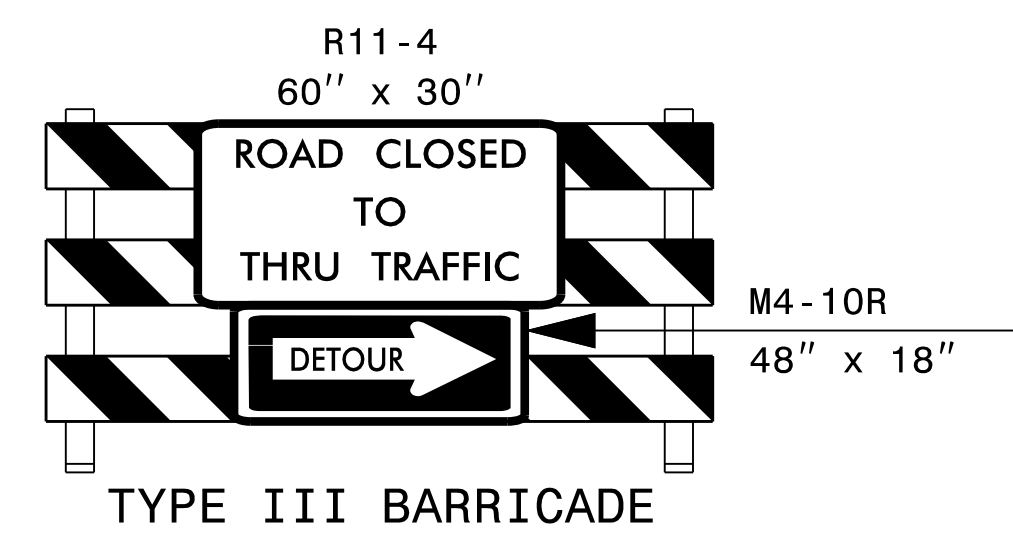
**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



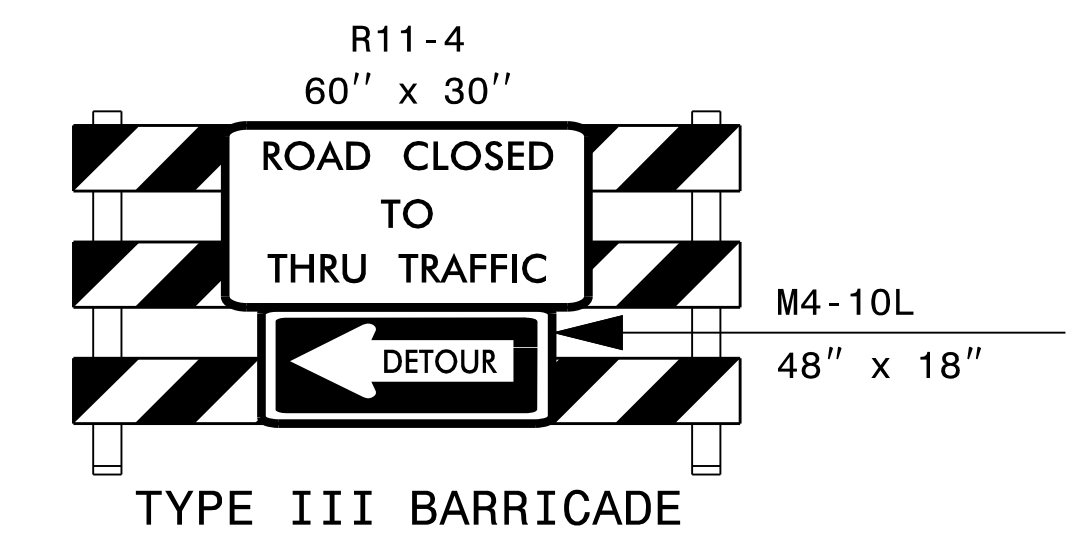
**DETOUR FOR
 COBLE CHURCH RD
 CLOSURE**



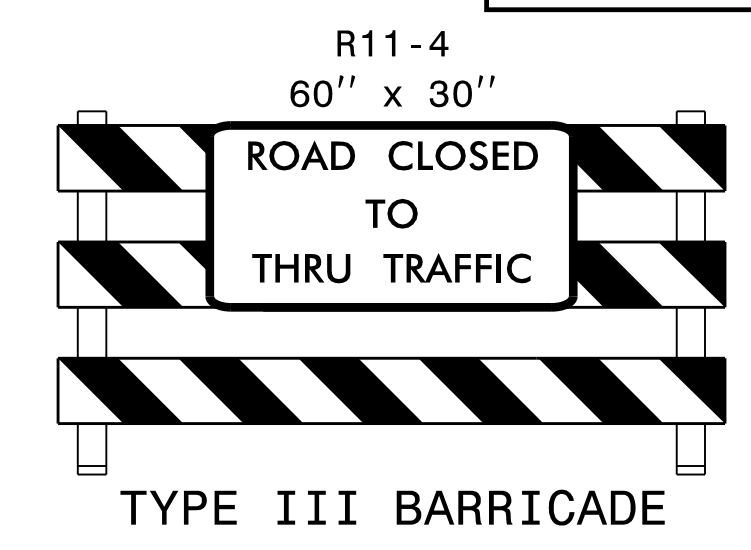
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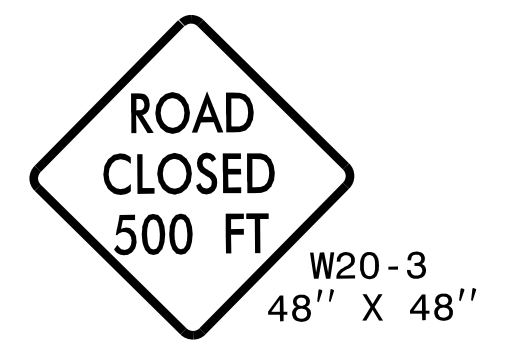
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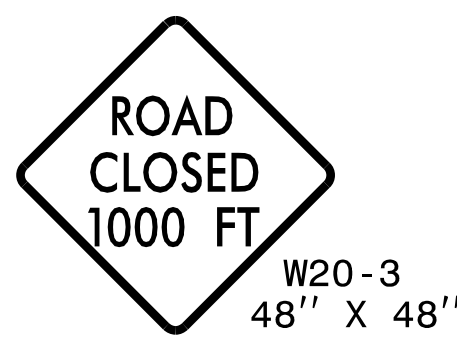
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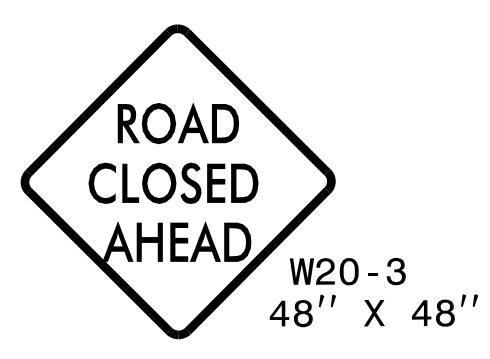
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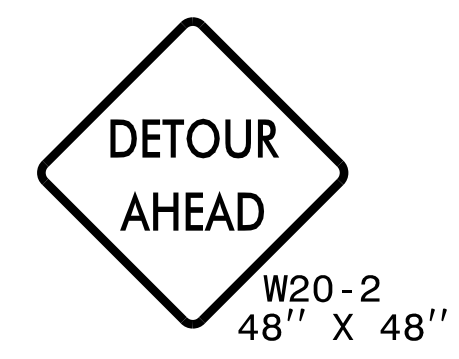
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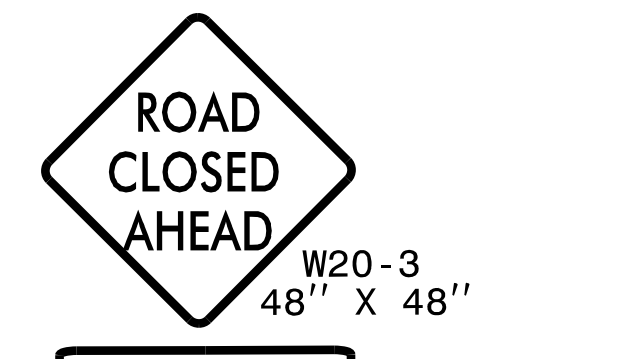
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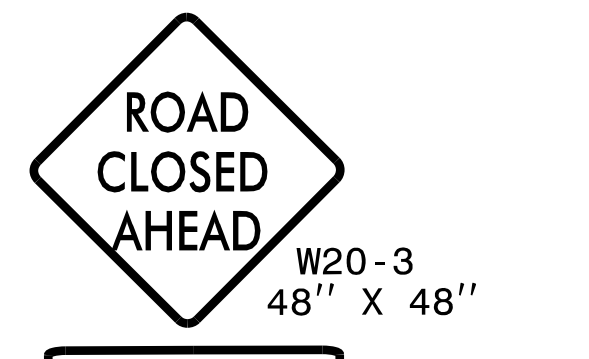
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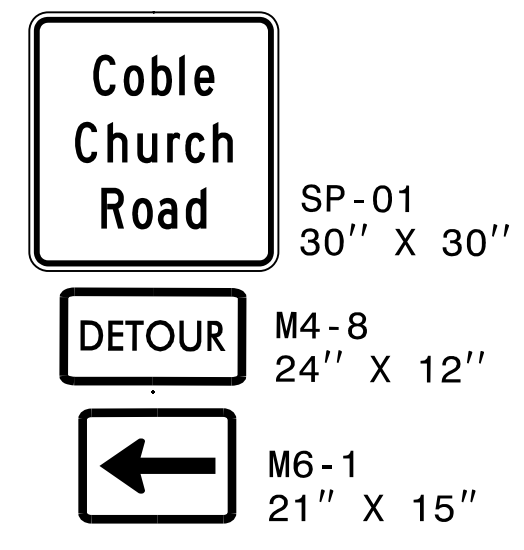
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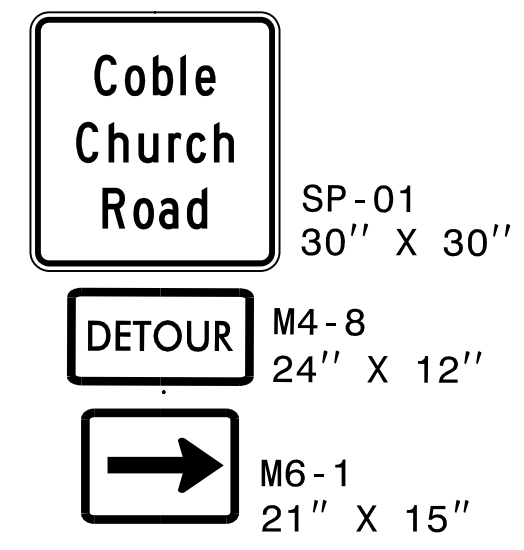
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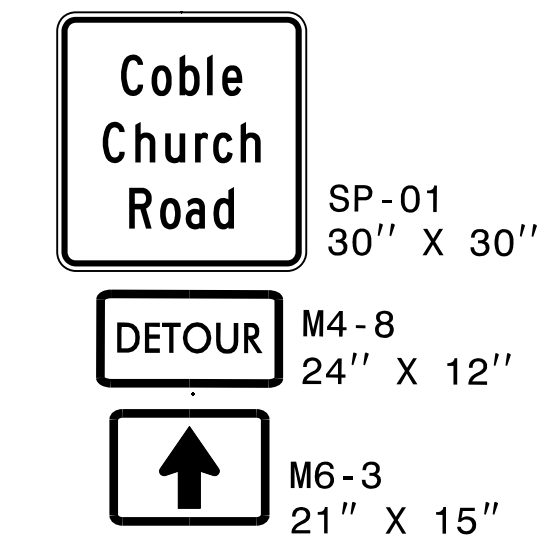
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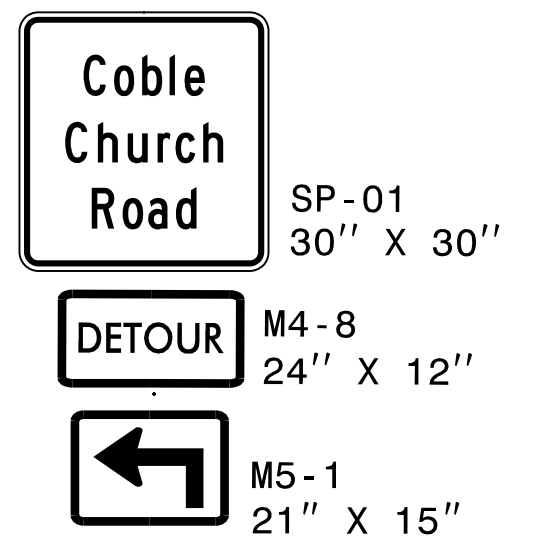
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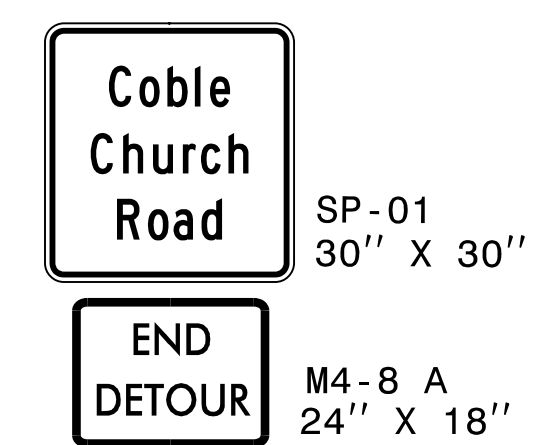
(L)



(M)



(N)



(O)

SIGN NUMBER: SP-01 TYPE: STATIONARY QUANTITY: SEE PLANS SIGN WIDTH: 2'-6" HEIGHT: 2'-6" TOTAL AREA: 6.3 Sq.Ft. BORDER TYPE: RECESSED RECESS: 0.5" WIDTH: 0.75" RADII: 1.88" MAT'L: 0.080" (2.0 mm) ALUMINUM	BACKG COLOR: Fluorescent Orange COPY COLOR: Black	DESIGN BY: RCD PROJECT ID: 17BP.7.R.136	CHECKED BY: MR Apr 30, 2021 DIV: 7
---	--	--	--

BORDER
R=1.88"
TH=0.75"
IN=0.5"

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

	c	o	b	l	e							Series/Size
	7.9	3.5	3.3	3.3	1.4	2.6	7.9					C 2000
												14.2
	5.9	3.7	3.3	3.5	2	3.1	2.6	5.9				C 2000
												18.2
	8.9	3.4	3	3.1	2.6	8.9						C 2000
												12.1

FILENAME: 17BP.7.R.136_tmp_detour_4

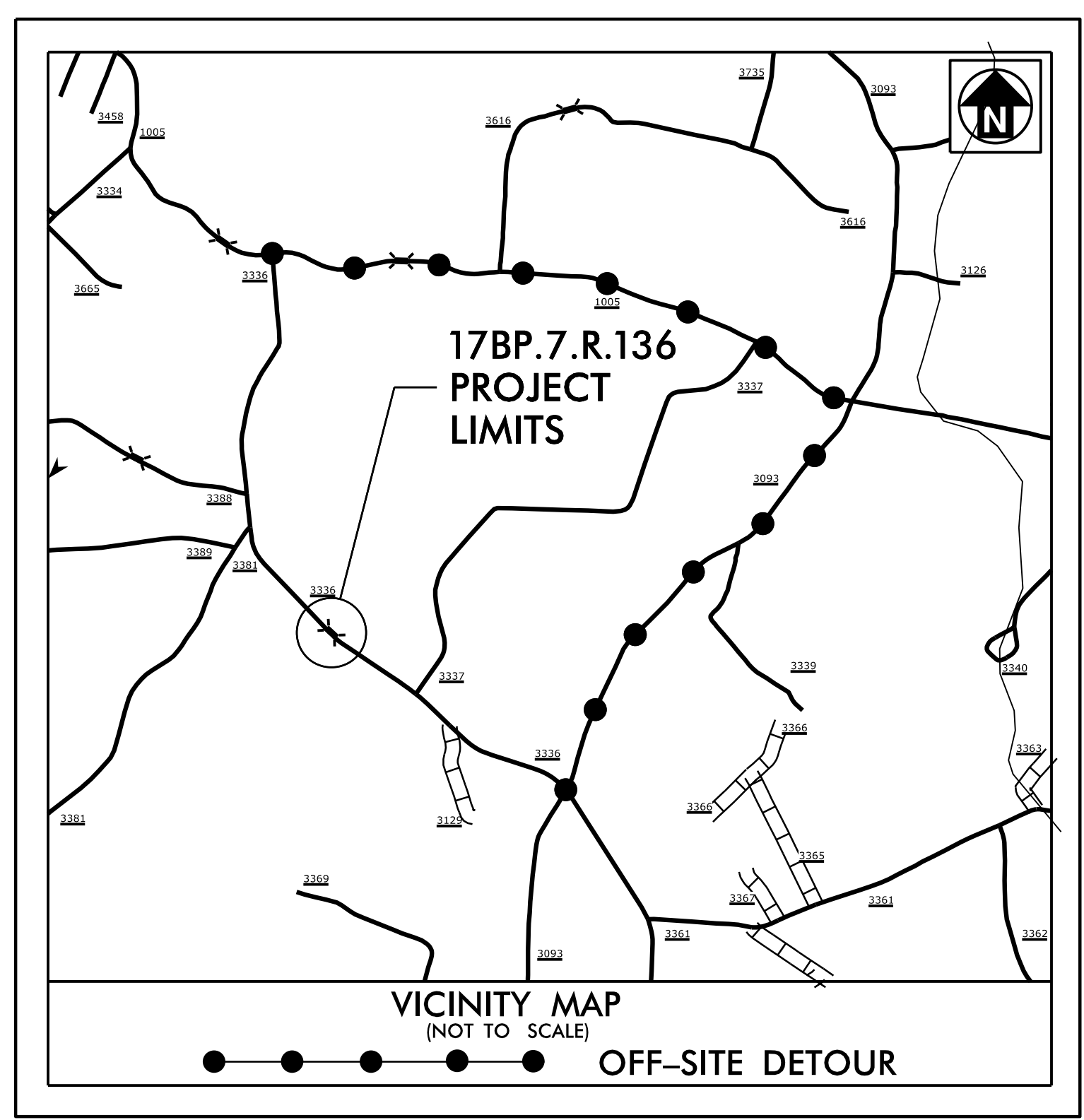
NORTH CAROLINA D.O.T. SIGN DETAIL

APPROVED: <i>Mike Reynolds</i> DATE: 4/11/2024 		ROAD CLOSURE SIGNS, DETOUR SIGNS AND SIGN DESIGN
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

PLOT DRIVER: NCDOT_color_eng_50.ppt
 USER: CHARNDEN
 PENTABLE: NCDOT_tcp.tbl
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STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	17BP.7.R.136 - GUILFORD 267	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

TIP PROJECT: 17BP.7.R.136 - GUILFORD 267



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

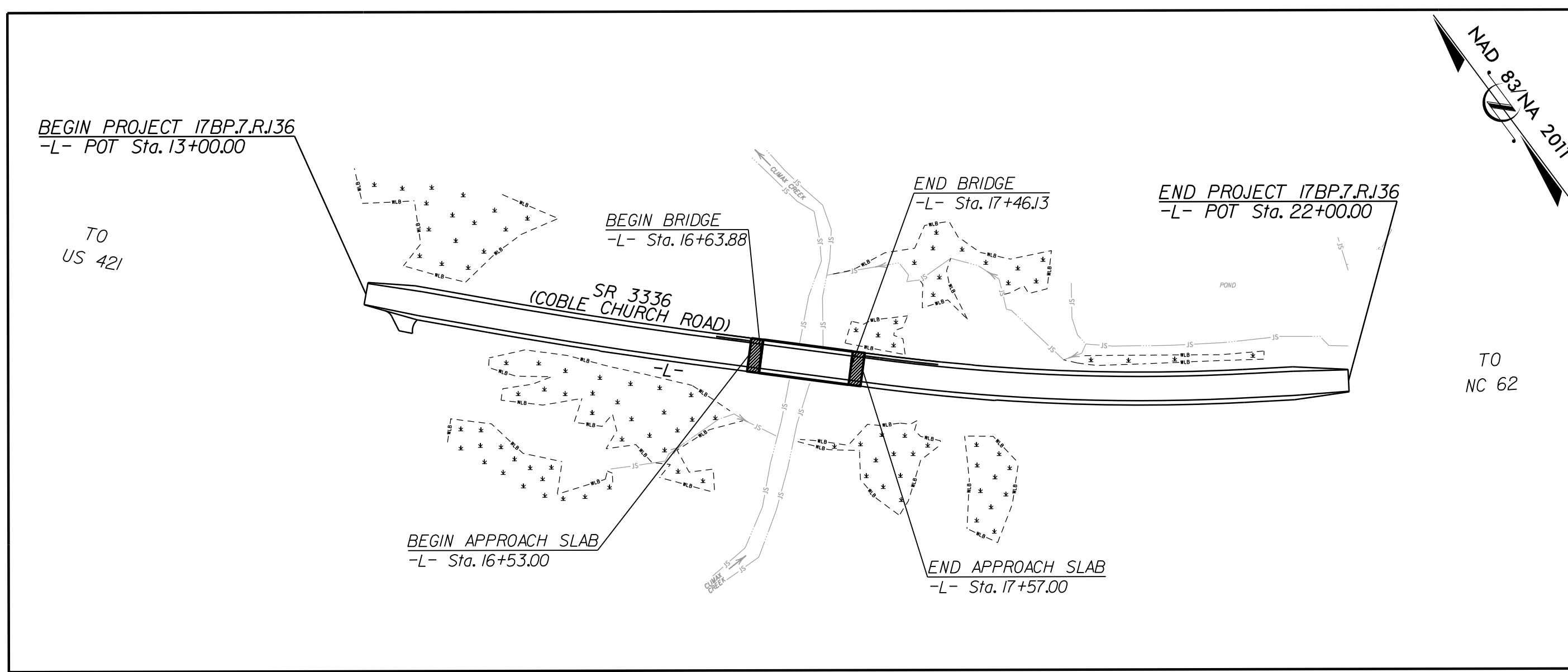
**LOCATION: BRIDGE NO. 267 OVER CLIMAX CREEK
 ON SR 3336 (COBLE CHURCH ROAD)**

TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURE

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

2024 STANDARD SPECIFICATIONS

Reviewed by:
Araron Harper, PE

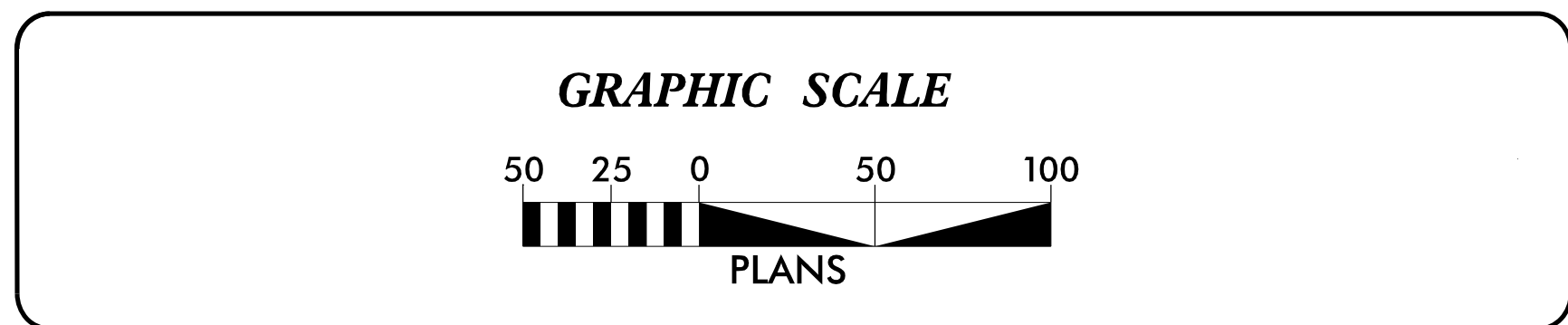


THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT

Refer To E. C. Special Provisions for Special Considerations.

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-01000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.

VHB Engineering NC, P.C. (C-3705)
 940 Main Campus Drive, Suite 500
 Raleigh, NC 27606

Prepared in the Office of:
VHB ENGINEERING, NC
 940 MAIN CAMPUS DRIVE, SUITE 500
 RALEIGH, NC 27606

Designed by:
REID ROBOL 3409
 NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

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

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

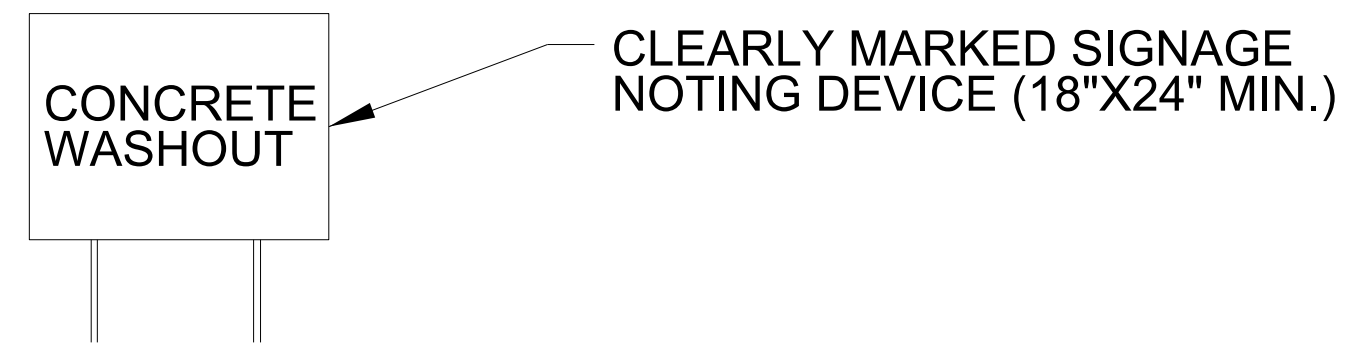
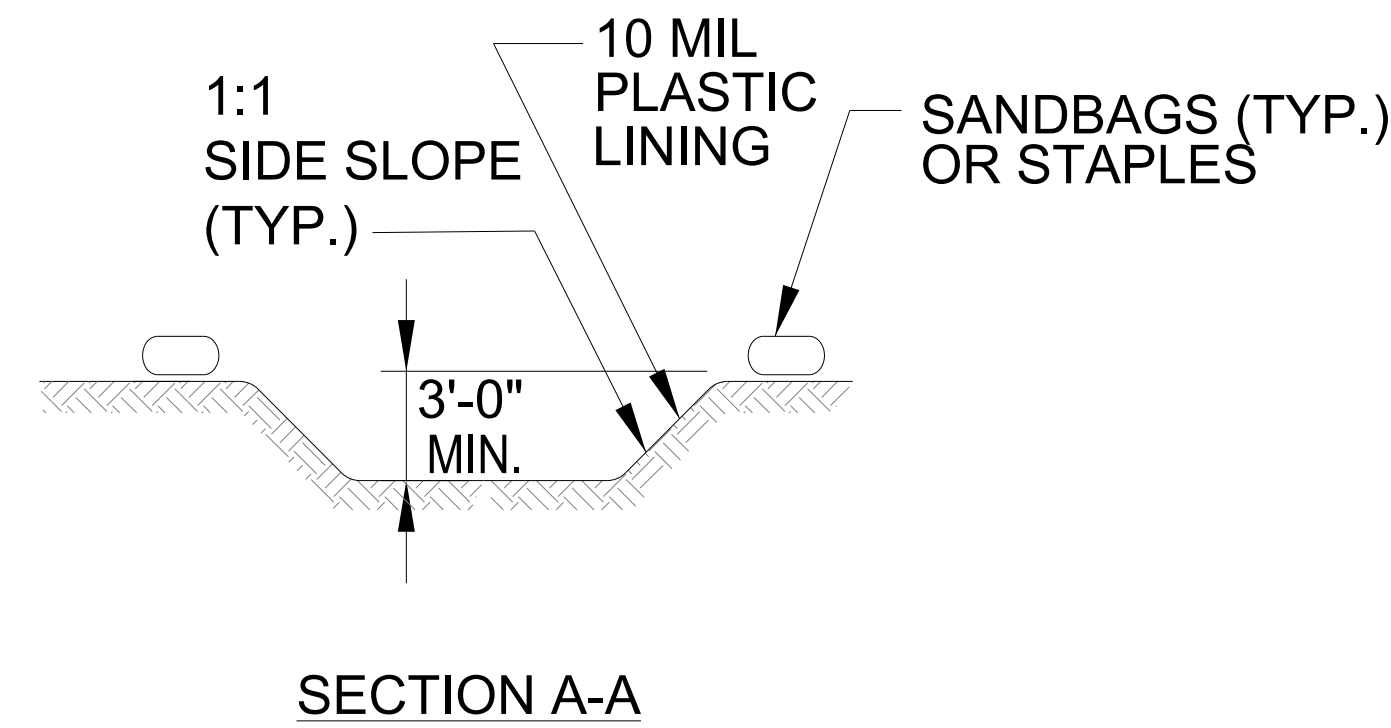
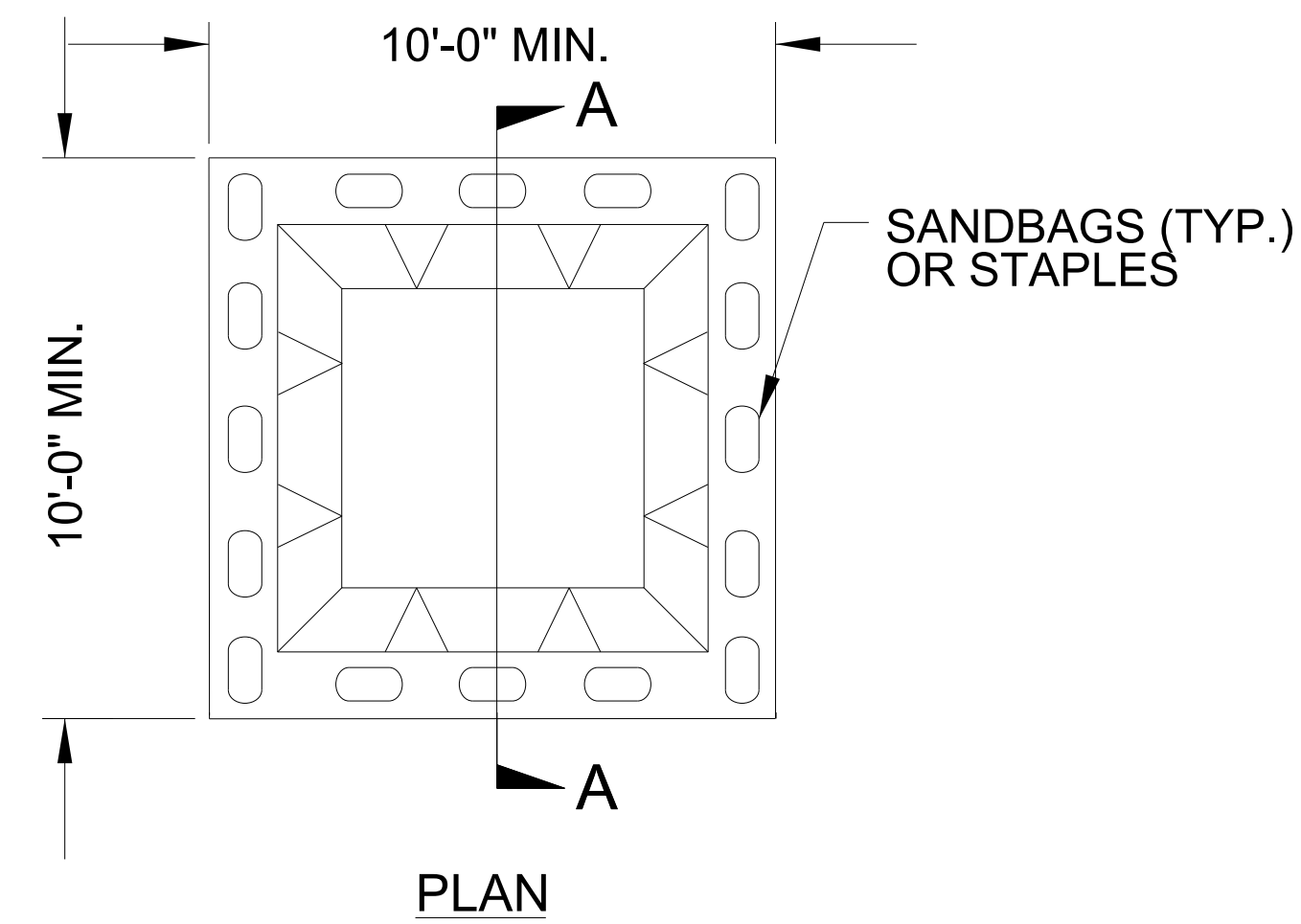
PROJECT REFERENCE NO. 17BP.7.R.136 - GUILFORD 367	SHEET NO. EC-02
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

EROSION & SEDIMENT CONTROL LEGEND

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

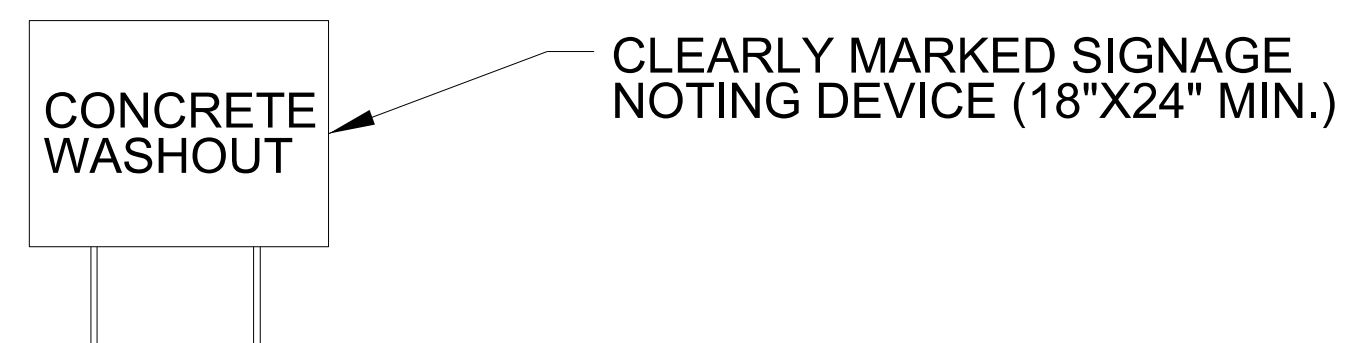
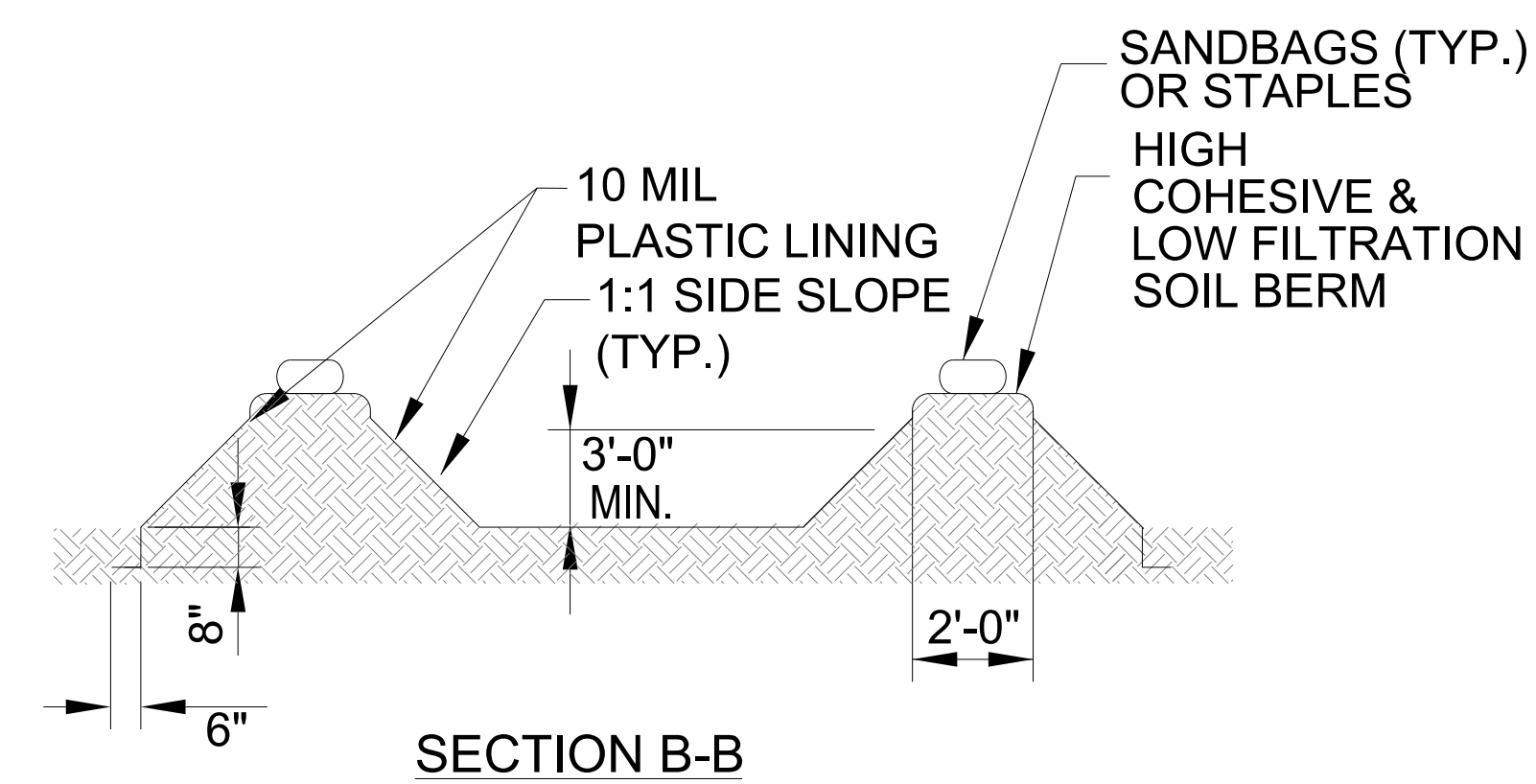
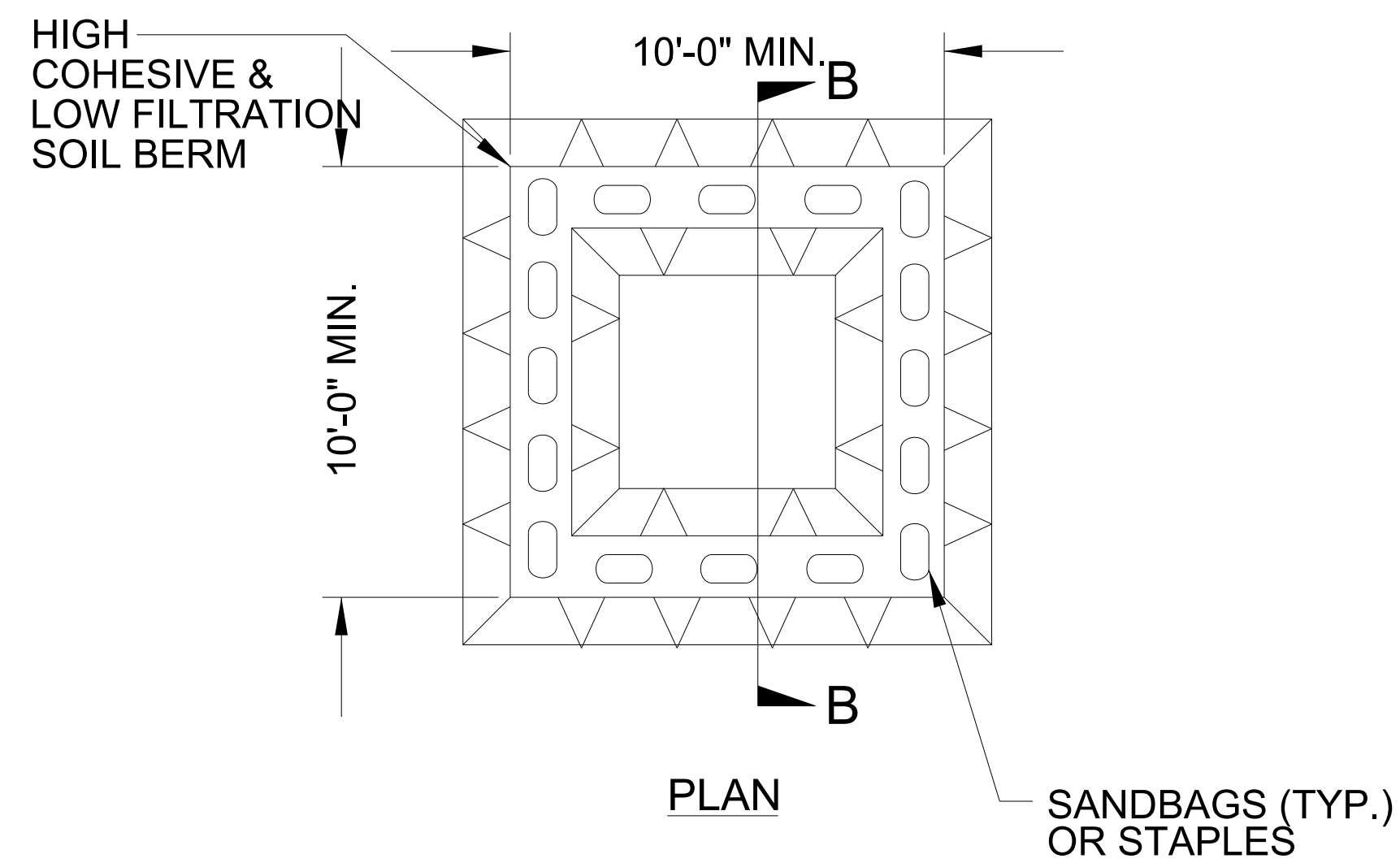
PROJECT REFERENCE NO.	SHEET NO.
ITBP7.RJ36 - GUILFORD 267	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE

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



ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

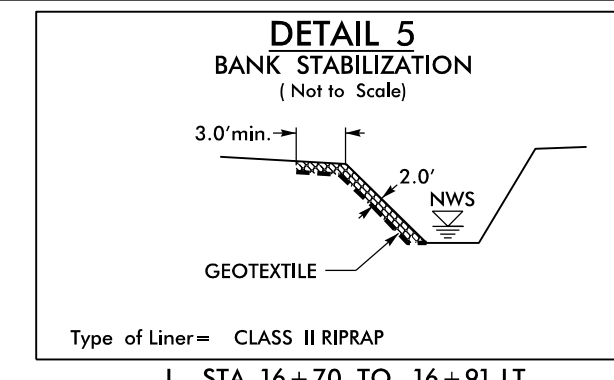
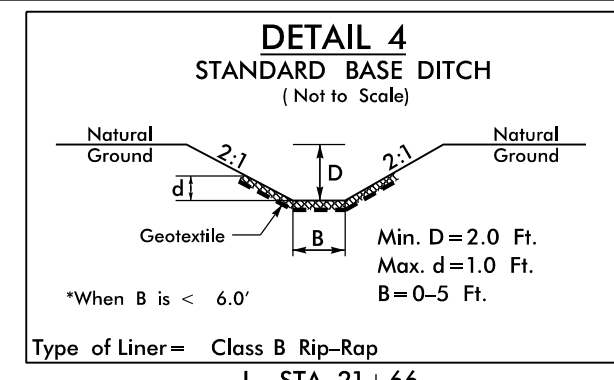
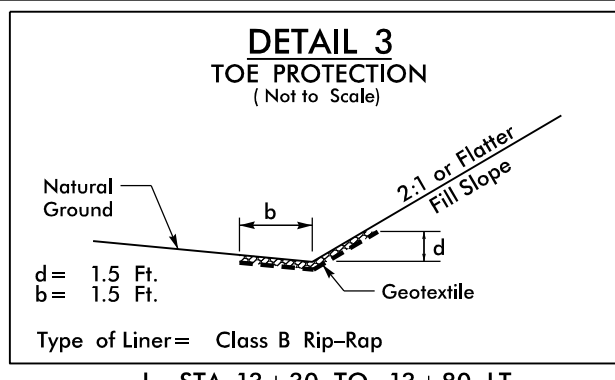
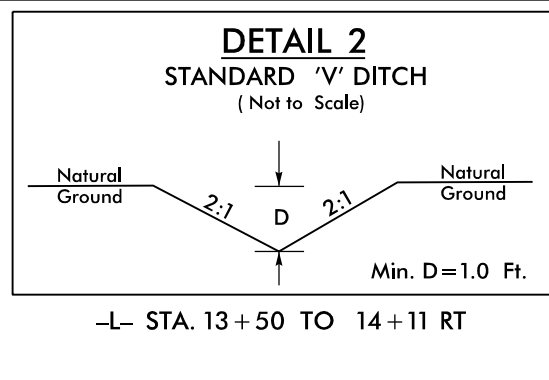
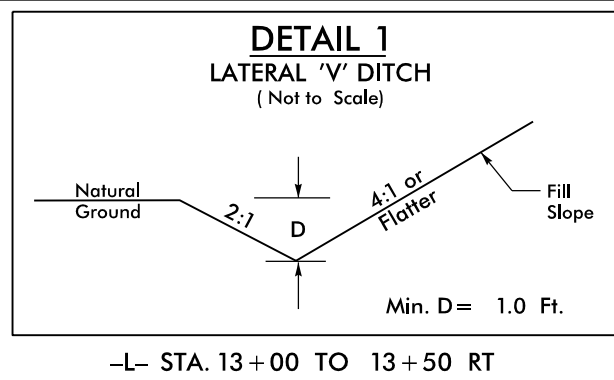
- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
17BP7.RJ36 - GUILFORD 267	EC-3A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

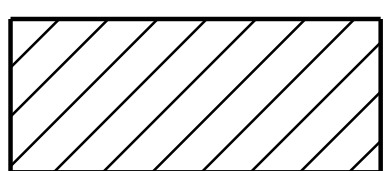
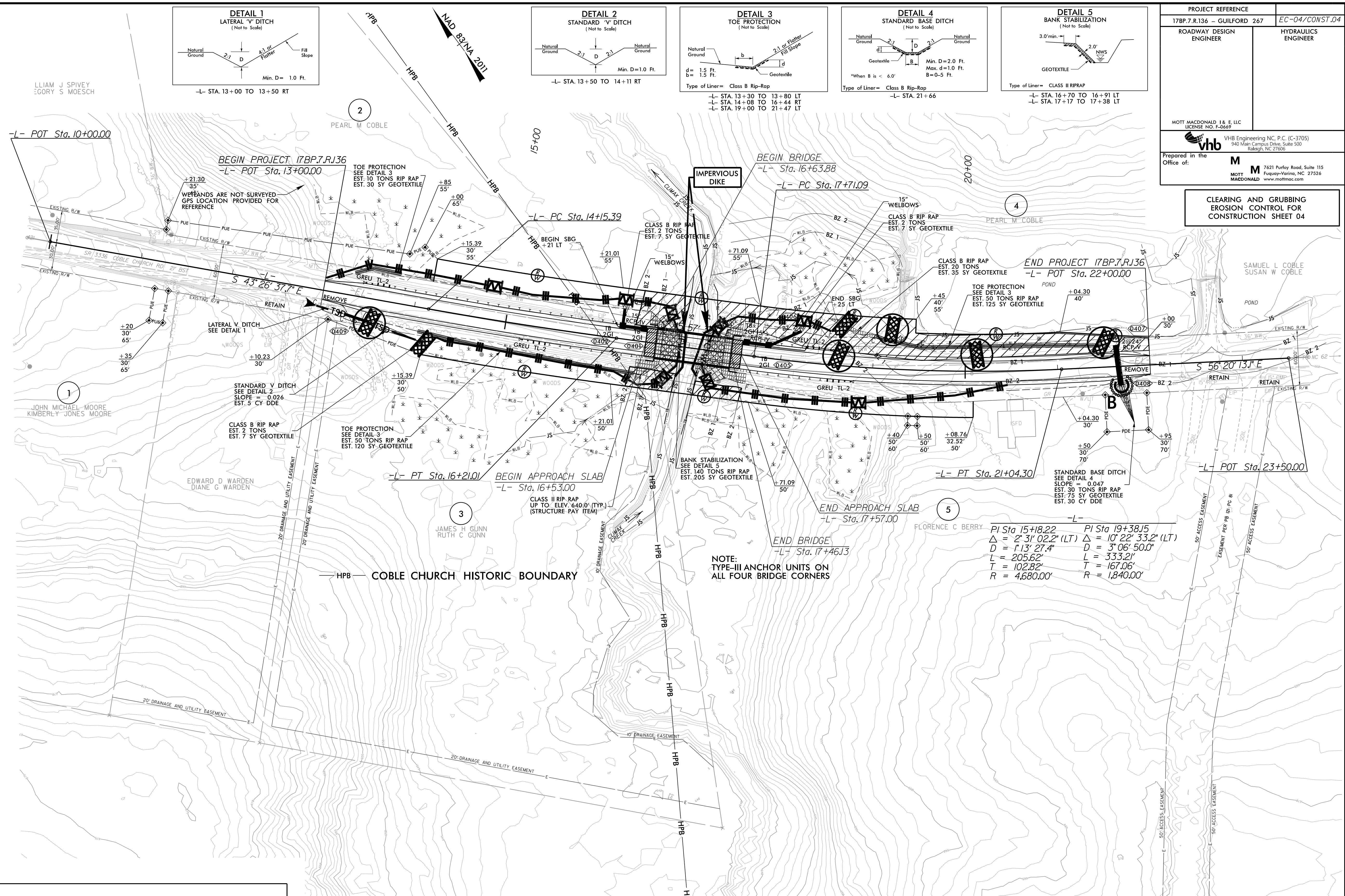
SOIL STABILIZATION TIMEFRAMES

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



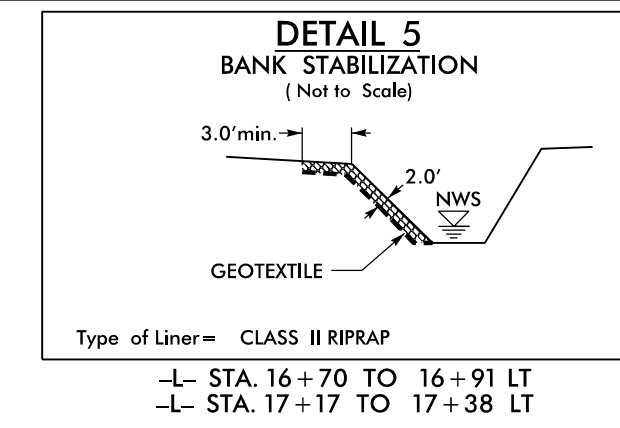
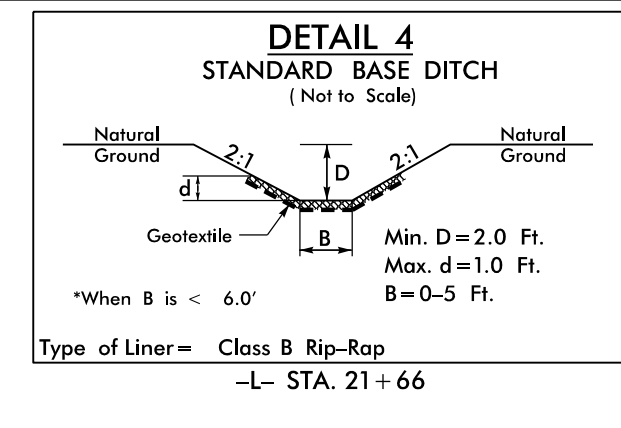
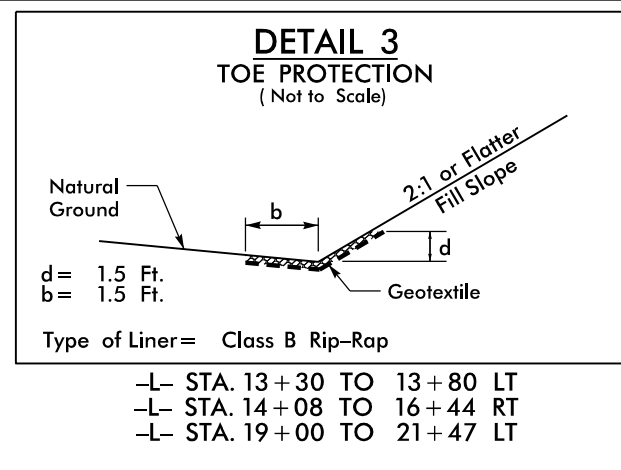
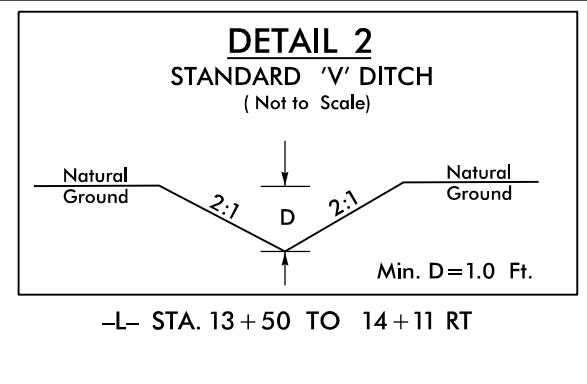
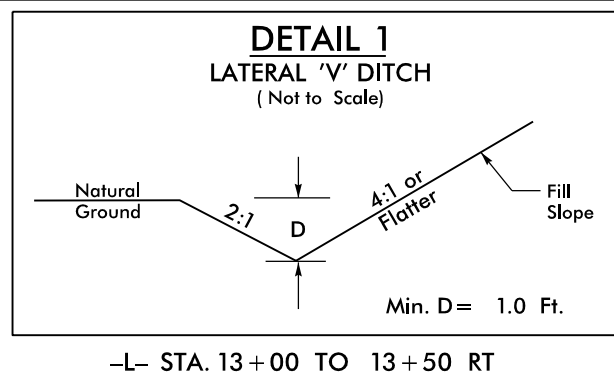
PROJECT REFERENCE	
17BP.7.R.136 - GUILFORD 267	EC-04/CONST.04
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
MOTT MACDONALD 1 & E, LLC LICENSE NO. F-0669	
VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27605	
Prepared in the Office of:	
M	M
MOTT MACDONALD	7621 Purfoy Road, Suite 115 Fuquay-Varina, NC 27526

**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04**

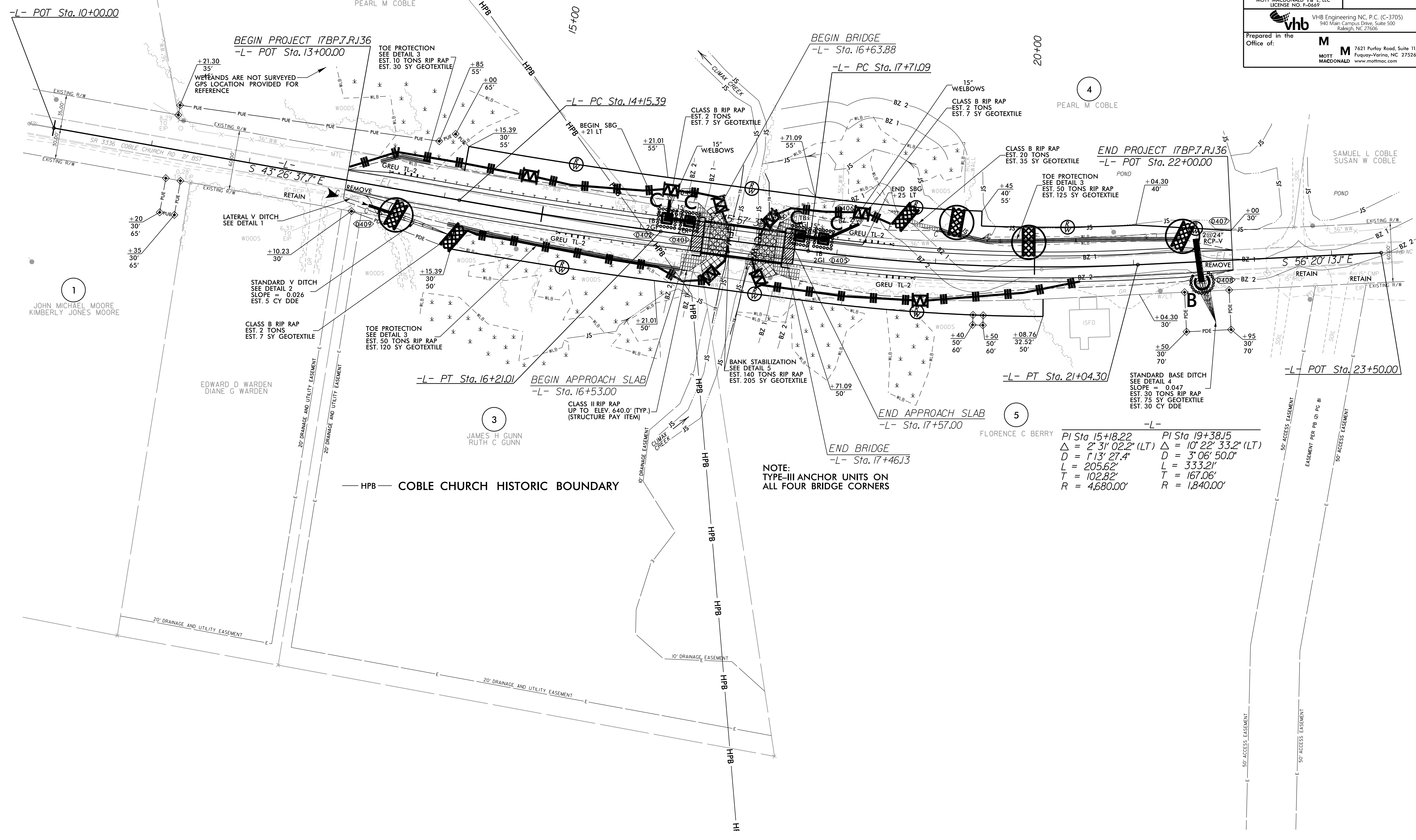


**ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS**

\$\$\$USERNAME\$\$\$
\$\$\$DATE\$\$\$
\$\$\$SYSTEM\$\$\$



PROJECT REFERENCE	
17BP.7.R.136 - GUILFORD 267	EC-05/CONST.04
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
MOTT MACDONALD I & E, LLC LICENSE NO. F-06697	
VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27605	
Prepared in the Office of:	
M	M
MOTT MACDONALD	7621 Purfoy Road, Suite 115 Fuquay-Varina, NC 27526 www.mottmac.com



-L-	PI Sta 15+18.22	PI Sta 19+38.15
Δ	$2^{\circ} 31' 02.2''$ (LT)	$10^{\circ} 22' 33.2''$ (LT)
D	$1^{\circ} 13' 27.4''$	$3^{\circ} 06' 50.0''$
L	$205.62'$	$333.21'$
T	$102.82'$	$167.06'$
R	$4,680.00'$	$1,840.00'$

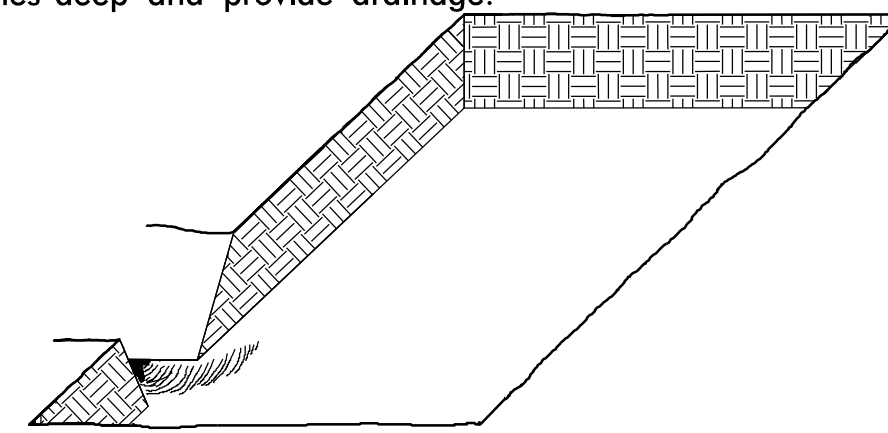
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\$\$\$\$\$DATE\$\$\$\$\$

PLANTING DETAILS

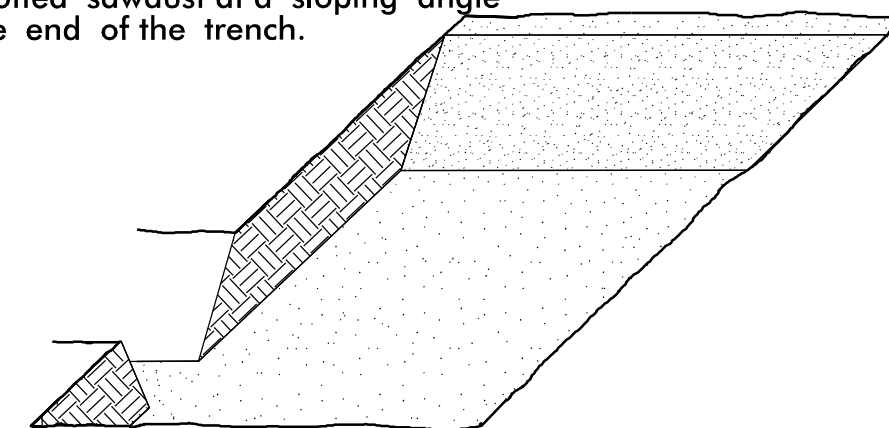
SEEDLING / LINER BAREROOT PLANTING DETAIL

HEALING IN

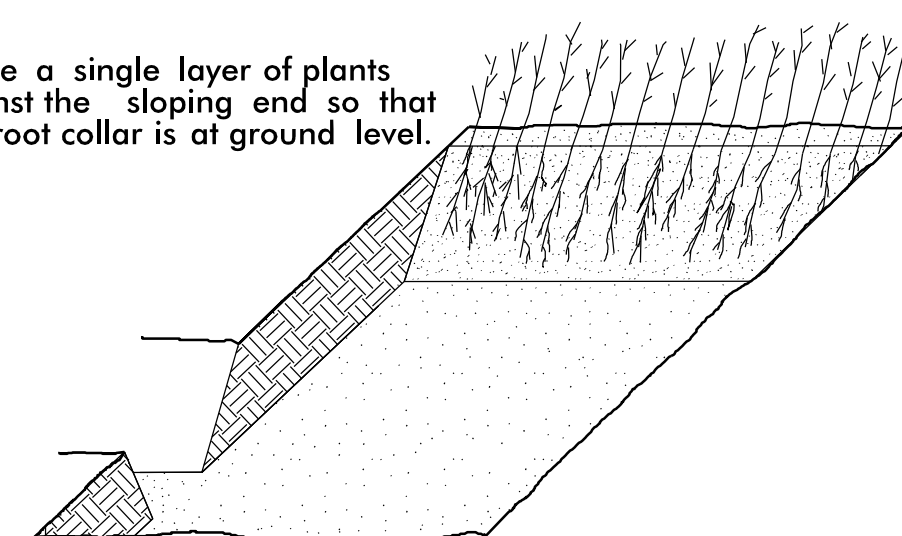
1. Locate a healing-in site in a shady, well protected area.
2. Excavate a flat bottom trench 12 inches deep and provide drainage.



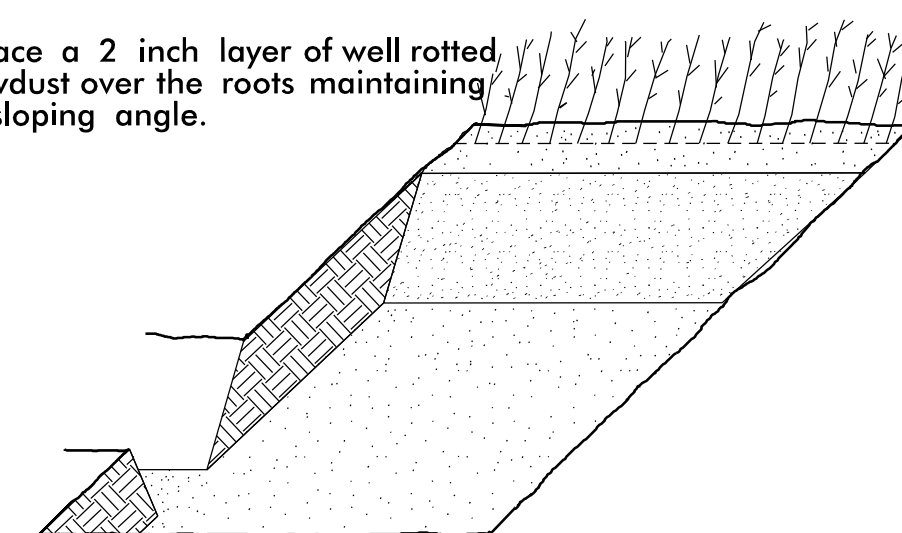
3. Backfill the trench with 2 inches well rotted sawdust. Place a 2 inch layer of well rotted sawdust at a sloping angle at one end of the trench.



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

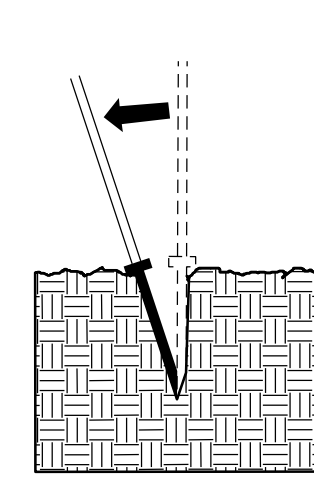


5. Place a 2 inch layer of well rotted sawdust over the roots maintaining a sloping angle.

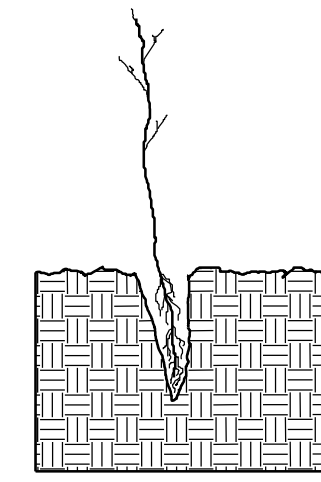


6. Repeat layers of plants and sawdust as necessary and water thoroughly.

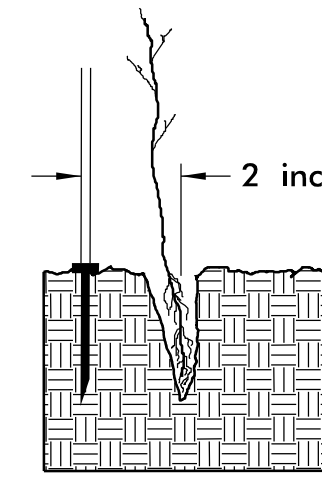
DIBBLE PLANTING METHOD USING THE KBC PLANTING BAR



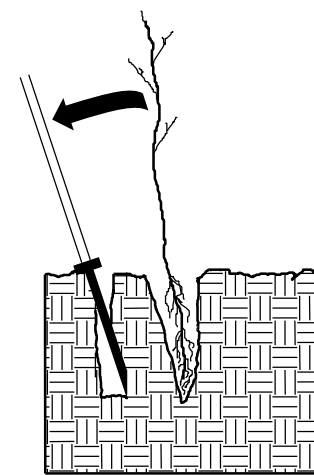
1. Insert planting bar as shown and pull handle toward planter.



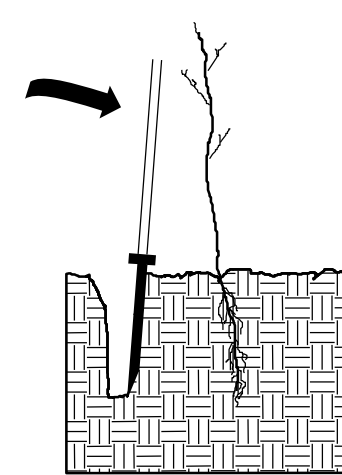
2. Remove planting bar and place seedling at correct depth.



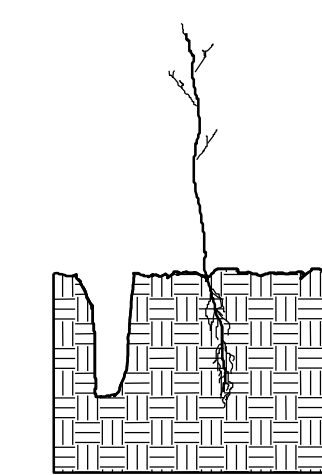
3. Insert planting bar 2 inches toward planter from seedling.



4. Pull handle of bar toward planter, firming soil at bottom.



5. Push handle forward firming soil at top.



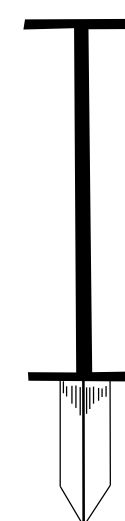
6. Leave compaction hole open. Water thoroughly.

PLANTING NOTES:

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



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



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

REFORESTATION

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

REFORESTATION

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

40%	LIRIODENDRON TULIPIFERA	TULIP POPLAR	12 in - 18 in BR
30%	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	12 in - 18 in BR
30%	BETULA NIGRA	RIVER BIRCH	12 in - 18 in BR

REFORESTATION DETAIL SHEET

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


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T.I.P.: 17BP.7.R.136

**STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN
 GUILFORD COUNTY**

**LOCATION: BRIDGE NO. 267 OVER CLIMAX CREEK
 ON SR 3336 (COBLE CHURCH ROAD)**

TIP NO. 17BP.7.R.136	SHEET NO. SIGN-1
APPROVED: <i>Mike Rzepka</i>	
DATE: 4/11/2024	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	13	L.F.
4102000000	904	SIGN ERECTION, TYPE E	1	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	3	EA.

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	TYPE "E" SIGNS SHEET
SIGN-3	SIGN DETAIL SHEET

ROADWAY STANDARD DRAWING

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

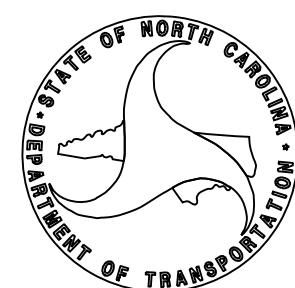
STD. NO.	TITLE
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

GENERAL NOTES

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

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

KELVIN JORDAN _____ SIGNING & DELINEATION STANDARDS ENGINEER
 WALTER JOHNSON _____ SIGNING & DELINEATION PROJECT DESIGN ENGINEER



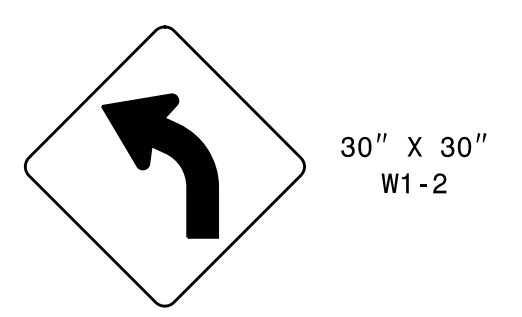
PLAN PREPARED BY: HDR ENGINEERING, INC. OF THE CAROLINAS

MIKE RZEPKA, P.E. _____ SIGNING & DELINEATION PROJECT DESIGN ENGINEER
 CHRIS HARNDEN _____ SIGNING & DELINEATION PROJECT DESIGN TECHNICIAN





PLOT DRIVER: NCDOT_color_eng_50.pht
USER: CHARNDEN
FILE: p:\pwhdr\users\01\Documents\5705\10140664\6.0_CAD_BIM\6.2_WIP\17BP\17BP-7.R.136_Bridge #267\Traffic\Signing\Layout Plans\17BP-7.R.136_SIGN_S02.dgn

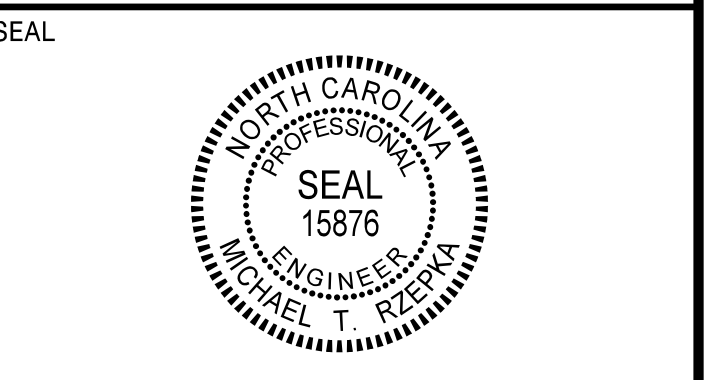
401 QUANTITY REQ'D 1



ONE "U" POST PER SIGN

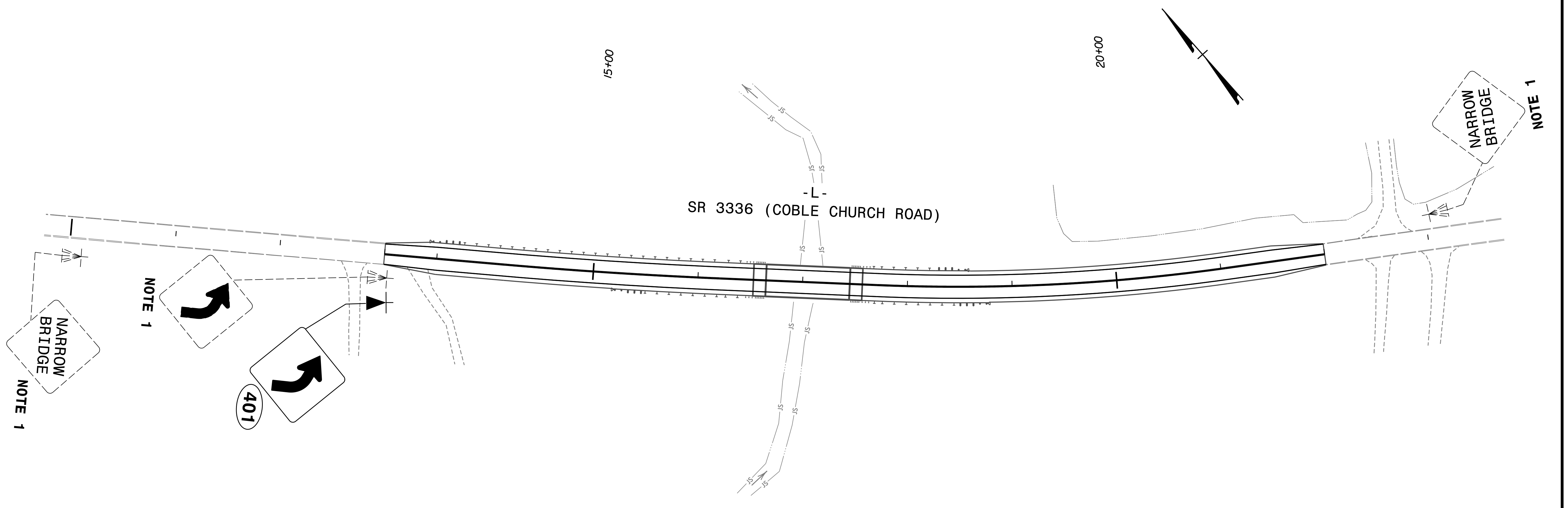
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	TIP NO.	SHEET NO.
	17BP.7.R.136	SIGN-2
APPROVED: <u>Mike Rzepka</u>		
DATE: <u>4/11/2024</u>		
SEAL		
		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

TYPE "E" SIGNS



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

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: CHARNDEN
 FILE: p:\p\h\h\users\01\HDR_US_East_01\Documents\5705\01\Documents\5705\10140664\6.0_CAD_BIM\6.2_WIP\17BP.7.R.136_Bridge #26\Traffic\Signing\CADD\Signing\Layout\Plans\17BP.7.R.136_SIGN_S03.dgn
 PENTABLE: NCDOT_Signing.tbl
 DATE: 2/28/2024
 TIME: 2:27:59 PM

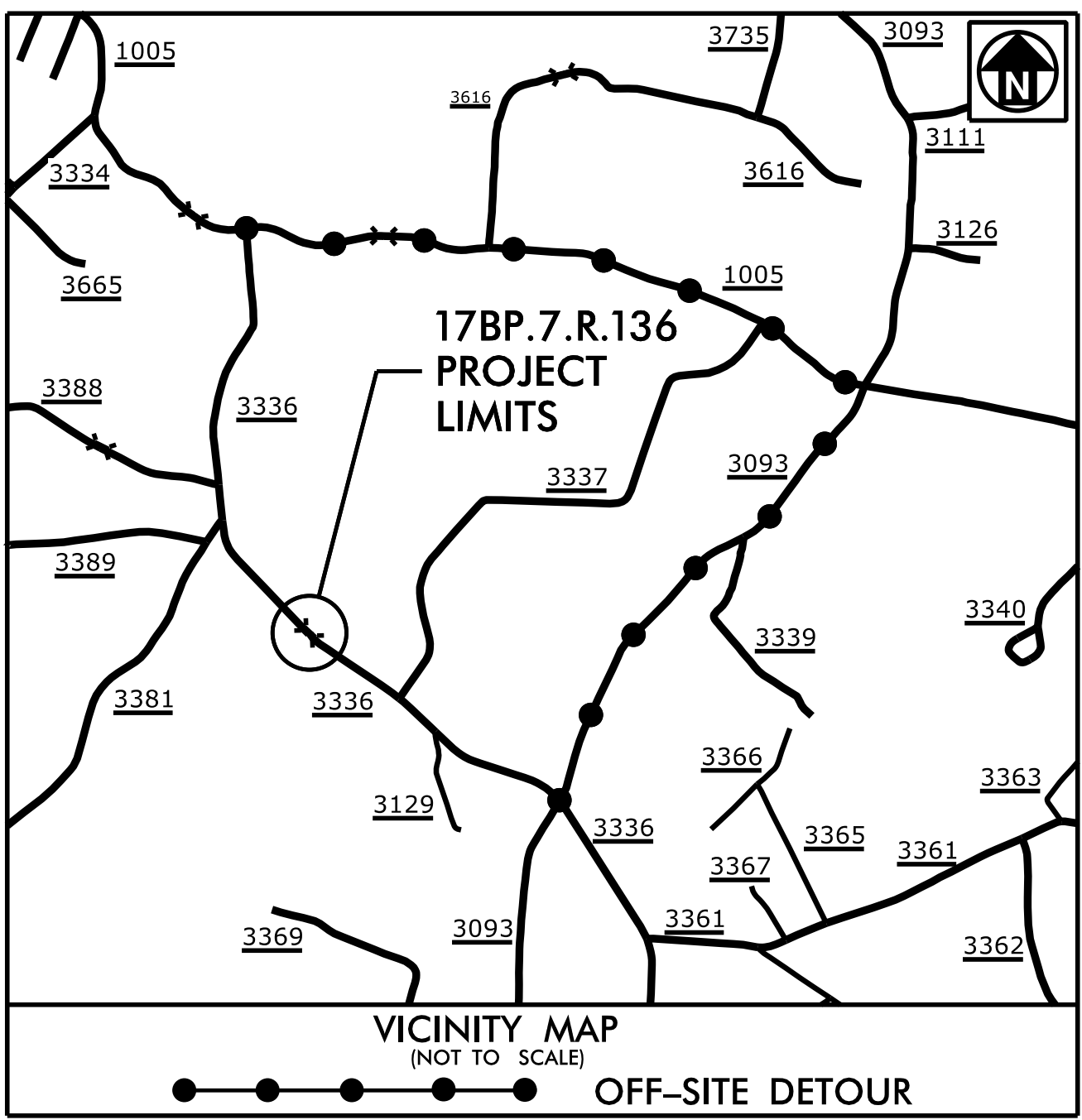


PROJECT NOTES

1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL

**EXISTING AND
PROPOSED SIGNS**

TIP PROJECT: 17BP.7.R.136



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

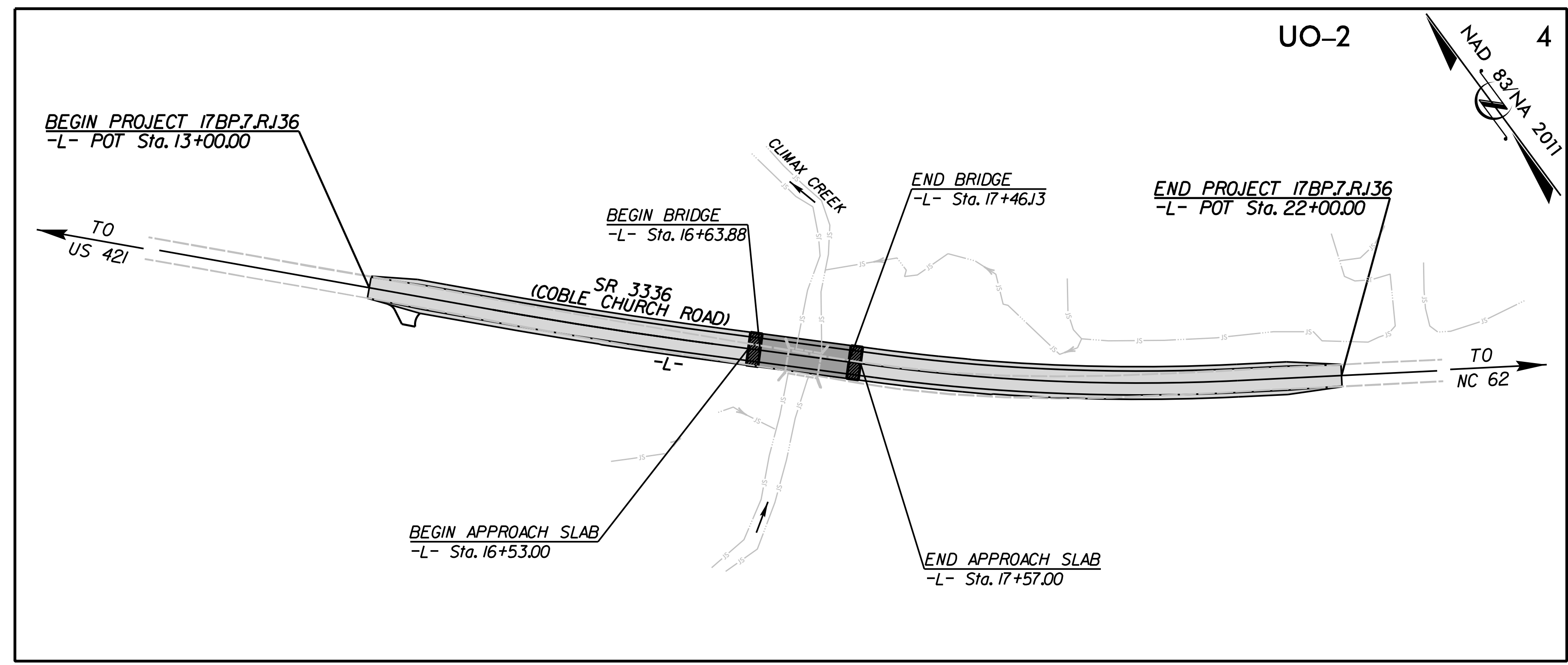
**UTILITIES BY OTHERS PLANS
GUILFORD COUNTY**

**LOCATION: BRIDGE NO. 267 OVER CLIMAX CREEK
ON SR 3336 (COBLE CHURCH ROAD)**

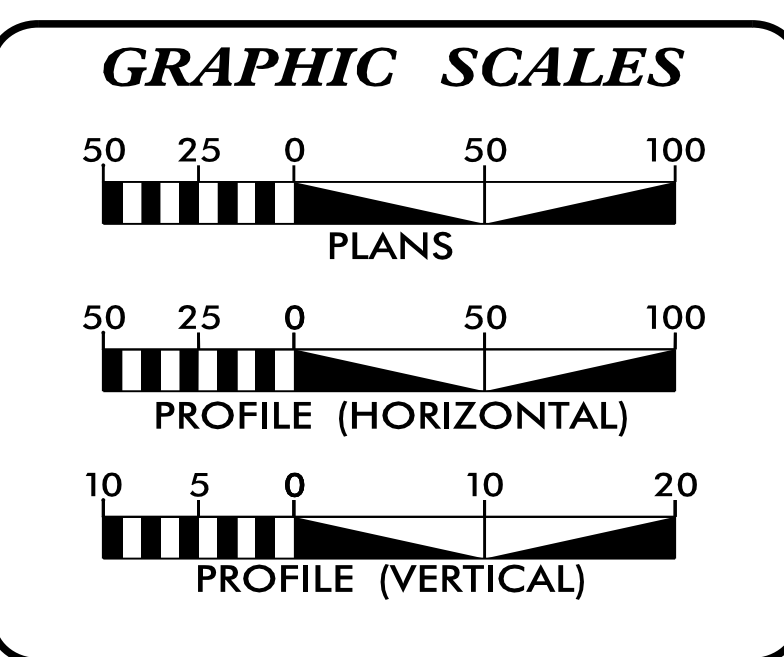
TYPE OF WORK: POWER (DISTRIBUTION) AND COMMUNICATIONS

T.I.P. NO.	SHEET NO.
17BP.7.R.136	UO-1

NOTE:
ALL UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.



CONTRACT:



INDEX OF SHEETS

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

UTILITY OWNERS WITH CONFLICTS

(A) POWER (DISTRIBUTION) - DUKE
(B) COMMUNICATIONS - AT&T

PREPARED IN THE OFFICE OF:

SAIATM 2641 Sumner Boulevard
Suite 116
Raleigh, NC 27616
(919) 878-7466

Freddie Bunn UTILITY PROJECT MANAGER
Matthew Ward PROJECT UTILITY COORDINATOR

**DIVISION OF HIGHWAYS
DIVISION 07**

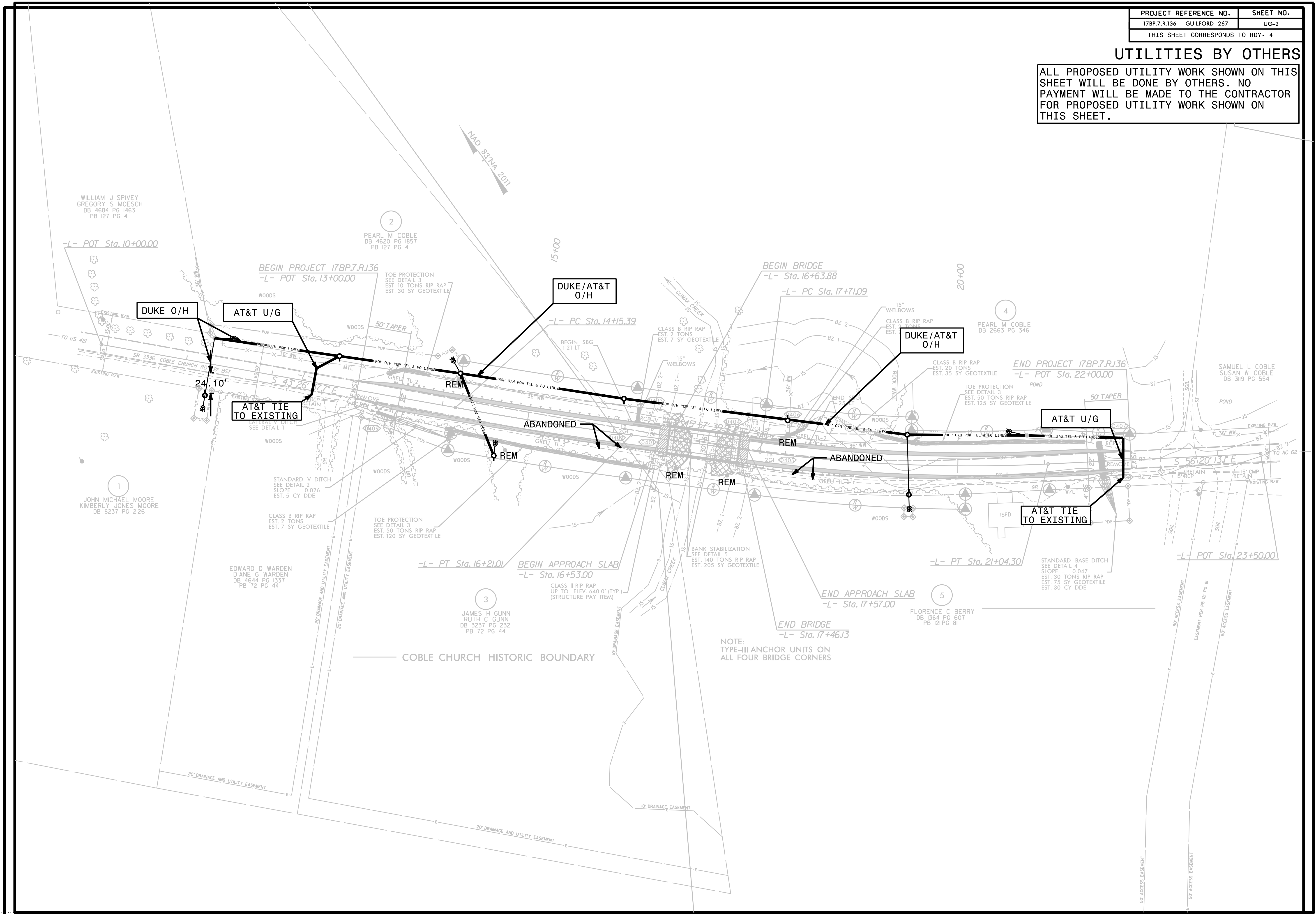
DIV ADDRESS
PO BOX 14996
1586 YANCEYVILLE STREET
GREENSBORO, 27415

Tim Powers, PE DIVISION CONTACT #1
Patty Eason, PE DIVISION CONTACT #2

\$\$\$\$\$ SYSTEM \$\$\$\$\$\$ DGN \$\$\$\$\$\$ USERNAME \$\$\$\$\$\$

UTILITIES BY OTHERS

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



NOTE:
TYPE-III ANCHOR UNITS ON ALL FOUR BRIDGE CORNERS