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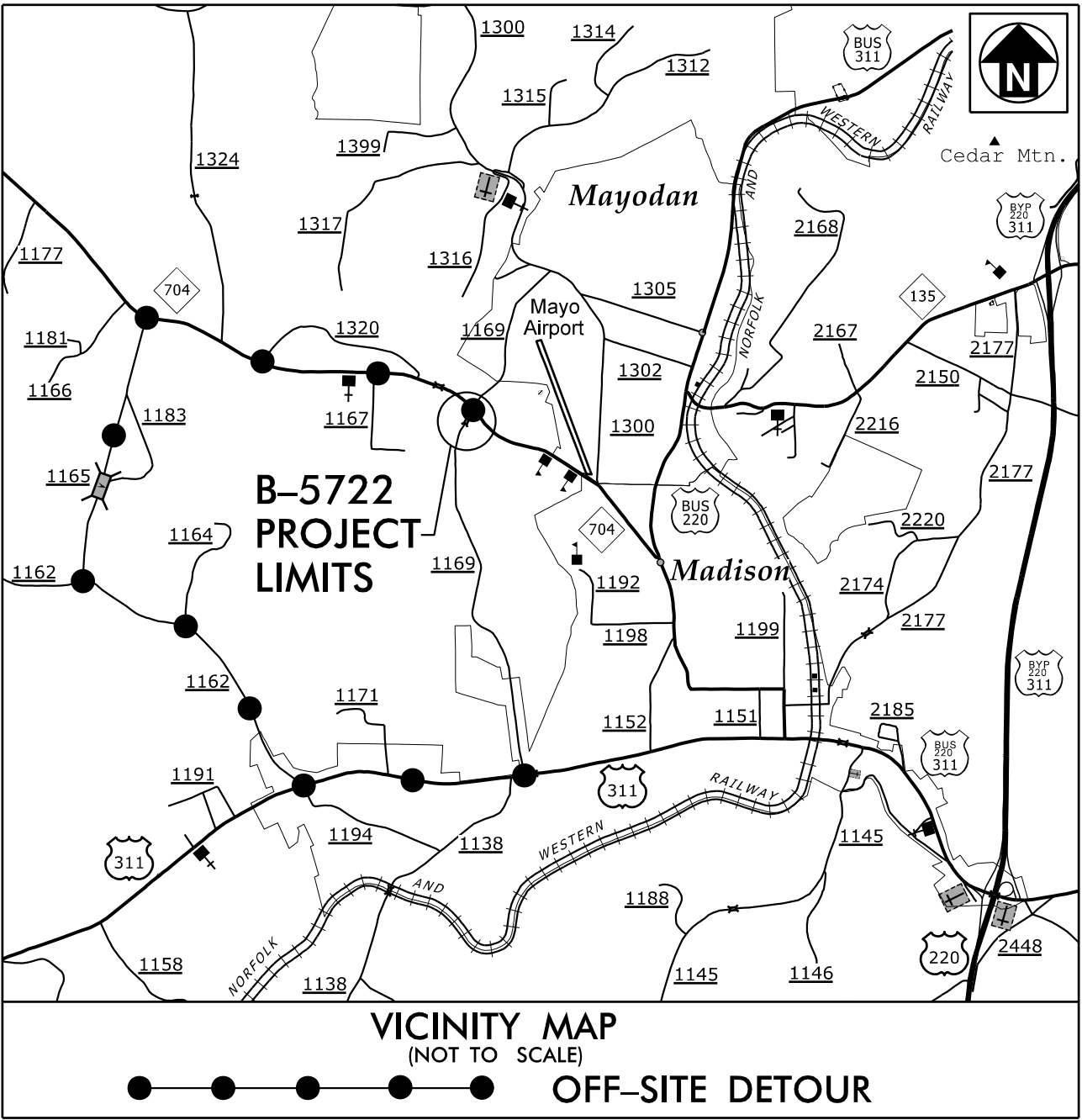
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c:\pwworking\hmm\Rail Transit\jor-66165\4017185\B5722_rdy_tsh.dgn
iso p jordan

TIP PROJECT: B-5722

CONTRACT: DG00659



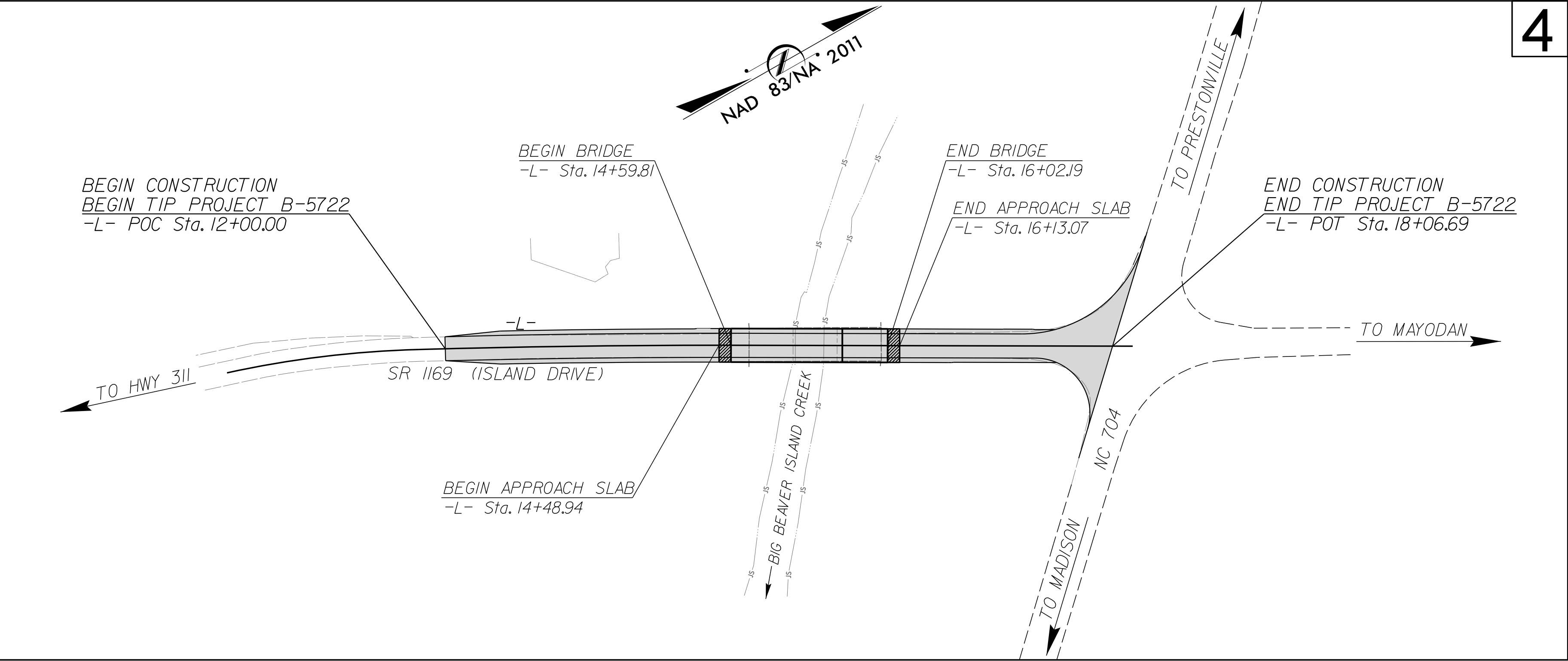
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ROCKINGHAM COUNTY

LOCATION: BRIDGE NO. 277 OVER BIG BEAVER ISLAND CREEK ON SR 1169 (ISLAND DRIVE)

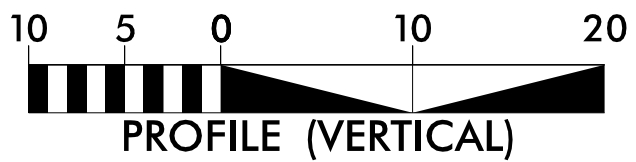
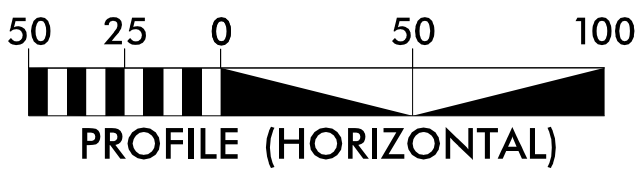
TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5722	1	
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION	
45678.1.1	BRZ-1169(003)	PE	
45678.2.1	BRZ-1169(003)	RW, UTL	
45678.3.1	BRZ-1169(003)	CONST	



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UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2025 = 2,900

ADT 2040 = 4,800

V = 45 MPH

SUB REGIONAL TIER
MINOR COLLECTOR

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT = 0.088 MILES

LENGTH STRUCTURE TIP PROJECT = 0.027 MILES

TOTAL LENGTH TIP PROJECT = 0.115 MILES

Prepared in the Office of Mott MacDonald for

DIVISION 7

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JANUARY 26, 2022

LETTING DATE:
JUNE 19, 2025

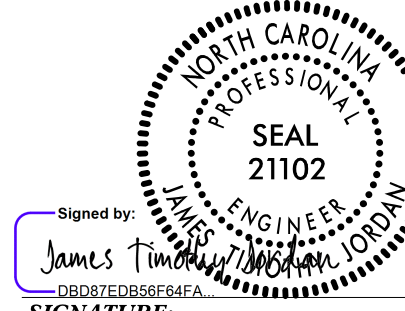
NCDOT CONTACT:

TIM JORDAN, PE
PROJECT ENGINEER

TRENTON J. CORMIER, PE
HYDRAULICS ENGINEER

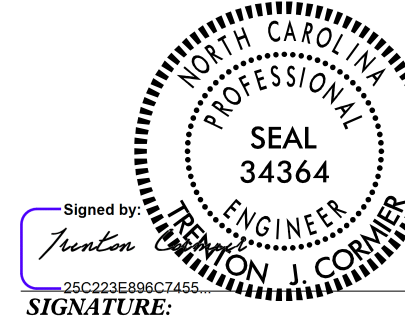
DANIEL DAGENHART
DIVISION BRIDGE
PROGRAM MANAGER

ROADWAY DESIGN ENGINEER



20-May-2025
P.E.

HYDRAULICS ENGINEER



20-May-2025
P.E.

PLANS PREPARED BY:

M
MOTT
MACDONALD

930 Main Campus Drive, Suite 200
Raleigh, NC 27606
(919) 552-2253
www.mottmac.com

LICENSE NO. F-0669

GENERAL NOTES:

2024 SPECIFICATIONS

EFFECTIVE: 01-16-2024

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.

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.

SUBSURFACE DRAINS:

SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 AT LOCATIONS DIRECTED BY THE ENGINEER.

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. 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 PNG, BRIGHTSPEED AND TOWN OF MADISON.

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

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 4 – MAJOR STRUCTURES	
423.01	Bridge Approach Fills – Type I Approach Fill for Bridge Abutment
423.02	Bridge Approach Fills – Type IA Alternate Approach Fill for Integral Bridge Abutment
DIVISION 5 – SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction – High Side of Superelevated Curve – Method I
DIVISION 8 – INCIDENTALS	
815.02	Subsurface Drain
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
862.03	Structure Anchor Units
876.01	Rip Rap in Channels
876.02	Guide for Rip Rap at Pipe Outlets

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
2C-1 THRU 2C-2	METHOD OF PIPE INSTALLATION DETAILS
2C-3 THRU 2C-4	GUARDRAIL PLACEMENT DETAILS
3B-1	GUARDRAIL, EARTHWORK, PAVEMENT REMOVAL AND SHOULDER BERM GUTTER SUMMARIES
3D-1	DRAINAGE SUMMARY
3G-1	GEOTECHNICAL SUMMARIES
4	PLAN AND PROFILE SHEET
RW-01 THRU RW-04	RIGHT OF WAY PLANS
TMP-1 THRU TMP-4	TRAFFIC MANAGEMENT PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
UO-1 THRU UO-2	UTILITIES BY OTHERS PLAN
X-1 THRU X-3	CROSS-SECTIONS
S-1 THRU S-26	STRUCTURE PLANS
SN	STRUCTURE NOTES

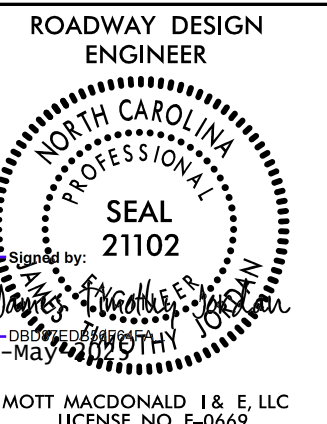
PROJECT REFERENCE

B-5722 – ROCKINGHAM 277

SHEET NO.

1A

ROADWAY DESIGN ENGINEER



DOCUMENT NOT CONSIDERED FINAL

UNLESS ALL SIGNATURES COMPLETED

Prepared in the Office of:

M

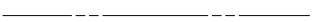
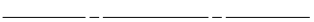
MOTT MACDONALD

930 Main Campus Drive, Suite 200
Raleigh, NC 27606
www.mottmac.com

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

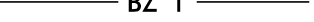
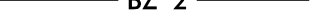
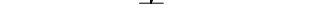
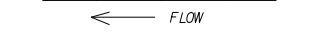
BOUNDARIES AND PROPERTY:

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	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
Contaminated Site: Known or Potential	

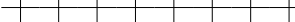
BUILDINGS AND OTHER CULTURE:

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

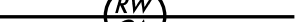
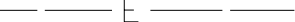
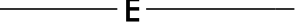
HYDROLOGY:

Stream or Body of Water	
Hydro, Pool or Reservoir	
Jurisdictional Stream	
Buffer Zone 1	
Buffer Zone 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:

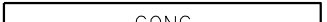
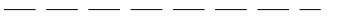
Primary Horiz Control Point	
Primary Horiz and Vert Control Point	
Secondary Horiz and Vert Control Point	
Vertical Benchmark	
Existing Right of Way Monument	
Proposed Right of Way Monument (Rebar and Cap)	
Proposed Right of Way Monument (Concrete)	
Existing Permanent Easement Monument	
Proposed Permanent 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	



-L- STA 12+00.00 TO 12+50.00

-L- STA 16+52.00 TO 18+06.69

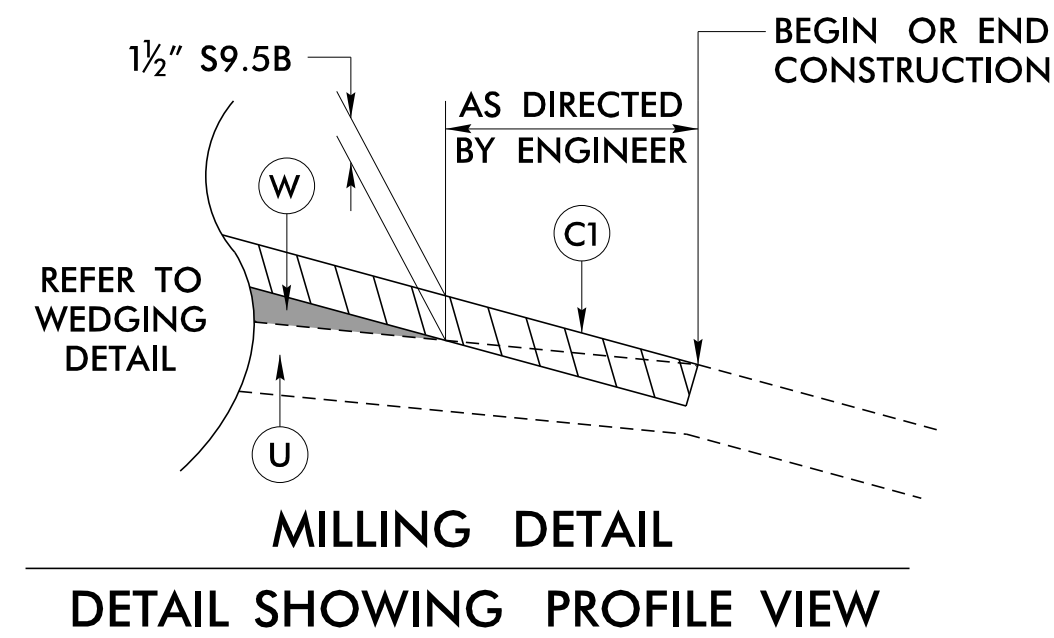


-L- STA 16+02.19 (END BRIDGE) TO 16+52.00



- L- STA 14+59.81 (BEGIN BRIDGE) TO STA 16+02.19 (END BRIDGE)

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



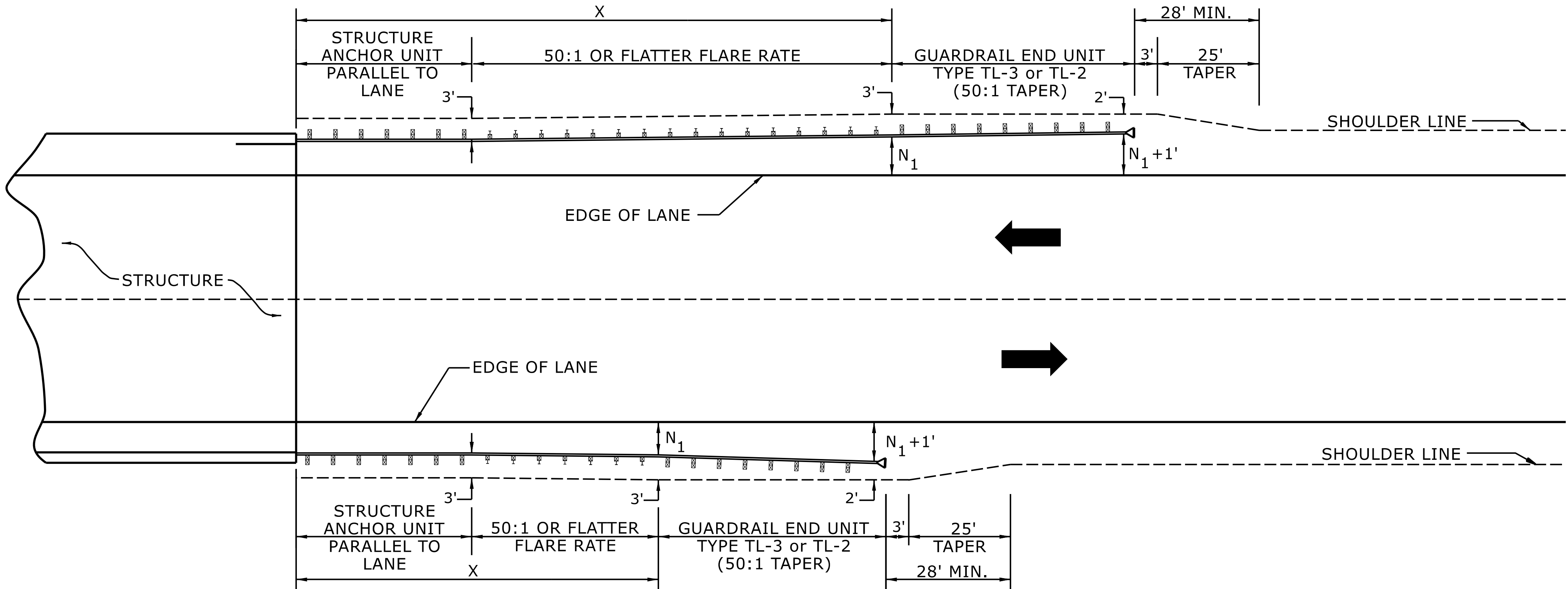
-L- STA 16+13.07 TO 16+28.00 LT & RT

PAVEMENT SCHEDULE	
(FINAL PAVEMENT DESIGN DATED 11-21-2024)	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 1" IN DEPTH OR GREATER THAN 1½" 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 2½" 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 5½" IN DEPTH.
R	SHOULDER BERM GUTTER.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	WEDGING (SEE DETAIL SHOWING METHOD OF WEDGING).

Professional Engineer Seal for North Carolina, No. 033144. The seal is circular with the text "NORTH CAROLINA PROFESSIONAL ENGINEER SEAL" around the perimeter. The number "033144" is in the center. The signature "Nicole H. Muckler" is written across the seal, and the date "20-May-2025" is stamped at the bottom.

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

PROJECT REFERENCE NO.	SHEET NO.
B-5722	2C-3



USE FLARE RATE AS THE CONTROL IF THE "N₁" DISTANCE IS NOT OBTAINED.
("N₁" IS BASED ON SHOULDER WIDTHS IN THE ROADWAY DESIGN MANUAL)

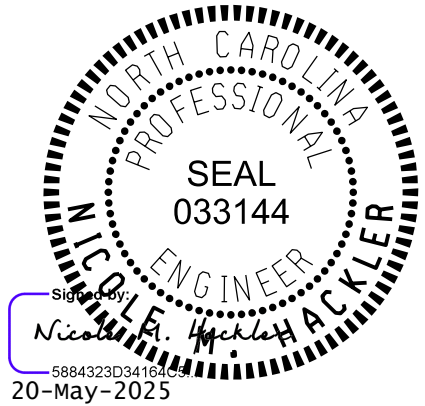
SEE STD. 862.03 FOR STRUCTURE ANCHOR UNITS

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

GUARDRAIL LENGTH OF NEED (X) IS CALCULATED BASED ON THE AASHTO ROADSIDE DESIGN GUIDE.

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

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT



LENGTHS AND OFFSETS FOR PROPOSED GUARDRAIL AT TWO LANE - TWO WAY LOCATIONS

SHEET 4 OF 15
862D01

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UNLESS ALL SIGNATURES COMPLETED

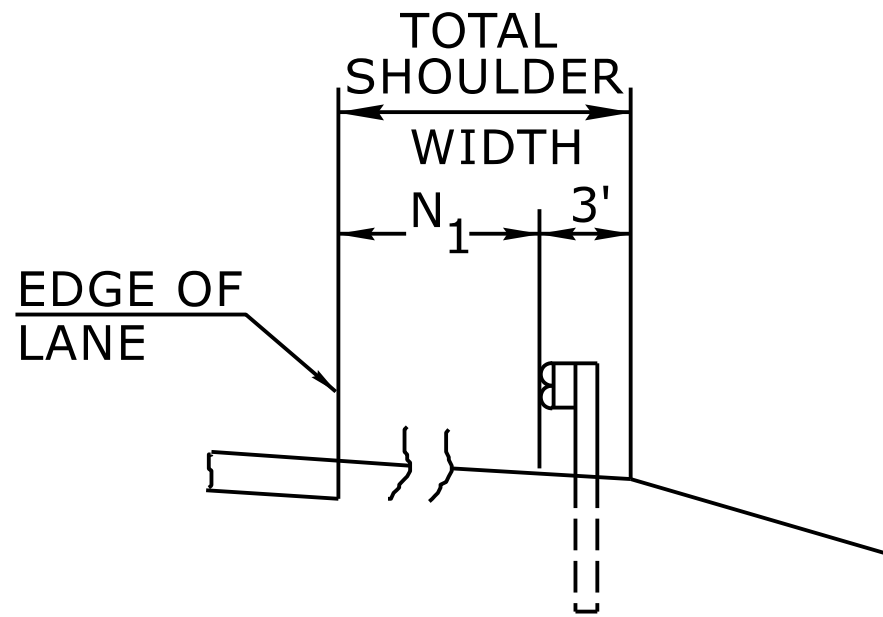
**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**

Office 919-707-6950 FAX 919-250-4119

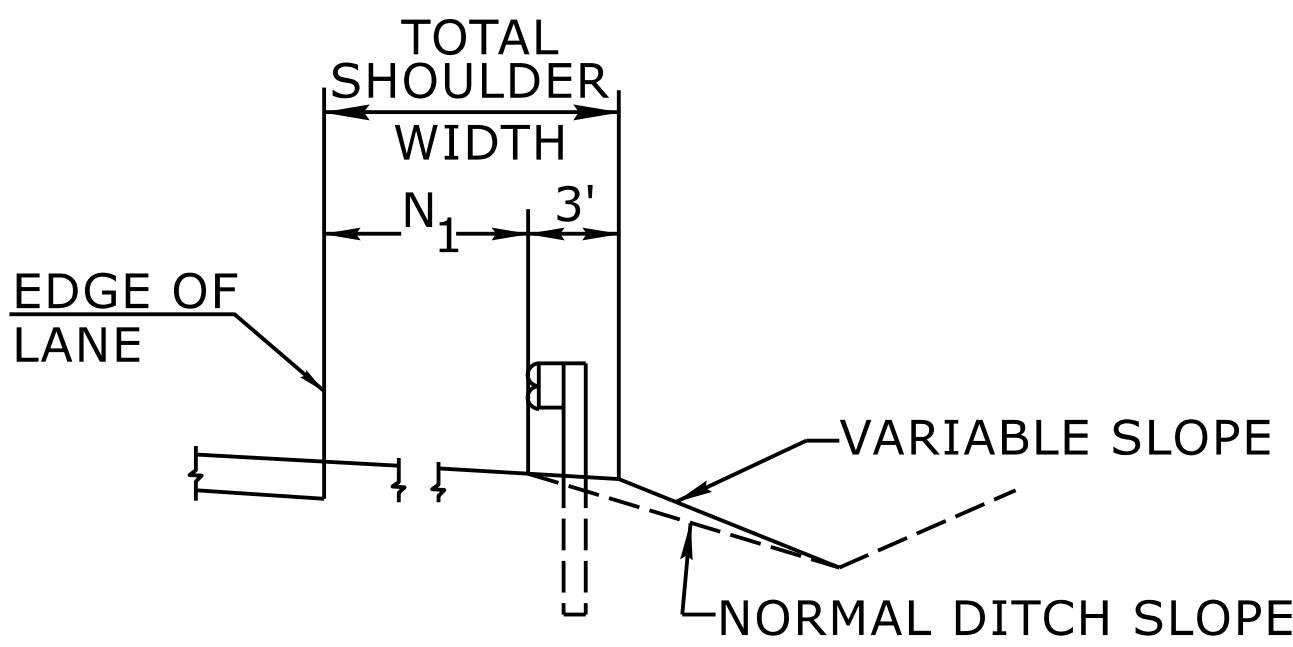
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ORIGINAL BY: S.CALHOUN DATE: 7-25-2024
MODIFIED BY: DATE:
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FILE SPEC.:

PROJECT REFERENCE NO.	SHEET NO.
B-5722	2C-4

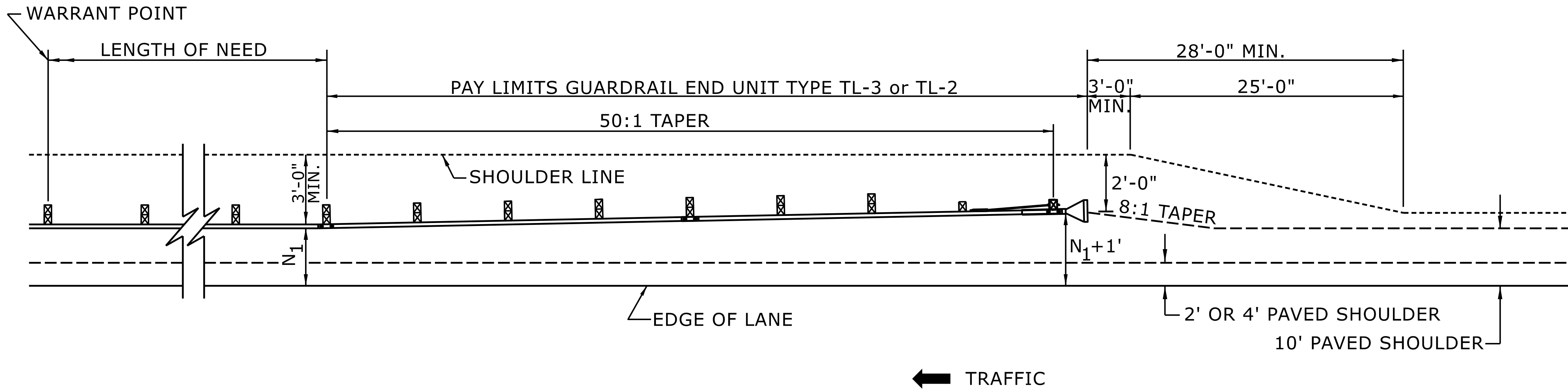


FILL SECTION



CUT SECTION

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



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

DETAIL OF BEGINNING OF GUARDRAIL IN CUT OR FILL SECTION

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 6 OF 15
862D01

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



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**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**

Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

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

***SUB-REGIONAL & REGIONAL
LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)***

[illegible]

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300-5".

COMPUTED BY: Hunsberger, W. S. DATE: 12/30/2024
CHECKED BY: Crockett, S. C. DATE: 12/30/2024

(2-3-23)

PROJECT NO.
B-5722

SHEET NO.
3G-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF SUBSURFACE DRAINAGE

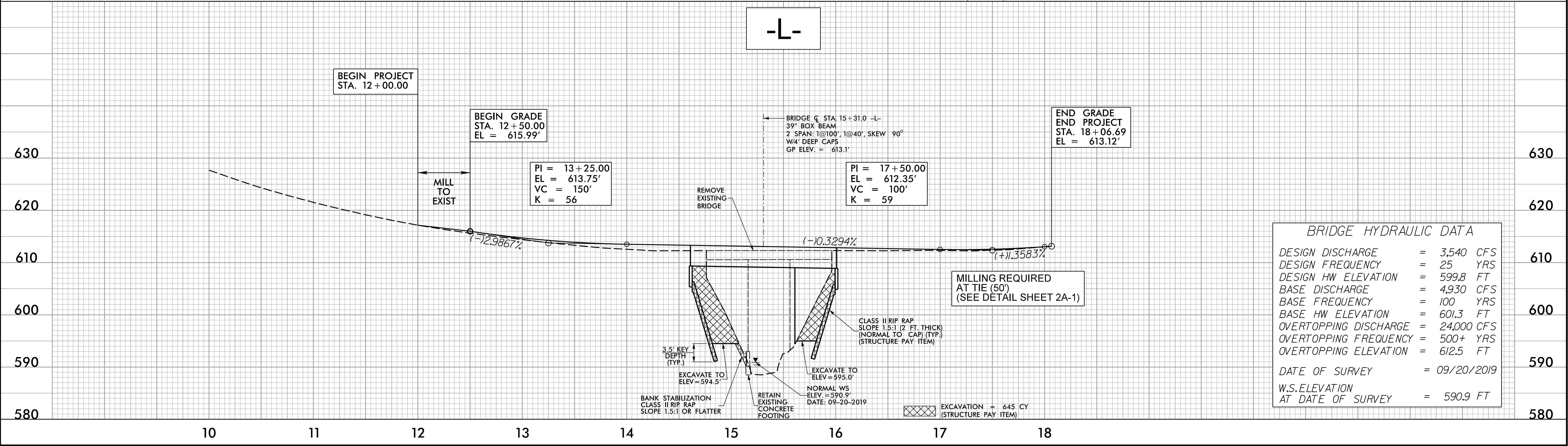
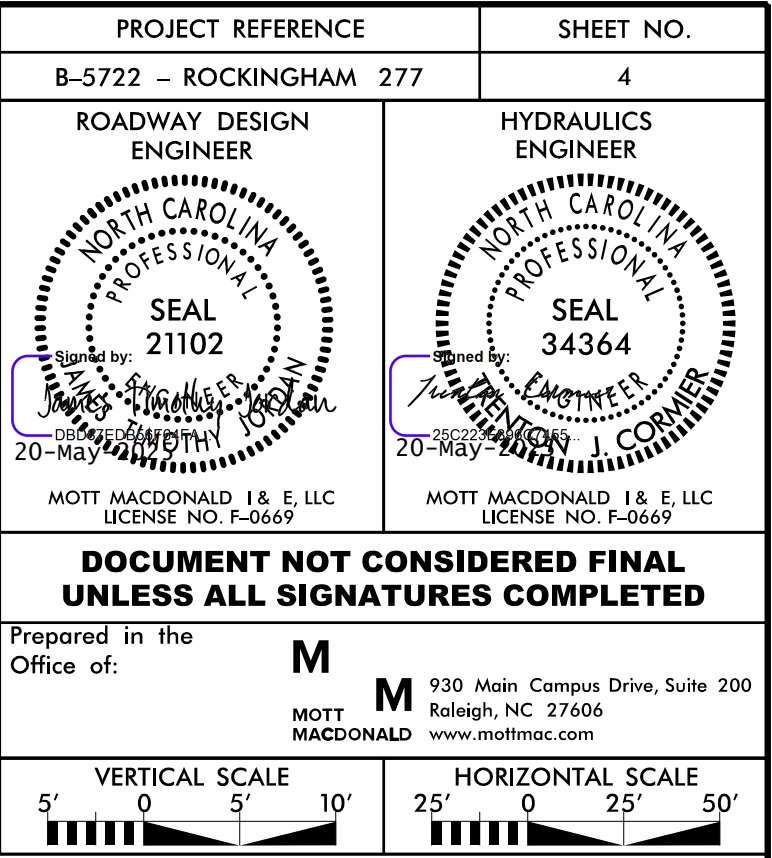
LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
CONTINGENCY				SD	200
				TOTAL LF:	200

*UD = Underdrain
*BD = Blind Drain
*SD = Subsurface Drain

SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION

LINE	Station	Station	Aggregate Type* ASU(1/2)/ AST	Aggregate Thickness INCHES [8" for ASU(2)]	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Subgrade Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
CONTINGENCY			ASU(1)	12	100	200	300		
			TOTAL CY/TONS/SY:		100	200**	300**	0	0

*ASU(1/2) = Aggregate Subgrade (Type 1 or 2)
*AST = Aggregate Stabilization
**Total tons of "Class IV Subgrade Stabilization" and total square yards of "Geotextile for Subgrade Stabilization" are only the estimated quantities for ASU(1/2)/AST and may only represent a portion of the subgrade stabilization and geotextile quantities shown in the Item Sheets of the Proposal.



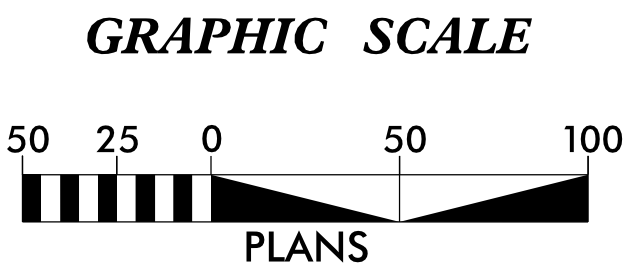
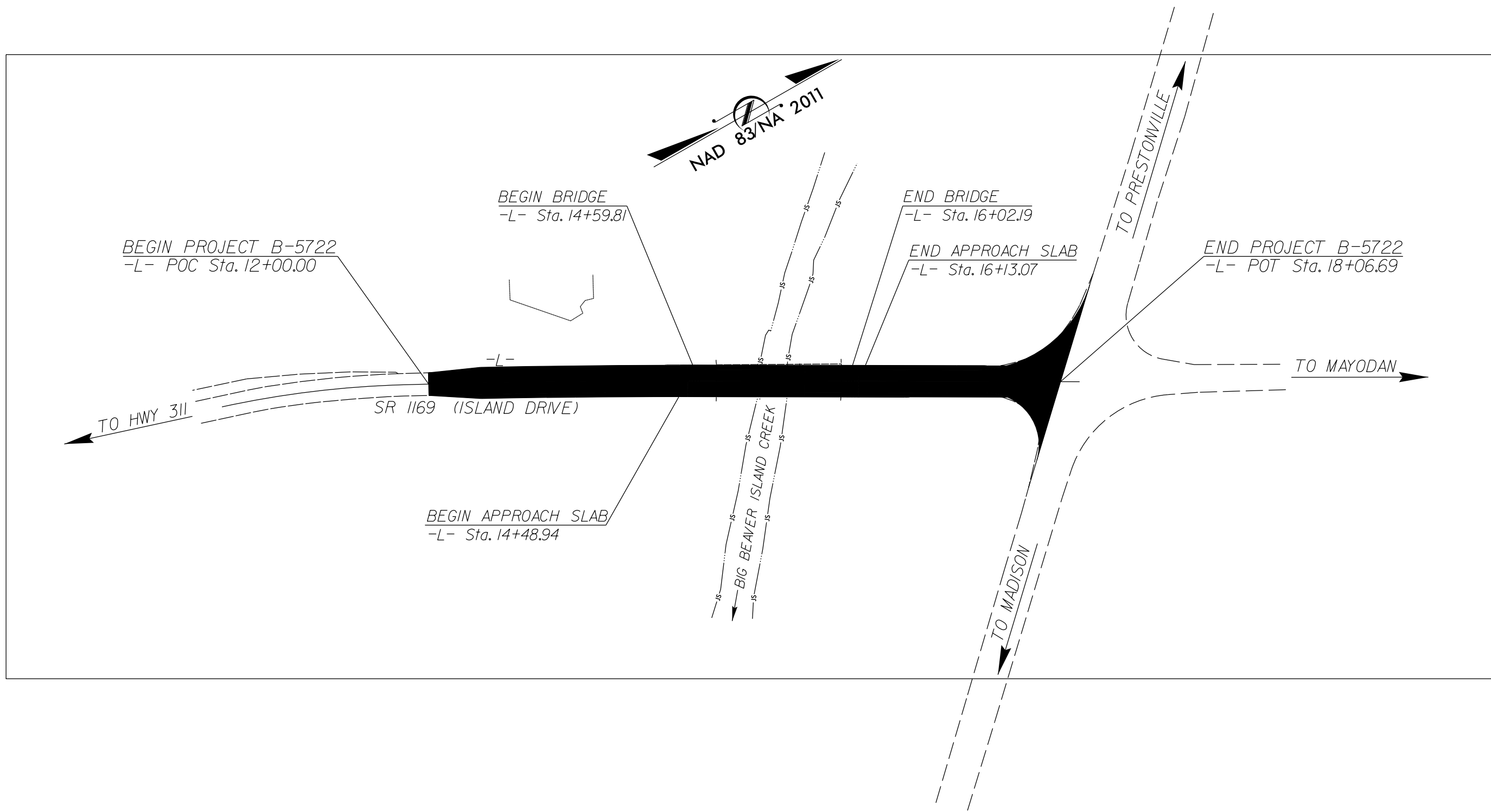
TIP PROJECT: B5722

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B5722	RW01	5

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

ROCKINGHAM COUNTY



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B5722-2"

WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
NORTHING: 967,267.366(ft) EASTING: 1,709,457.406(ft)
ELEVATION: 657.99(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.00004815

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B5722-2" TO -L- STATION 12+00 IS
N 10-26°01.6" E 770.63(ft)

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

Prepared in the Office of:

GEL Engineering of NC, Inc. DBA

GEL SOLUTIONS

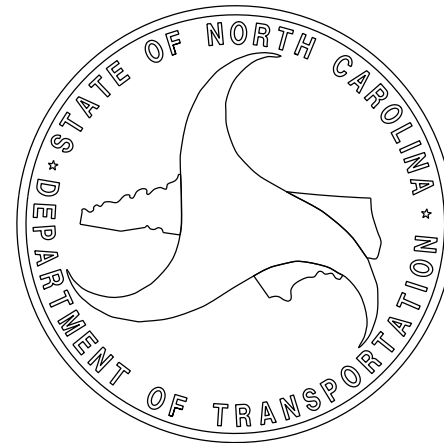
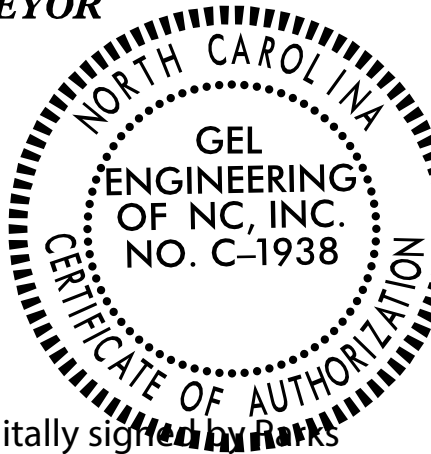
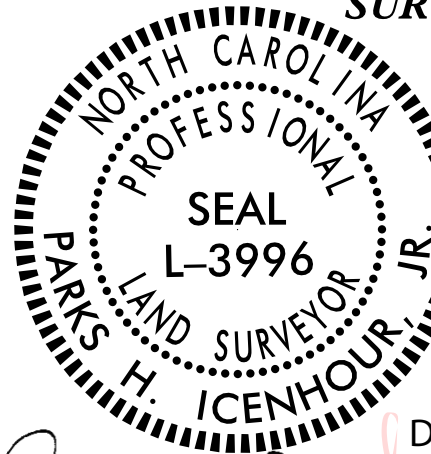
an Affiliate of THE GEL GROUP, INC.
111 CREEK RIDGE ROAD
SUITE C
GREENSBORO, NC 27406
(336) 516-9840
WWW.GEL-SOLUTIONS.COM

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
05/11/2023

LETTING DATE:
06/06/2024

PROFESSIONAL LAND
SURVEYOR



Digitally signed by
Parks H. Icenhour, Jr.

Digitally signed by
Icenhour
Date: 2023.06.20
10:16:00 -04'00'

SIGNATURE:

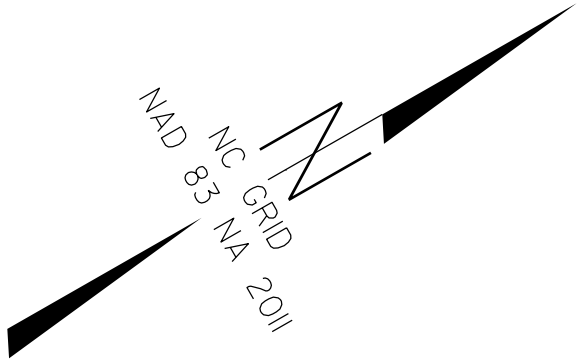
Date:

SURVEY CONTROL SHEET
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BL	POINT	DESC.	NORTH	EAST	ELEVATION
1		5722-1	966478.5205	1709453.9962	653.84
2		5722-2	967267.3660	1709457.4060	657.99
3		BL-3	967827.1070	1709483.8476	630.49
4		BL-4	968386.8636	1709777.9394	611.79

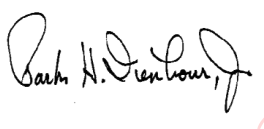
BM1 ELEVATION = 614.75
N 967975 E 1709660
60D NAIL IN A 12" POPLAR

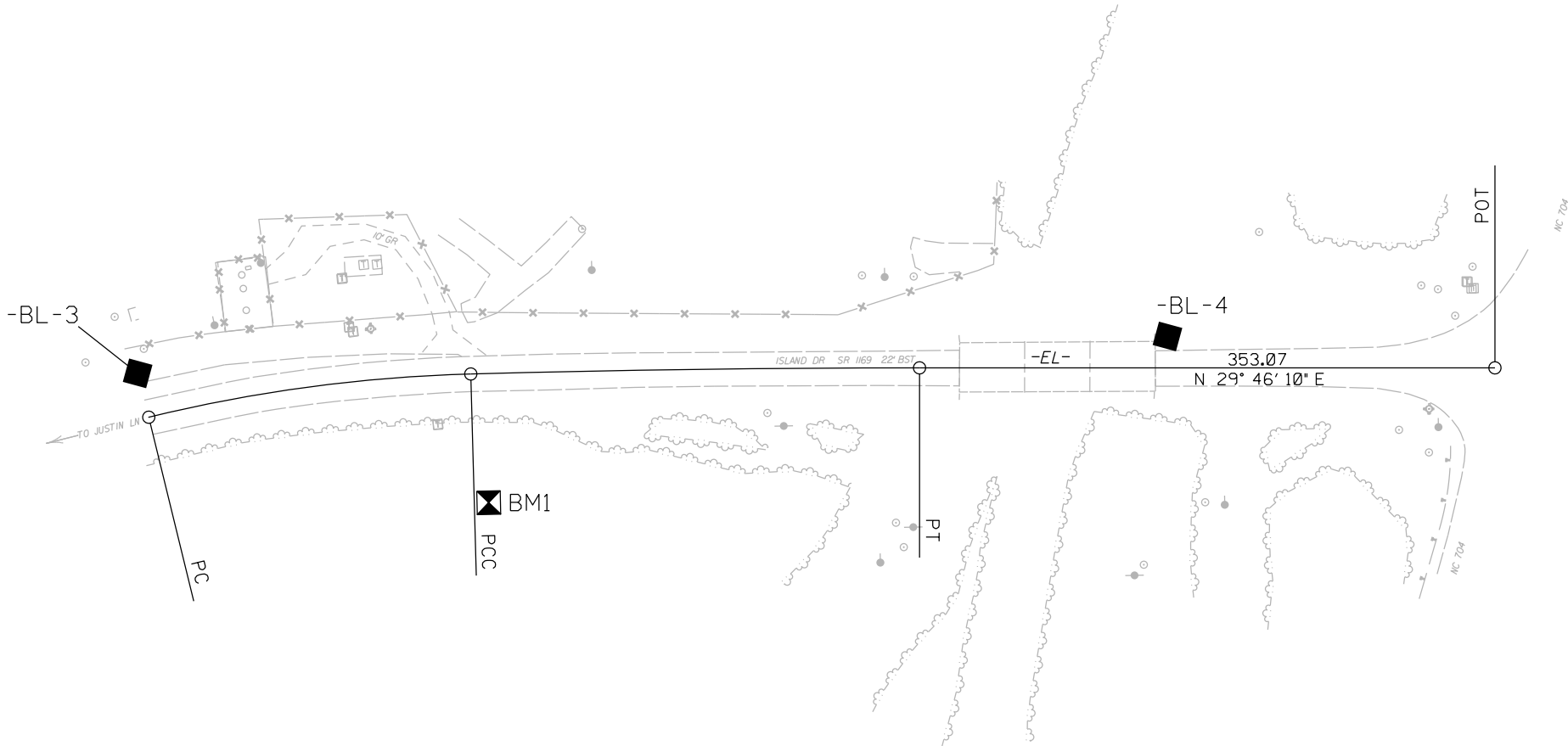
EL	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	967819.698	1709510.662							
CURVE			N 22°07'17.6" E	199.36	12°10'07.8"(RT)	06°05'43.3"	199.64	100.24	940.43
PCC	968004.382	1709585.735							
CURVE			N 28°59'15.9" E	275.39	01°33'48.7"(RT)	00°34'03.8"	275.40	137.71	10092.26
PT	968245.277	1709719.198							
LINE			N 29°46'10.2" E	353.07					
POT	968551.755	1709894.503							



I, Parks H Icenhour Jr, PLS, certify that the Project Control was performed by other from an actual GPS survey made by others and the following information was used to perform the survey:

Class of survey: **AA**
Type of GPS field procedure:
Dates of survey: Unknown
Datum/Epoch: NAD83/NA2011
Published/Fixed-control use: N/A
Localized around: B5722-2
Northing: 967267.366
Easting: 1709457.406
Combined grid factor: 1.00004815
Geoid model: 12NC
Units: FEET

This 20th day of June, 2023.
 Digitally signed by Parks Icenhour
Date: 2023.06.20 10:16:52 -04'00'
Professional Land Surveyor L-3996



NOTES:

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- 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.

PROJECT REFERENCE NO.	SHEET NO.
B5722	RW02D-1

Location and Surveys

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111 CREEK RIDGE ROAD
SUITE C
GREENSBORO NC 27406
(336) 516-9840
WWW.GEL-SOLUTIONS.COM

PROJECT SURVEYOR

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Parks H Icenhour Jr, 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 20th day of June, 2023.

Digitally signed by Parks
Icenhour
Date: 2023.06.20 10:17:3
-04'00'

Professional Land Surveyor L-3996

TYPE	STATION	NORTH	EAST
PC	10+00.00	967842.1346	1709517.4150
PCC	11+76.04	968004.1423	1709585.6176
PT	14+50.80	968244.4873	1709718.7464
POT	18+25.00	968568.8920	1709905.2660

NOTES:

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.

PROJECT REFERENCE NO.	SHEET NO.
B5722	RW03E-1
Location and Surveys	
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PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

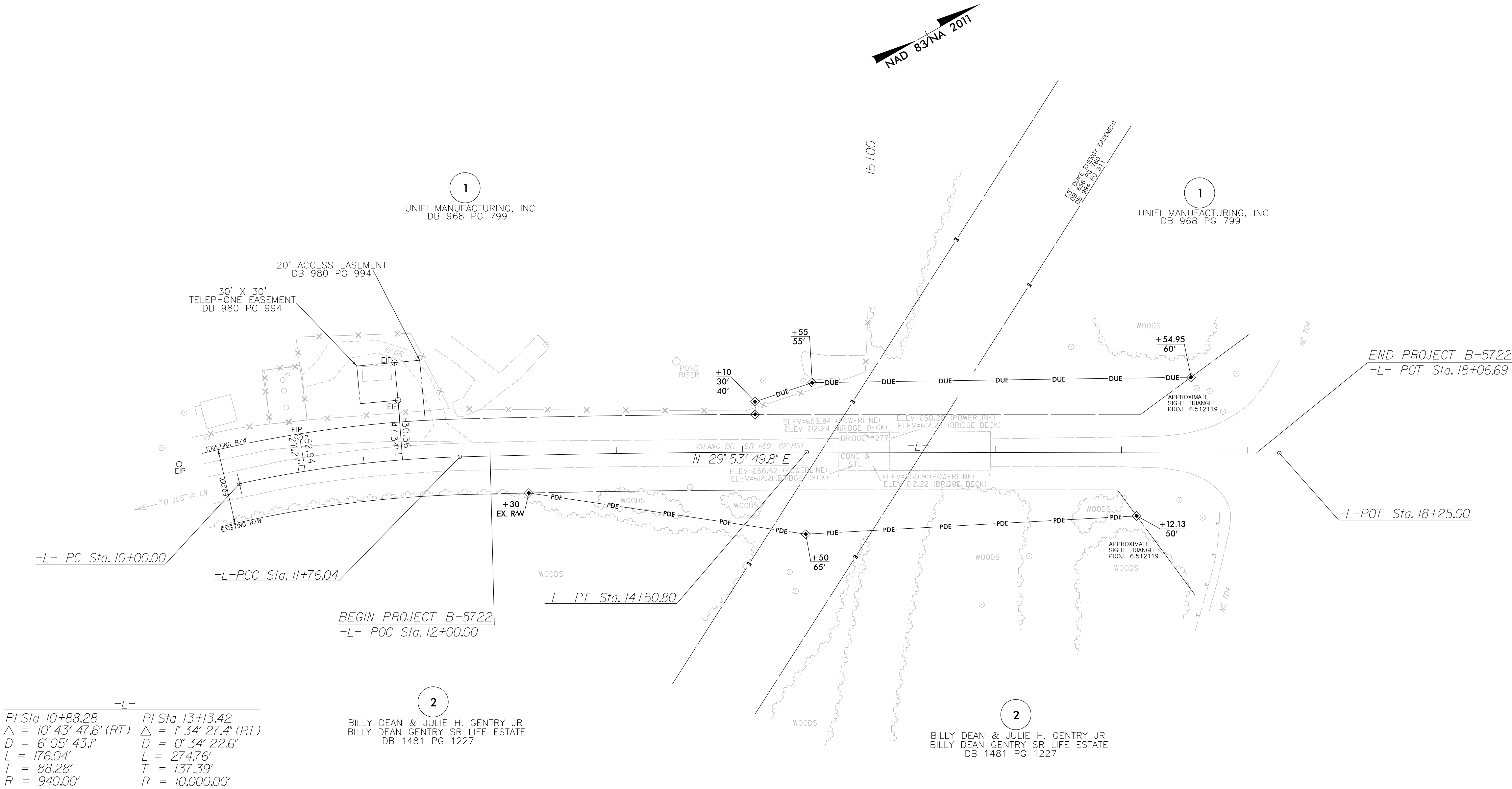
This 5th day of September, 2023, Digitally signed by Parks
Icenhour
Date: 2023.09.05 18:54:17
Professional Land Surveyor L-3996 04'00'

PERMANENT EASEMENT REBAR AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
L	12+30.00	30.00	968037.3187	1709637.6041
L	14+10.00	-40.00	968228.7518	1709663.7606
L	14+10.00	-30.00	968223.8207	1709672.4636
L	14+50.00	65.00	968211.5268	1709774.7752
L	14+55.00	-55.00	968275.546	1709673.161
L	17+12.13	50.00	968446.1216	1709892.3533
L	17+54.95	-60.00	968538.0716	1709818.3351

NOT SET (GAS LINE CONSTRUCTION)

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 6-8-23 TO 6-14-23 .

REVISIONS



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 6-7-23 TO 6-14-23.

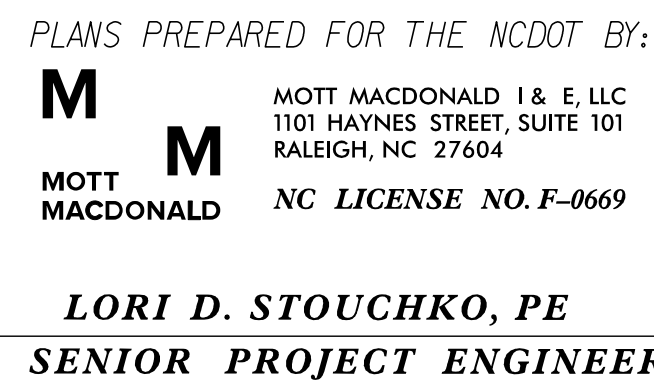
PROJECT REFERENCE NO.	SHEET NO.
B5722	RW04
Location and Surveys	
GEL SOLUTIONS an Affiliate of THE GEL GROUP, INC. 111 CREEK RIDGE ROAD SUITE C GREENSBORO, NC 27406 (336) 516-8840 WWW.GEL-SOLUTIONS.COM	
PROJECT SURVEYOR Digital Signature of Andy Smith Date: 2023.09.05 18:53:37 -04'00'	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

A map of North Carolina showing its county boundaries. Johnston County, located in the central-eastern part of the state, is highlighted in black. It is bordered by Wayne County to the north, Jones County to the east, and Wake and Franklin counties to the south.

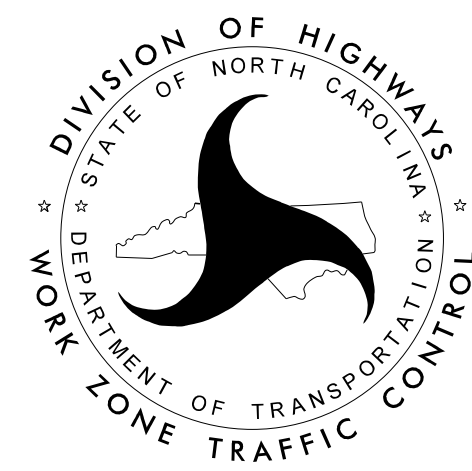
B-5722 PROJECT LIMITS

VICINITY MAP
(NOT TO SCALE)

OFF-SITE DETOUR



DANIEL DAGENHART
DIVISION BRIDGE
PROGRAM MANAGER



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

SEAL



TIP PROJECT:

ROADWAY STANDARD DRAWINGS

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

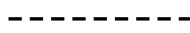
STD. NO.	TITLE
1101.03	TEMPORARY ROAD CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1130.01	DRUM
1145.01	BARRICADES
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.12	PAVEMENT MARKINGS - BRIDGES

LEGEND

GENERAL

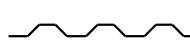
 DIRECTION OF TRAFFIC FLOW

 DIRECTION OF PEDESTRIAN TRAFFIC FLOW

 EXIST. PVMT.

 NORTH ARROW

 PROPOSED PVMT.

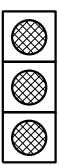
 TEMP. SHORING (LOCATION PURPOSES ONLY)

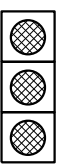
 WORK AREA

 REMOVAL

SIGNALS

 EXISTING

 PROPOSED

 TEMPORARY

PAVEMENT MARKINGS

 EXISTING LINES

 TEMPORARY LINES

TRAFFIC CONTROL DEVICES

 BARRICADE (TYPE III)

 CONE

 DRUM  SKINNY DRUM  TUBULAR MARKER

 TEMPORARY CRASH CUSHION

 FLASHING ARROW BOARD

 FLAGGER

 LAW ENFORCEMENT

 TRUCK MOUNTED ATTENUATOR (TMA)

 CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

 PORTABLE SIGN

 STATIONARY SIGN

 STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

 CRYSTAL/CRYSTAL

 CRYSTAL/RED

 YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

 STRAIGHT ARROW

 COMBO LEFT/RIGHT ARROW

TEMPORARY PAVEMENT MARKING

PAINT PAVEMENT MARKING SYMBOL	4 EA
REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS	4 EA

PAVEMENT MARKING

THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	2,872 LF
THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS)	25 LF
THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	4 EA

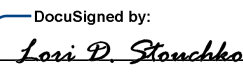
PROJ. REFERENCE NO.
B-5722

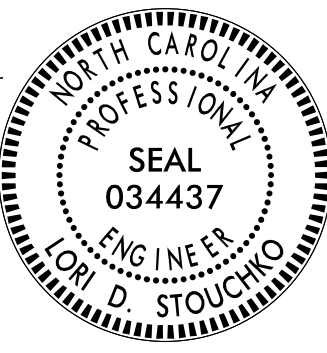
SHEET NO.
TMP-1A

PLANS PREPARED FOR THE NCDOT BY:

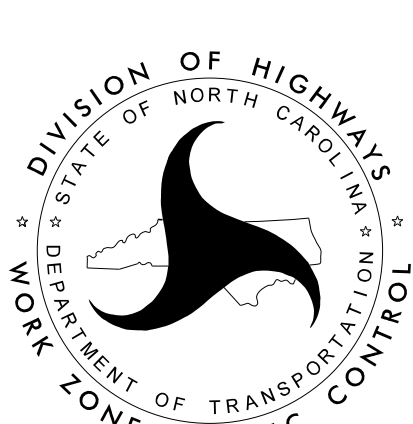
MOTT MACDONALD
MOTT MACDONALD

MOTT MACDONALD 1 & E, LLC
1101 HAYNES STREET, SUITE 101
RALEIGH, NC 27604
NC LICENSE NO. F-0669

APPROVED: 
DATE: 20-May-2025

SEAL


DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



ROADWAY STANDARD
DRAWINGS & LEGEND

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 UNDESIREED 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) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- PAVEMENT MARKINGS AND MARKERS
- F) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:
- | ROAD NAME | MARKING |
|------------------|---------|
| NC 704 & SR 1169 | PAINT |
- G) 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.
- H) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- I) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

PHASING

- STEP 1: USING RSD 1101.03, SHEETS 1 AND 2 OF 9, AND SHEETS TMP-3 AND TMP-4, PLACE TEMPORARY DETOUR SIGNS AND COVER
- STEP 2: UNCOVER TEMPORARY DETOUR SIGNS AND CLOSE -L- TO TRAFFIC
- USE DRUMS 20' ON CENTER TO CLOSE THE NB NC 704 LEFT TURN LANE ON THE WB APPROACH TO THE INTERSECTION OF SR 1169 AND NC 704 (SEE TMP-3, INSERT A)
- PLACE TEMPORARY PAVEMENT MARKING SYMBOLS  ON SR 1169 ON THE SB APPROACH TO THE INTERSECTION OF SR 1169 AND NC 704 (SEE TMP-3, INSERT A)
- REMOVE AND REPLACE EXISTING PAVEMENT MARKING SYMBOLS  WITH TEMPORARY PAVEMENT MARKING SYMBOL  AT THE EXISTING PAVEMENT MARKING SYMBOL LOCATIONS ON THE WB NC 704 APPROACH OF THE INTERSECTION OF SR 1169 AND NC 704. (SEE TMP-3, INSERT A)
- STEP 3: CONSTRUCT -L- AND PROPOSED STRUCTURE
- PLACE FINAL PAVEMENT MARKINGS ON -L-
- REMOVE TEMPORARY PAVEMENT MARKING SYMBOLS  ON SR 1169 ON THE SB APPROACH TO THE INTERSECTION OF SR 1169 AND NC 704. REPAIR PAVEMENT AS NEEDED OR AS DIRECTED BY ENGINEER
- REMOVE TEMPORARY PAVEMENT MARKING SYMBOLS  AND REPLACE WITH FINAL PAVEMENT MARKING SYMBOL  ON EB NC 704 ON THE APPROACH TO THE INTERSECTION OF SR 1169 AND NC 703.
- STEP 4: REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES AND OPEN -L- TO TRAFFIC

LOCAL NOTES

ROCKINGHAM COUNTY SCHOOL TRANSPORTATION WILL BE CONTACTED AT (336) 634-3275 AND ROCKINGHAM COUNTY EMS WILL BE CONTACTED AT (336) 634-3000 AT LEAST ONE MONTH PRIOR TO BRIDGE CLOSURE TO MAKE NECESSARY TEMPORARY REASSIGNMENTS.

PROJ. REFERENCE NO.	SHEET NO.
B-5722	TMP-1B

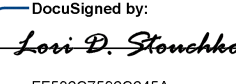
PLANS PREPARED FOR THE NCDOT BY:

M

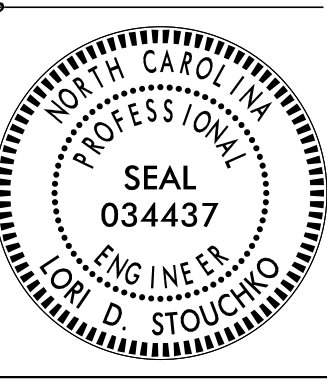
M

MOTT
MACDONALD

MOTT MACDONALD I & E, LLC
1101 HAYNES STREET, SUITE 101
RALEIGH, NC 27604
NC LICENSE NO. F-0669

APPROVED: 
DATE: 20-May-2025

SEAL





TRANSPORATION OPERATIONS
PLAN
GENERAL NOTES &
TEMPORARY TRAFFIC
CONTROL PHASING

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJ. REFERENCE NO.	SHEET NO.
B-5722	TMP-2

PLANS PREPARED FOR THE NCDOT BY:

MOTT
MACDONALD

MOTT
MACDONALD 1 & E, LLC
1101 HAYNES STREET, SUITE 101
RALEIGH, NC 27604
NC LICENSE NO. F-0669

SIGN NUMBER: SP-1 TYPE: STATIONARY QUANTITY: SEE PLANS SIGN WIDTH: 2'-0" HEIGHT: 2'-0" TOTAL AREA: 4.0 Sq.Ft. BORDER TYPE: INSET RECESS: 0.38" WIDTH: 0.63" RADII: 1.5" NO. Z BARS: LENGTH: BACKG COLOR: Fluorescent Orange COPY COLOR: Black <table><tr><th>SYMBOL</th><th>X</th><th>Y</th><th>WID</th><th>HT</th></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> MAT'L: 0.080" (2.0 mm) ALUMINUM	SYMBOL	X	Y	WID	HT																																				DESIGN BY: S COLEMAN PROJECT ID: B-5722 CHECKED BY: PJJ LOCATION: Jan 11, 2023 DIV: 7 2'-0" 2'-0" ISLAND DR 5" 5" 4" 5" 5" 2.65" 18.7" 2.65" BORDER R=1.5" TH=0.63" IN=0.38" Spacing Factor is 1 unless specified otherwise																																																																																																																																																																																																																																																																																																		
SYMBOL	X	Y	WID	HT																																																																																																																																																																																																																																																																																																																																							
USE NOTES: 1,2 1. Legend and border shall be direct applied black non-reflective sheeting. 2. Background shall be NC GRADE B fluorescent orange retroreflective sheeting.																																																																																																																																																																																																																																																																																																																																											
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ISO Plot.dgn

APPROVED:

DocuSigned by:
Lori D. Stoucho

DATE: 20-May-2025

SEAL

SEAL

034437

ENGINEER

LORI D. STOUCHO

DOCUMENT NOT CONSIDERED FINAL

UNLESS ALL SIGNATURES COMPLETED

DIVISION OF HIGHWAYS

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

WORK ZONE TRAFFIC CONTROL

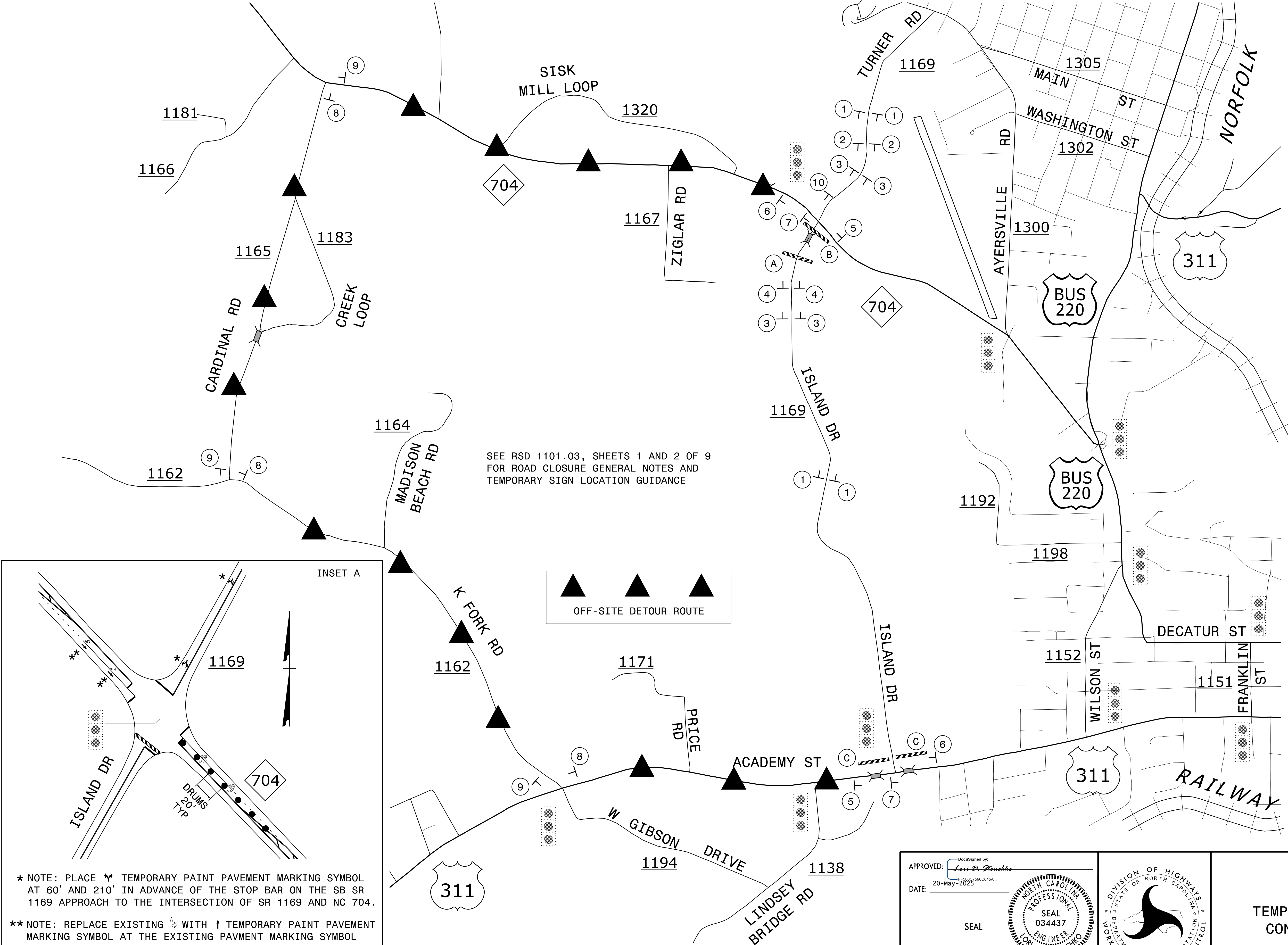
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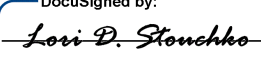
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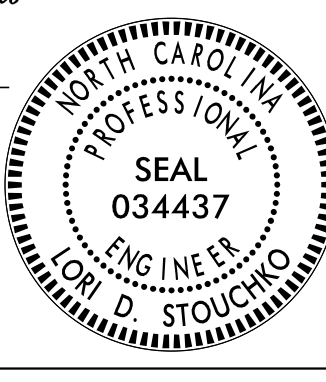
PROJ. REFERENCE NO.	SHEET NO.
B-5722	TMP-3

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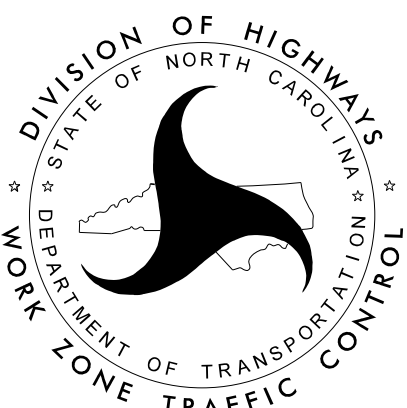
M MOTT MACDONALD I & E, LLC
1101 HAYNES STREET, SUITE 101
RALEIGH, NC 27604
M MOTT MACDONALD NC LICENSE NO. F-0669



APPROVED: 
DATE: 20-May-2025

SEAL


DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



TEMPORARY TRAFFIC
CONTROL DETOUR

PROJ. REFERENCE NO.	SHEET NO.
B-5722	TMP-4

PLANS PREPARED FOR THE NCDOT BY:

M

MOTT
MACDONALD

M

MOTT
MACDONALD I & E, LLC
1101 HAYNES STREET, SUITE 101
RALEIGH, NC 27604
NC LICENSE NO. F-0669

1

ROAD
CLOSED
AHEAD

W20-3
48" X 48"

0.4
MILES

W16-3P
30" X 24"

2

DETOUR
AHEAD

W20-2
48" X 48"

3

ROAD
CLOSED
1000 FT

W20-3
48" X 48"

4

ROAD
CLOSED
500 FT

W20-3
48" X 48"

5

ROAD
CLOSED
AHEAD

W20-3
48" X 48"

NEXT LEFT

SP-4L
42" X 12"

6

ROAD
CLOSED
AHEAD

W20-3
48" X 48"

NEXT RIGHT

SP-4R
42" X 12"

7

END
DETOUR

M4-8 A
24" X 18"

8

ISLAND
DR

SP-1
24" X 24"

DETOUR

M4-8
24" X 12"

→

M6-1
21" X 15"

9

ISLAND
DR

SP-1
24" X 24"

DETOUR

M4-8
24" X 12"

←

M6-1
21" X 15"

10

ISLAND
DR

SP-1
24" X 24"

DETOUR

M4-8
24" X 12"

↗

M5-1 R
21" X 15"

A

R11-2
48" x 30"

ROAD
CLOSED

TYPE III BARRICADE(S)

B

R11-2
48" x 30"

ROAD
CLOSED

DETOUR →

M4-10R
48" x 18"

TYPE III BARRICADE(S)

C

R11-3
60" x 30"

ROAD CLOSED
1.7 MILES AHEAD
LOCAL TRAFFIC ONLY

DETOUR ←

M4-10L
48" x 18"

TYPE III BARRICADE

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ISO Plot.dgn

APPROVED:

DocuSigned by:
Lori D. Stouchko
CF59BC759BC645A

DATE: 20-May-2025

SEAL

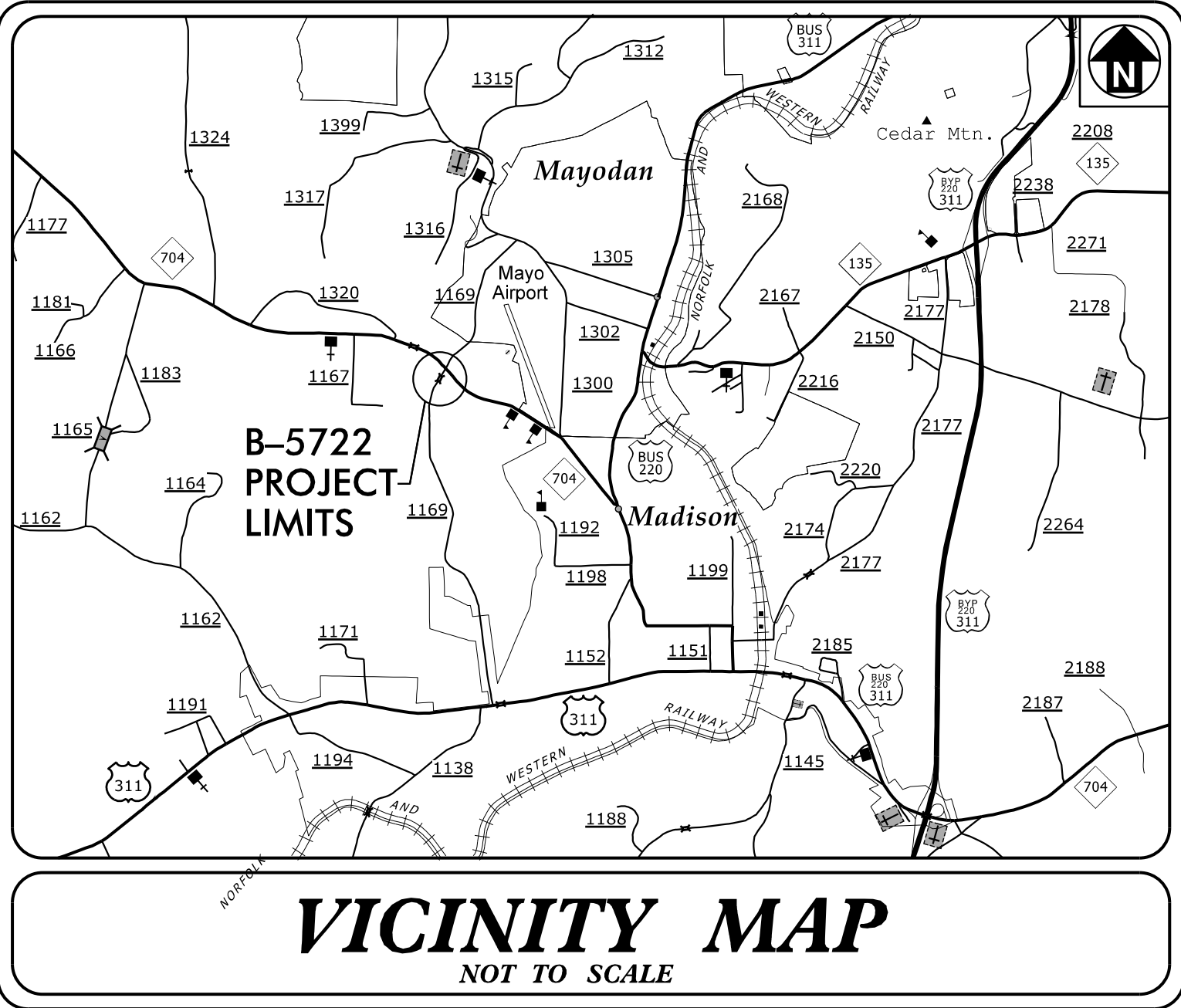
NORTH CAROLINA
PROFESSIONAL
ENGINEER
LORI D. STOUCO

SEAL
034437

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

TEMPORARY TRAFFIC
CONTROL DETOUR

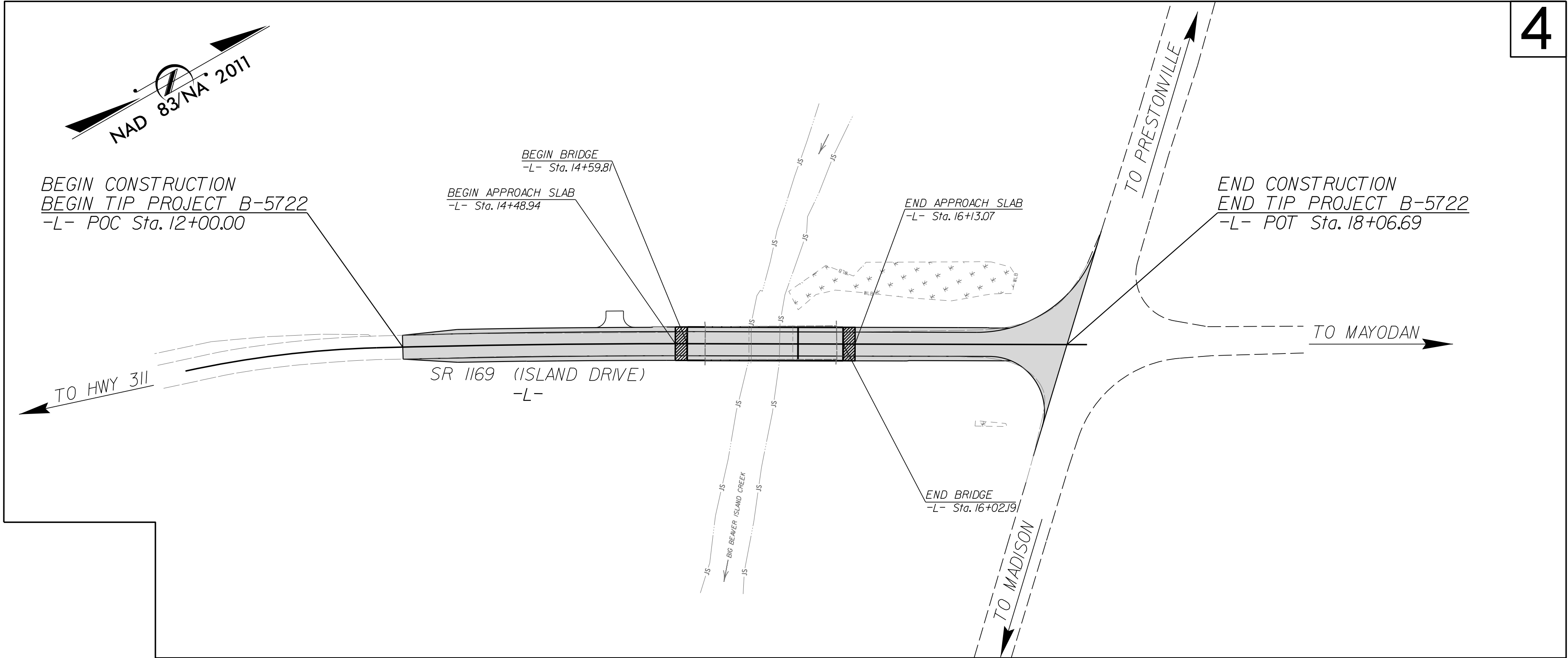
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N.C.	B-5722	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45678.1.1	BRZ-1169(003)	PE	
45678.2.1	BRZ-1169(003)	RW, UTL	
45678.3.1	BRZ-1169(003)	CONST	



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

LOCATION: BRIDGE NO. 277 OVER BIG BEAVER ISLAND CREEK ON SR 1169 (ISLAND DRIVE)

TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURE

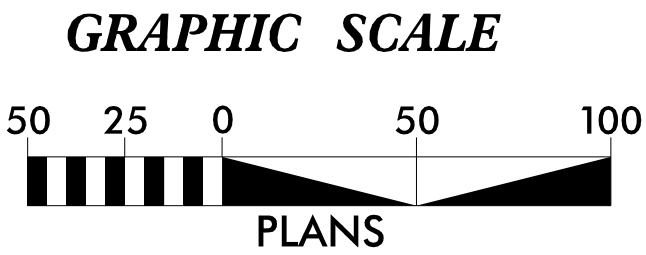


THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.

THIS PROJECT HAS
BEEN DESIGNED TO
SENSITIVE WATERSHED
STANDARDS.

ENVIRONMENTALLY
SENSITIVE AREA(S) EXIST
ON THIS PROJECT

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



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

M
MOTT
MACDONALD

930 Main Campus Drive
Suite 200
Raleigh, NC 27606
(919) 552-2253
www.mottmac.com

LICENSE NO. F-0669

Prepared In the Office of:
Mott MacDonald
930 Main Campus Drive, Suite 200
Raleigh, NC 27606

2024 STANDARD SPECIFICATIONS

Designed by:
Trenton J. Cormier
NAME

3377
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.

PROJECT REFERENCE NO.
B-5722

SHEET NO.
EC-02

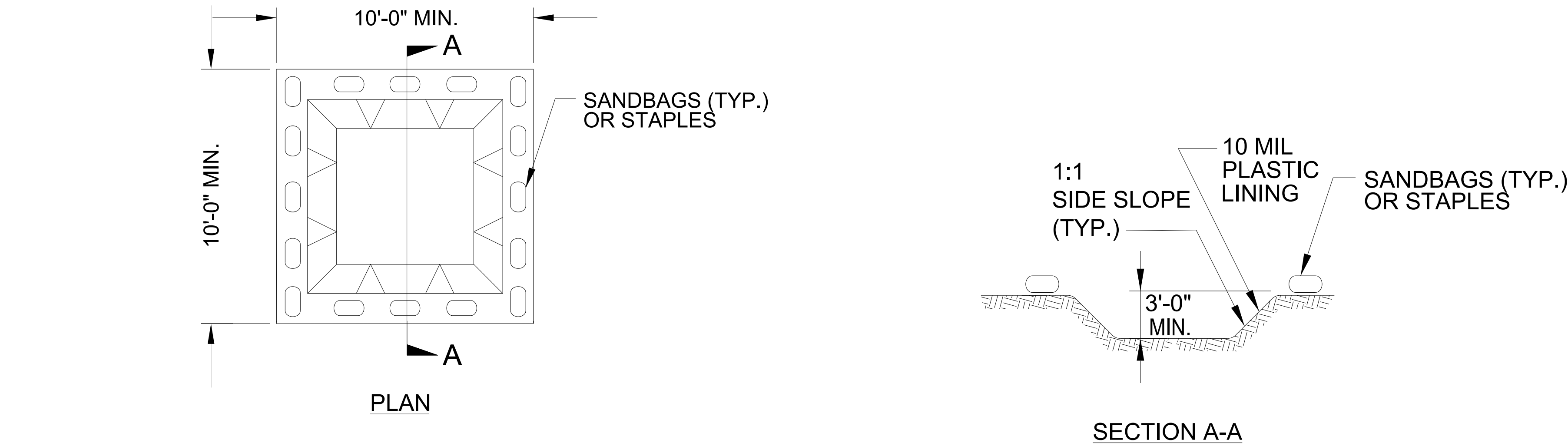
DIVISION OF HIGHWAYS

STATE OF NORTH CAROLINA

EROSION & SEDIMENT CONTROL LEGEND

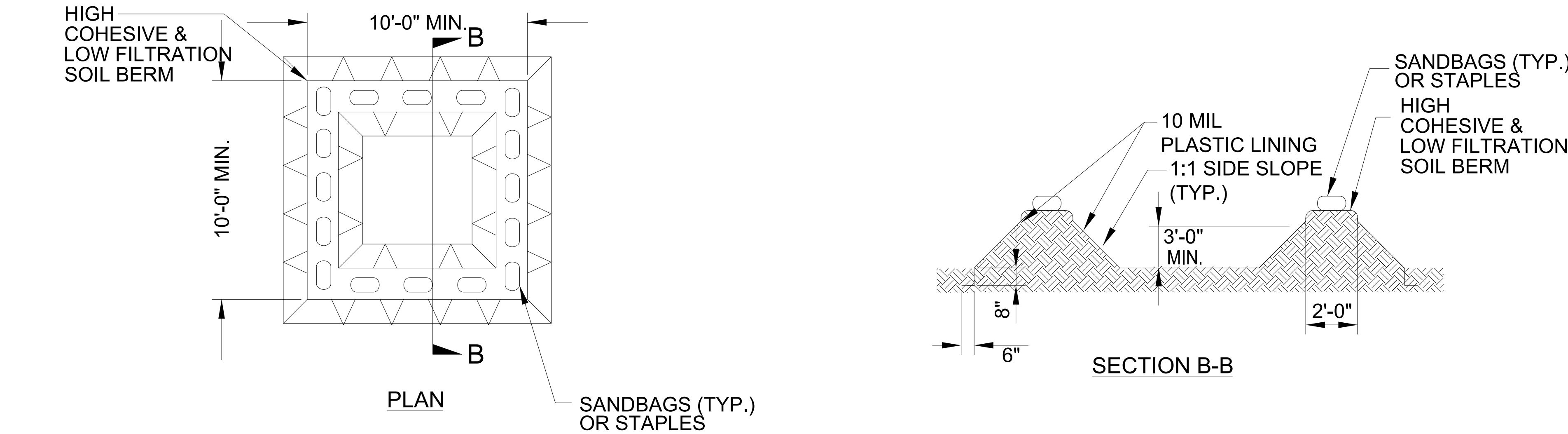
Std. #	Description	Symbol	Std. #	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior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

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



- 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.

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.

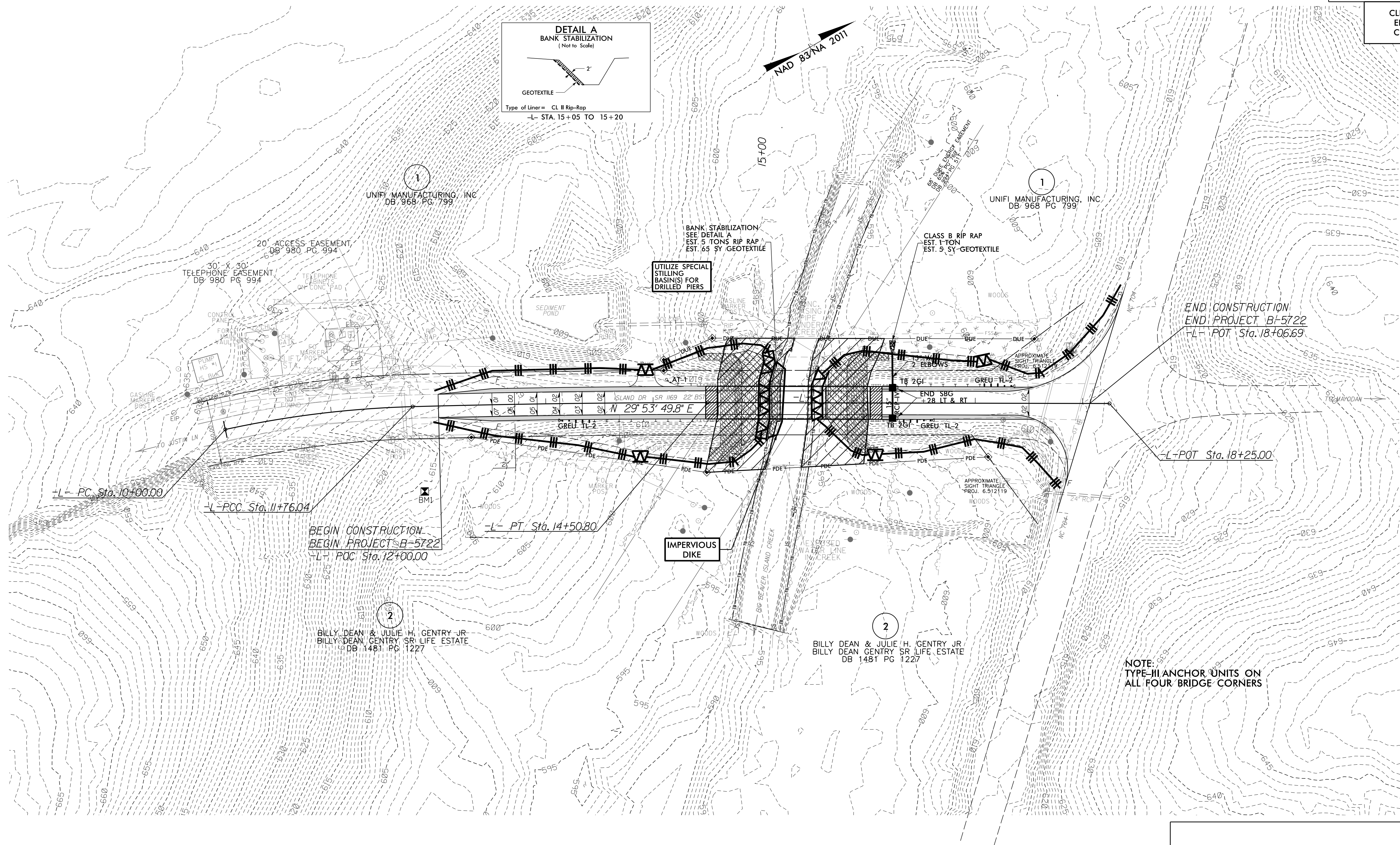
ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
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

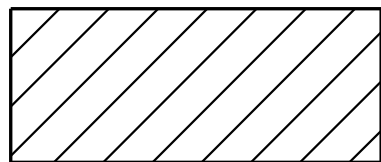
iso-pjordan
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NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED
WITHIN EXISTING RW OR EASEMENT.

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

PROJECT REFERENCE	SHEET NO.
B-5722 - ROCKINGHAM 277	EC-4 /CONST. 4
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	
Prepared in the Office of:	
MOTT MACDONALD 930 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmac.com/america	
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4	



ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

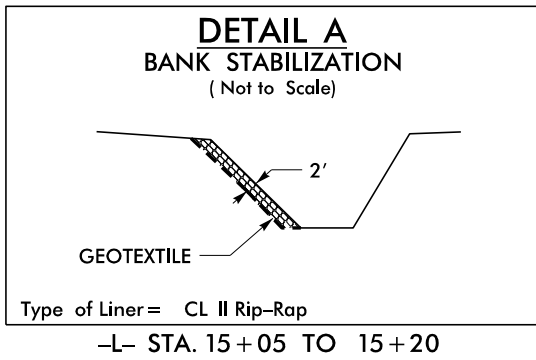
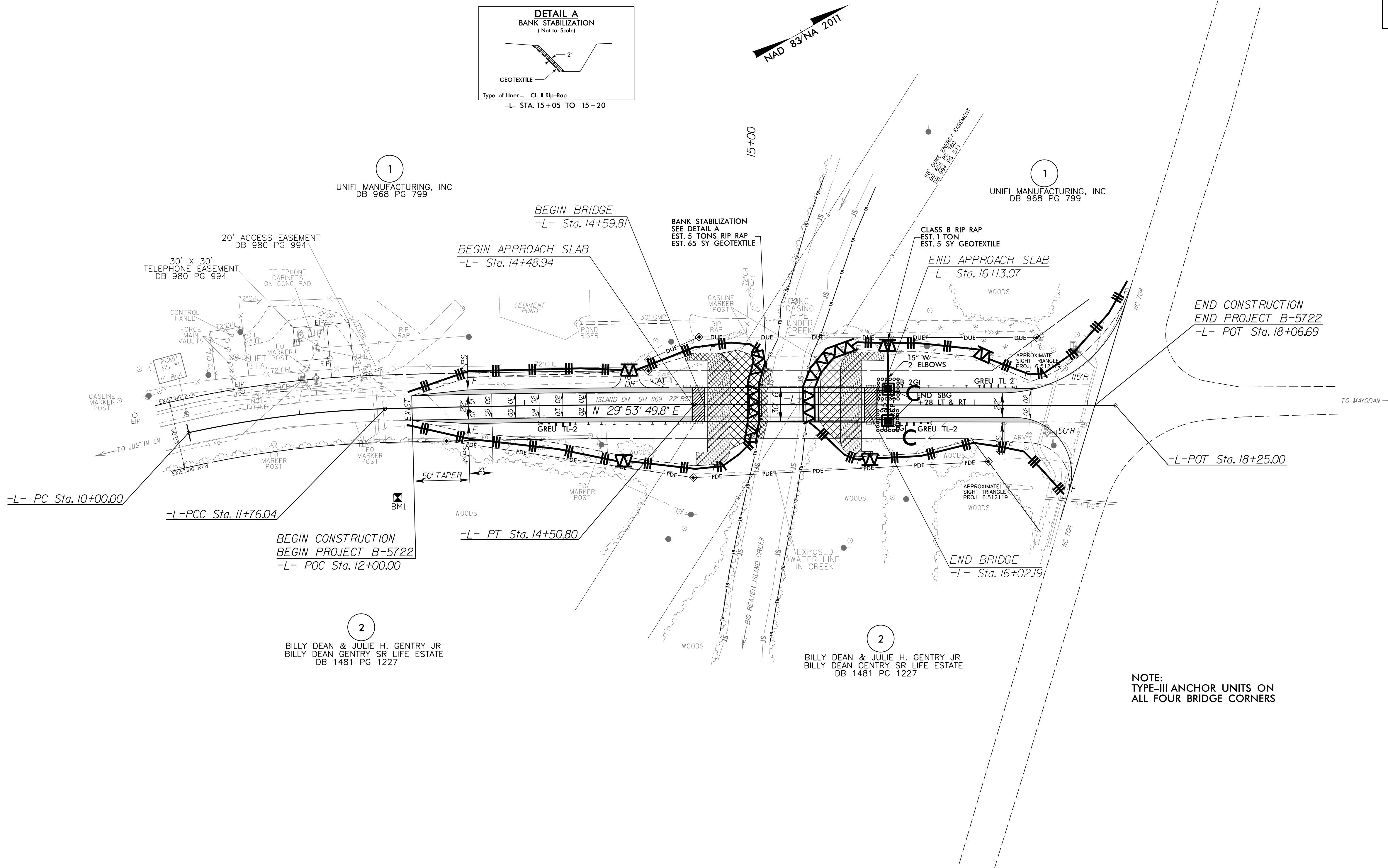
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*DESIGN EXCEPTION:
MIN. HORIZONTAL CURVE RADIUS
SAG VERTICAL CURVE K
HORIZONTAL SSD
VERTICAL SSD
SUPERELEVATION

NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED
WITHIN EXISTING R/W OR EASEMENT.

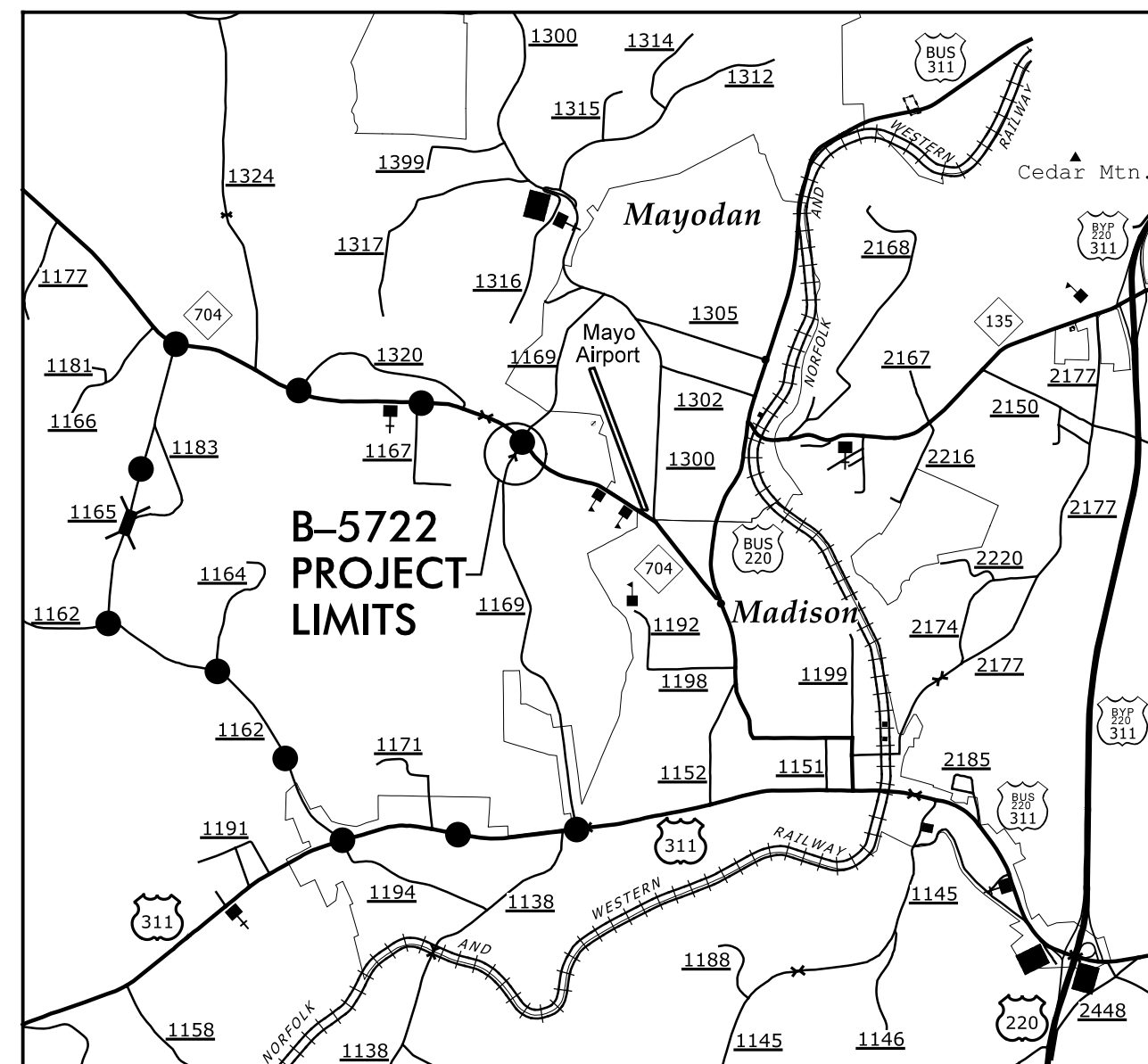
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B-5722 - ROCKINGHAM 277	EC-5 /CONST. 4
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	
Prepared in the Office of:	
M MOTT MACDONALD 930 Main Campus Drive, Suite 200 Raleigh, NC 27605 www.mottmac.com/america	

FINAL EROSION CONTROL FOR
CONSTRUCTION SHEET 4



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

TIP PROJECT: B-5722



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

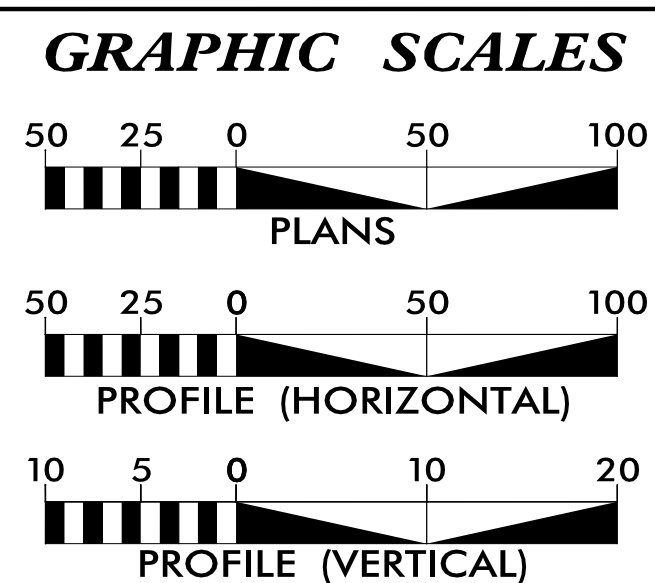
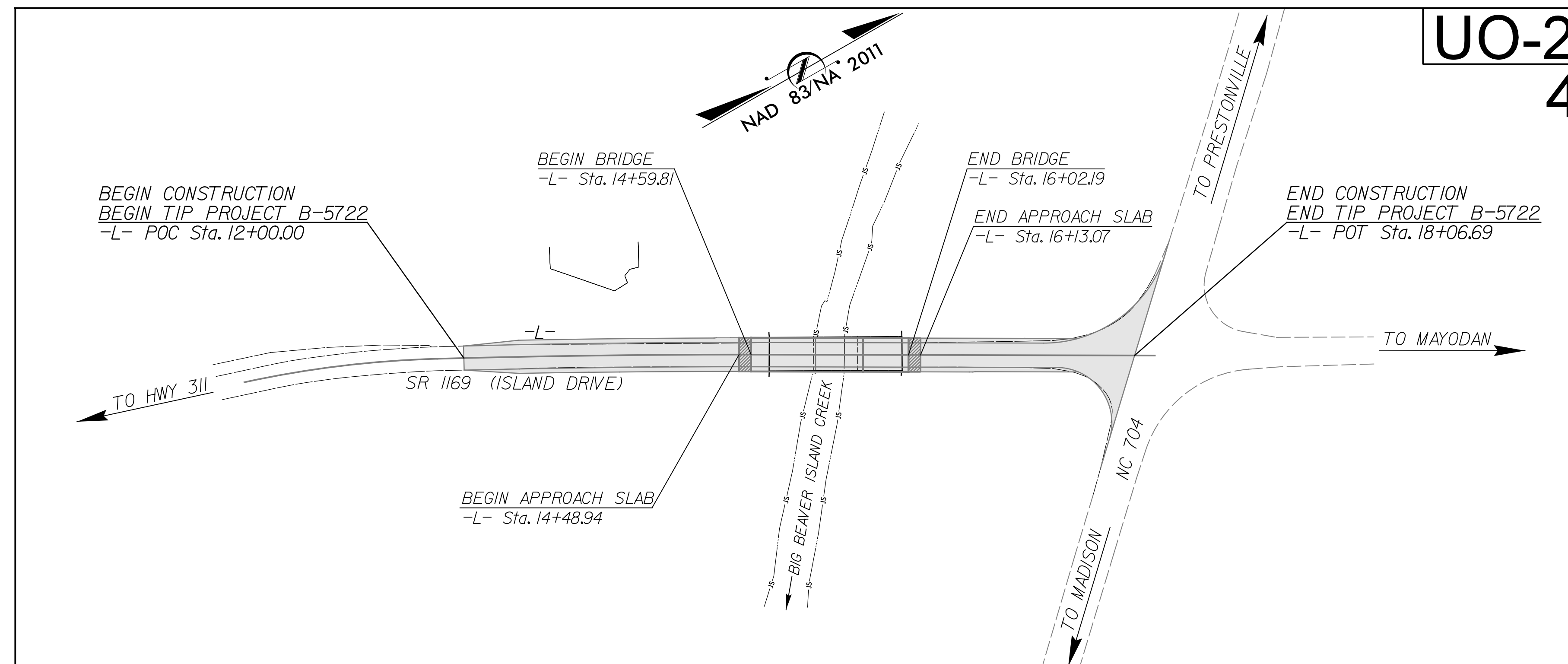
UTILITIES BY OTHERS PLANS ROCKINGHAM COUNTY

**LOCATION: BRIDGE NO. 277 OVER BIG BEAVER
ISLAND CREEK ON SR 1169 (ISLAND DRIVE)**

TYPE OF WORK: RELOCATION OF PHONE AND GAS

T.I.P. NO.	SHEET NO.
B-5722	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.



INDEX OF SHEETS

SHEET NO.:

UO-1

UO-02

DESCRIPTION:

TITLE SHEET

UBO PLAN SHEET

UTILITY OWNERS WITH CONFLICTS

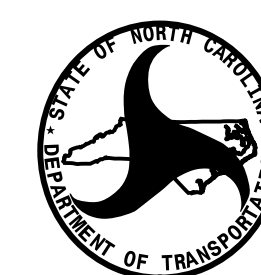
(A) GAS - PNG
(B) PHONE - BRIGHTSPEED
(C) SEWER - TOWN OF MADISON

PREPARED IN THE OFFICE OF:

Wooten

120 North Boylan Avenue • Raleigh, NC 27603-1423
(919) 828-0531 • thewootencompany.com
License Number: F-0115

<u>WEBB WHITE</u>	UTILITY PROJECT MANAGER
TOMMY MARTIN	PROJECT UTILITY COORDINATOR



DIVISION OF HIGHWAYS
DIVISION 7

1584 YANCEYVILLE STREET
GREENSBORO NC 27405

<u>CHRIS SMITHERMAN, PE</u>	PROJECT DELIVERY ENGINEER
<u>DANIEL R. DAGENHART</u>	BRIDGE PROGRAM MANAGER
<u>JAMES B. YATES, MS, PE</u>	DIVISION UTILITY ENGINEER

