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DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

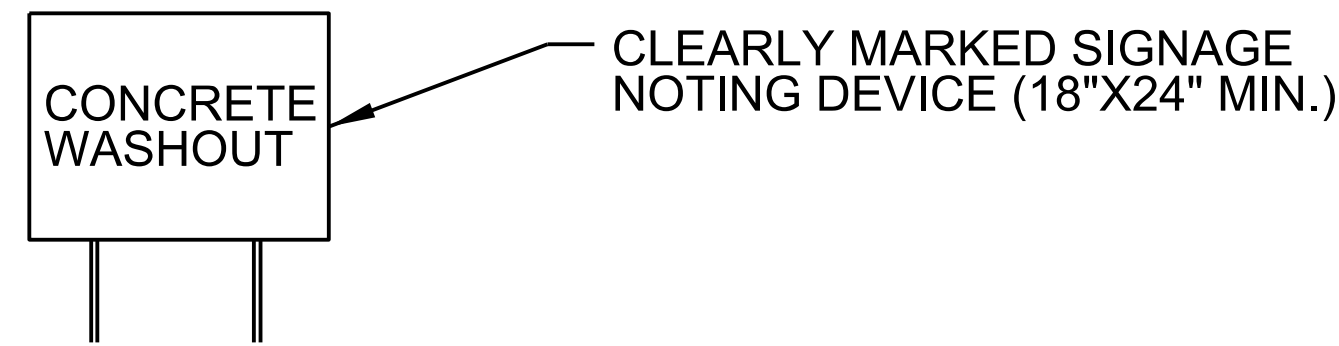
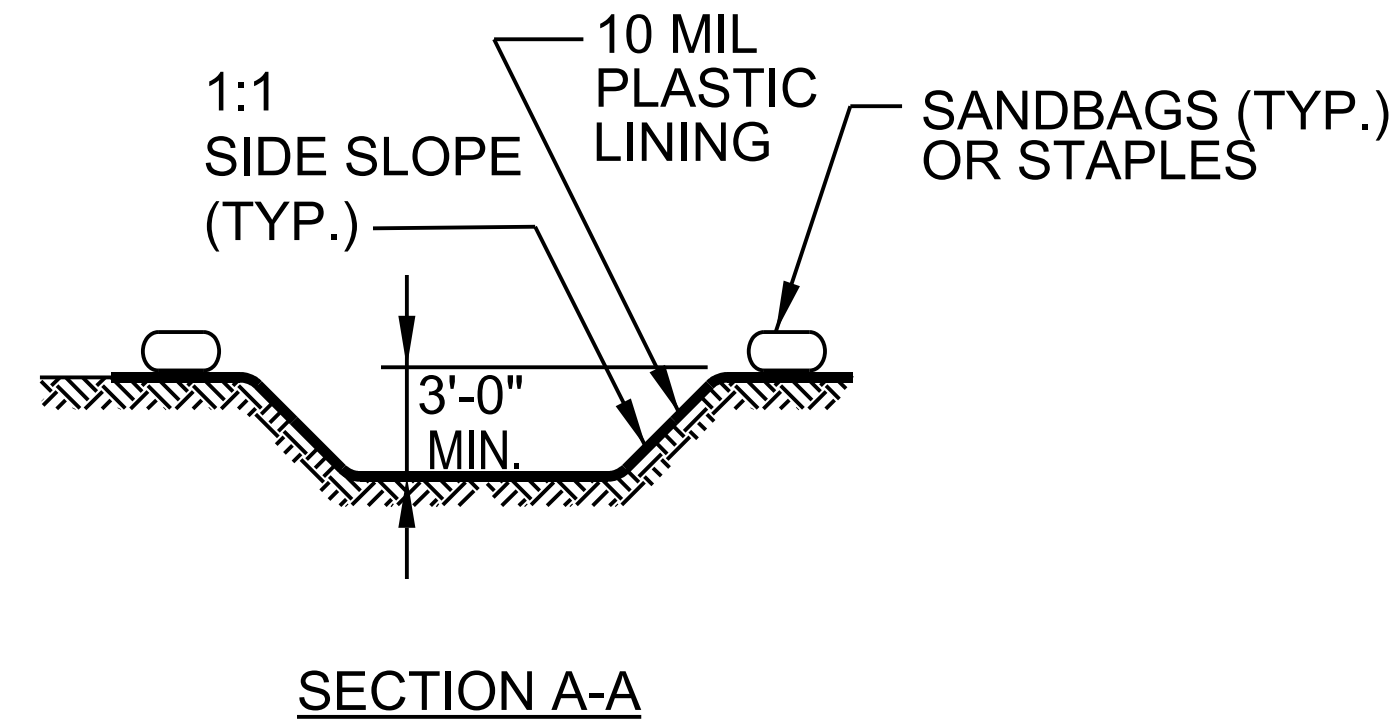
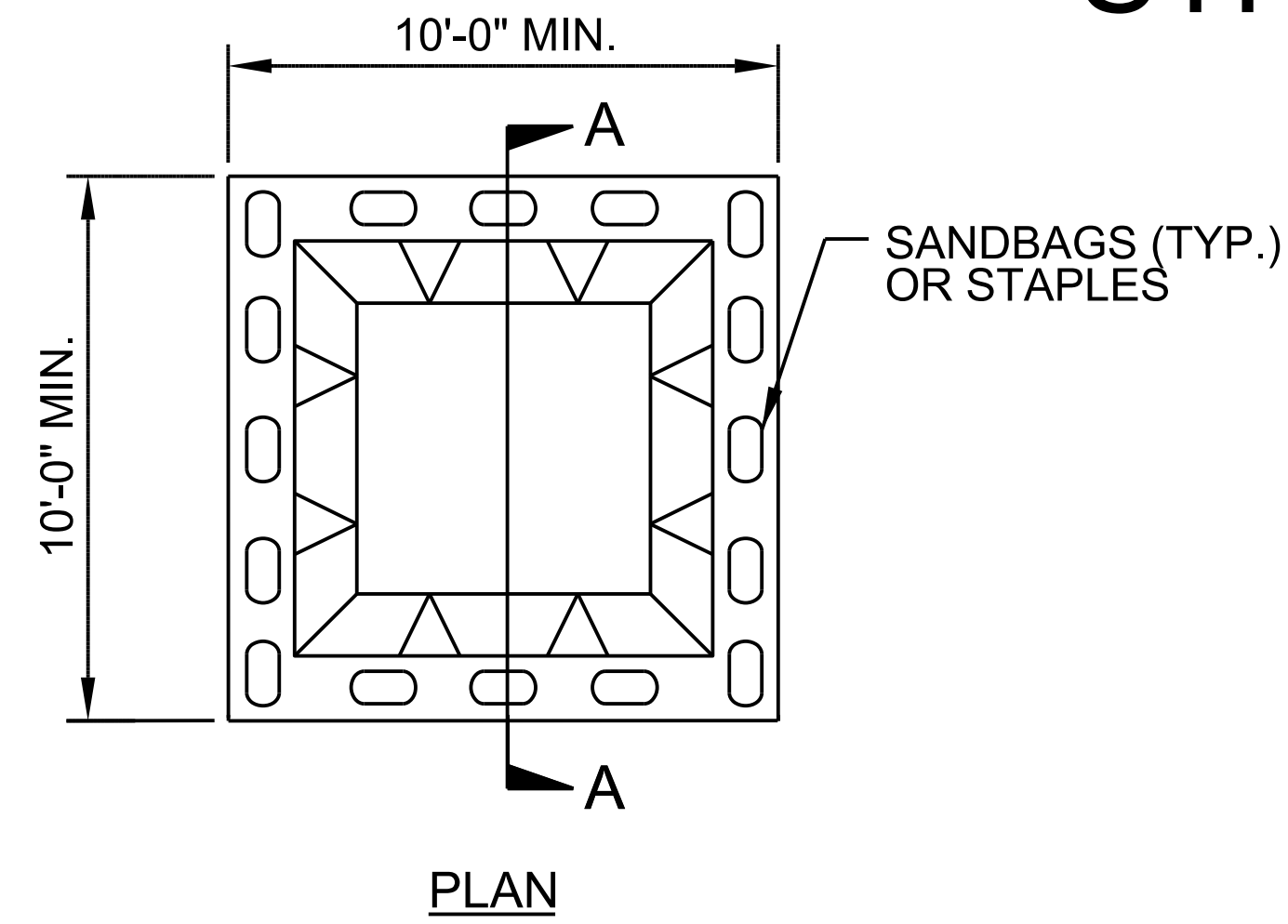
PROJECT REFERENCE NO. BP7-R009	SHEET NO. EC-2
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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		1636.03	Excelsior Wattle Barrier	
1632.02	Type B		1636.03	Coir Fiber Wattle Barrier	
1632.03	Type C				

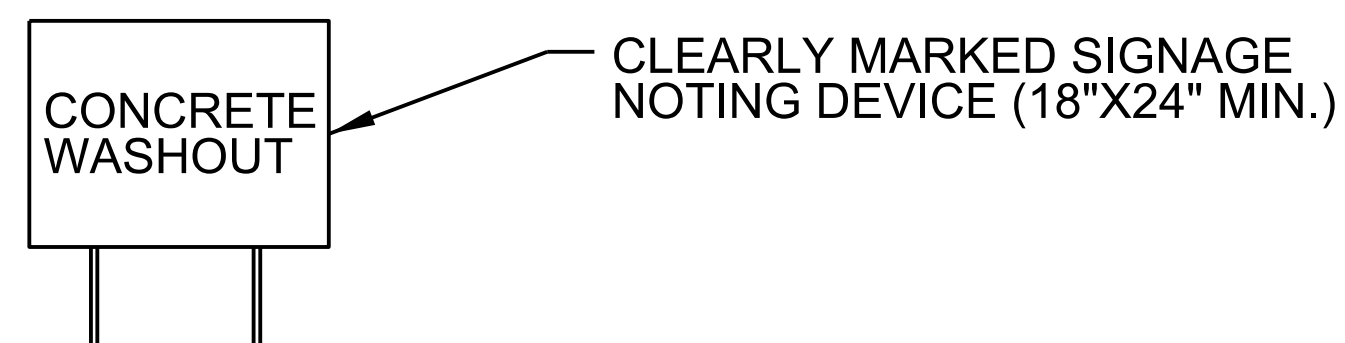
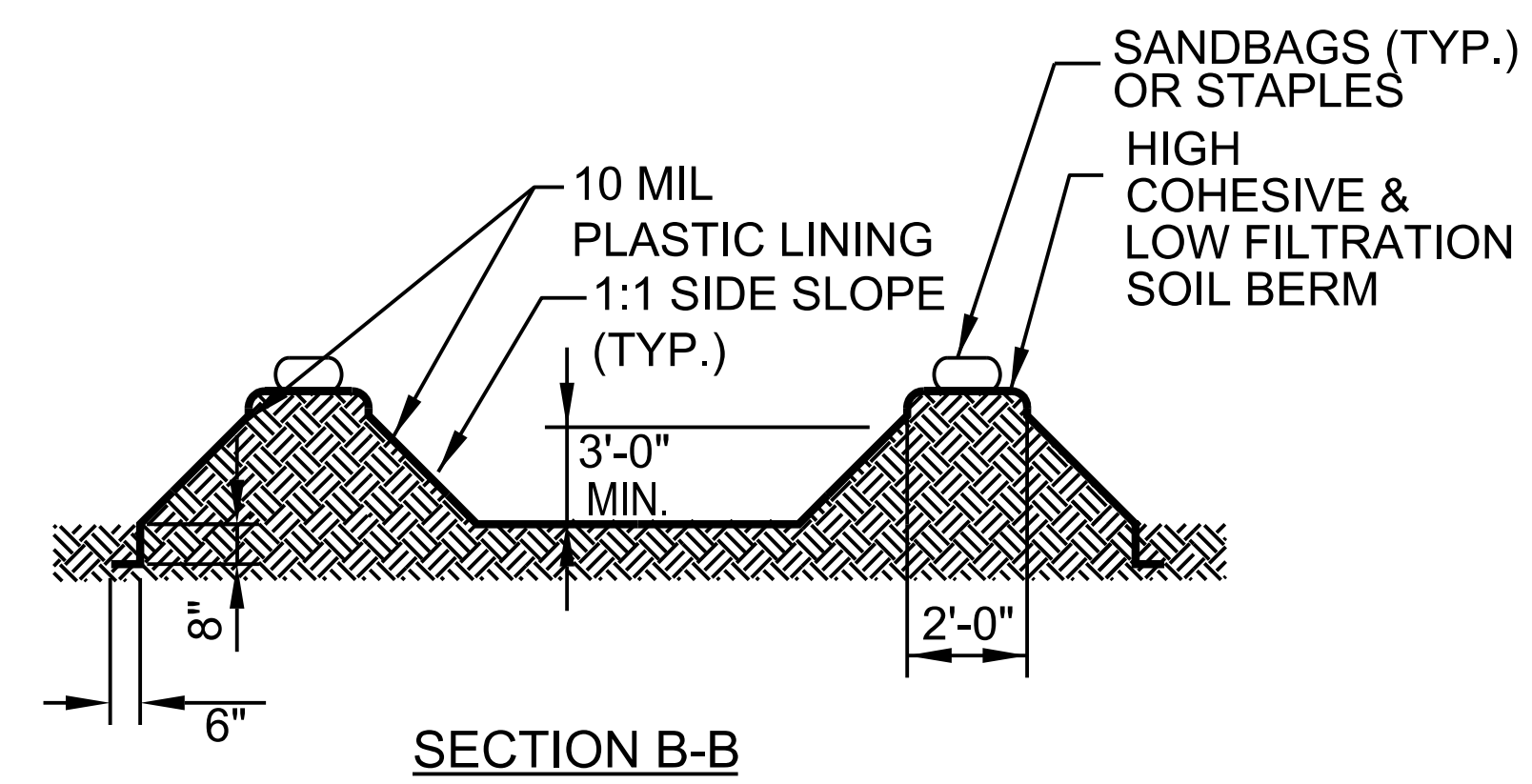
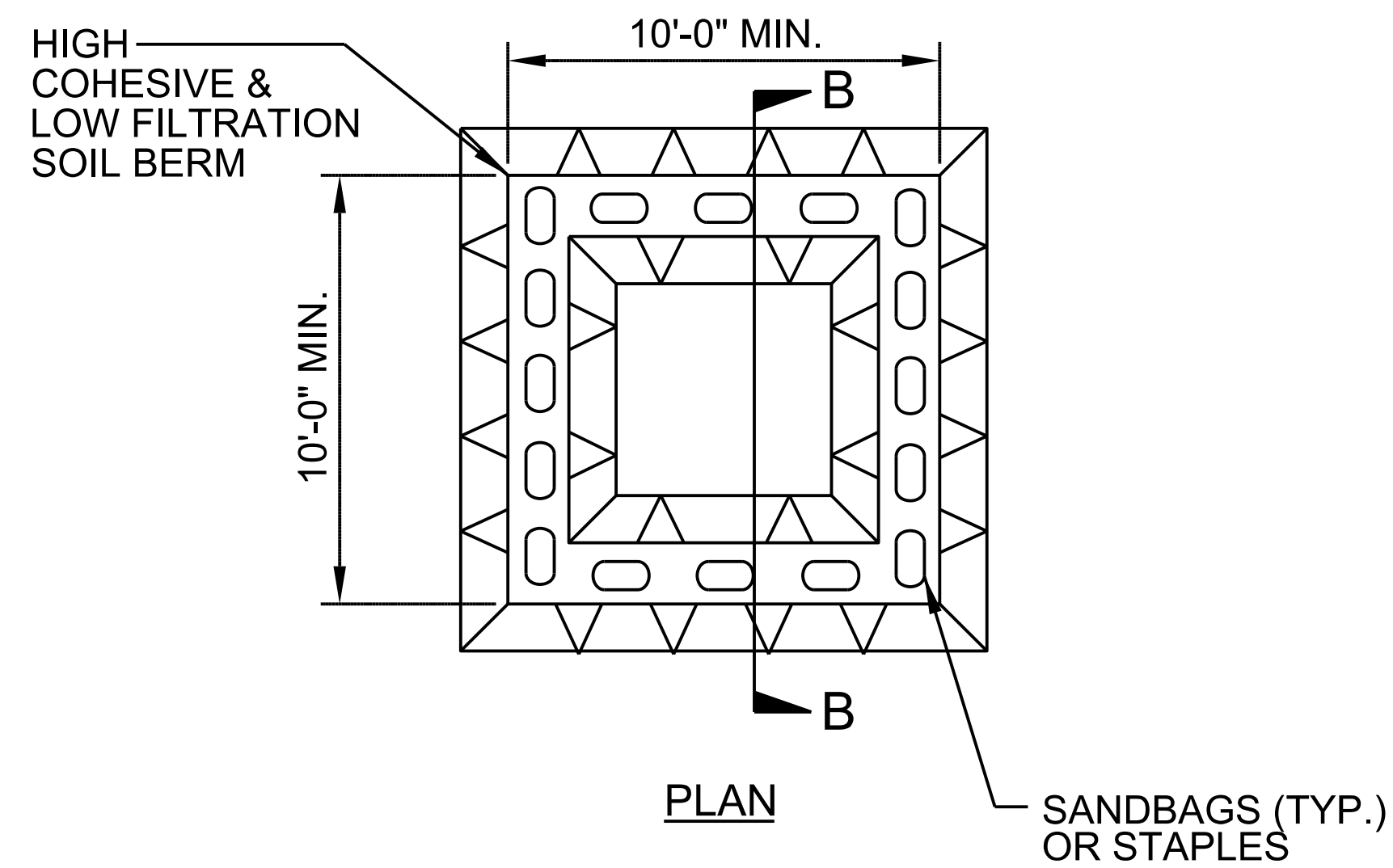
PROJECT REFERENCE NO. <i>BPT-009</i>	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>BP7-R009</i>	SHEET NO. <i>EC-3A</i>
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

8/17/99

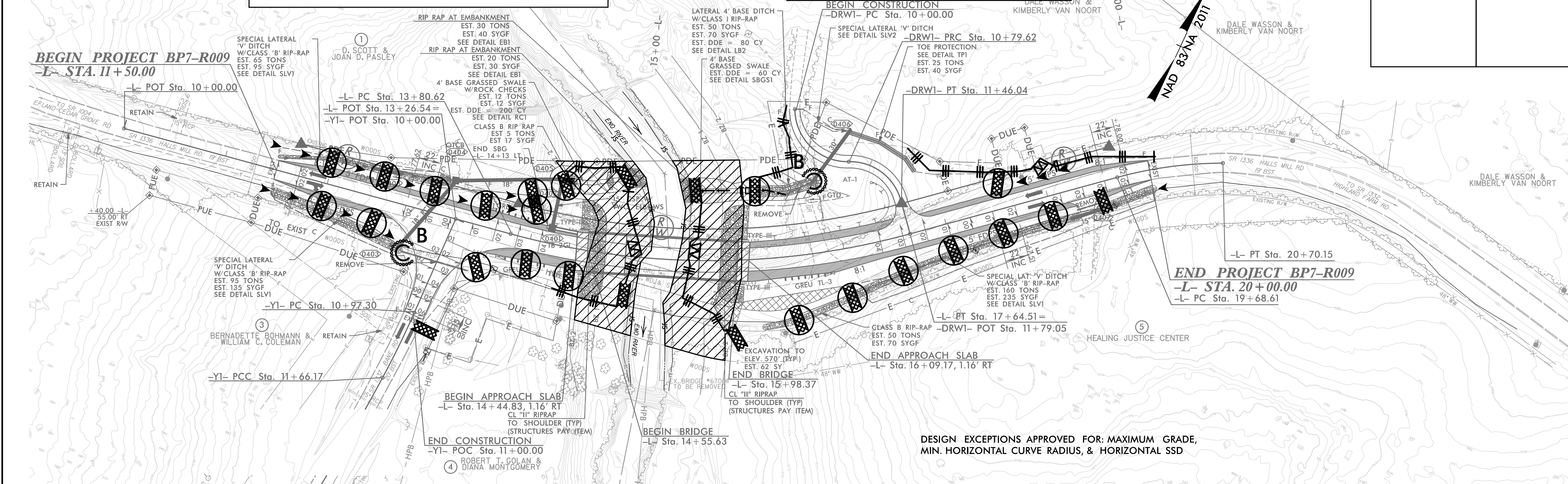
ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

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Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554

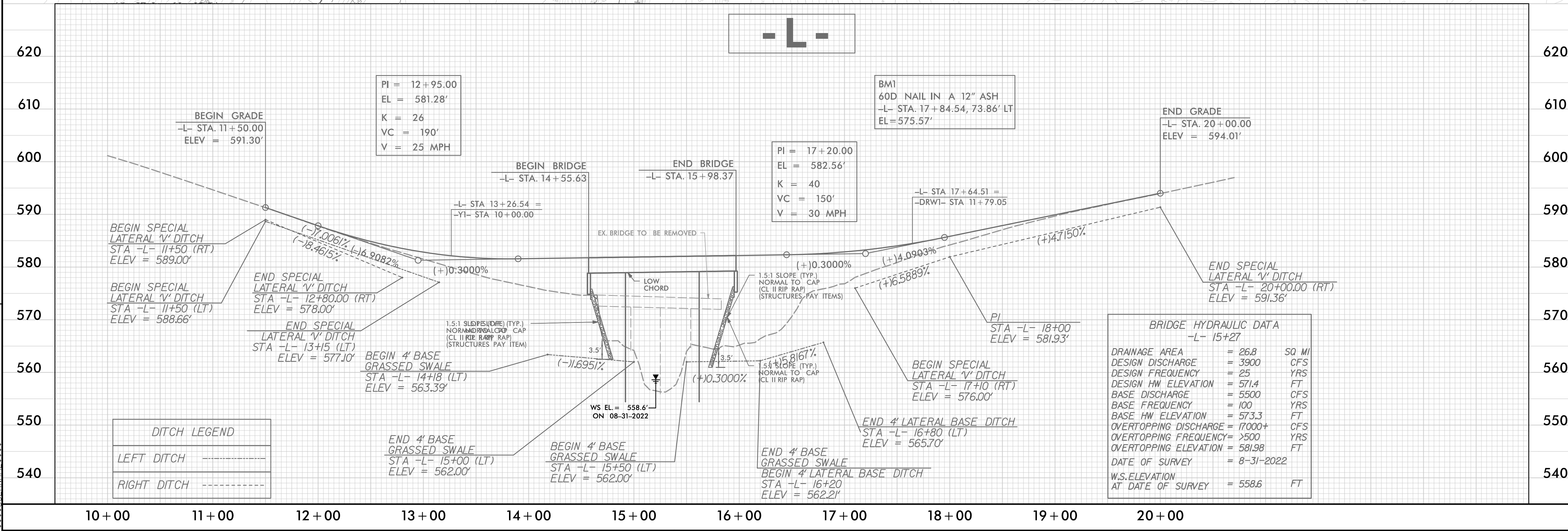
PROJECT REFERENCE NO.	SHEET NO.
BP7-R009	EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



DESIGN EXCEPTIONS APPROVED FOR: MAXIMUM GRADE,
MIN. HORIZONTAL CURVE RADIUS, & HORIZONTAL SSD

REVISIONS



LEFT DITCH	-----
RIGHT DITCH	-----

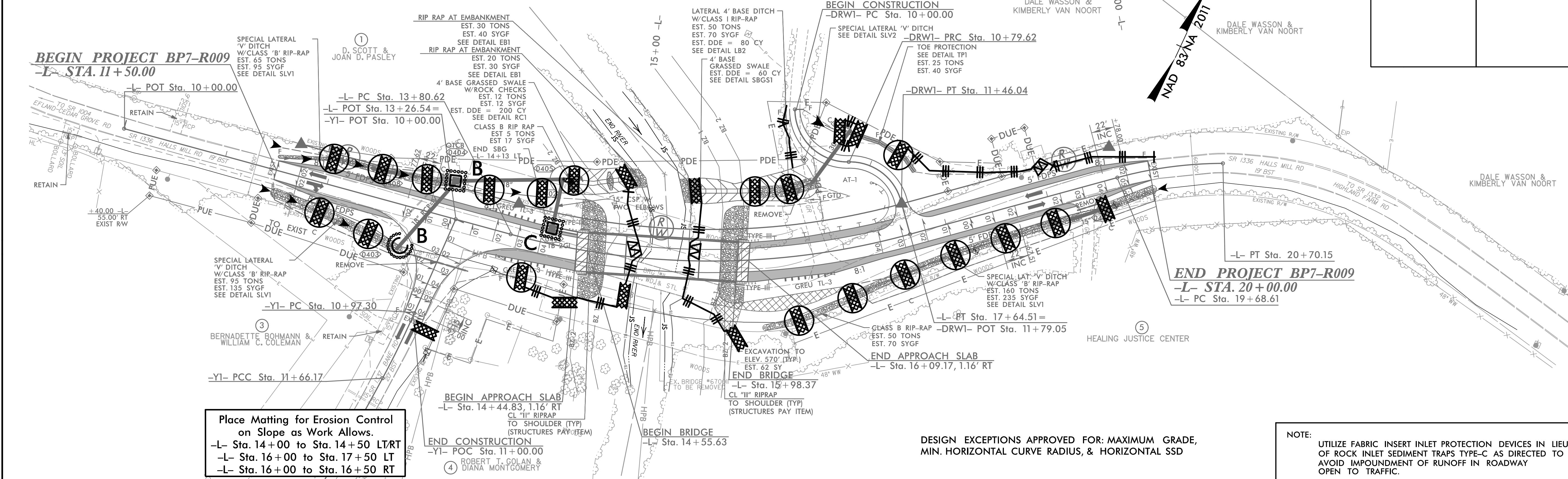
8/17/99

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4000 Center at North Hills St.
Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
BP7-R009	EC-5/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

BEGIN PROJECT BP7-R009
-L- STA. 11+50.00

END PROJECT BP7-R009
-L- STA. 20+00.00

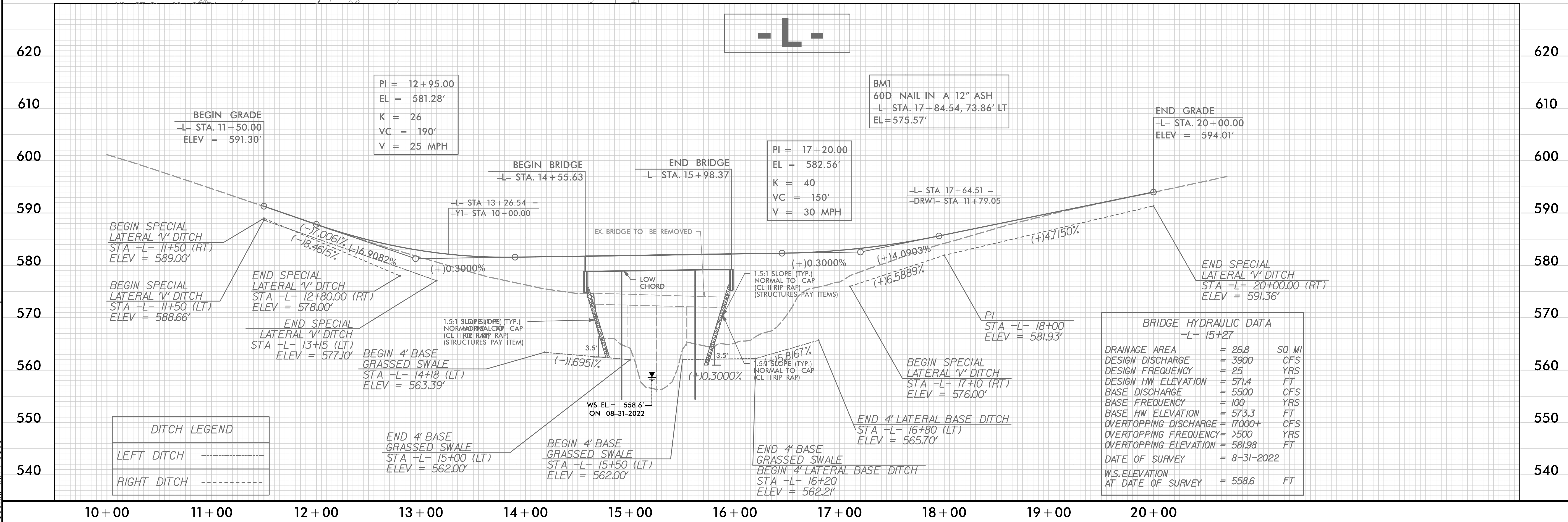


Place Matting for Erosion Control on Slope as Work Allows.
 -L- Sta. 14+00 to Sta. 14+50 LT/RT
 -L- Sta. 16+00 to Sta. 17+50 LT
 -L- Sta. 16+00 to Sta. 16+50 RT

DESIGN EXCEPTIONS APPROVED FOR: MAXIMUM GRADE, MIN. HORIZONTAL CURVE RADIUS, & HORIZONTAL SSD

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

REVISIONS



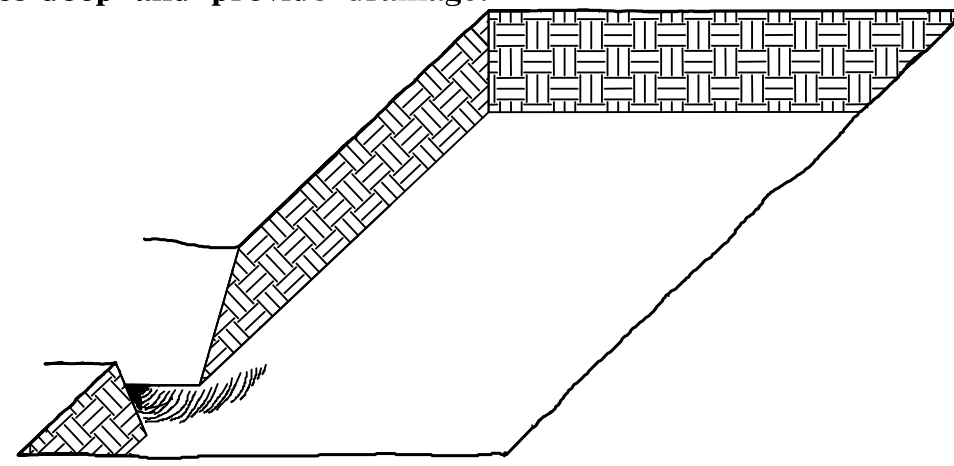
SYTIME/CON/ON/EN/AL/

PLANTING DETAILS

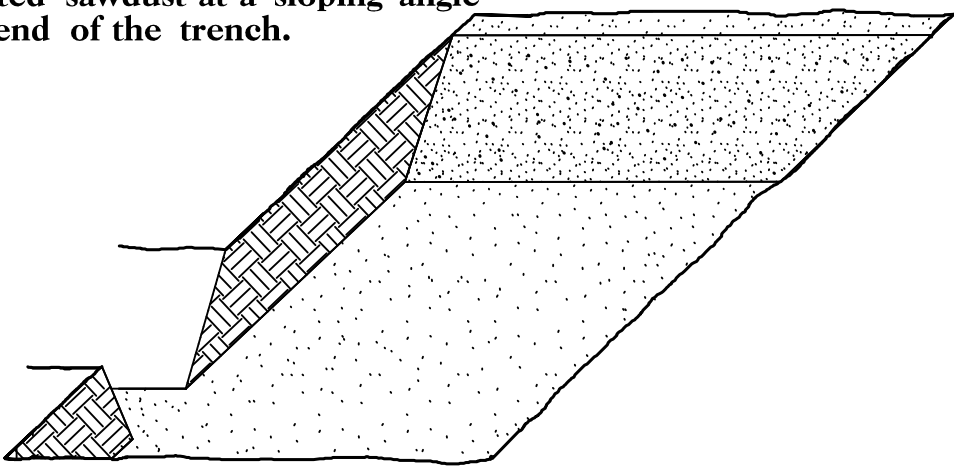
SEEDLING / LINER BAREROOT PLANTING DETAIL

HEALING IN

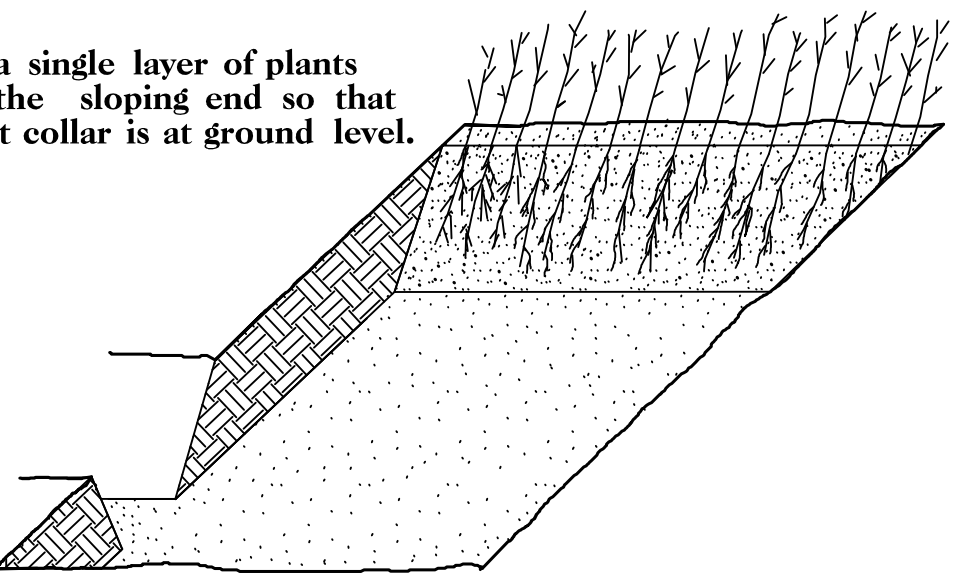
1. Locate a healing-in site in a shady, well protected area.
2. Excavate a flat bottom trench 12 inches deep and provide drainage.



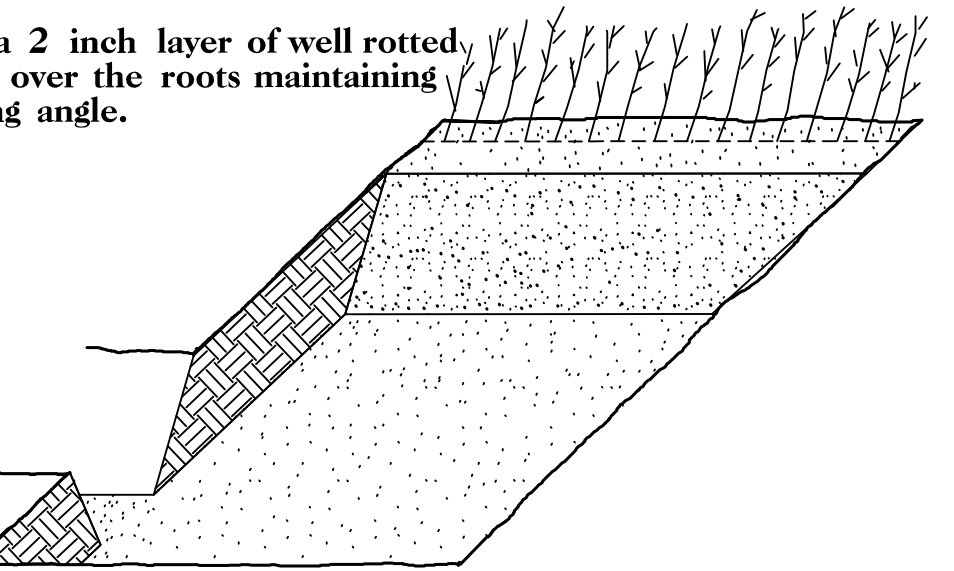
3. Backfill the trench with 2 inches well rotted sawdust. Place a 2 inch layer of well rotted sawdust at a sloping angle at one end of the trench.



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

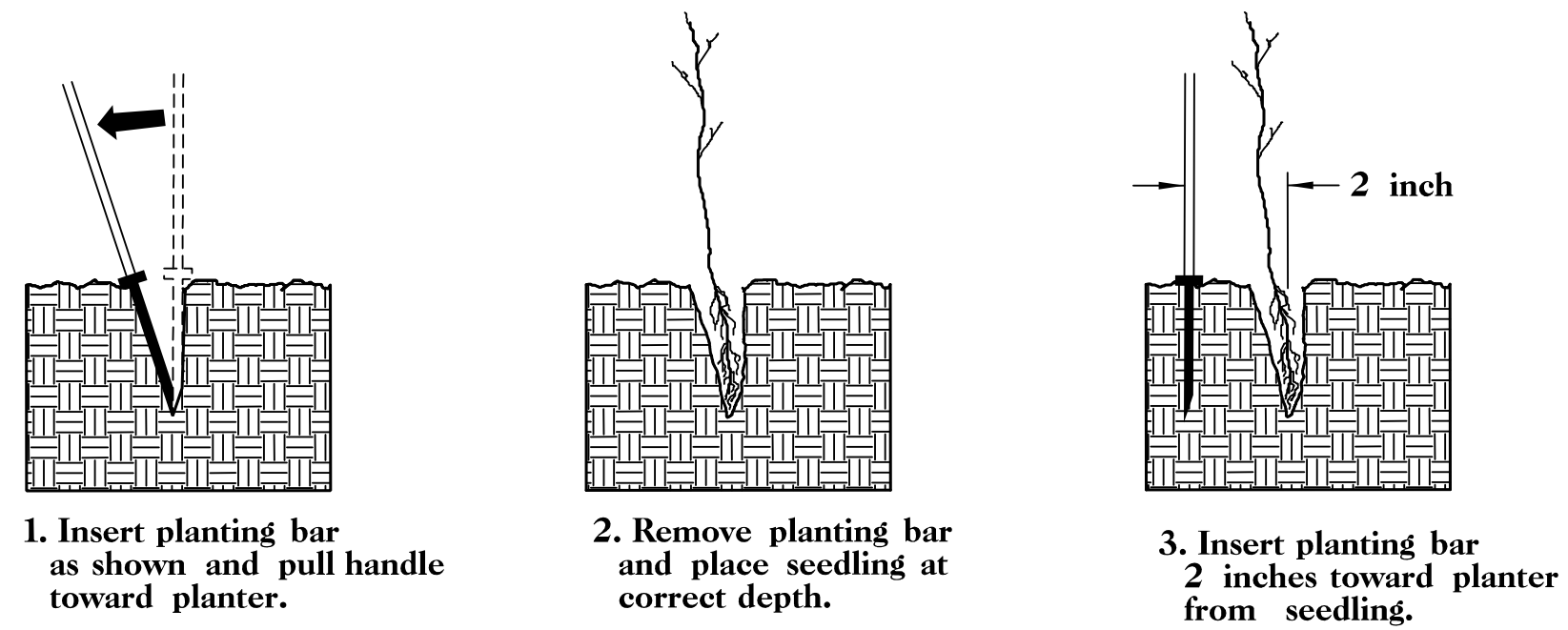


5. Place a 2 inch layer of well rotted sawdust over the roots maintaining a sloping angle.

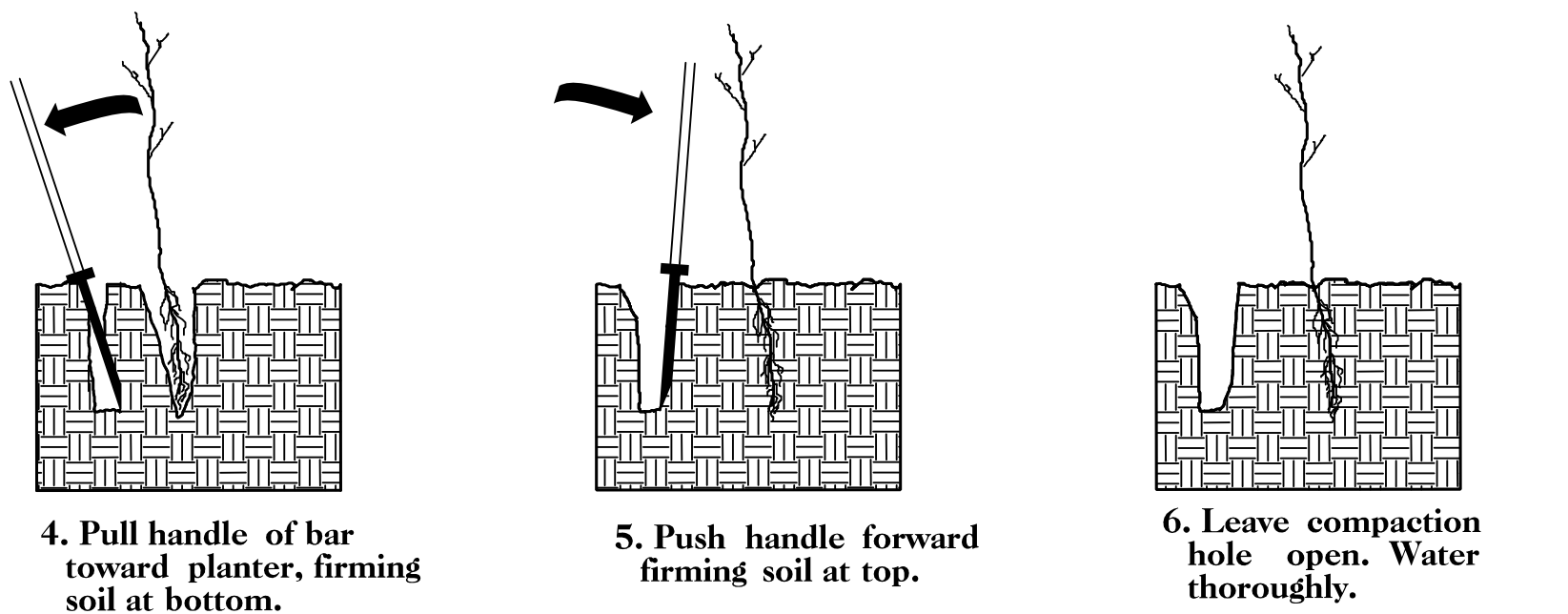


6. Repeat layers of plants and sawdust as necessary and water thoroughly.

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.



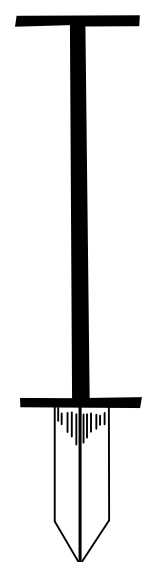
4. Pull handle of bar toward planter, firming soil at bottom.
5. Push handle forward firming soil at top.
6. Leave compaction hole open. Water thoroughly.

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:

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

REFORESTATION DETAIL SHEET

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

T.I.P.: BP7-R009

CONTRACT: DG00683

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN ORANGE COUNTY

LOCATION: REPLACE BRIDGE NO. 011 OVER ENO RIVER ON SR 1336 (HALLS MILL RD)

PROJECT REFERENCE NO. SHEET NO. BP7-R009 SIGN-1 APPROVED: Andrew D. Klinksiek DATE: 2/12/2026 SEAL NORTH CAROLINA PROFESSIONAL SEAL 40311 ENGINEER ANDREW D. KLINSIEK DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - CONTRACT STANDARDS AND DEVELOPMENT UNIT - 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:

Table with 2 columns: STD. NO., TITLE. Lists standards for sign orientation, mounting, pavement markings, and guardrail spacing.

SIGNING SUMMARY OF QUANTITIES

Table with 4 columns: ITEM NO., DESC. NO., SECT. NO., ITEM DESCRIPTION, QUANTITY, UNIT. Lists quantities for sign supports, erection, and disposal.

SIGNING PAY ITEM NOTES

- 1 SIGN ERECTION, TYPE D, E OR F
2 DISPOSAL OF SIGN SYSTEM, U-CHANNEL

SIGNING GENERAL NOTES

- SIGNS FURNISHED BY STATE.
ALL PROPOSED SIGNS SEE PAY ITEM NOTE 1 UNLESS OTHERWISE NOTED.
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 TYPE E SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER.
ALL EXISTING SIGNS ON U-CHANNEL SUPPORT(S) WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
THE BACKGROUND FOR TYPE E SIGNS SHALL BE GRADE C REFLECTIVE SHEETING.
SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

PAVEMENT MARKING GENERAL NOTES

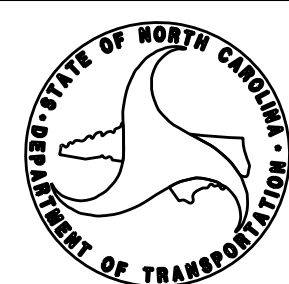
- THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.
A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:
ROAD NAME MARKING MARKERS
ALL ROADS THERMOPLASTIC NONE
BRIDGE DECKS COLD-APPLIED PLASTIC NONE
B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
D) STOP BAR LOCATION AT NON-SIGNALIZE INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
E) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF COLD APPLIED PLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE COLD APPLIED PAY ITEM.

INDEX

Table with 2 columns: SHEET NO., DESCRIPTION. Lists sheets SIGN-1 through SIGN-4 and their descriptions.

PLANS PREPARED FOR:

DANIEL DAGENHART NCDOT DIV 7 BRIDGE PROGRAM MANAGER



PLANS PREPARED BY: HNTB NORTH CAROLINA, P.C.

A.D. KLINSIEK, PE, PTOE SIGNING PROJECT MANAGER

N.K. VLANICH, PE SIGNING DESIGN ENGINEER

T.R. TERRELL SIGNING DESIGN SENIOR TECHNICIAN



HNTB NORTH CAROLINA, P.C. 4000 CENTER AT NORTH HILLS ST SUITE 500 Raleigh, North Carolina 27609 NC License No: C-1554 (919) 546-8997

APPROVED: Andrew D. Klinski
E3078FB459E4B...

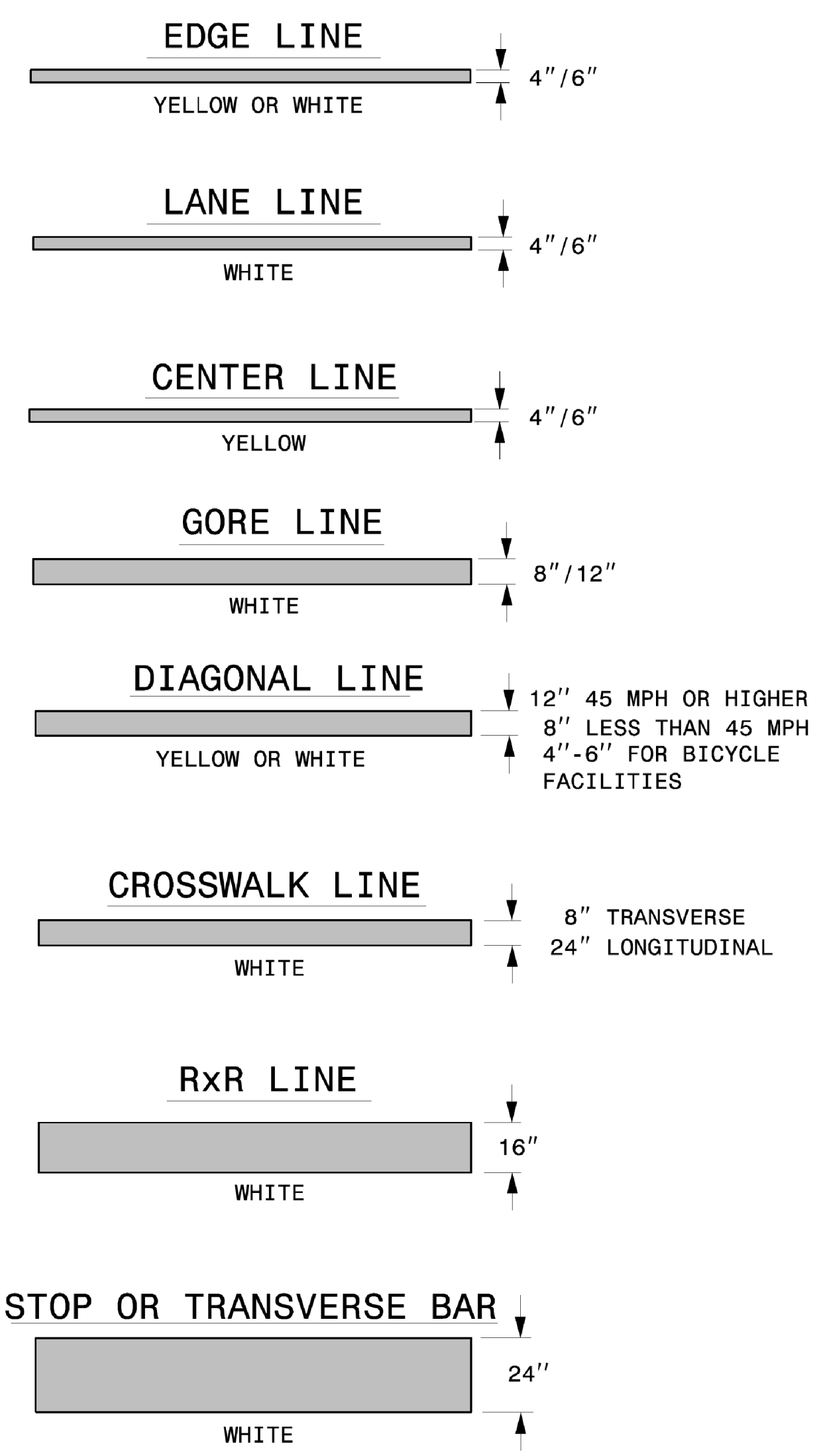
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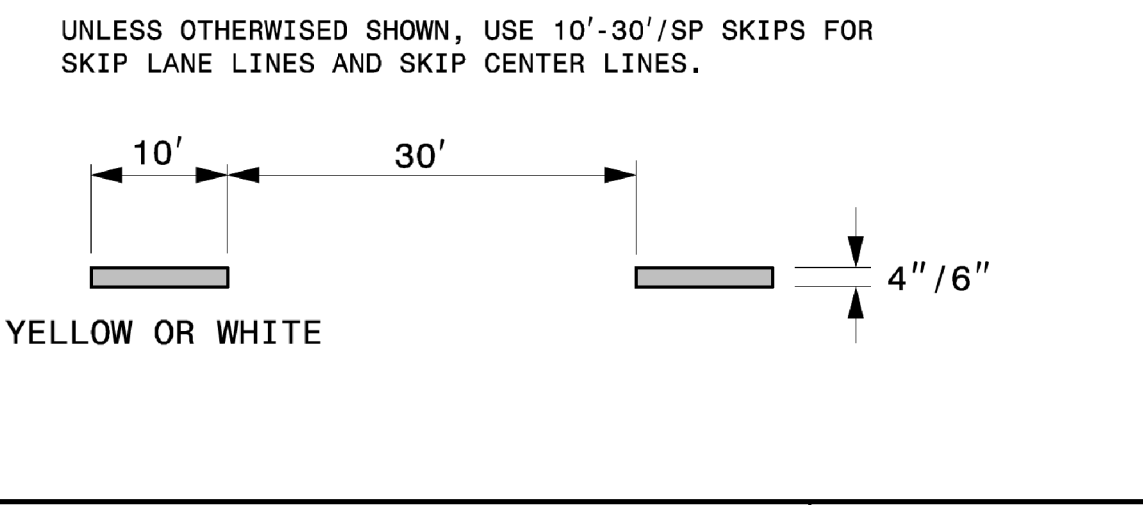
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PROJECT REFERENCE NO.	SHEET NO.
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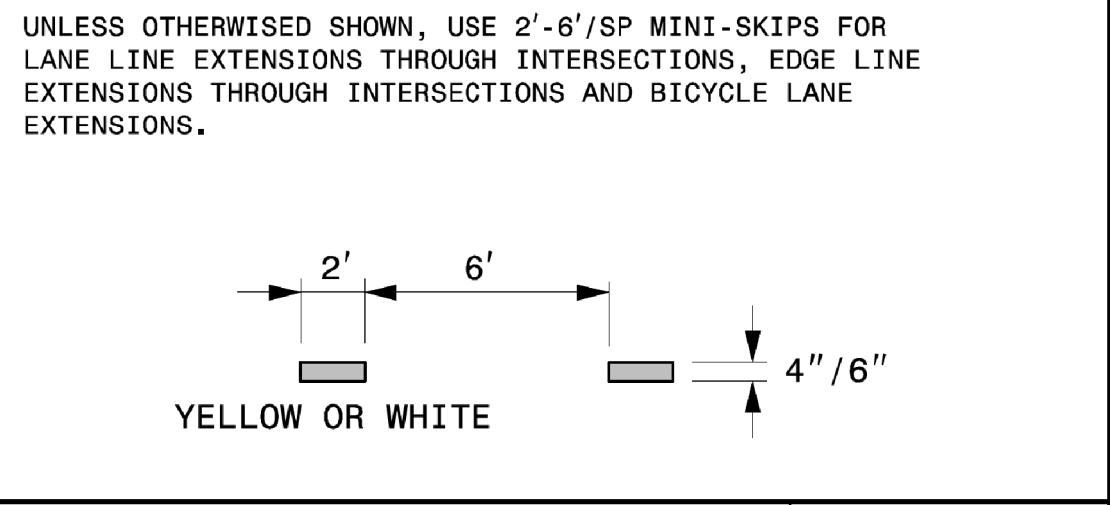
CONTINUOUS LINES



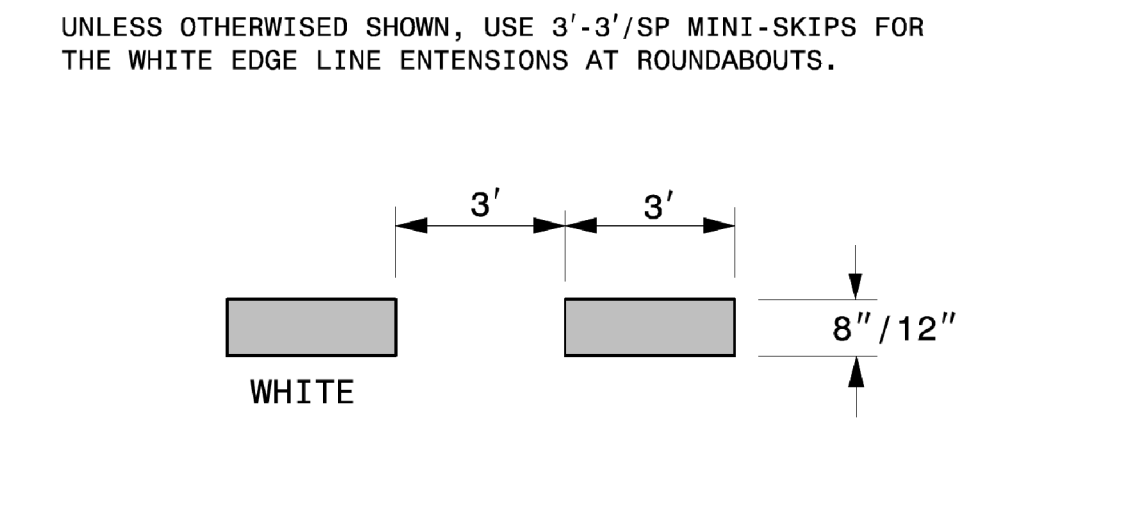
10'-30'/SP SKIP LINE



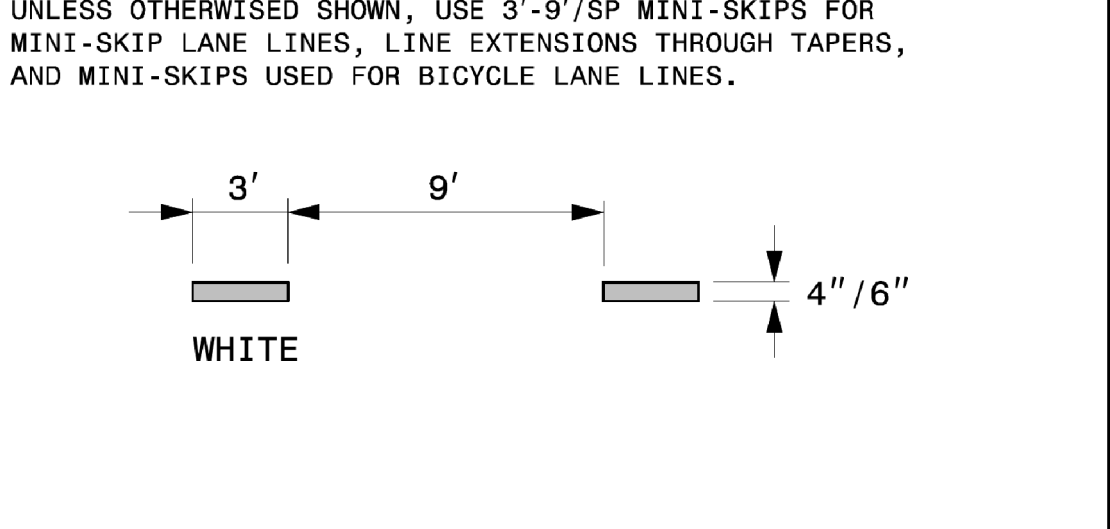
2'-6'/SP MINI-SKIP LINE



3'-3'/SP MINI-SKIP LINE



3'-9'/SP MINI-SKIP LINE



- GENERAL NOTES:
- 1- USE 6" LANE, EDGE, AND CENTER LINES ON ALL FULL CONTROL OF ACCESS FACILITIES AND OTHER ROUTES AS DIRECTED BY THE ENGINEER.
 - 2- LANE LINES INDICATED AS "WIDE" ON THE ROADWAY STANDARD DRAWINGS SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.
 - 3- GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.

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

ROADWAY DETAIL DRAWING FOR
PAVEMENT MARKINGS
 LINE TYPES AND OFFSETS

SHEET 1 OF 2
1205D01

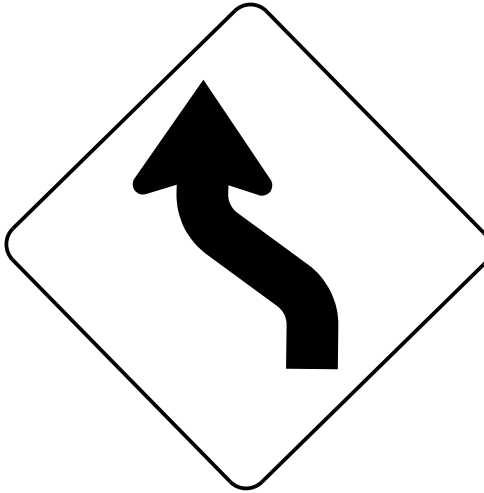


**CONTRACTS STANDARDS
 AND DEVELOPMENT UNIT**
 Office 919-707-8950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: M.V. SPRINGER	DATE: 2-15-24
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.:	

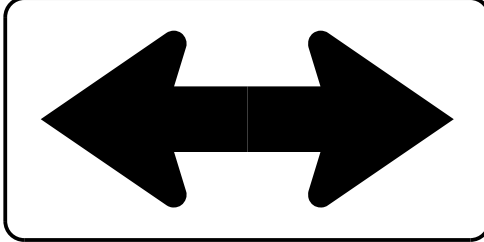
401 QUANTITY REQ'D 2



36" X 36"
W1-4(L)


ONE U-CHANNEL SUPPORT PER SIGN(S)

406 QUANTITY REQ'D 1



48" X 24"
W1-7

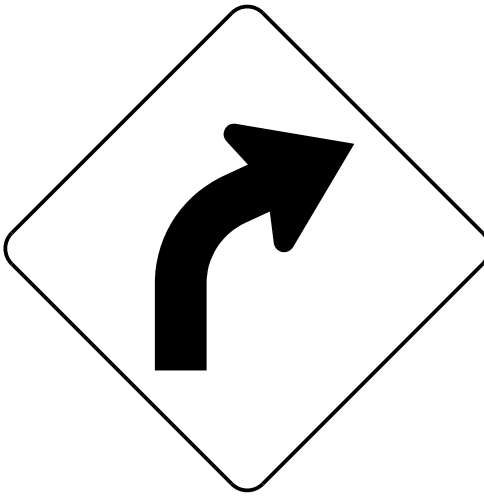
402 QUANTITY REQ'D 2



18" X 18"
W13-1P

MOUNTED BELOW SIGN 401
IN 2 INSTALLATIONS

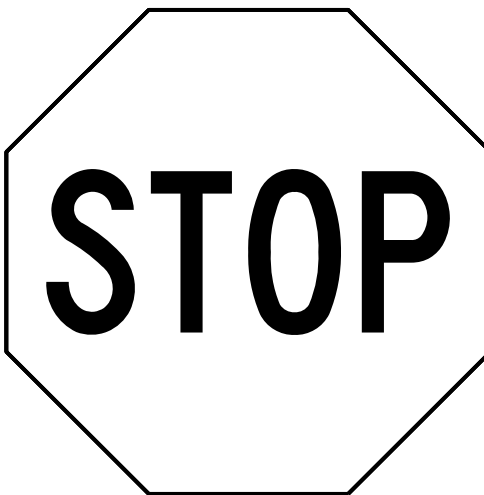
407 QUANTITY REQ'D 1



36" X 36"
W1-2(R)

TWO U-CHANNEL SUPPORTS PER SIGN(S)


403 QUANTITY REQ'D 1



36" X 36"
R1-1

ONE U-CHANNEL SUPPORT PER SIGN(S)

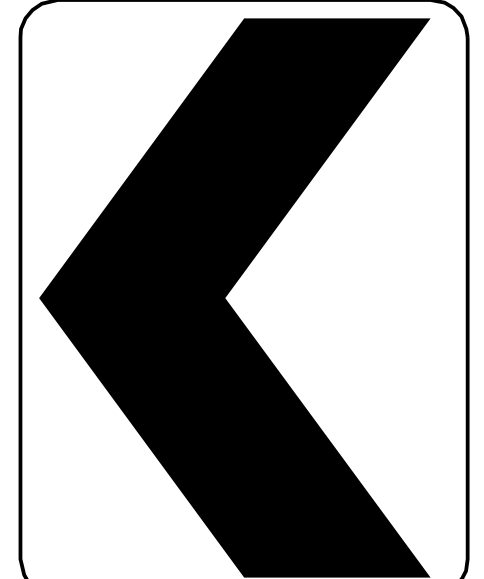
408 QUANTITY REQ'D 1



18" X 18"
W13-1P

MOUNTED BELOW SIGN 408
IN 1 INSTALLATION

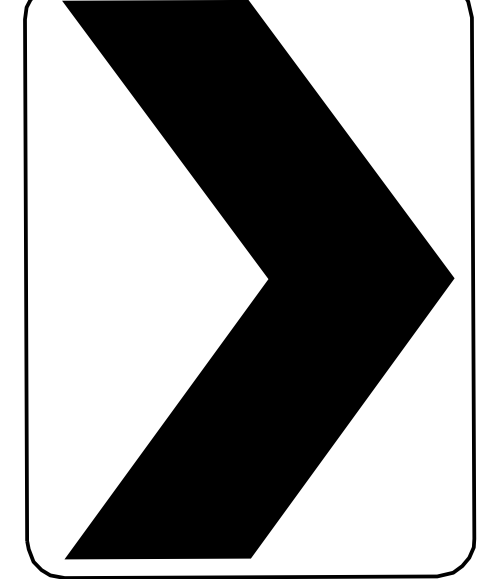
404 QUANTITY REQ'D 10



24" X 30"
W1-8(L)


ONE U-CHANNEL SUPPORT PER SIGN(S)

405 QUANTITY REQ'D 10






24" X 30"
W1-8(R)

MOUNTED BACK TO BACK WITH SIGN 404
IN 10 INSTALLATIONS


PROJECT REFERENCE NO. BP7-R009	SHEET NO. SIGN-2
APPROVED: <i>Andrew D. Klinsiek</i> <small>E3078FB459E44B</small>	
DATE: 2/12/2026	
SEAL	
	
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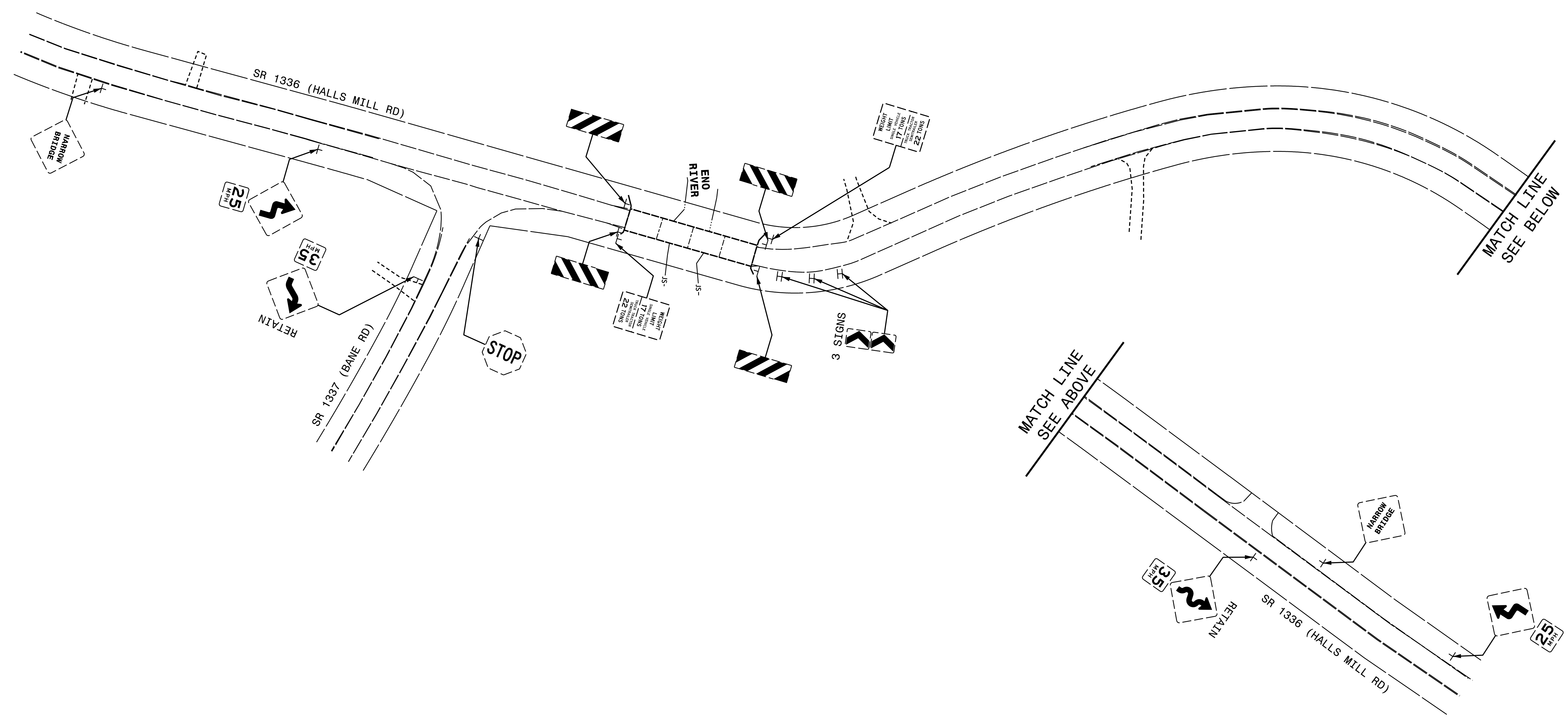
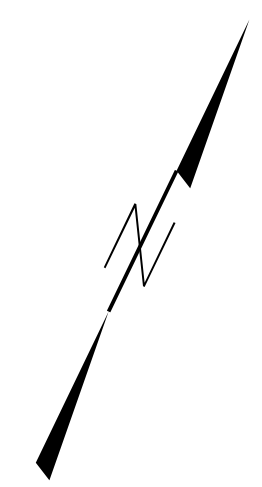
LEGEND

- GENERAL
-  NORTH ARROW
 -  PROPOSED PVMT.  EXIST. PVMT.

FINAL PAVEMENT MARKING SCHEDULE

MATERIAL	SYMBOL	DESCRIPTION
PAVEMENT MARKING		
COLD APPLIED PLASTIC (4")		
	C1	WHITE EDGELINE
	C13	YELLOW DOUBLE CENTER
THERMOPLASTIC (4", 90 MILS)		
	T1	WHITE EDGELINE
	T5	2 FT.-6 FT./SP WHITE MINISKIP
	T13	YELLOW DOUBLE CENTER
THERMOPLASTIC (24", 90 MILS)		
	T61	WHITE STOPBAR


PROJECT REFERENCE NO. BP7-R009	SHEET NO. SIGN-3
APPROVED: <i>Andrew D. Klinskiak</i> <small>E3078FB459E44B</small>	
DATE: 2/12/2026	
SEAL	
	
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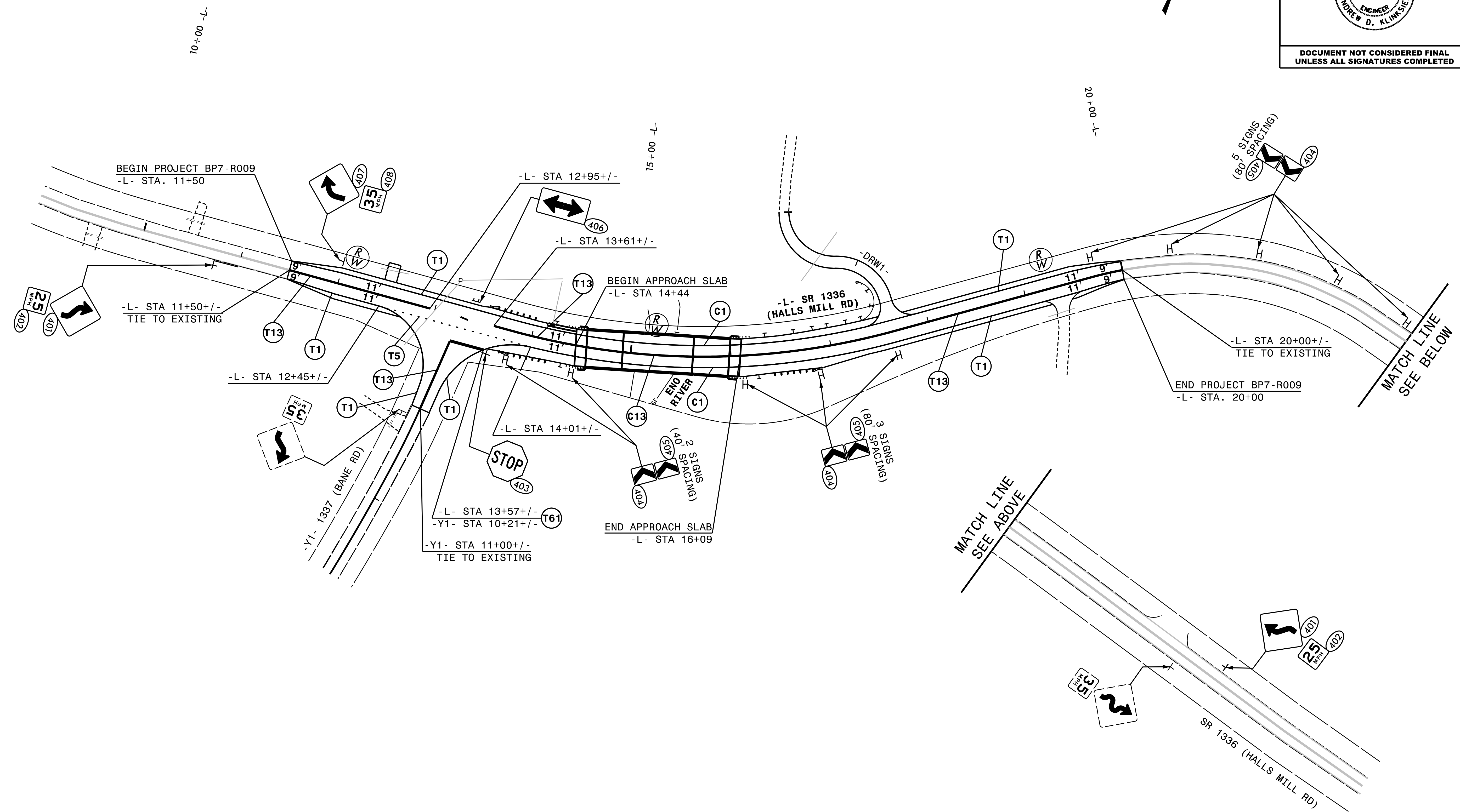


NOTE:
1. SEE PAY ITEM NOTE 2 FOR ALL SIGNS UNLESS OTHERWISE NOTED.

HNTB
HNTB NORTH CAROLINA, P.C.
4000 Center at North Hills St
Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

**EXISTING SIGNING
SR 1336 (HALLS MILL RD)**

PROJECT REFERENCE NO. BP7-R009	SHEET NO. SIGN-4
APPROVED: <i>Andrew D. Klinskiak</i> <small>E3078FB459E44B</small>	
DATE: 2/12/2026	
SEAL	
	
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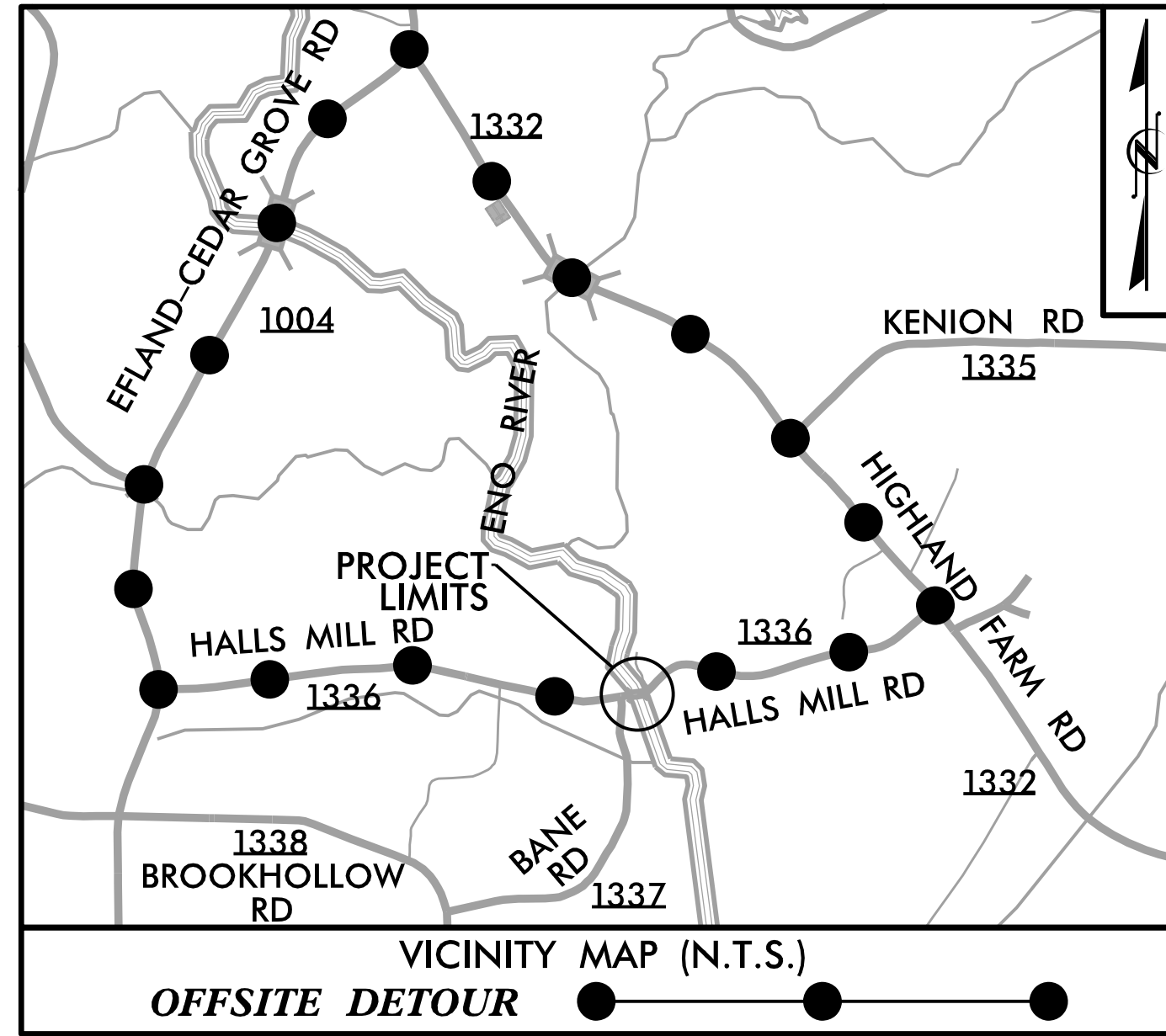


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 HNTB NORTH CAROLINA, P.C.
 4000 Center at North Hills St
 Suite 500
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

**PROPOSED SIGNING AND
PAVEMENT MARKING**
-L- STA 11+50 TO 20+00

09/08/99

TIP PROJECT: BP7-R009



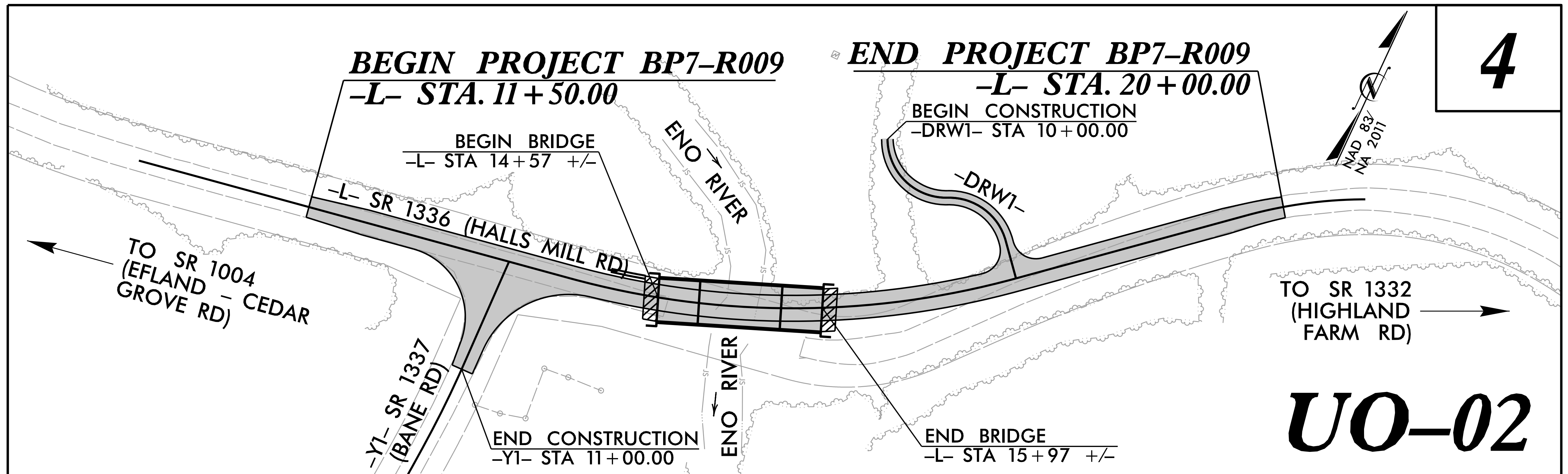
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITIES BY OTHERS PLANS
ORANGE COUNTY**

**LOCATION: REPLACE BRIDGE NO. 011 OVER
ENO RIVER ON SR 1336 (HALLS MILL RD)**
TYPE OF WORK: POWER (DISTRIBUTION) & COMMUNICATIONS

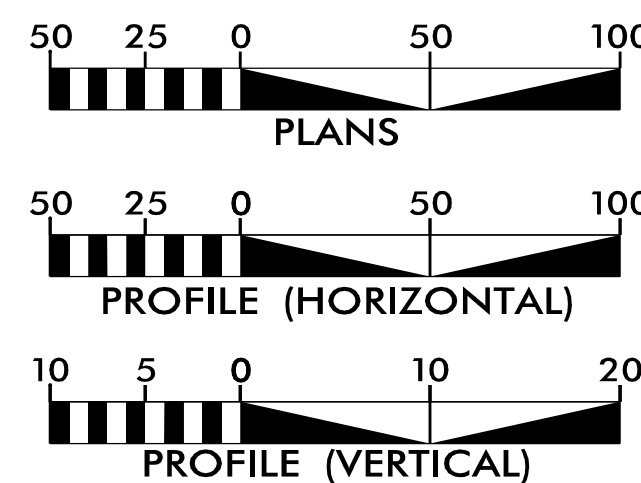
T.I.P. NO.	SHEET NO.
BP7-R009	UO-1

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.



UO-02

GRAPHIC SCALES



INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UO-1	TITLE SHEET
UO-02	UBO PLAN SHEET

UTILITY OWNERS WITH CONFLICTS

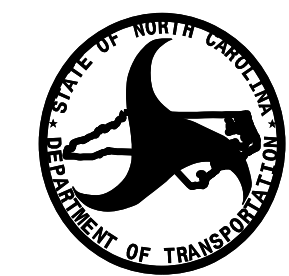
- (A) PIEDMONT EMC-POWER DISTRIBUTION
- (B) BRIGHTSPEED-COMMUNICATIONS
- (C) LUMOS-COMMUNICATIONS

PREPARED IN THE OFFICE OF:



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

Todd Butner **UTILITY PROJECT MANAGER**
Matthew Ward **PROJECT UTILITY COORDINATOR**



**DIVISION OF HIGHWAYS
DIVISION 7**
1584 YANCEYVILLE STREET
GREENSBORO, 27405

Daniel Dagenhart **DIV. BRIDGE PROGRAM MANAGER**
James Yates, MS, PE **DIV. UTILITY ENGINEER**
Matthew Sargalis **DIV. UTILITY COORDINATOR**

1/9/2026
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