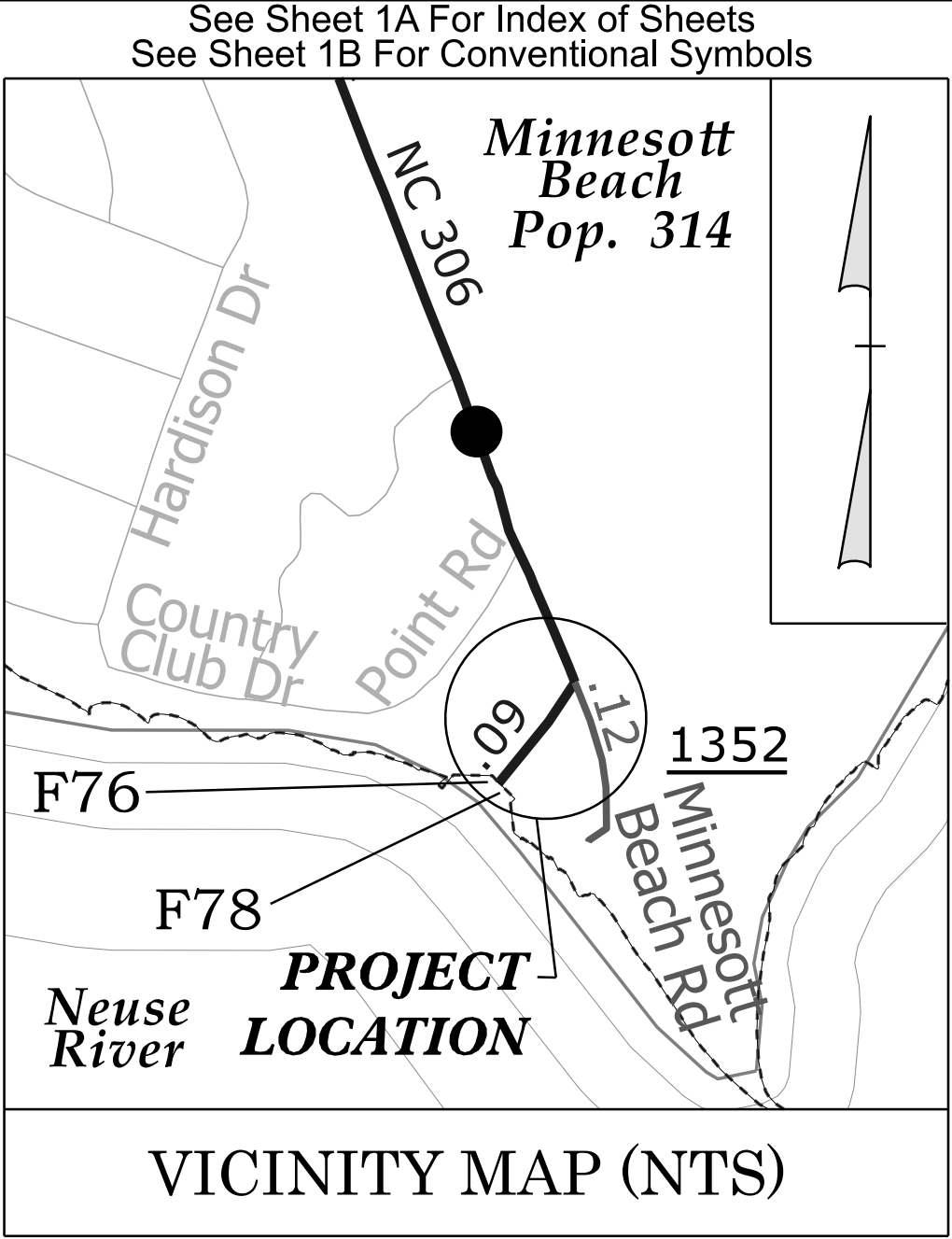


TIP PROJECT: BR-0173

CONTRACT: C205129



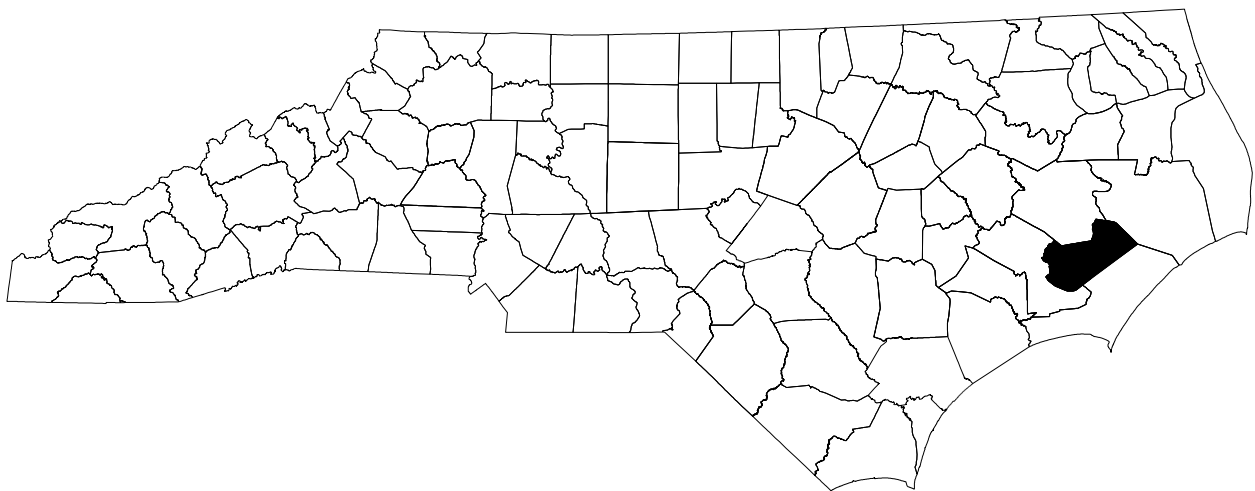
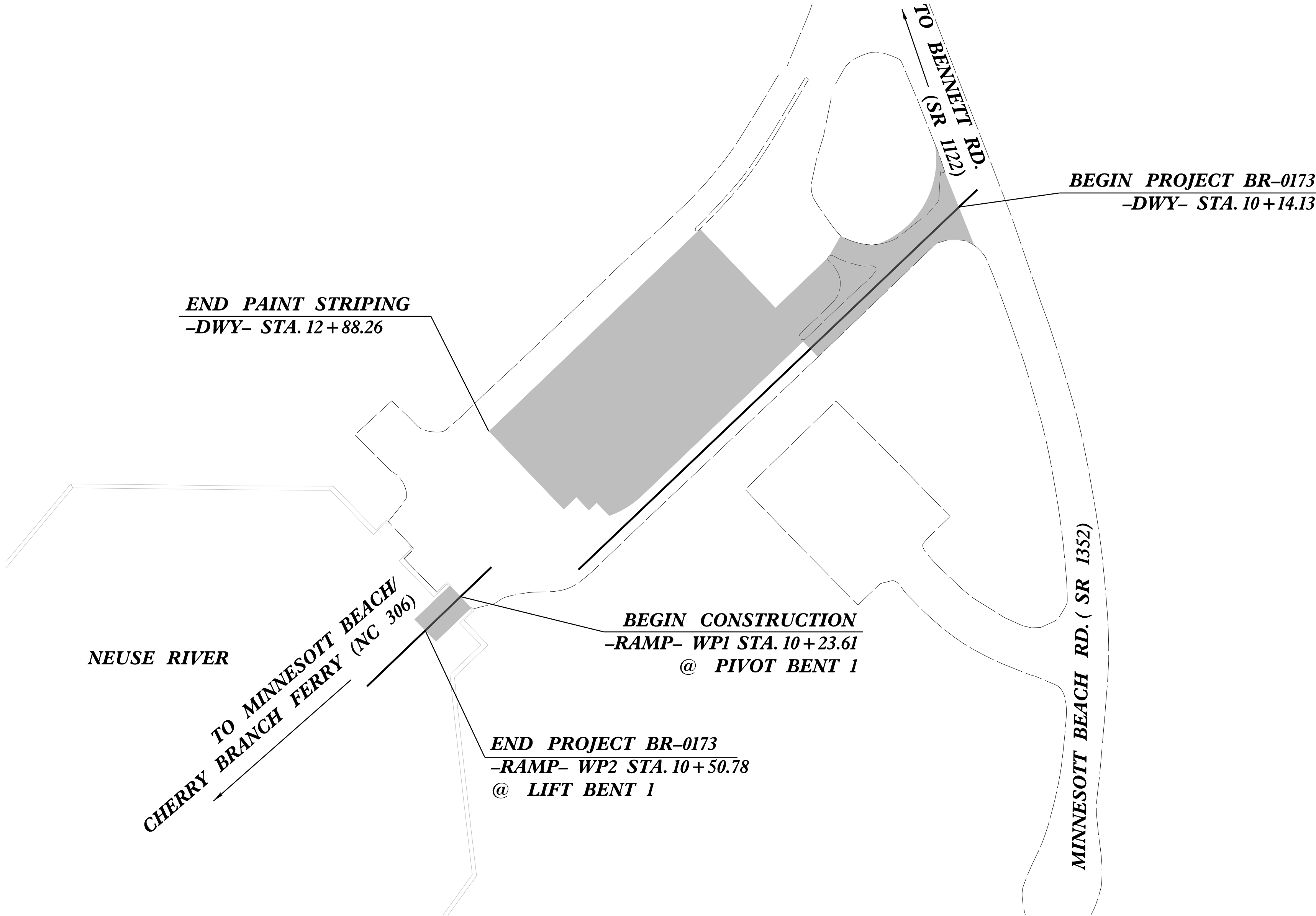
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PAMLICO COUNTY

LOCATION: *REPLACE STRUCTURE 680078 (FERRY RAMP) OVER THE NEUSE RIVER ON NC 306 AT THE MINNESOTT BEACH FERRY TERMINAL*

TYPE OF WORK: *GRADING, PAVING, DRAINAGE, AND STRUCTURES*

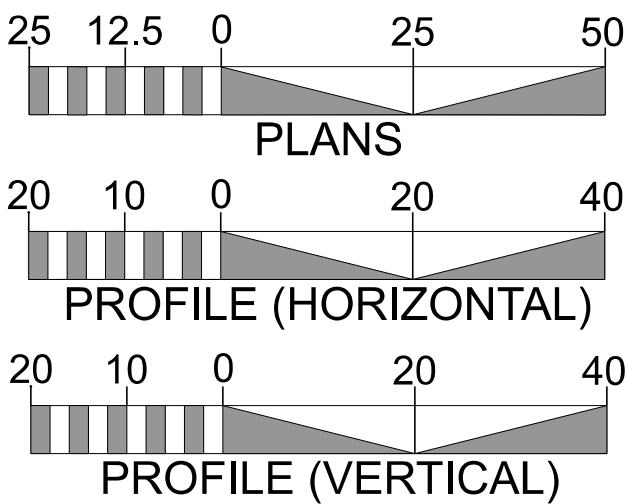
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0173	11	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
67173.1.1		PE	
67173.2.1		R/W	
67173.2.2		UTIL.	
51815.3.1	RAMP078	CONST.	



THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.
THIS PROJECT IS WITHIN THE MUNICIPALITY LIMITS OF THE TOWN OF MINNESOTT BEACH.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT BR-0173	=	0.052 MILES
LENGTH STRUCTURES TIP PROJECT BR-0173	=	0.005 MILES
TOTAL LENGTH TIP PROJECT BR-0173	=	0.057 MILES

PREPARED IN THE OFFICE OF:

RS&H

8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No.: F-0493



FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JULY 1, 2025

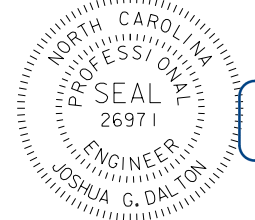
LETTING DATE:
JANUARY 20, 2026

SEAN KORTOVICH, PE
PROJECT ENGINEER

ALLISON HARRIS, PE
PROJECT DESIGN ENGINEER

ALEX FOSTER, PE
NCDOT CONTACT

HYDRAULICS ENGINEER



Signed by:
Joshua G. Dalton
1089ADBC14964C3...

P.E. 10/27/2025

SIGNATURE:

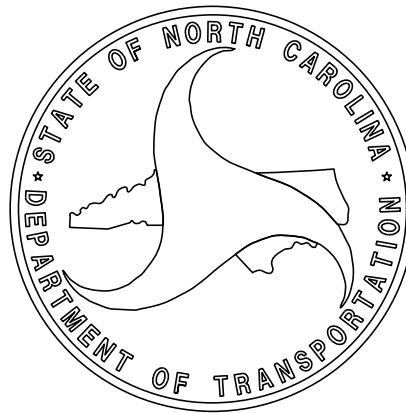
ROADWAY DESIGN ENGINEER



Signed by:
Alex Foster
ET741DD467CA471...

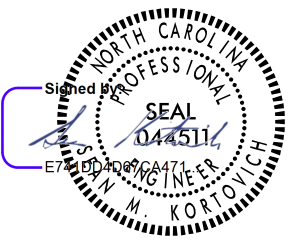
P.E. 10/27/2025

SIGNATURE:



BR-0173

1A



12/3/2025

EFF. 01-16-2024
REV.

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2C-1 THRU 2C-2	METHOD OF PIPE INSTALLATION DETAIL
2C-3	CHAIN LINK FENCE WITH BARBED WIRE DETAIL
3B-1	SUMMARIES
3D-1	DRAINAGE SUMMARY
3G-1	GEOTECHNICAL SUMMARY
4	PLAN SHEET
TMP-1 THRU TMP-5	TRANSPORTATION MANAGEMENT PLANS
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS
E-1 THRU E-5	ELECTRICAL PLANS
M-1 THRU M-8	MECHANICAL PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
S-1 THRU S-20	STRUCTURE PLANS
SN	STRUCTURE STANDARD NOTES SHEET

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

GRADING AND SURFACING OR RESURFACING AND WIDENING:

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

SUBSURFACE DRAINS:

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

TEMPORARY SHORING:

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

2024 ROADWAY ENGLISH STANDARD DRAWINGS

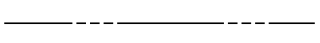
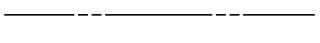
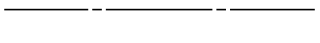
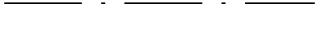
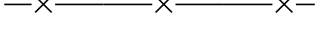
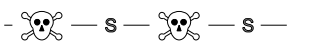
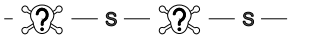
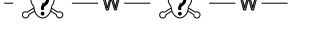
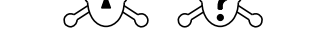
The following Roadway Standards as appear in "Roadway Standard Drawings" Contracts Standards and Development Unit - N. C. Department of Transportation - Raleigh, N. C., Dated January 16, 2024 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
225.02	GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL
DIVISION 3 - PIPE CULVERTS	
300.01	METHOD OF PIPE INSTALLATION (USE DETAILS IN LIEU OF STANDARDS FOR SHEET 2 OF 2)
DIVISION 8 - INCIDENTALS	
815.02	SUBSURFACE DRAIN
840.00	CONCRETE BASE PAD FOR DRAINAGE STRUCTURES
840.19	CONCRETE GRATED DROP INLET TYPE 'D' - 12" THRU 36" PIPE
840.24	FRAMES AND NARROW SLOT SAG GRATES
840.28	BRICK GRATED DROP INLET TYPE 'D' - 12" THRU 36" PIPE
840.66	DRAINAGE STRUCTURE STEPS
840.72	PIPE COLLAR
866.01	CHAIN LINK FENCE - 4', 5', AND 6' HIGH FENCE
876.02	GUIDE FOR RIP RAP AT PIPE OUTLETS

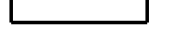
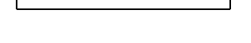
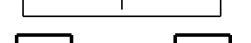
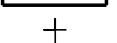
05/20/24

Note: Not to Scale

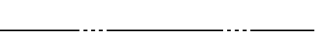
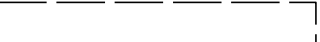
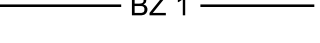
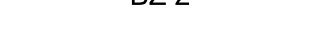
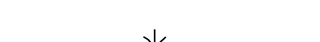
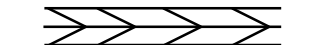
BOUNDARIES AND PROPERTY:

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	

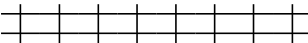
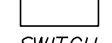
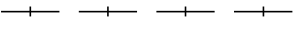
BUILDINGS AND OTHER CULTURE:

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

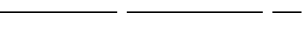
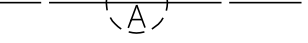
HYDROLOGY:

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	

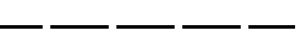
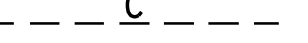
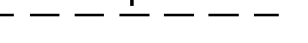
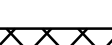
RAILROADS:

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:

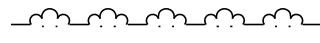
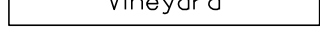
Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Curb Ramp	
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	
Pavement Removal	

VEGETATION:

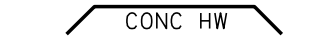
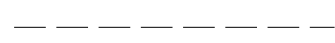
Single Tree	
Single Shrub	
Hedge	

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

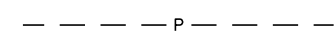
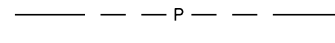
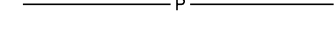
Woods Line	
Orchard	
Vineyard	

EXISTING STRUCTURES:

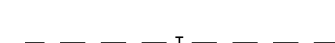
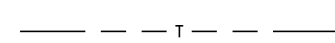
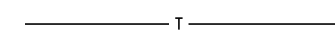
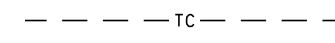
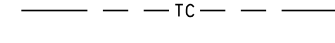
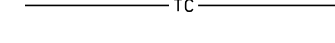
MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	

UTILITIES:

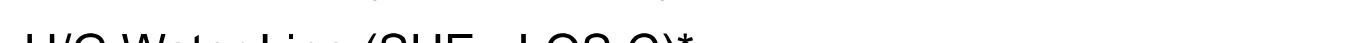
** SUE - Subsurface Utility Engineering
LOS - Level of Service - A,B,C or D (Accuracy)*

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	

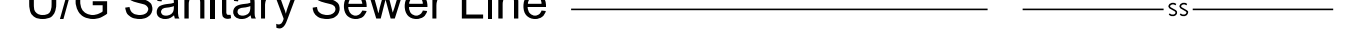
TV:

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)*	

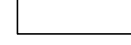
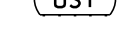
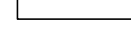
GAS:

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)*	

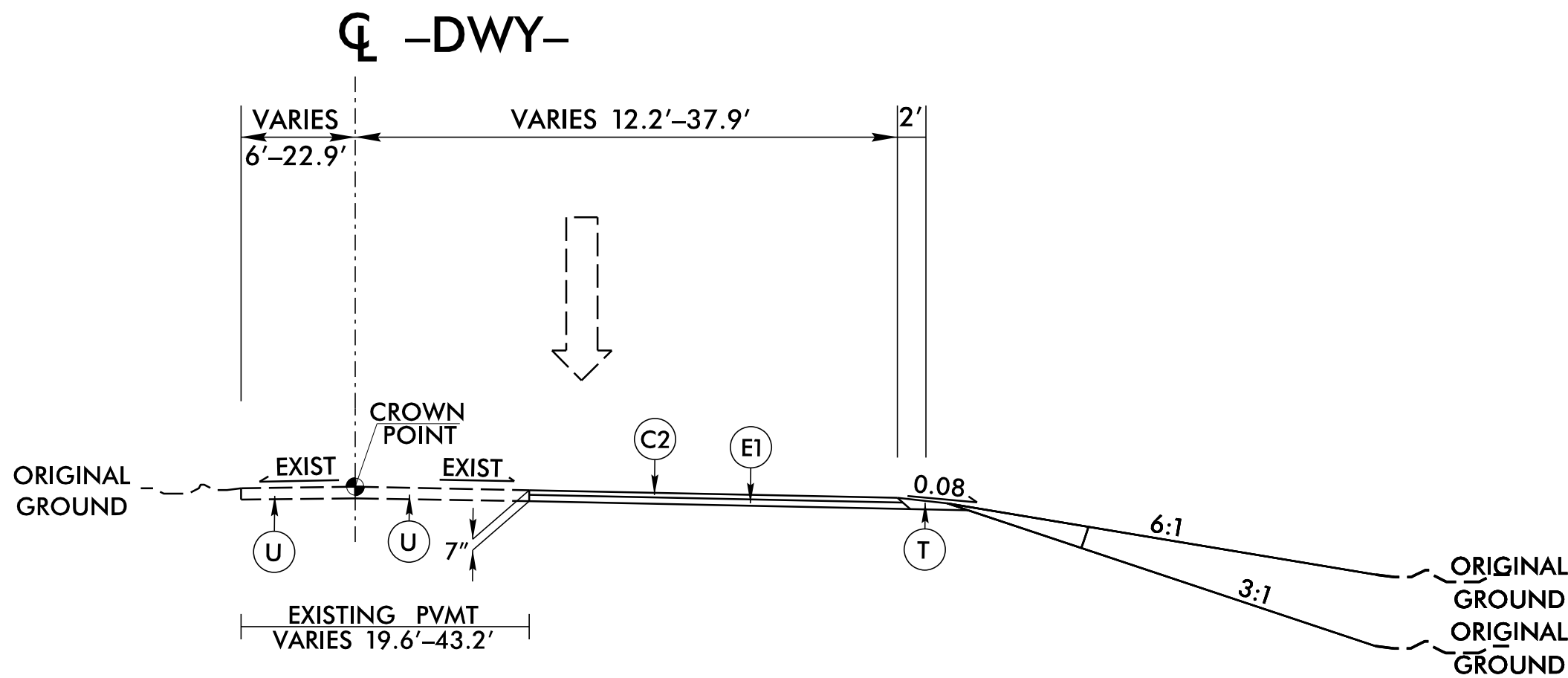
MISCELLANEOUS:

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	

BR-0173

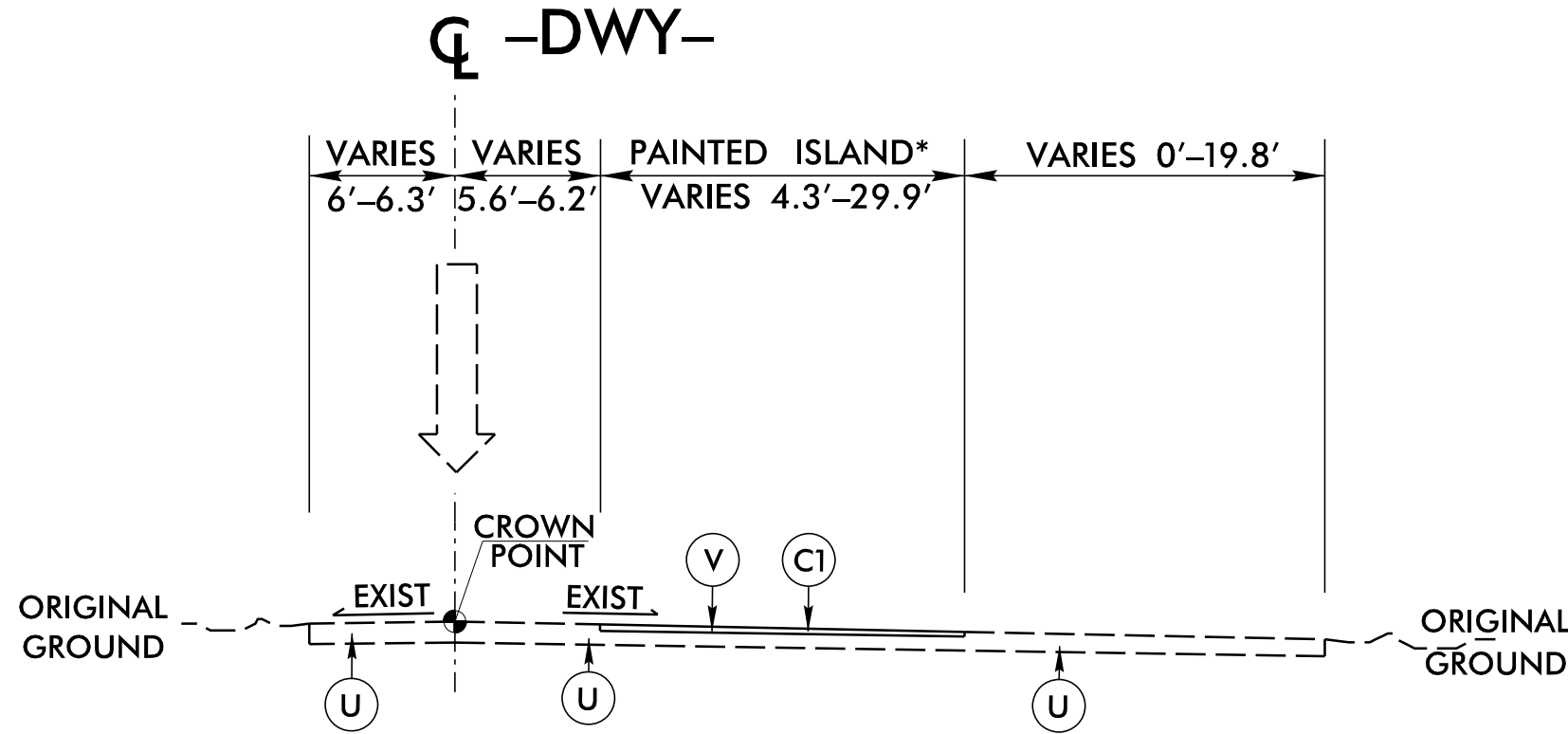
1B

FINAL PAVEMENT SCHEDULE			
RECEIVED ON 07/11/2025			
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	T	EARTH MATERIAL.
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.	U	EXISTING PAVEMENT.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	V	MILLING EXISTING PAVEMENT (0" TO 1.5").
J1	8" AGGREGATE BASE COURSE.	NOTE: PAVEMENT EDGES ARE 1:1 UNLESS SHOWN OTHERWISE.	



TYPICAL SECTION No. 1

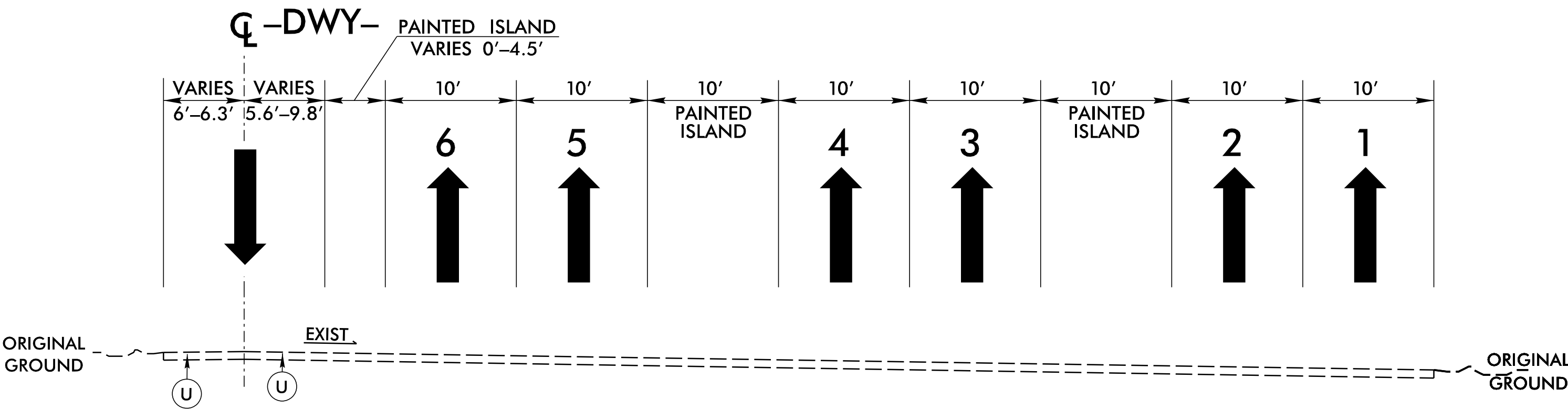
-DWY- STA. 10+14.13 TO STA. 10+61.40



TYPICAL SECTION No. 2

-DWY- STA. 10+61.40 TO STA. 11+27.95

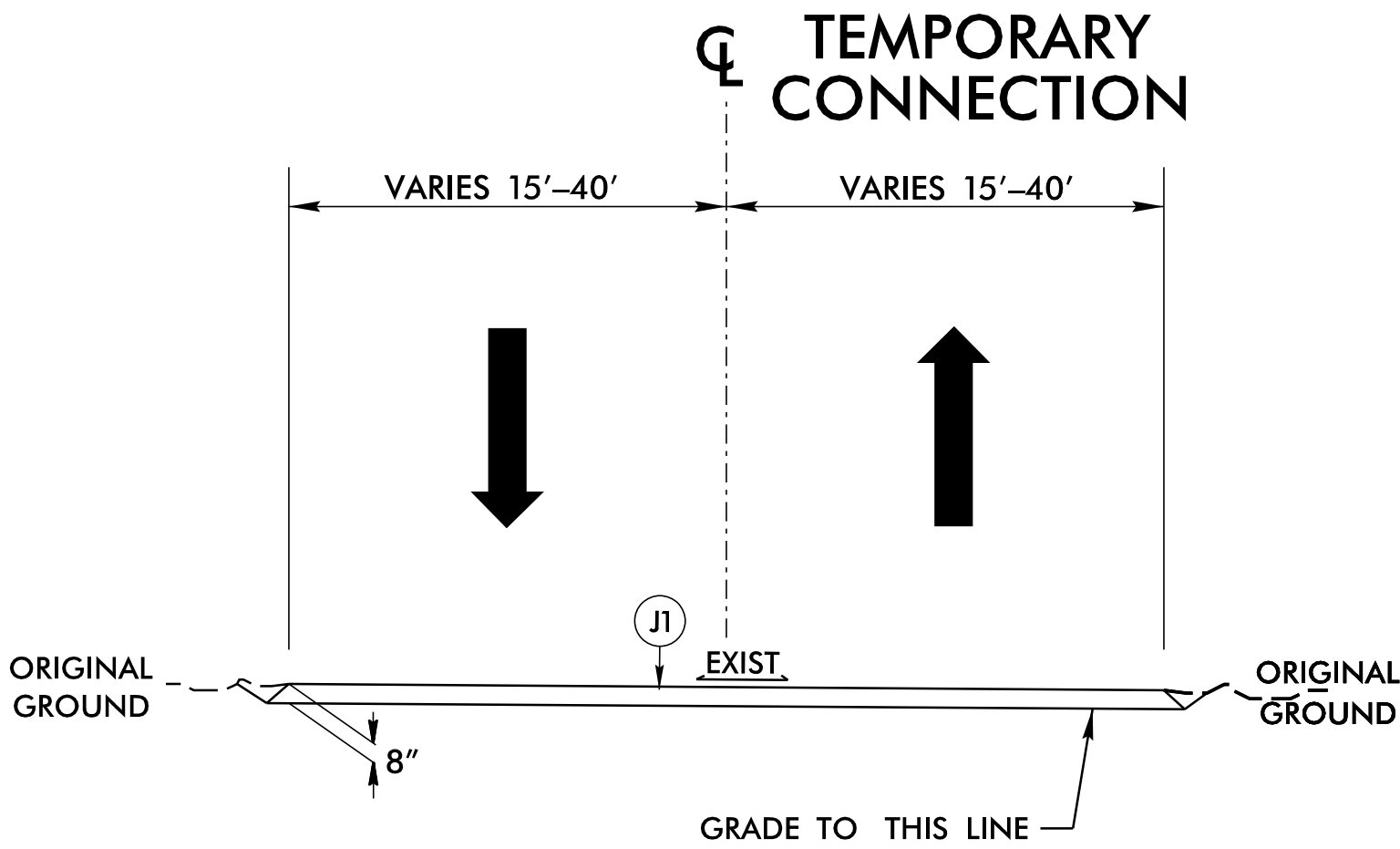
* REMOVE EXISTING CONCRETE ISLAND



TYPICAL SECTION No. 3

-DWY- STA. 11+27.95 TO STA. 12+88.26

PAINT STRIPING ONLY



TYPICAL SECTION No. 4

TEMPORARY CONNECTION FROM -DWY- LT TO PARKING LOT FOR CONSTRUCTION STAGING
-DWY- 11+25.21 TO -DWY- 12+05.20

BR-0173

2A-1

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
PAMLICO COUNTY

ROADWAY DESIGN UNIT
ROADWAY DESIGN
ENGINEER

SEAL
0445H
12/8/2025

PAVEMENT DESIGN
ENGINEER

SEAL
038176
12/8/2025

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PREPARED BY

RS&H

8521 SHAW ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE NO. P-9493

REVISIONS

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

ROADWAY DETAIL DRAWING FOR
METHOD OF PIPE INSTALLATION
FLEXIBLE PIPE

SHEET 1 OF 2
300.01

TOP OF FILL

NORMAL EARTH FOUNDATION

TOP OF FILL

**ROCK FOUNDATION
PIPE IN TRENCH**

TOP OF FILL

UNSUITABLE MATERIAL FOUNDATION

TOP OF FILL

NORMAL EARTH FOUNDATION

TOP OF FILL

**ROCK FOUNDATION
PIPE ABOVE GROUND**

TOP OF FILL

UNSUITABLE MATERIAL FOUNDATION

GENERAL NOTES:

I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.

O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.

H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT AT THAT POINT.

APPROVED SUITABLE LOCAL MATERIAL.

TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL.

LOOSELY PLACED SELECT MATERIAL CLASS III OR CLASS II, TYPE 1 FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.

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

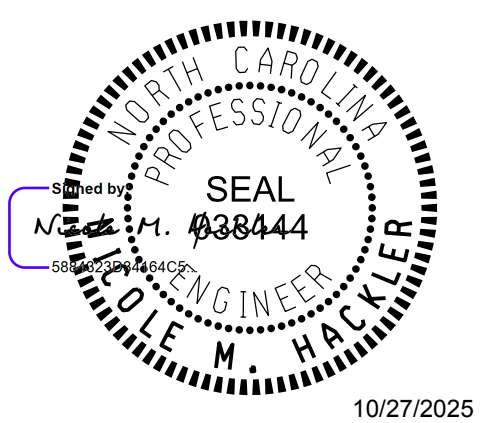
REFER TO NCDOT PIPE MATERIAL SELECTION GUIDE AND STANDARD SPECIFICATIONS FOR ALLOWABLE PIPE FILL HEIGHTS AND PIPE SPECIFICATIONS.

SPRINGLINE OF PIPE

SELECT BACKFILL MATERIAL CLASS III OR CLASS II, TYPE 1 ABOVE AND BELOW SPRINGLINE.

UNDISTURBED EARTH MATERIAL

SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH TYPE IV GEOTEXTILE AS DIRECTED BY THE ENGINEER.

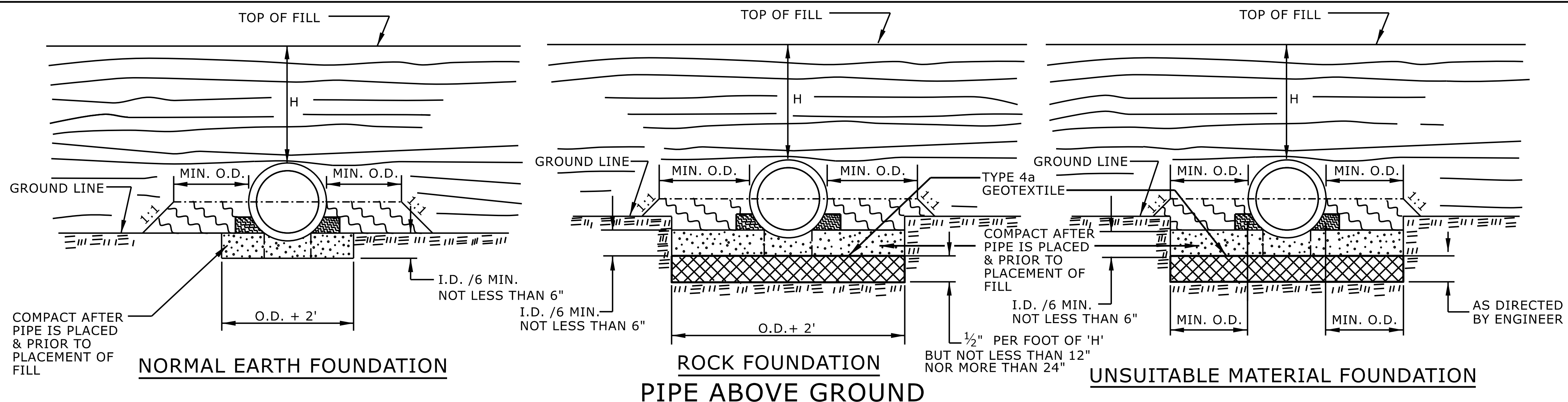
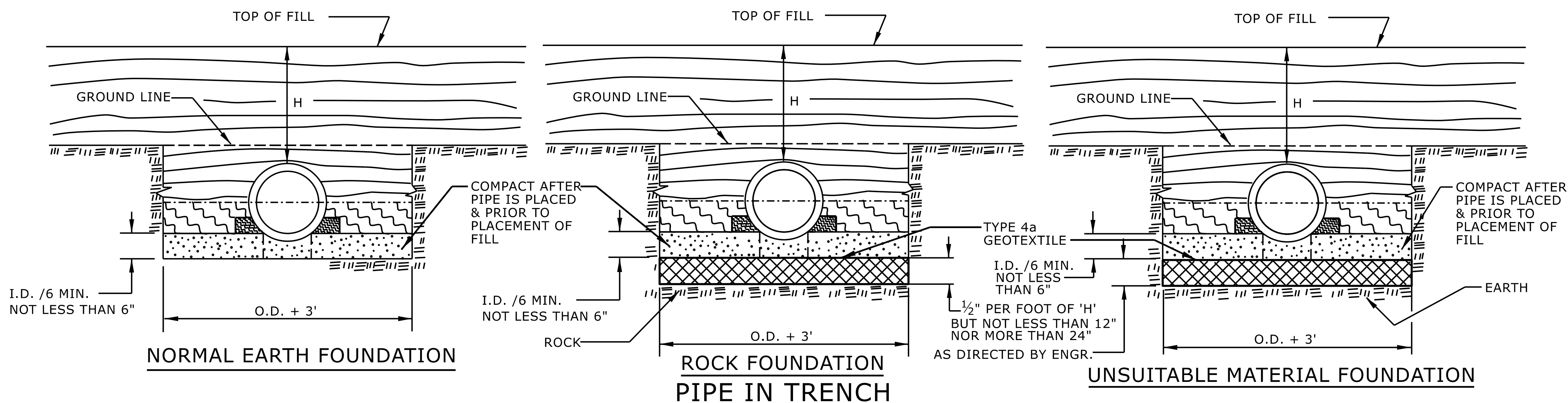


DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

**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:



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

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

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

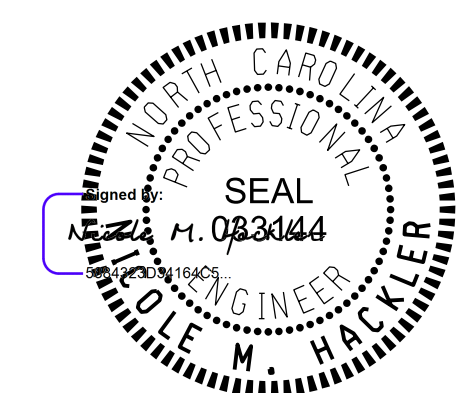
REFER TO NCDOT PIPE MATERIAL SELECTION GUIDE AND STANDARD SPECIFICATIONS
FOR ALLOWABLE PIPE FILL HEIGHTS AND PIPE SPECIFICATIONS.

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

ROADWAY DETAIL DRAWING FOR METHOD OF PIPE INSTALLATION RIGID PIPE	STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
---	---

SHEET 2 OF 2

300.01



10/27/2025

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

SEE TITLE BLOCK

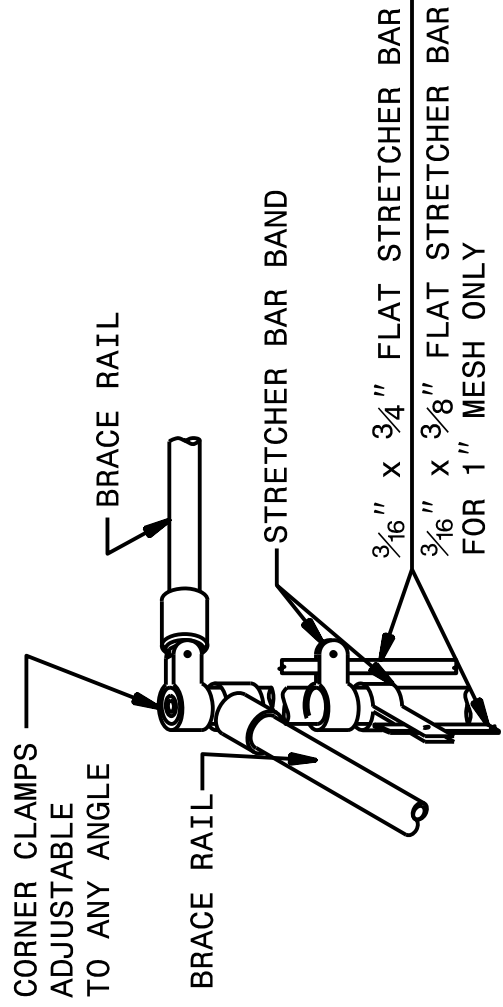
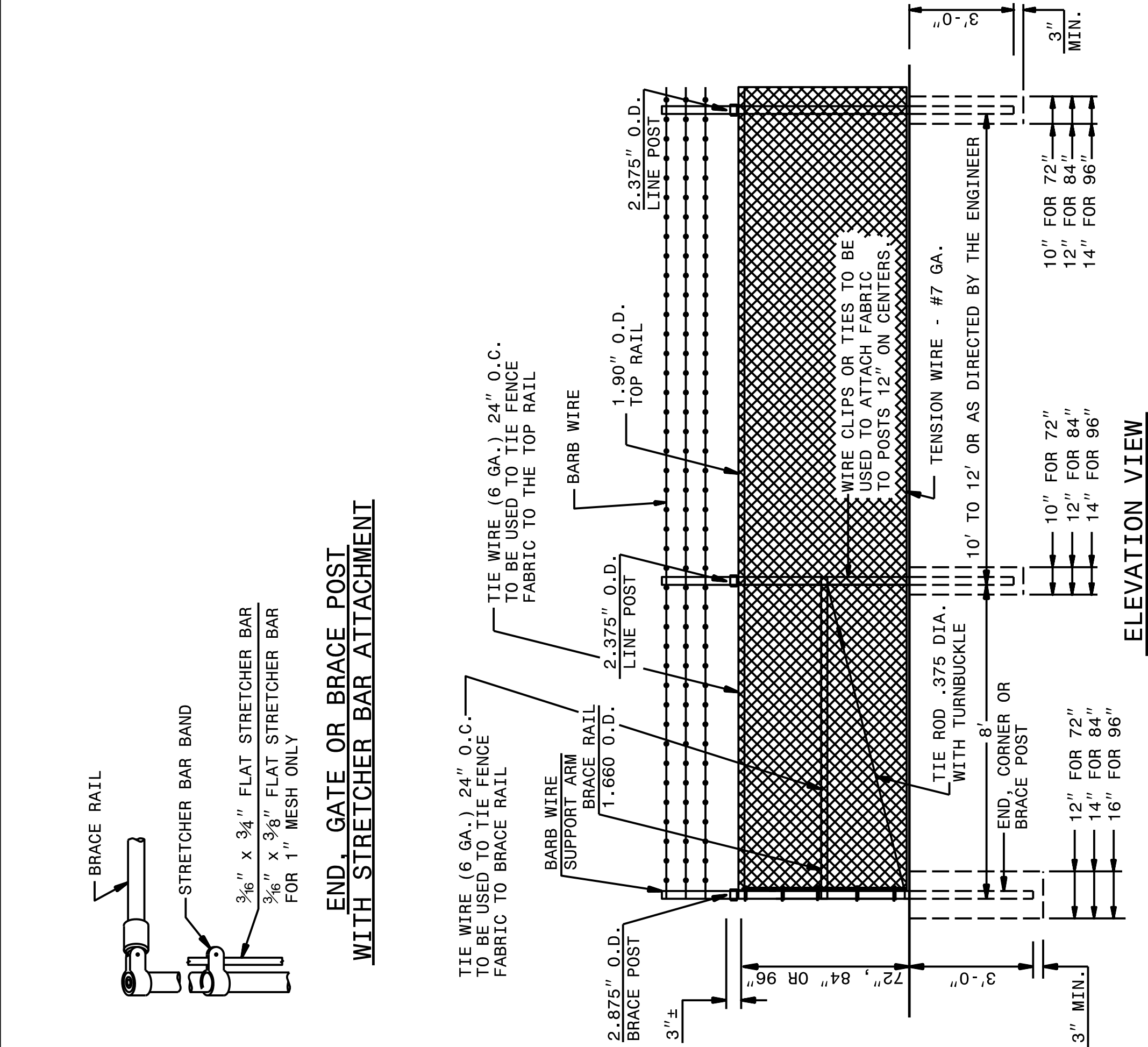
ORIGINAL BY: S.CALHOUN DATE: 7-25-2024
MODIFIED BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
FILE SPEC.: _____

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

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

ENGLISH DETAIL DRAWING FOR
CHAIN LINK FENCE WITH BARBED WIRE
6', 7' AND 8' HEIGHT

SHEET 1 OF 2
fence4c1

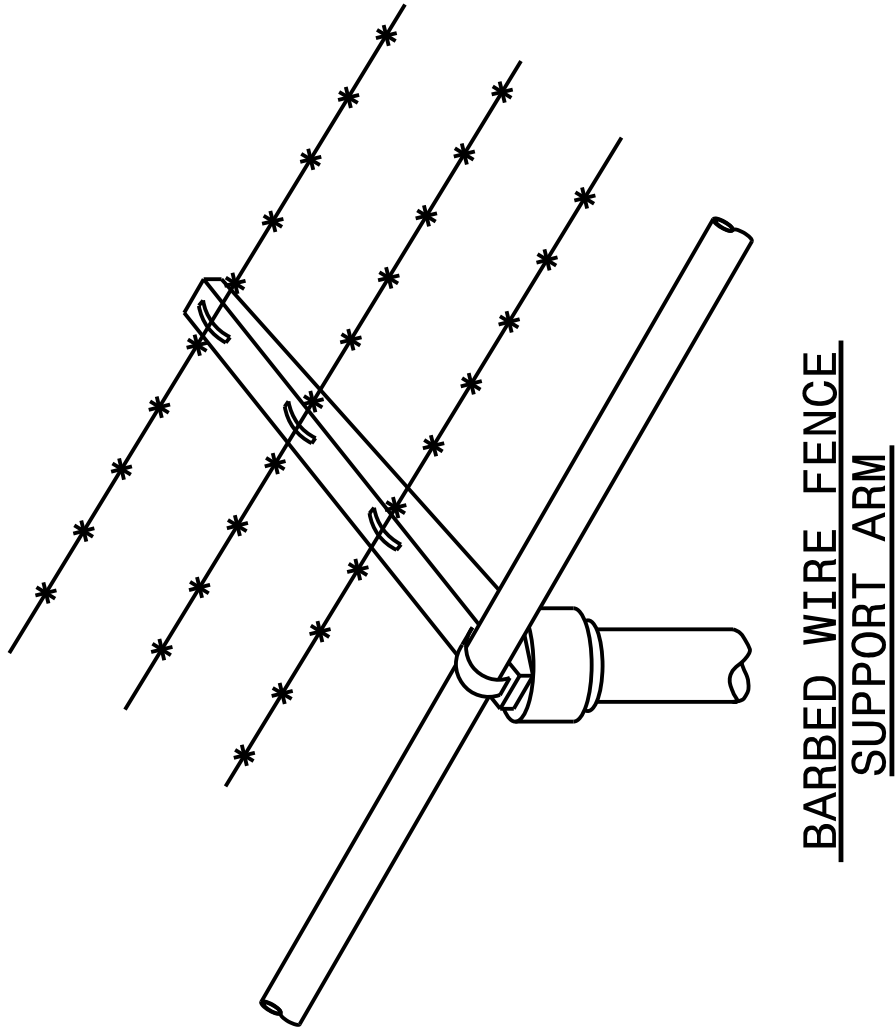


**END, GATE OR BRACE POST
WITH STRETCHER BAR ATTACHMENT**

**CORNER WITH STRETCHER
BAR ATTACHMENT**

ENGLISH DETAIL DRAWING FOR
CHAIN LINK FENCE WITH BARBED WIRE
6', 7' AND 8' HEIGHT

SHEET 1 OF 2
fence4c1

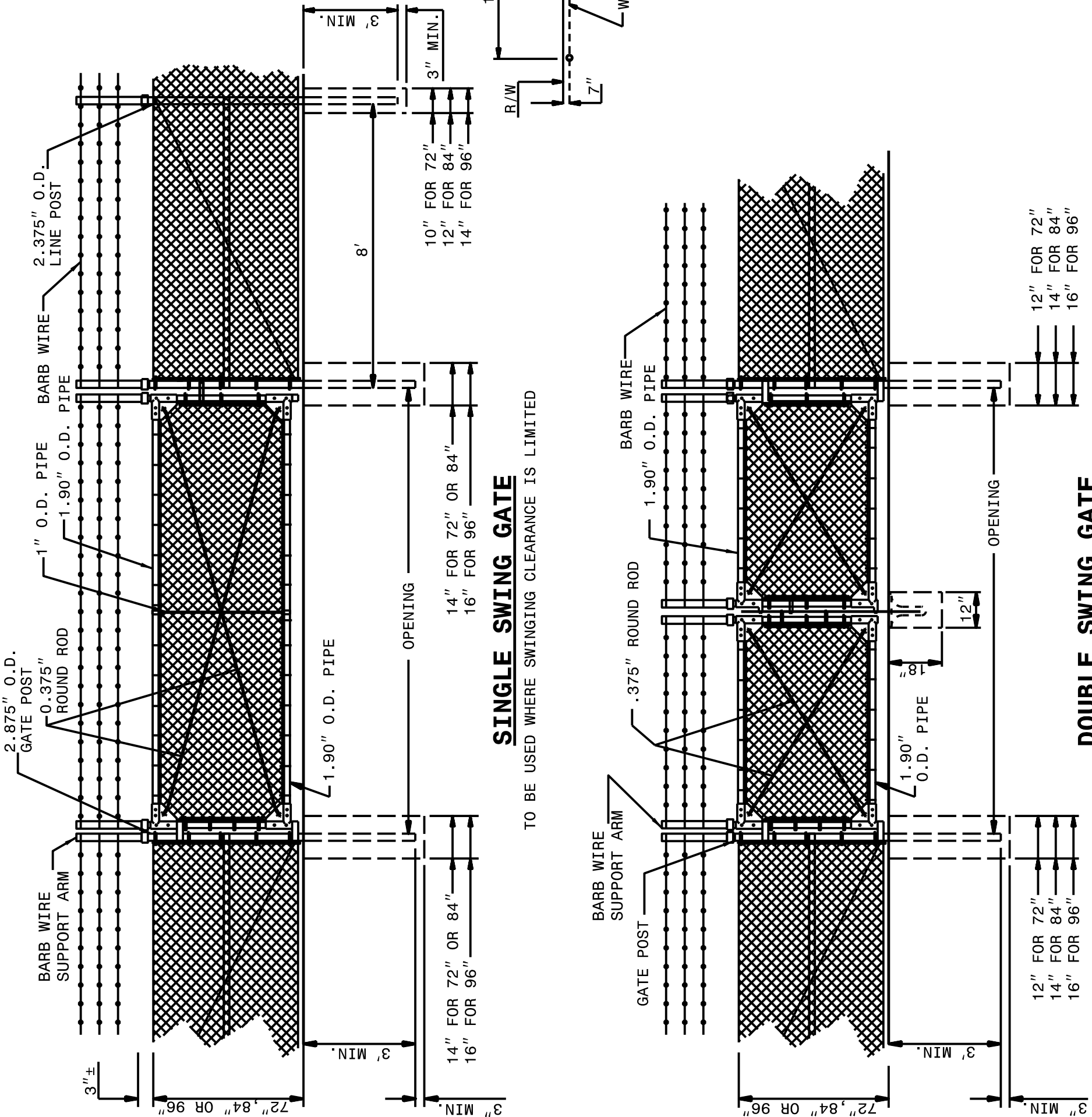


**BARBED WIRE FENCE
SUPPORT ARM**

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

ENGLISH DETAIL DRAWING FOR
CHAIN LINK FENCE WITH BARBED WIRE
6', 7' AND 8' HEIGHT

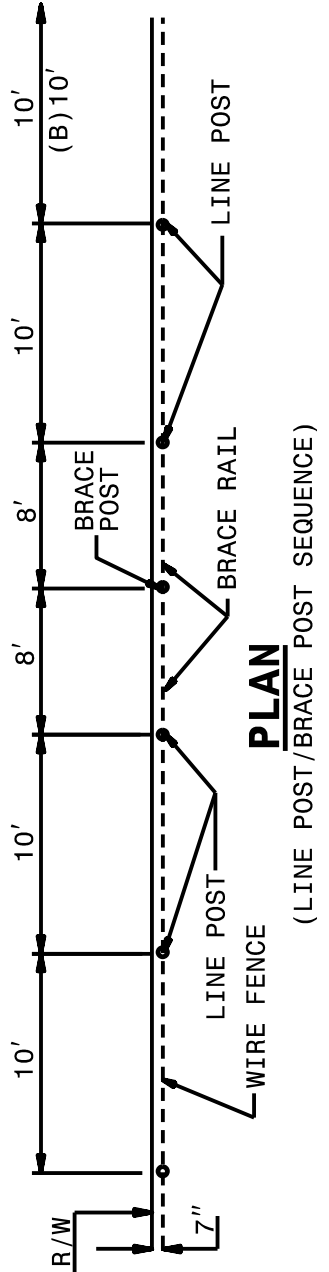
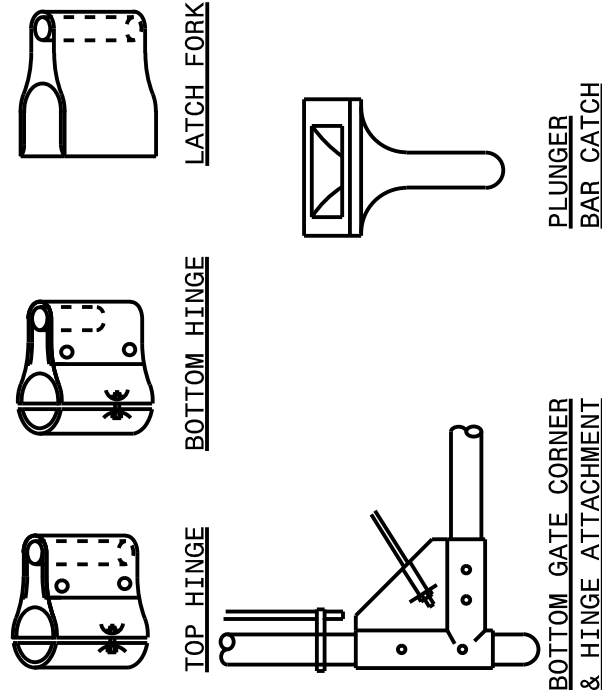
SHEET 2 OF 2
fence4c1



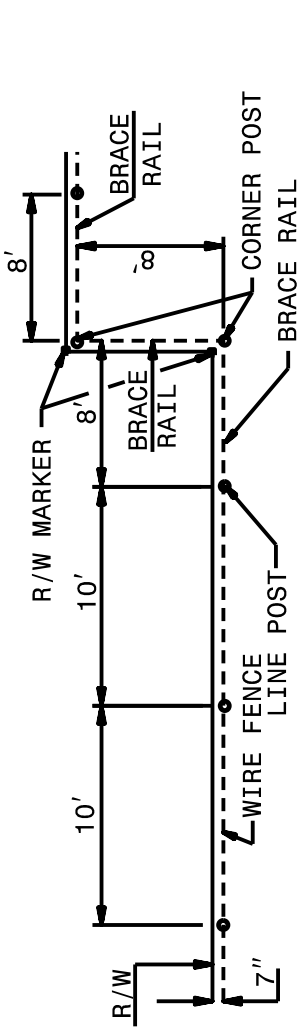
SINGLE SWING GATE
TO BE USED WHERE SWINGING CLEARANCE IS LIMITED

DOUBLE SWING GATE
TO BE USED WHERE SWINGING CLEARANCE IS LIMITED

NOTE: FENCE HARDWARE VARIES DUE TO
DIFFERING MANUFACTURER SUPPLIES.

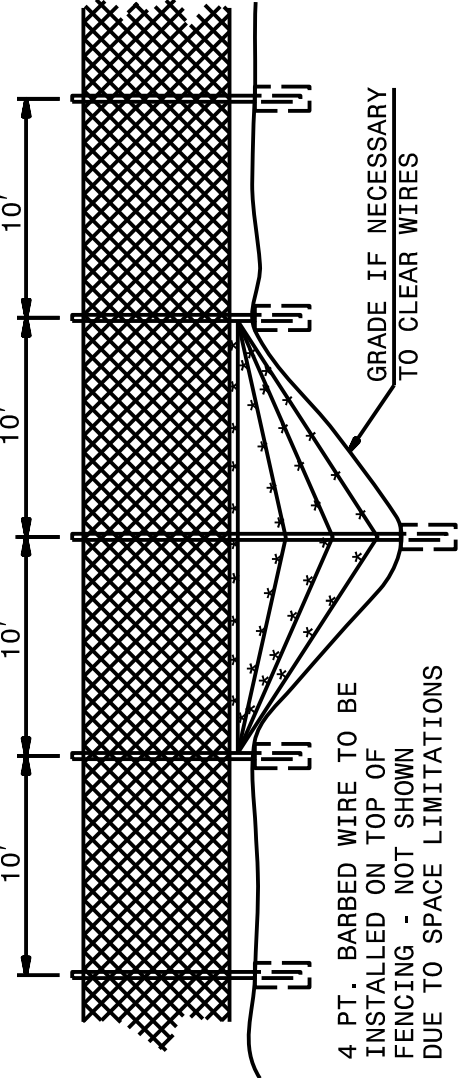


PLAN
(LINE POST/BRACE POST SEQUENCE)



PLAN

PLACEMENT OF FENCE ALONG RIGHT OF WAY
(ALL CORNER POSTS ARE TO BE BRACED AS SHOWN ABOVE)



4 PT. BARBED WIRE TO BE
INSTALLED TOP OF
FENCING - NOT SHOWN
DUE TO SPACE LIMITATIONS
GRADE IF NECESSARY
TO CLEAR WIRES

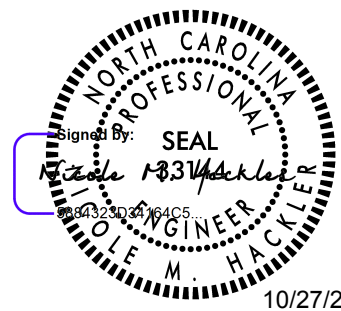
DETAIL OF DITCH CROSSING

MAXIMUM WIRE SPACING TO BE 6".
MAXIMUM CLEARANCE BETWEEN LOWEST STRAND AND GROUND TO BE 6".
BRACE POSTS SHALL BE ERCTED BETWEEN END, CORNER OR GATE POSTS AT
INTERVALS NOT EXCEEDING 700' ON TANGENTS OR 350' ON SHORT RADIUS CURVES.
ADDITIONAL BRACE POSTS SHALL BE ERCTED IF SO DIRECTED BY THE ENGINEER.
BRACE POSTS SHALL BE BRACED FROM BOTH SIDES OF POST.

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

SEE PLATE FOR TITLE

ORIGINAL BY: N.T. KEGLERS DATE: MAR. 11, 1996
MODIFIED BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
FILE SPEC.: _____



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UNLESS ALL SIGNATURES COMPLETED

COMPUTED BY: ARH DATE: 11/13/2025
CHECKED BY: SMK DATE: 11/13/2025

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

CHAIN LINK FENCING

SURVEY LINE	STATION TO STATION	LOCATION LT/RT/CL	FABRIC (LF)	LINE POSTS (EA)	TERMINAL POSTS (EA)	GATE REPLACEMENT (EA)
-DWY-	10+25.51 TO 10+27.42	RT	4.84	1	2	
-DWY-	10+37.12 TO 10+38.07	LT	3.44		2	
-DWY-	10+34.00	CL				1
TOTAL:			8.28	1	4	1
SAY:			9.00	1	4	1

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV.	UNDERCUT	BORROW	WASTE
-DWY- 10 + 70.39	-DWY- 11 + 27.95	5			5
CONTINGENCY			300	50	300
TEMP CONNECTION REMOVAL		26			26
SUBTOTALS:		31	300	50	331
PROJECT TOTALS:		31	300	50	331
+5% TO REPLACE TOP SOIL ON BORROW PIT				3	
GRAND TOTALS:		31	300	53	331
SAY:		31	300	55	331

EST. DDE = 5 CY
EST. SELECT GRANULAR MATERIAL = 300 CY
EST. GEOTEXTILE FOR SOIL STABILIZATION = 300 SY
EST. CLASS IV AGGREGATE STABILIZATION = 30 TONS

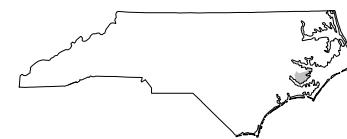
EARTHWORK QUANTITIES ARE CALCULATED BY RS&H.
THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA
PROVIDED BY CATLIN ENGINEERS AND SCIENTISTS.

APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, AND FINE GRADING WILL BE PAID FOR AT THE LUMP SUM PRICE FOR "GRADING".

BR-0173

3B-1

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
PAMLICO COUNTY



ROADWAY DESIGN UNIT

ROADWAY DESIGN
ENGINEER

PREPARED BY

RS&H
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493

SUNGATE DESIGN GROUP, P.A.



REVISIONS

HYDRAULICS DESIGN
ENGINEER

REVISIONS

COMPUTED BY: Yinhui Liu	DATE:01/13/2025
CHECKED BY: Joseph L. Stone	DATE: 01/14/2025

(9-17-24)

PROJECT NO.	SHEET NO.
BR-0173	3G-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF SUBSURFACE DRAINAGE

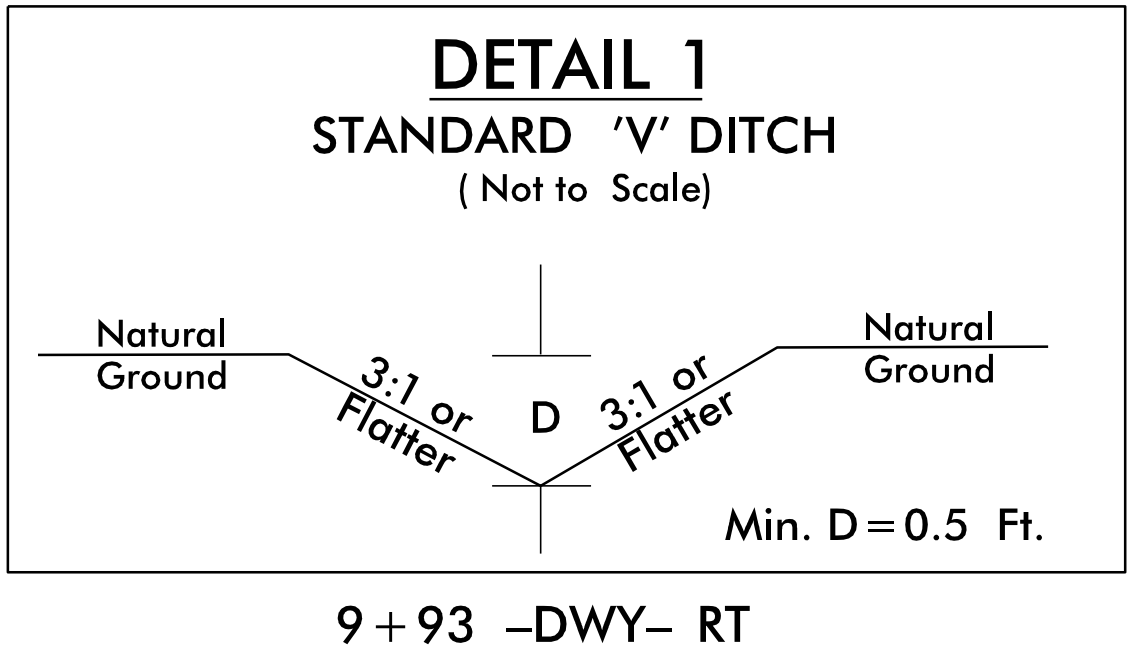
LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
CONTINGENCY				SD	200
				TOTAL LF:	200

*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			AST	3					30
			TOTAL CY/TONS/SY:		0	0**	0**	0	30

*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.



END HOLDING AREA
PAINT STRIPING
-DWY- STA. 12+88.26
89.79' RT

BEGIN CONSTRUCTION
-RAMP- WP1 10+23.61
@ PIVOT BENT 1

BEGIN HOLDING AREA
PAINT STRIPING
-DWY- STA. 11+26.23
90.11' RT

END WIDENING
-DWY- POT 10+61.40

STANDARD 'V' DITCH
SLOPE=4.8%
EST. 5 CY DDE
SEE DETAIL 1

COLLAR AND EXTEND
18" RCP-IV +/- 24 LF

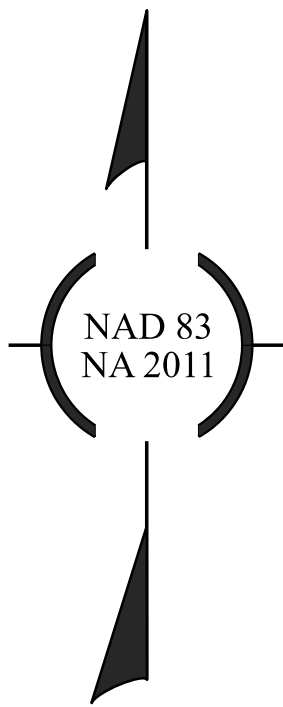
RETAIN AND
CLEAN OUT
+/- 38 LF
OF 18" RCP

-DWY- PT 10+00.00

BEGIN WIDENING
-DWY- POT 10+14.13

REMOVE AND REPLACE
CHAIN LINK FENCE AND GATE
FOR LIMITS OF DRIVEWAY
CONSTRUCTION ONLY (+/- 25')

CL B RIP RAP
EST. 3 TONS
EST. 10 SY GF

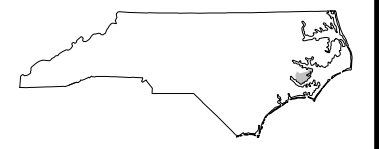


FOR STRUCTURES PLANS, SEE SHEETS S-1 THRU S-15

BR-0173

4

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
PAMLICO COUNTY



ROADWAY DESIGN UNIT
ROADWAY DESIGN
ENGINEER



PREPARED BY
RS&H
8521 SAN FORD ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE NO. P-0405

SUNGATE DESIGN GROUP, P.A.
100 JONES FARM ROAD
RALEIGH, NC 27615
NC FIRM LICENSE NO. C-0400

REVISIONS