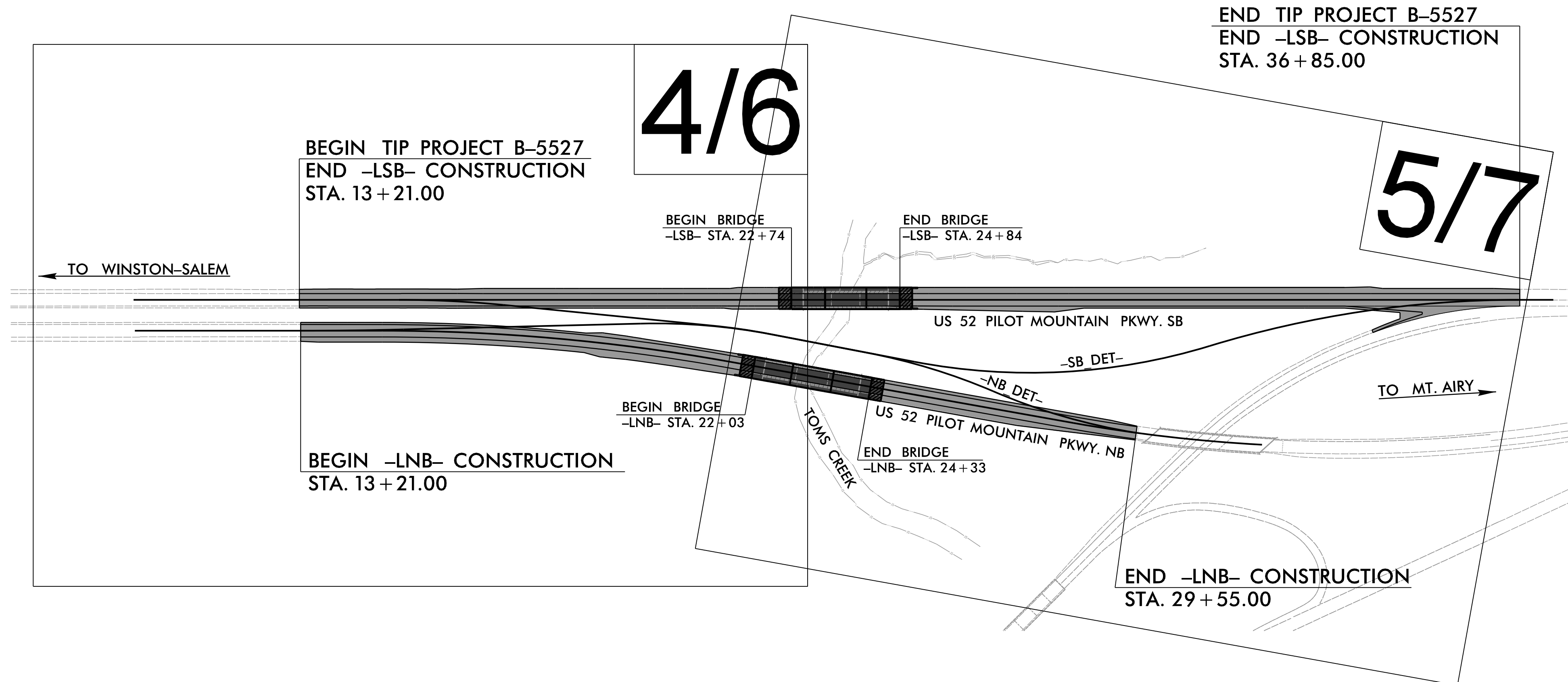
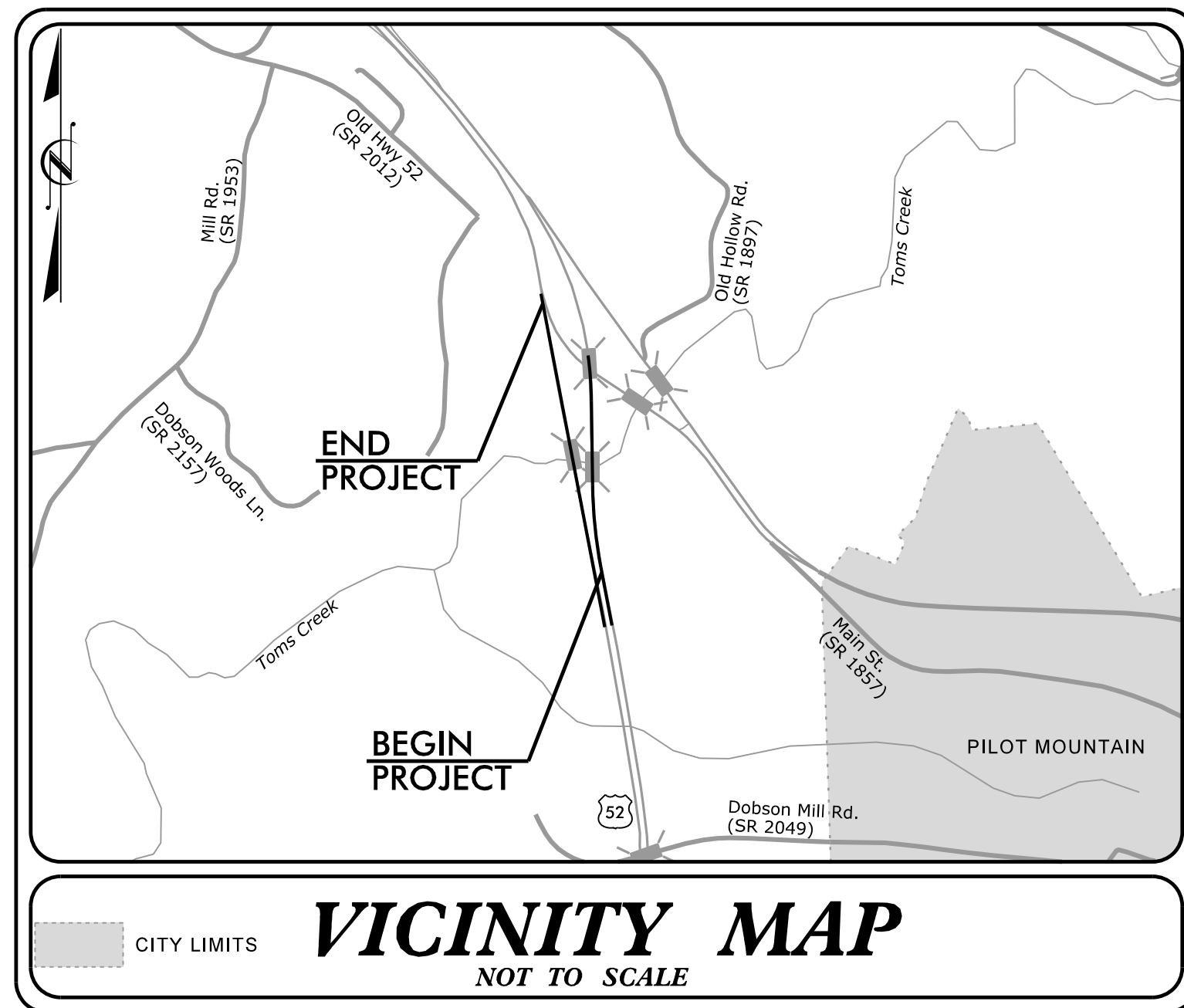


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5527	EC-1	13
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
55027.1.FS1	BRSTP-0052(49)	PE	
55027.2.1		ROW	
55027.2.1		UTIL	
55027.3.1		CONSTR.	

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

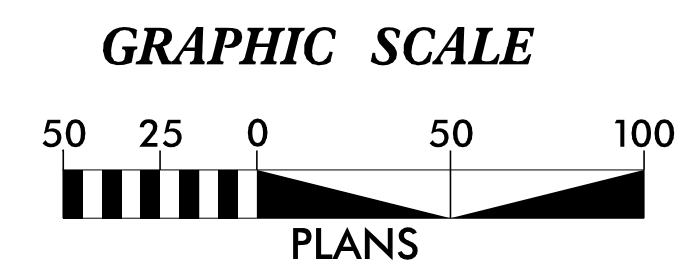
LOCATION: BRIDGES 122 AND 126 OVER TOMS CREEK
 ON US 52 NB AND SB

TYPE OF WORK: GRADING, DRAINAGE, PAVING, & STRUCTURES

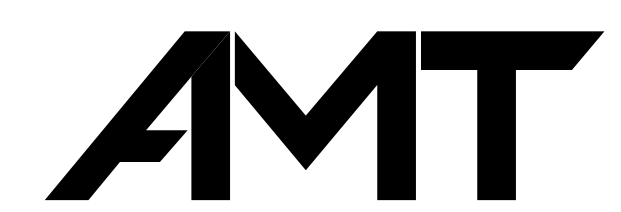


THIS PROJECT CONTAINS
 EROSION CONTROL PLANS
 FOR CLEARING AND
 GRUBBING PHASE OF
 CONSTRUCTION.

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH
 THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000
 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019
 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF
 ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.



Prepared In the Office of:
A. MORTON THOMAS AND ASSOCIATES, INC.
 900 RIDGEFIELD DRIVE, SUITE 325
 RALEIGH, NC 27609
 NC LICENSE NO. F-1049
 (919) 855-9989

Designed by:
Samuel MacDonald, P.E. 4131
 NAME LEVEL III CERTIFICATION NO.

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

09_08/99
 3/5/2024
 X:\Raleigh\14-783-005D - B-5527 CE Update\05-CAD\B5527\Hydraulics\CADD\PSH\B5527_EC-fsh.dgn
 acorpenfer

TIP PROJECT: B-5527

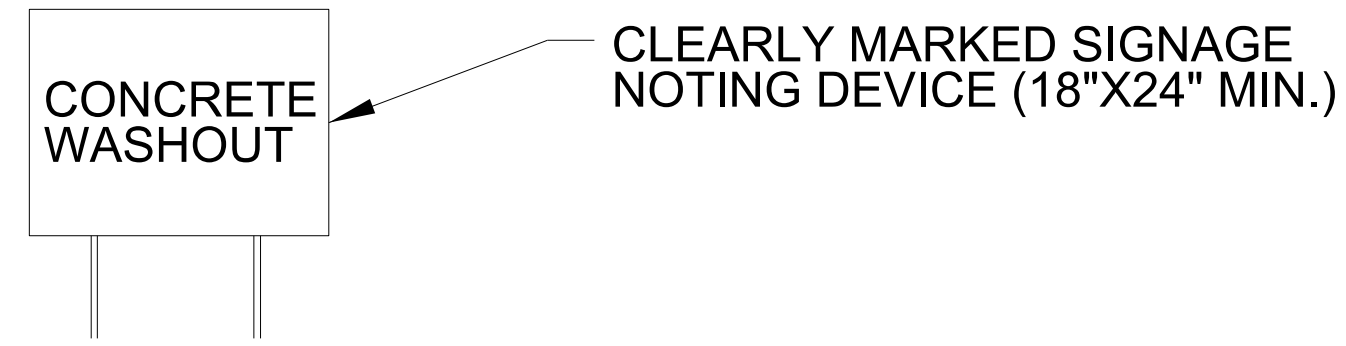
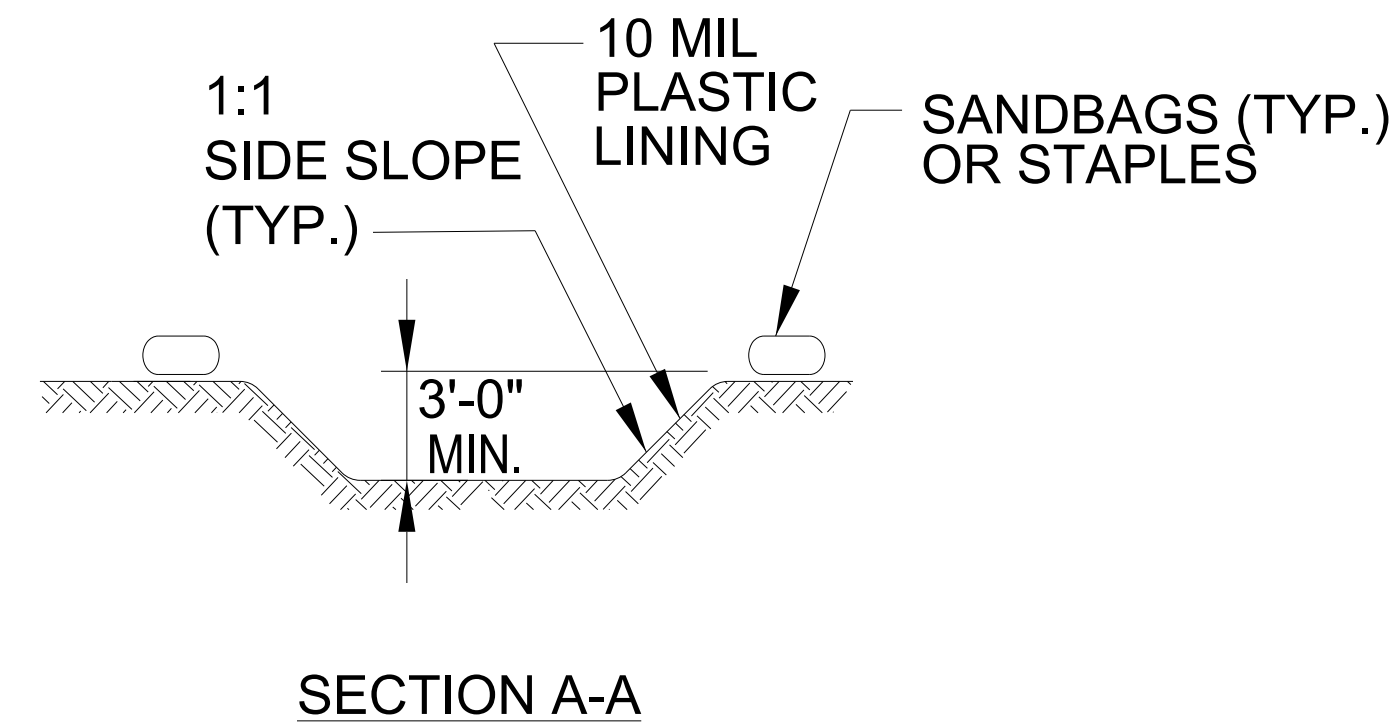
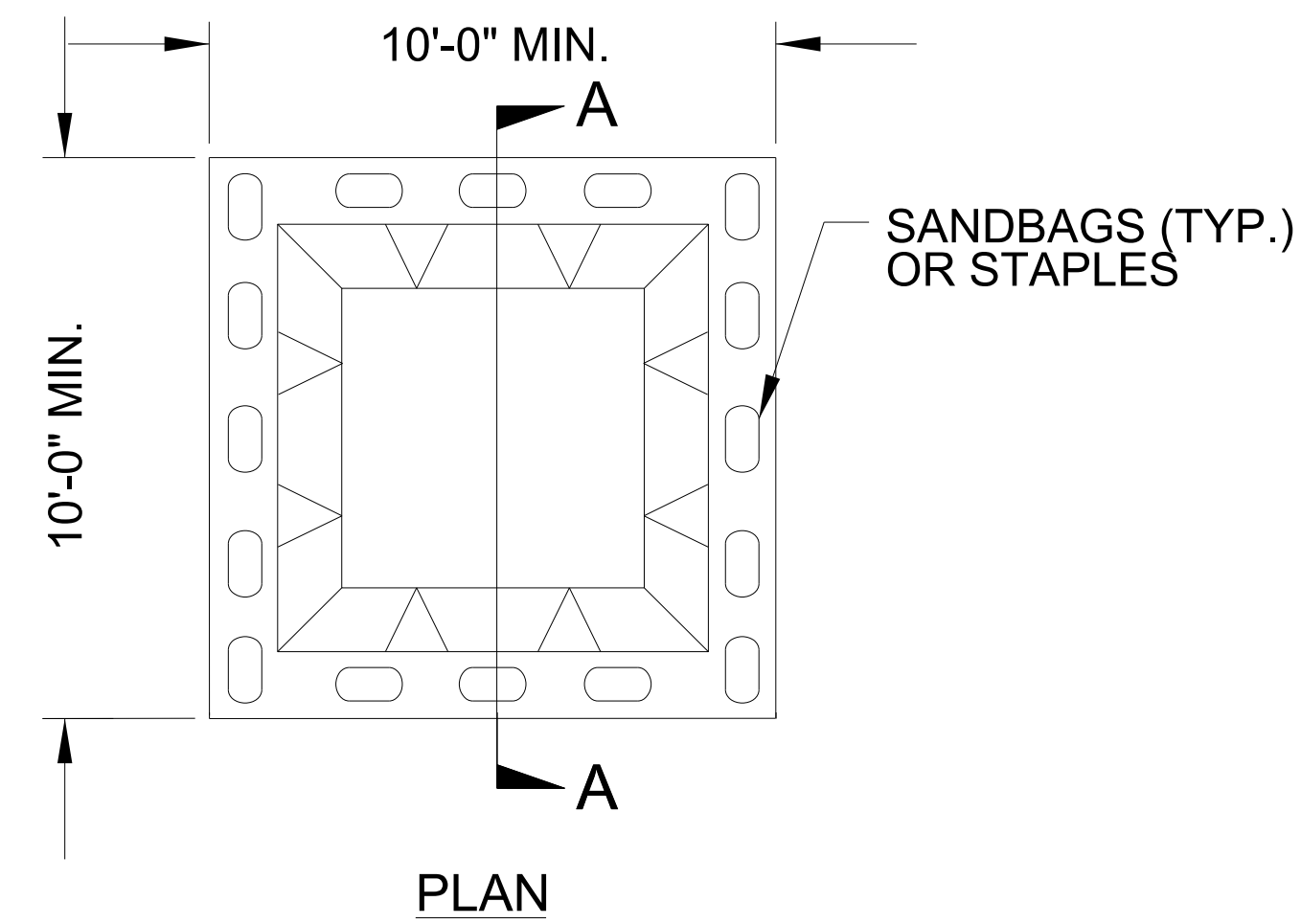
CONTRACT: C204208

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

EROSION & SEDIMENT CONTROL LEGEND

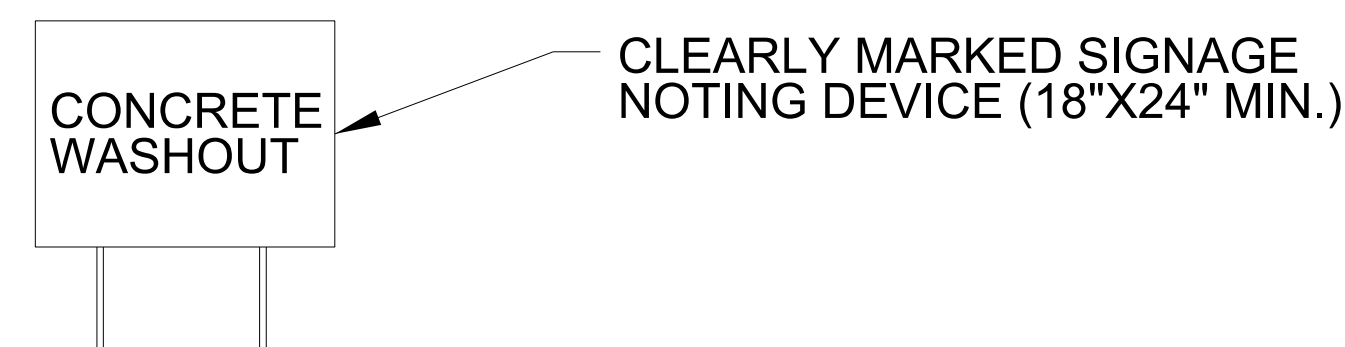
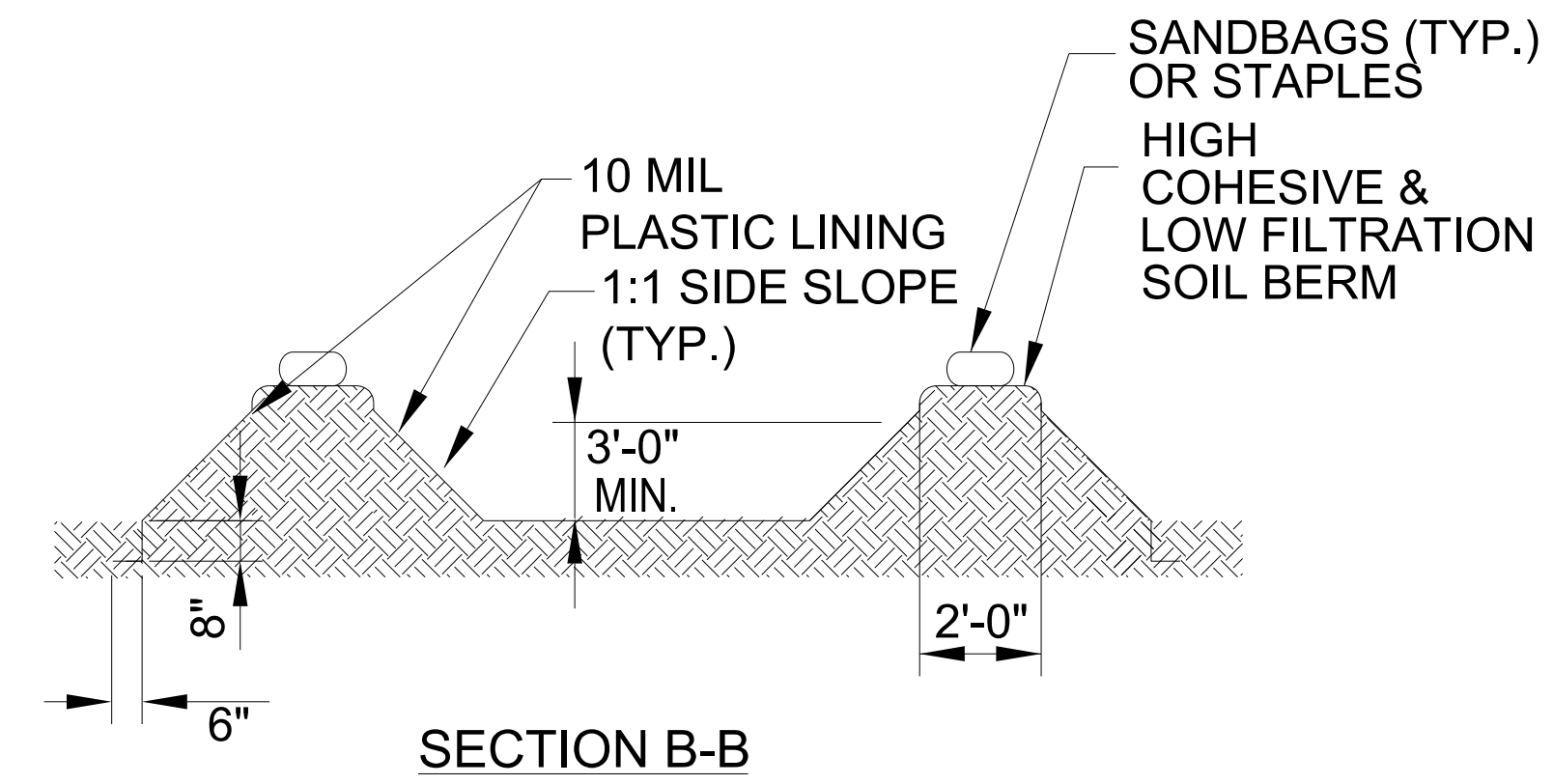
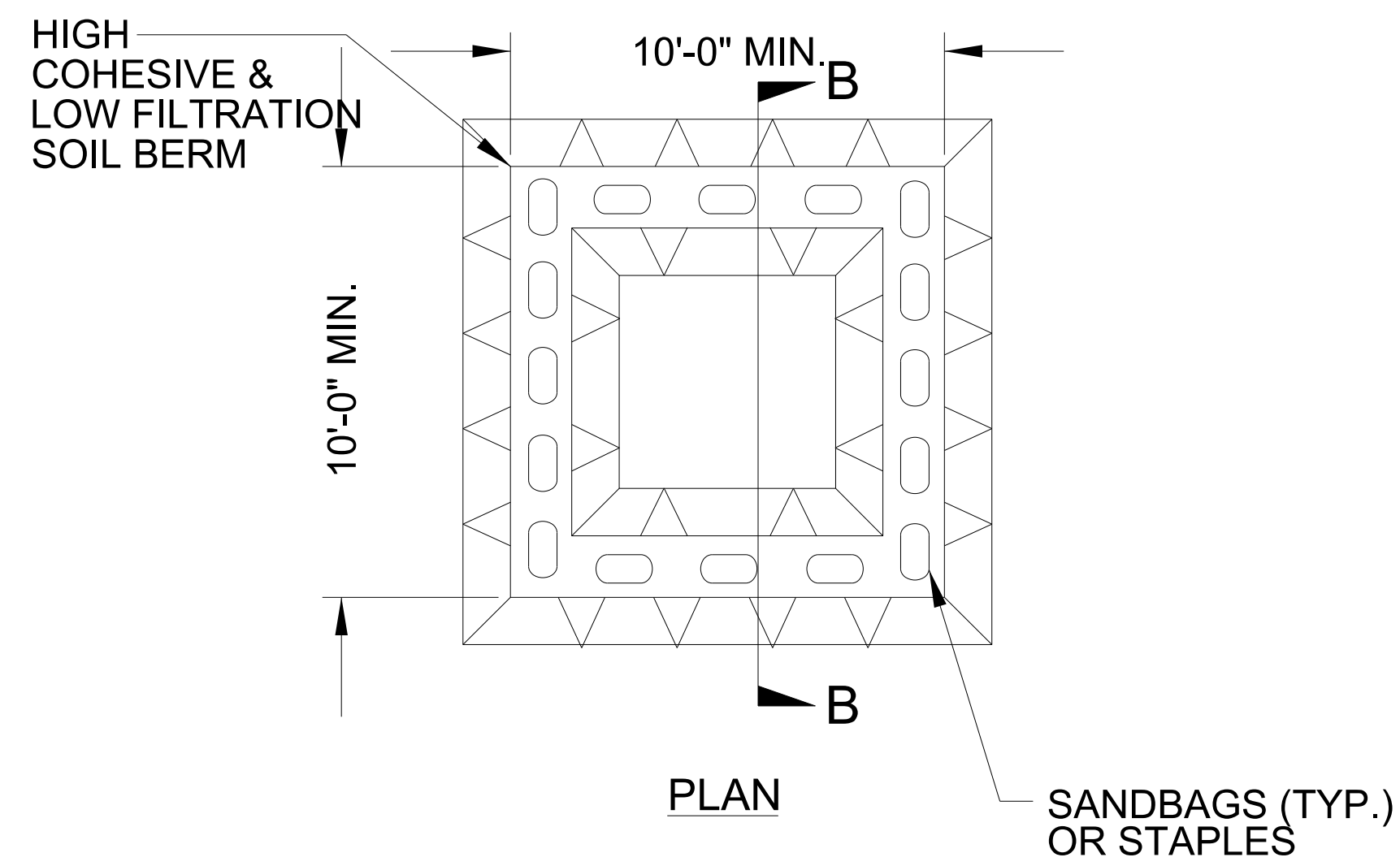
Std. #	Description	Symbol	Std. #	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior 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		1636.02	Excelsior Wattle Barrier	
1632.02	Type B		1636.03	Coir Fiber Wattle Barrier	
1632.03	Type C				

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

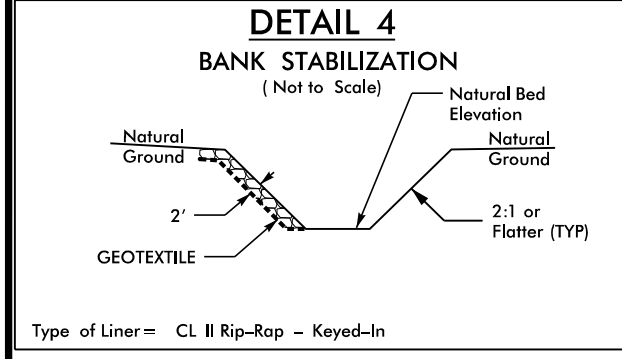
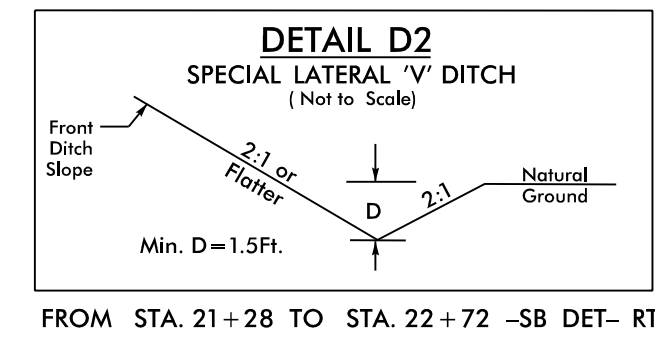
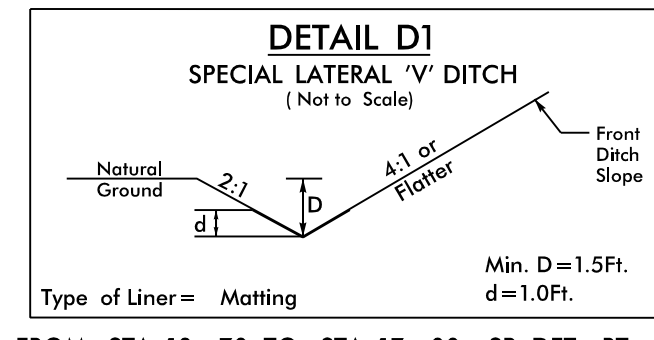
- NOTES:**
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY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

UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT BRIDGE CONSTRUCTION.

-SB_DET-

PI Sta 11+01.02 Δ = 5' 38' 33.0" (RT) D = 2' 47' 41.7" L = 201.88' T = 101.02' R = 2,050.00' e = 2% RO = VARIES	PI Sta 16+63.12 Δ = 5' 11' 50.0" (RT) D = 4' 48' 53.2" L = 107.94' T = 54.01' R = 1,190.00' e = 4% RO = 144'	PI Sta 23+01.87 Δ = 27' 49' 08.8" (LT) D = 4' 48' 53.2" L = 577.79' T = 294.71' R = 1,190.00' e = 4% RO = 144'
--	---	---

-SB_DET- DS = 55 MPH

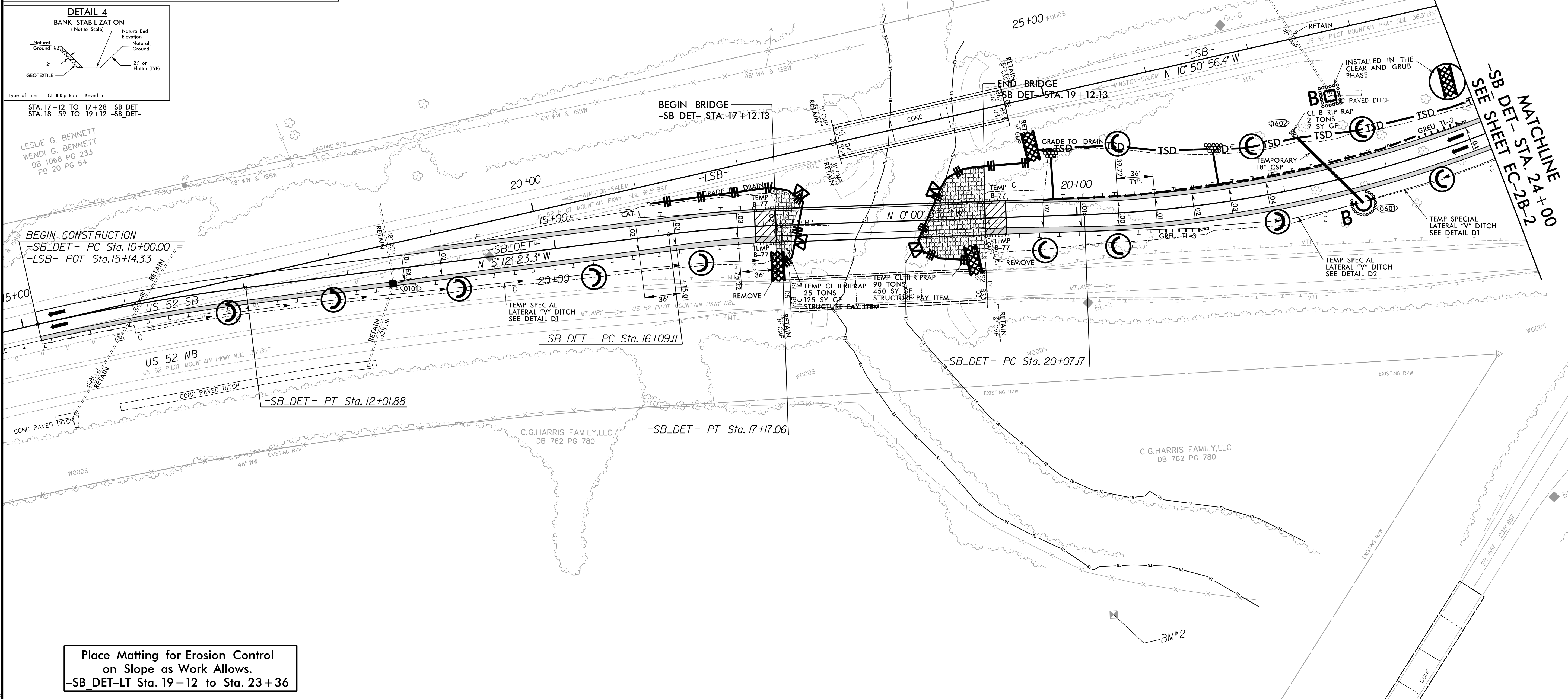


STA. 17+12 TO 17+28 -SB_DET-
 STA. 18+59 TO 19+12 -SB_DET-

LESLIE G. BENNETT
 WENDI G. BENNETT
 DB 1066 PG 233
 PB 20 PG 64

FROM STA. 10+70 TO STA. 17+00 -SB_DET- RT
 FROM STA. 22+72 TO STA. 24+00 -SB_DET- RT

FROM STA. 21+28 TO STA. 22+72 -SB_DET- RT



Place Matting for Erosion Control on Slope as Work Allows.
 -SB_DET-LT Sta. 19+12 to Sta. 23+36

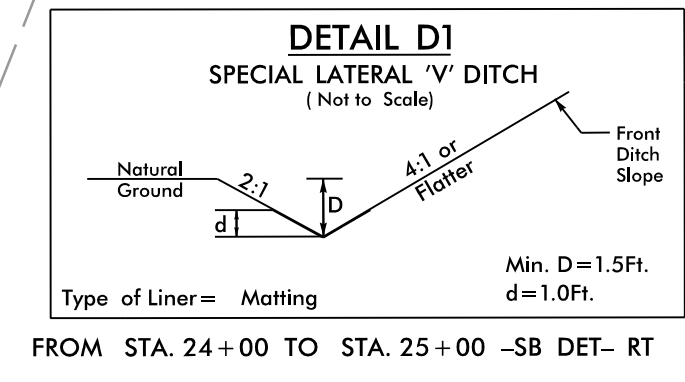
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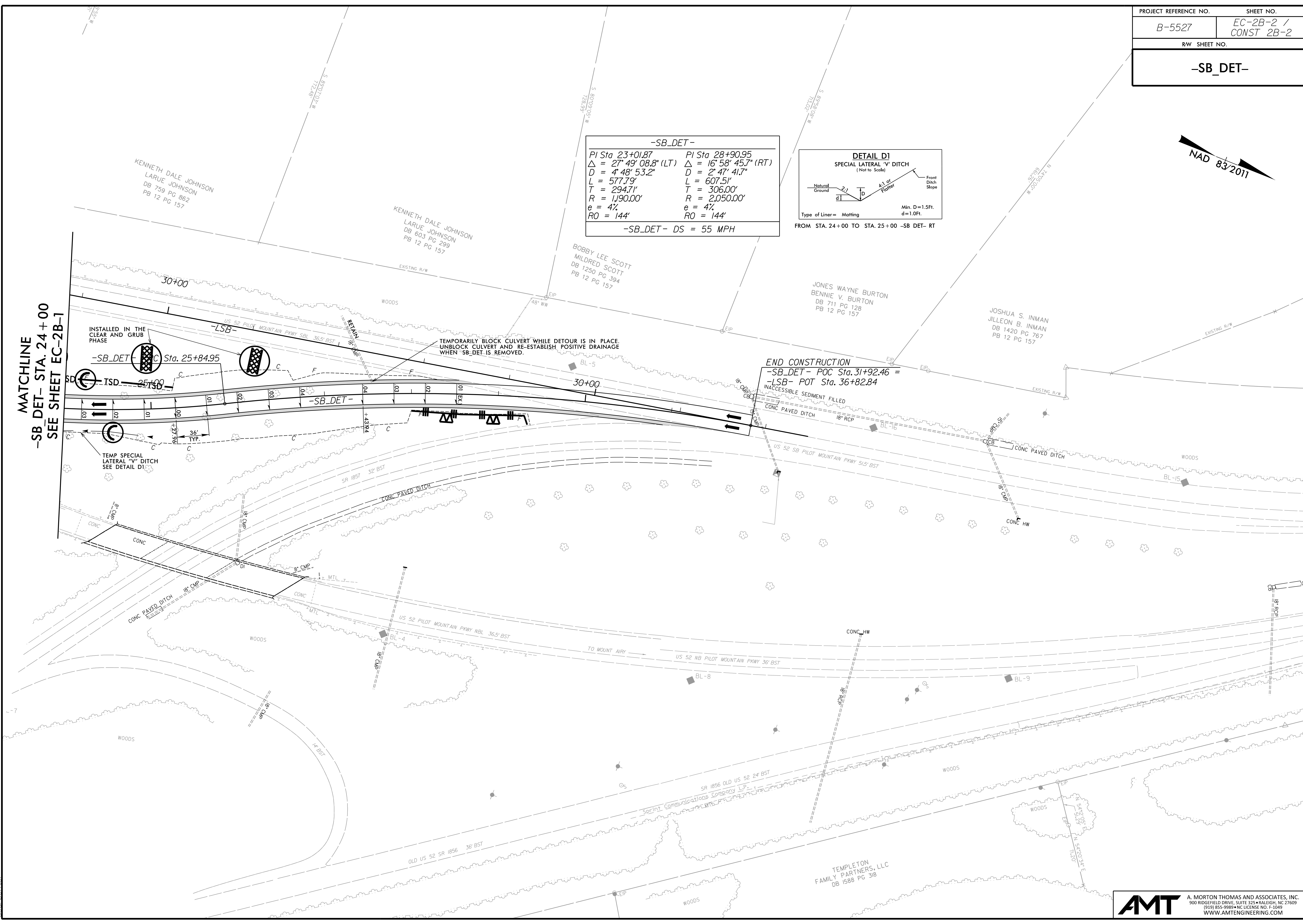
-SB_DET-

PI Sta 23+01.87	PI Sta 28+90.95
$\Delta = 27^{\circ} 49' 08.8''$ (LT)	$\Delta = 16^{\circ} 58' 45.7''$ (RT)
D = 4' 48' 53.2"	D = 2' 47' 41.7"
L = 577.79'	L = 607.51'
T = 294.71'	T = 306.00'
R = 1,190.00'	R = 2,050.00'
e = 4%	e = 4%
RO = 144'	RO = 144'

-SB_DET- DS = 55 MPH



MATCHLINE
-SB_DET- STA. 24+00
SEE SHEET EC-2B-1



INSTALLED IN THE CLEAR AND GRUB PHASE

-SB_DET- STA. 25+84.95

TEMP SPECIAL LATERAL 'V' DITCH SEE DETAIL D1

TEMPORARILY BLOCK CULVERT WHILE DETOUR IS IN PLACE. UNBLOCK CULVERT AND RE-ESTABLISH POSITIVE DRAINAGE WHEN -SB_DET- IS REMOVED.

END CONSTRUCTION
-SB_DET- POC Sta. 31+92.46 =
-LSB- POT Sta. 36+82.84

3/5/2024 X:\Raleigh\114-783\0050 - B-5527 CE Update\05-CAD\B5527\Hydraulics\CADD\PSH\B5527-EC_psh_02B-2.dgn

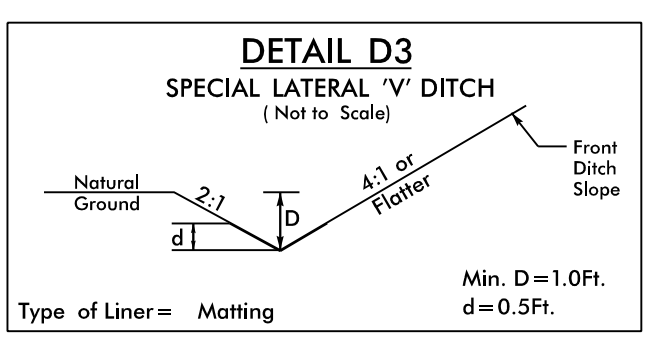
UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT BRIDGE CONSTRUCTION.

NAD 83/2011

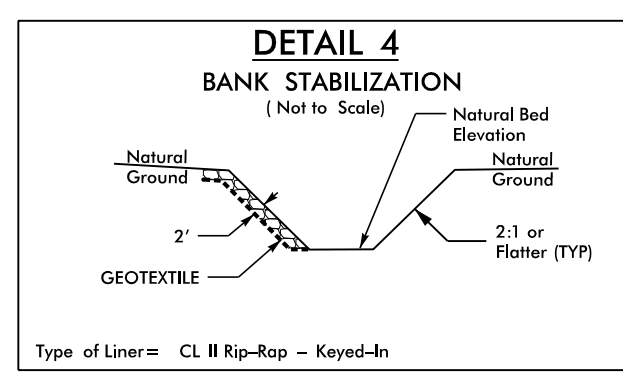
-NB_DET-

PI Sta 10+99.80	PI Sta 17+87.14	PI Sta 22+30.03
$\Delta = 1^{\circ} 25' 07.5" (LT)$	$\Delta = 12^{\circ} 15' 04.2" (RT)$	$\Delta = 12^{\circ} 19' 54.4" (RT)$
$D = 0^{\circ} 42' 39.1"$	$D = 4^{\circ} 48' 53.2"$	$D = 4^{\circ} 48' 53.2"$
$L = 199.58'$	$L = 254.45'$	$L = 256.12'$
$T = 99.80'$	$T = 127.71'$	$T = 128.56'$
$R = 8,060.00'$	$R = 1,190.00'$	$R = 1,190.00'$
$DS = 60 \text{ MPH}$	$e = 4\%$	$e = 4\%$
$e = R.C$	$RO = 144'$	$RO = 144'$
$RO = 72'$		

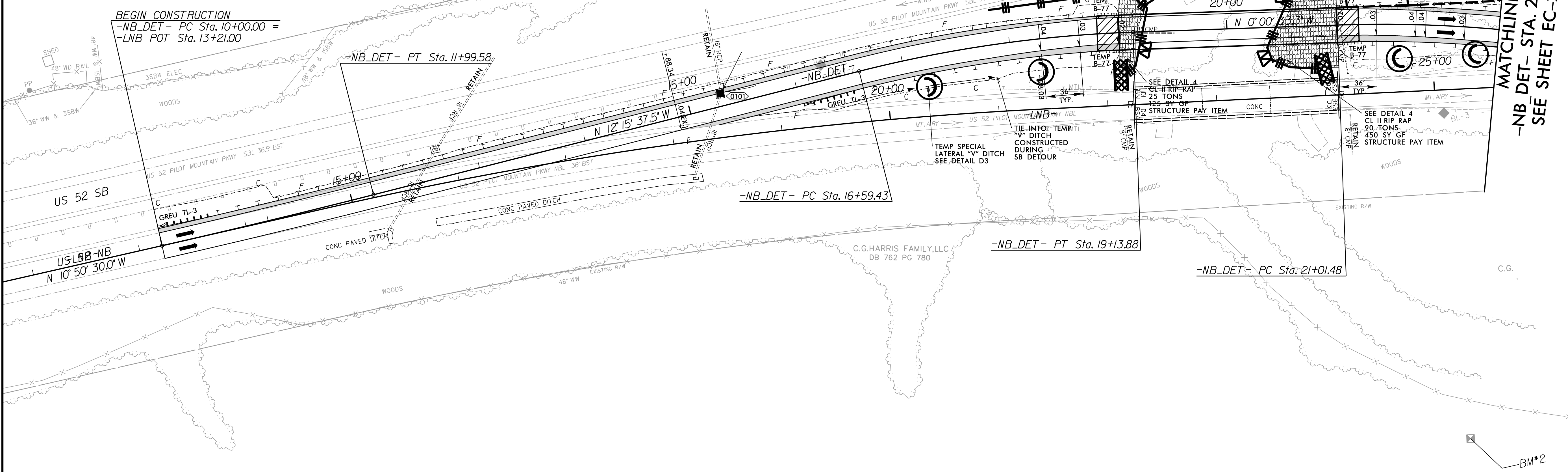
-NB_DET- DS = 55 MPH



FROM STA. 16+50 TO STA. 17+90 -NB_DET- RT



STA. 19+01 TO 19+17 -NB_DET-
STA. 20+48 TO 21+01 -NB_DET-



Place Matting for Erosion Control on Slope as Work Allows. Sta.-NB_DET-L 21+00 to Sta. 22+50

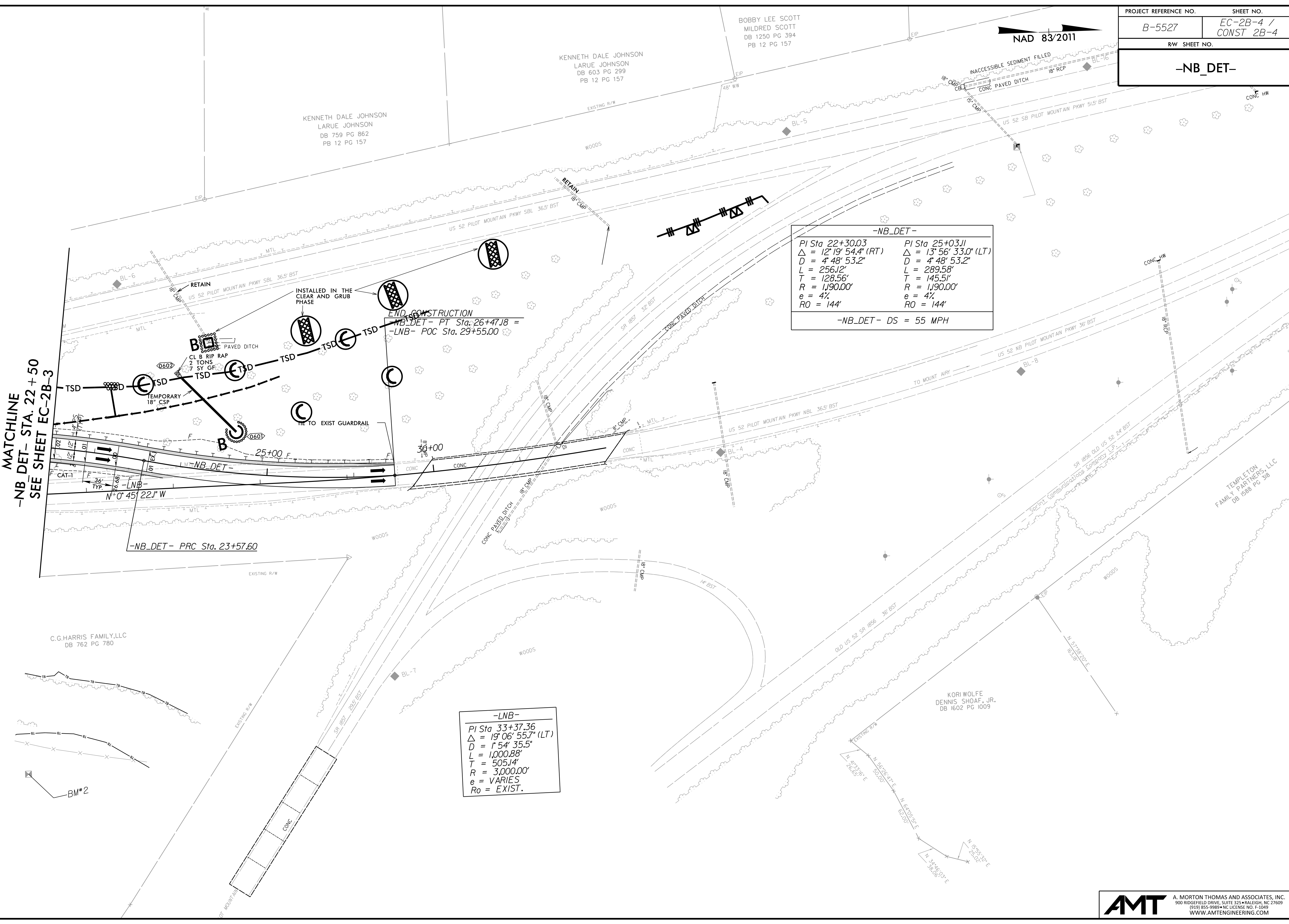
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NAD 83/2011

-NB_DET-	
PI Sta 22+30.03	PI Sta 25+03.11
$\Delta = 12^{\circ}19'54.4"$ (RT)	$\Delta = 13^{\circ}56'33.0"$ (LT)
D = 4'48'53.2"	D = 4'48'53.2"
L = 256.12'	L = 289.58'
T = 128.56'	T = 145.51'
R = 1,190.00'	R = 1,190.00'
e = 4%	e = 4%
RO = 144'	RO = 144'
-NB_DET- DS = 55 MPH	

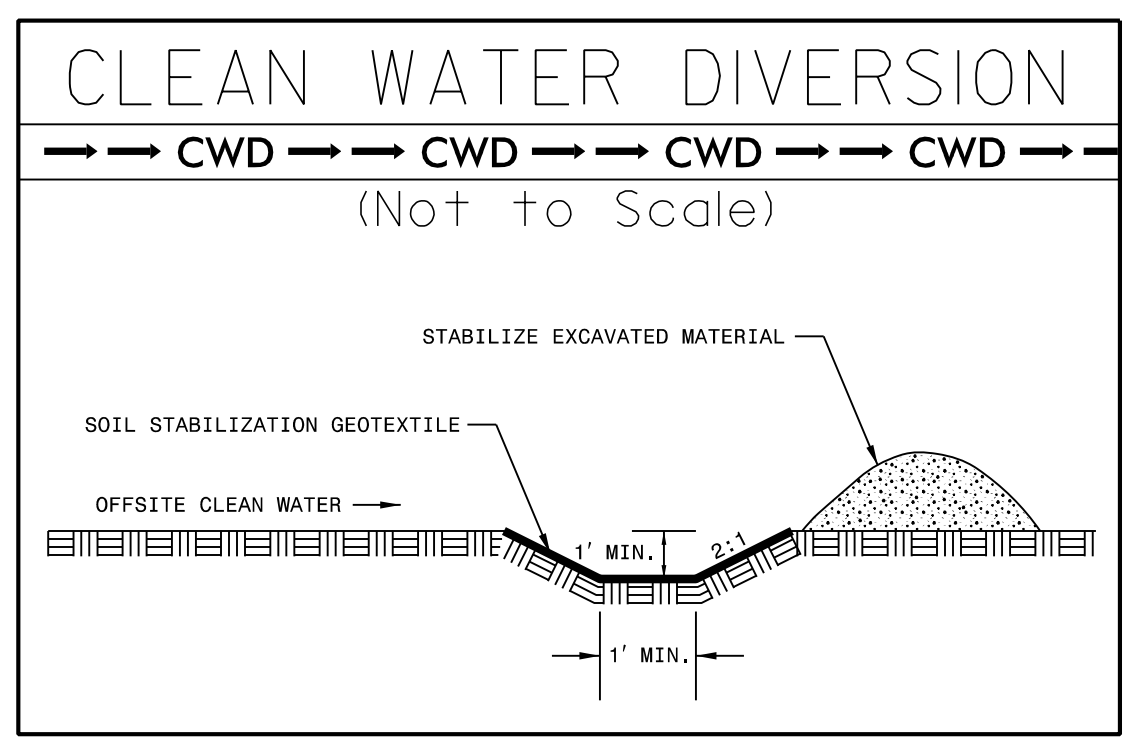
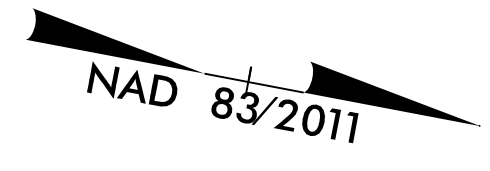
-LNB-	
PI Sta 33+37.36	
$\Delta = 19^{\circ}06'55.7"$ (LT)	
D = 1'54'35.5"	
L = 1,000.88'	
T = 505.14'	
R = 3,000.00'	
e = VARIES	
Ro = EXIST.	

MATCHLINE
-NB_DET- STA. 22+50
SEE SHEET EC-2B-3



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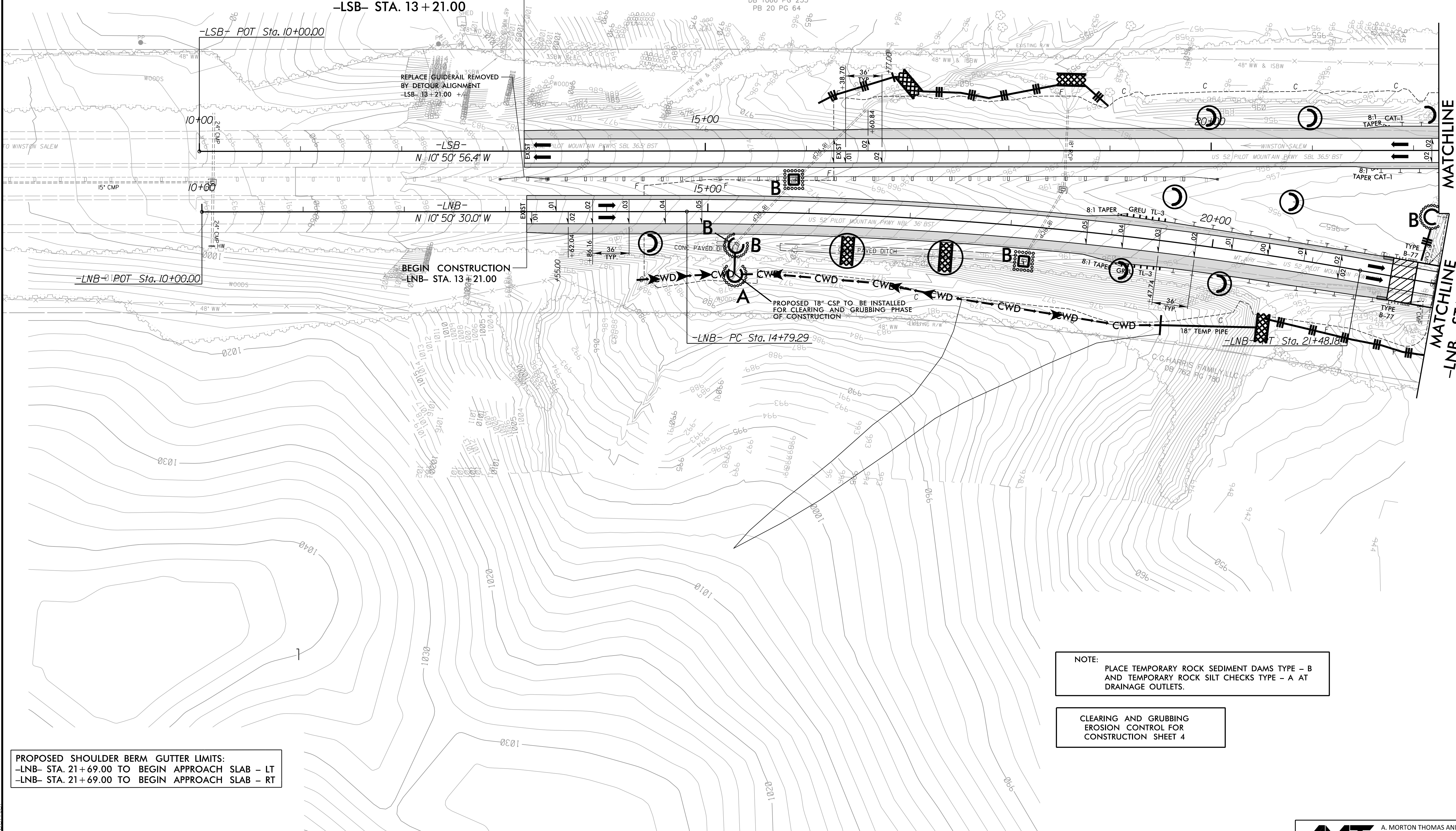
CLEARING & GRUBBING PHASE



-LNB-
 PI Sta 18+14.60
 $\Delta = 10^{\circ} 05' 07.9''$ (RT)
 $D = 1^{\circ} 30' 28.0''$
 $L = 668.90'$
 $T = 335.31'$
 $R = 3,800.00'$
 $e = 5.0\%$
 $R_o = 180'$

BEGIN TIP PROJECT B-5527
BEGIN CONSTRUCTION
-LSB- STA. 13+21.00

LESLIE G. BENNETT
 WENDI G. BENNETT
 DB 1066 PG 233
 PB 20 PG 64



MATCHLINE
 -LSB- STA. 22+25
 SEE SHEET EC-5
MATCHLINE
 -LNB- STA. 22+25
 SEE SHEET EC-5

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

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 4

PROPOSED SHOULDER BERM GUTTER LIMITS:
 -LNB- STA. 21+69.00 TO BEGIN APPROACH SLAB - LT
 -LNB- STA. 21+69.00 TO BEGIN APPROACH SLAB - RT

3/5/2024 X:\Raleigh\114-783\050 - B-5527 CE Update\05-CAD\B5527\Hydro\pics\CADD\PSH\B5527-EC.psh.04.dgn

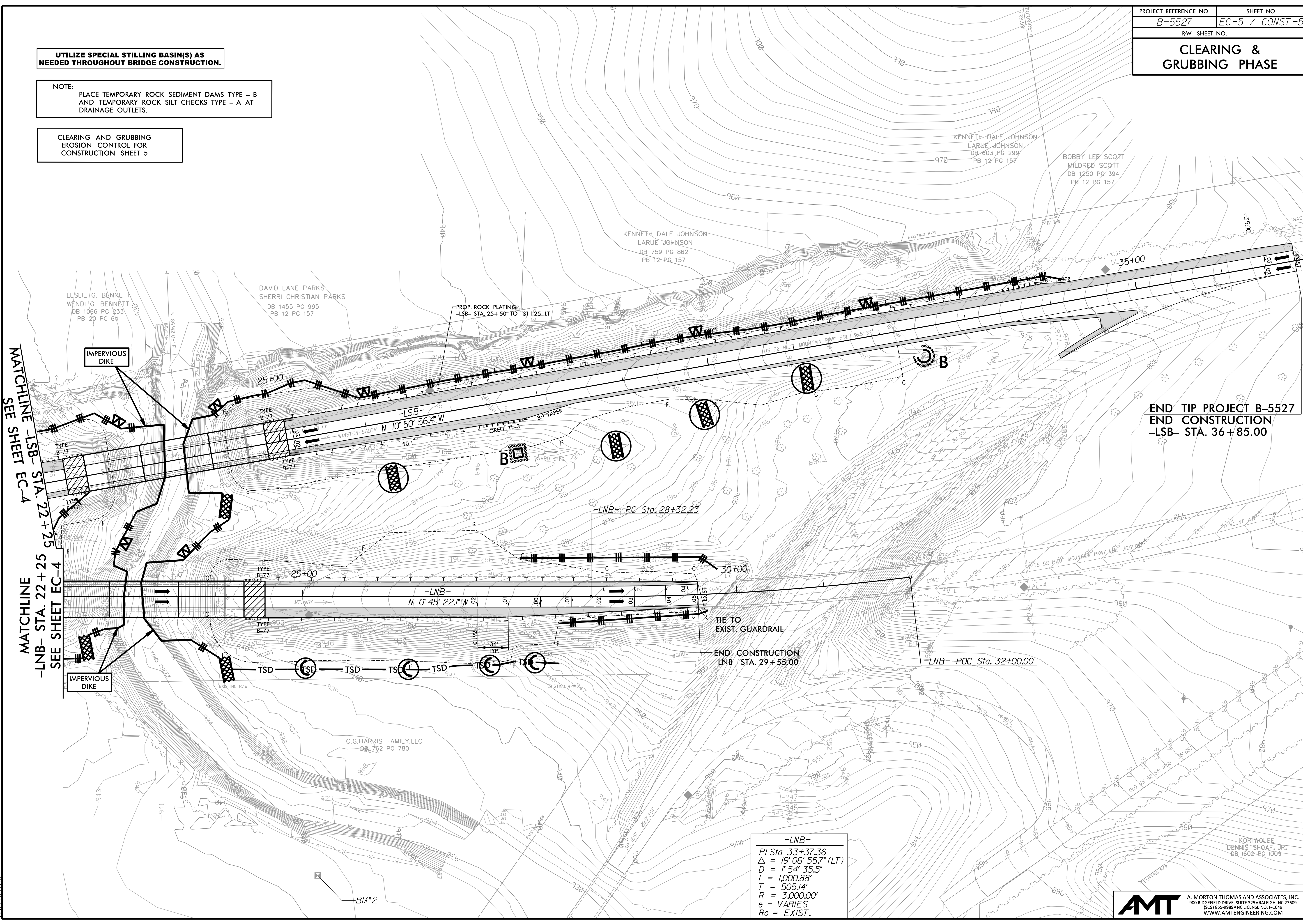
CLEARING & GRUBBING PHASE

UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT BRIDGE CONSTRUCTION.

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5

3/5/2024 X:\Raleigh\114-783\05D - B-5527 CE Update\05-CAD\B5527\Hydro\utils\CADD\PSH\B5527-EC.psh_05.dgn

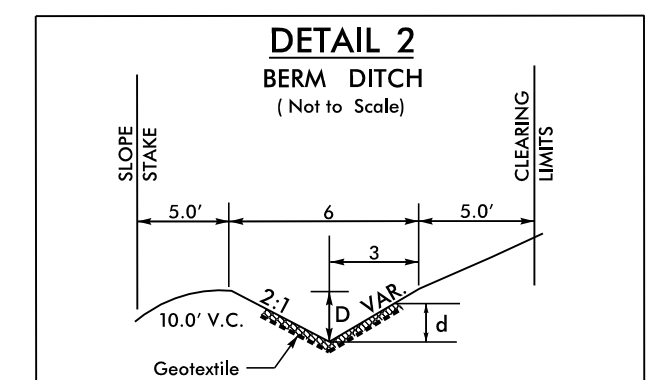
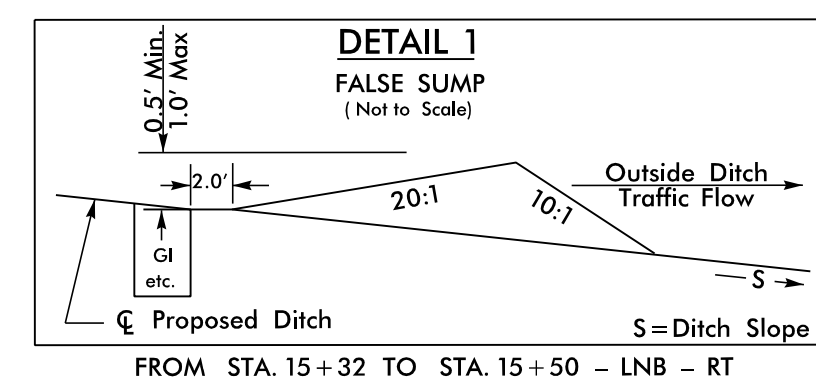
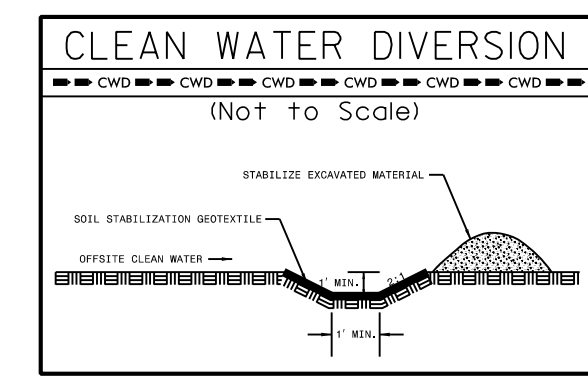


**END TIP PROJECT B-5527
END CONSTRUCTION
-LSB- STA. 36+85.00**

-LNB-
 PI Sta 33+37.36
 $\Delta = 19^{\circ} 06' 55.7''$ (LT)
 $D = 1^{\circ} 54' 35.5''$
 $L = 1,000.88'$
 $T = 505.14'$
 $R = 3,000.00'$
 $e = \text{VARIES}$
 $R_0 = \text{EXIST.}$

FINAL PHASE

-LNB-
 PI Sta 18+14.60
 $\Delta = 10' 05' 07.9''$ (RT)
 $D = 1' 30' 28.0''$
 $L = 668.90'$
 $T = 335.31'$
 $R = 3,800.00'$
 $e = 5.0\%$
 $Ro = 180'$

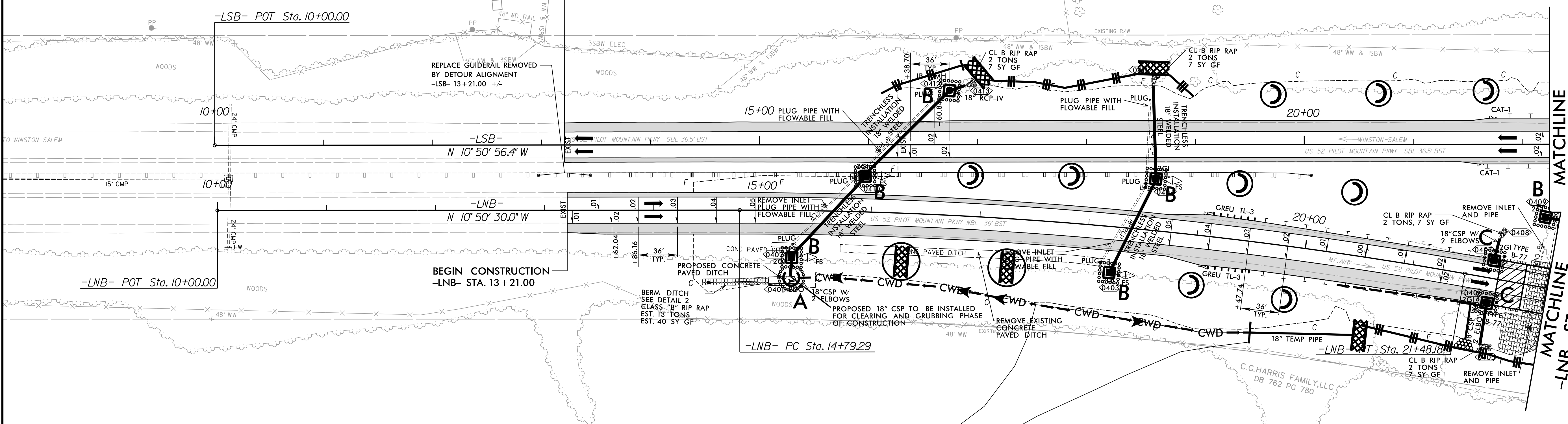


FROM STA. 15+32 TO STA. 15+50 - LNB - RT
 FROM STA. 18+28 TO STA. 18+44 - LNB - RT
 FROM STA. 16+00 TO STA. 16+18 - LNB - LT
 FROM STA. 18+64 TO STA. 18+82 - LNB - LT

FROM STA. 14+50 TO STA. 15+00 - LNB - RT
 Type of Liner = Class "B" Rip-Rap
 Min. D=1.5 Ft.
 Max. d=1.0 Ft.

BEGIN TIP PROJECT B-5527
BEGIN CONSTRUCTION
-LSB- STA. 13+21.00

LESLIE G. BENNETT
 WENDI G. BENNETT
 DB 1066 PG 233
 PB 20 PG 64



MATCHLINE
-LNB- STA. 22+25
SEE SHEET EC-7

PROPOSED SHOULDER BERM GUTTER LIMITS:
 -LNB- STA. 21+69.00 TO BEGIN APPROACH SLAB - LT
 -LNB- STA. 21+69.00 TO BEGIN APPROACH SLAB - RT

Place Matting for Erosion Control
on Slope as Work Allows.
-LNB-RT Sta. 30+35 to Sta. 21+68

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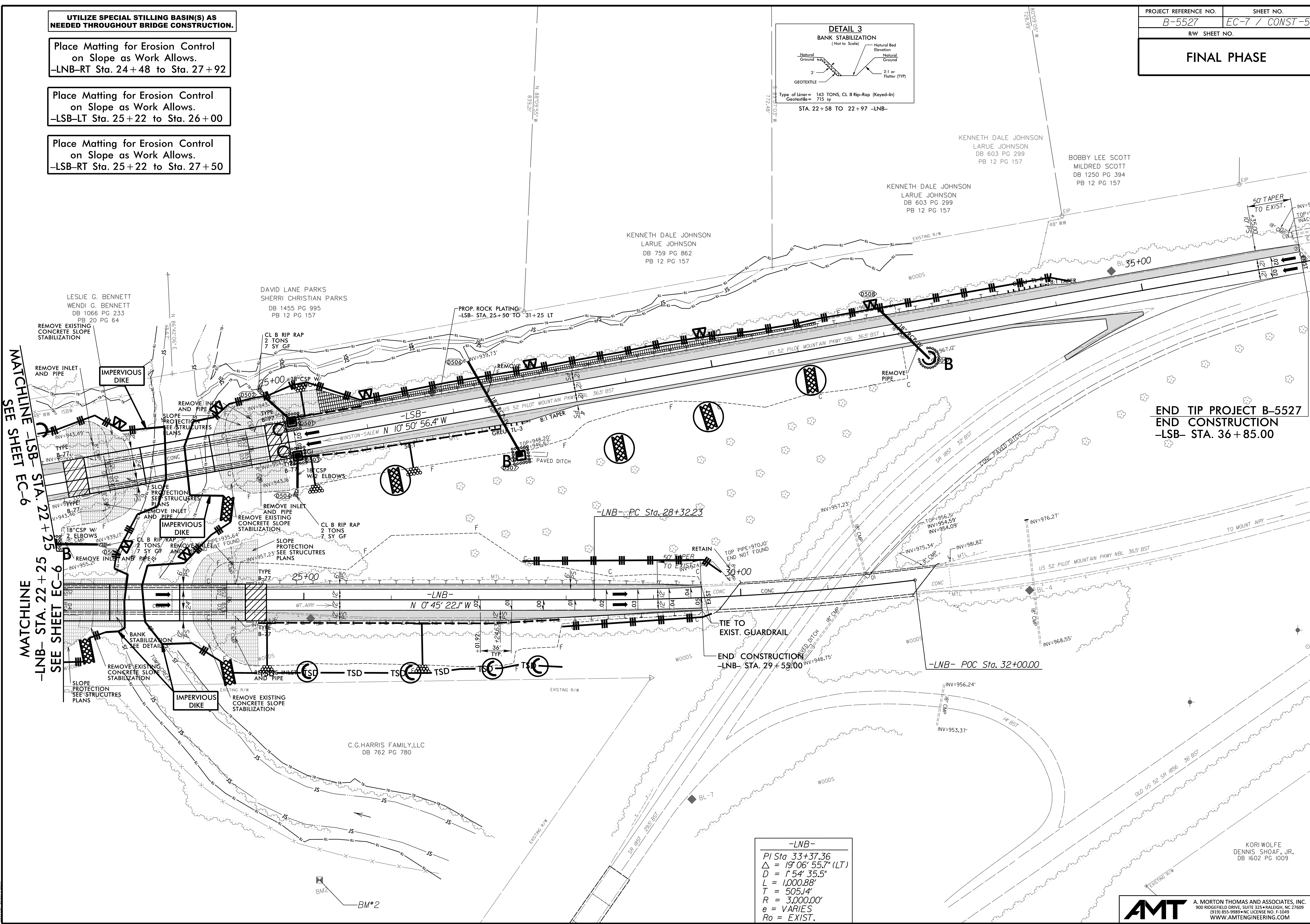
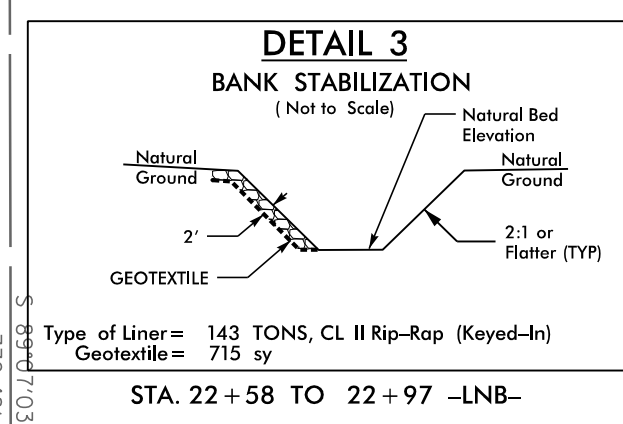
FINAL PHASE

UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT BRIDGE CONSTRUCTION.

Place Matting for Erosion Control on Slope as Work Allows.
-LNB-RT Sta. 24+48 to Sta. 27+92

Place Matting for Erosion Control on Slope as Work Allows.
-LSB-LT Sta. 25+22 to Sta. 26+00

Place Matting for Erosion Control on Slope as Work Allows.
-LSB-RT Sta. 25+22 to Sta. 27+50



**END TIP PROJECT B-5527
END CONSTRUCTION
-LSB- STA. 36+85.00**

**END CONSTRUCTION
-LNB- STA. 29+55.00**

-LNB-
 $PI\ Sta\ 33+37.36$
 $\Delta = 19^{\circ} 06' 55.7" (LT)$
 $D = 1' 54' 35.5"$
 $L = 1,000.88'$
 $T = 505.14'$
 $R = 3,000.00'$
 $e = VARIES$
 $Ro = EXIST.$

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