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TIP PROJECT: B-5351

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

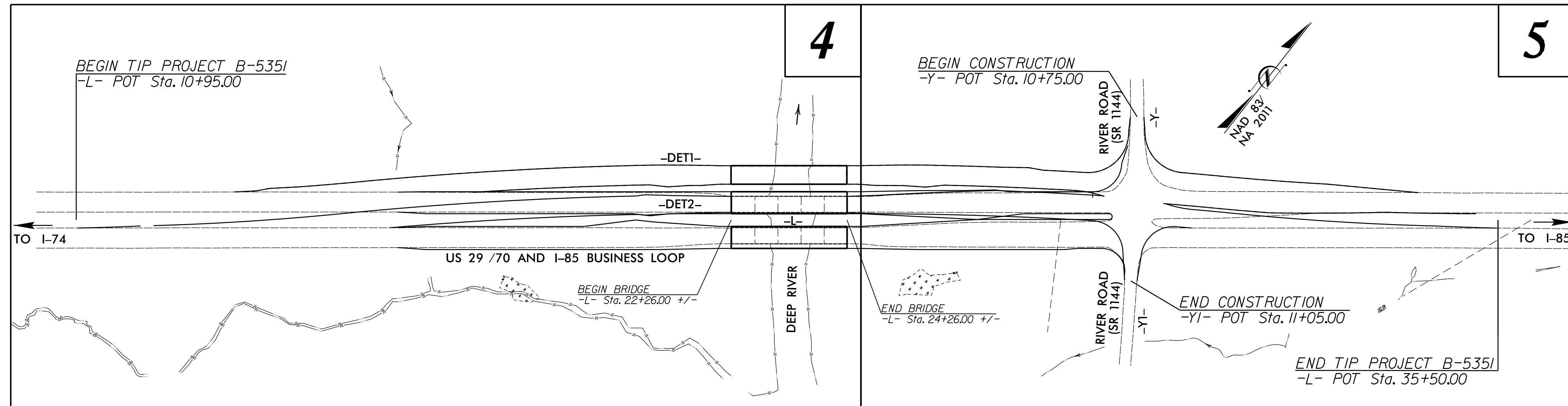
**LOCATION: REPLACE BRIDGE NO. 242 AND BRIDGE NO. 237 OVER DEEP RIVER
 IN HIGH POINT ON US 29 /70 /I-85 BUSINESS**

TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5351	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.05	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	III III III
1622.01	Temporary Berms and Slope Drains	TBD
1630.02	Silt Basin Type B	[Symbol]
1633.01	Temporary Rock Silt Check Type-A	[Symbol]
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	[Symbol]
1633.02	Temporary Rock Silt Check Type-B	[Symbol]
	Wattle / Coir Fiber Wattle	[Symbol]
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	[Symbol]
1634.01	Temporary Rock Sediment Dam Type-A	[Symbol]
1634.02	Temporary Rock Sediment Dam Type-B	[Symbol]
1635.01	Rock Pipe Inlet Sediment Trap Type-A	[Symbol]
1635.02	Rock Pipe Inlet Sediment Trap Type-B	[Symbol]
1630.04	Stilling Basin	[Symbol]
1630.06	Special Stilling Basin	[Symbol]
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	[Symbol]
	Tiered Skimmer Basin	[Symbol]
	Infiltration Basin	[Symbol]

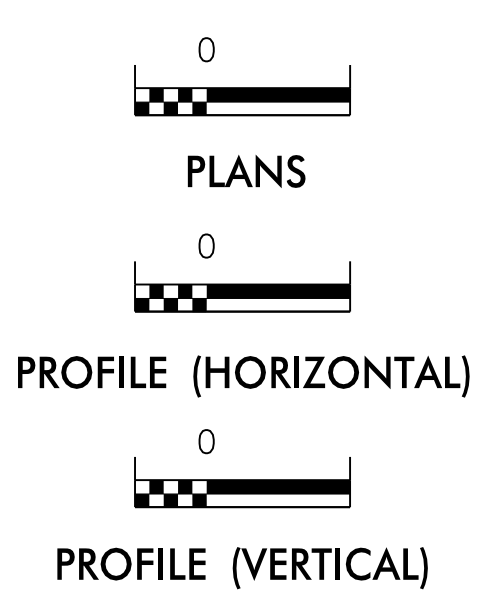


**THIS PROJECT CONTAINS
 EROSION CONTROL PLANS
 FOR CLEARING AND
 GRUBBING PHASE OF
 CONSTRUCTION.**

**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.

GRAPHIC SCALE



ROADSIDE ENVIRONMENTAL UNIT
 DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

**THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY
 WITH THE REGULATIONS SET FORTH BY THE
 NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 1, 2016
 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF
 ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.**

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

2018 STANDARD SPECIFICATIONS

Designed by:
Noelle Ring **3456**
 NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

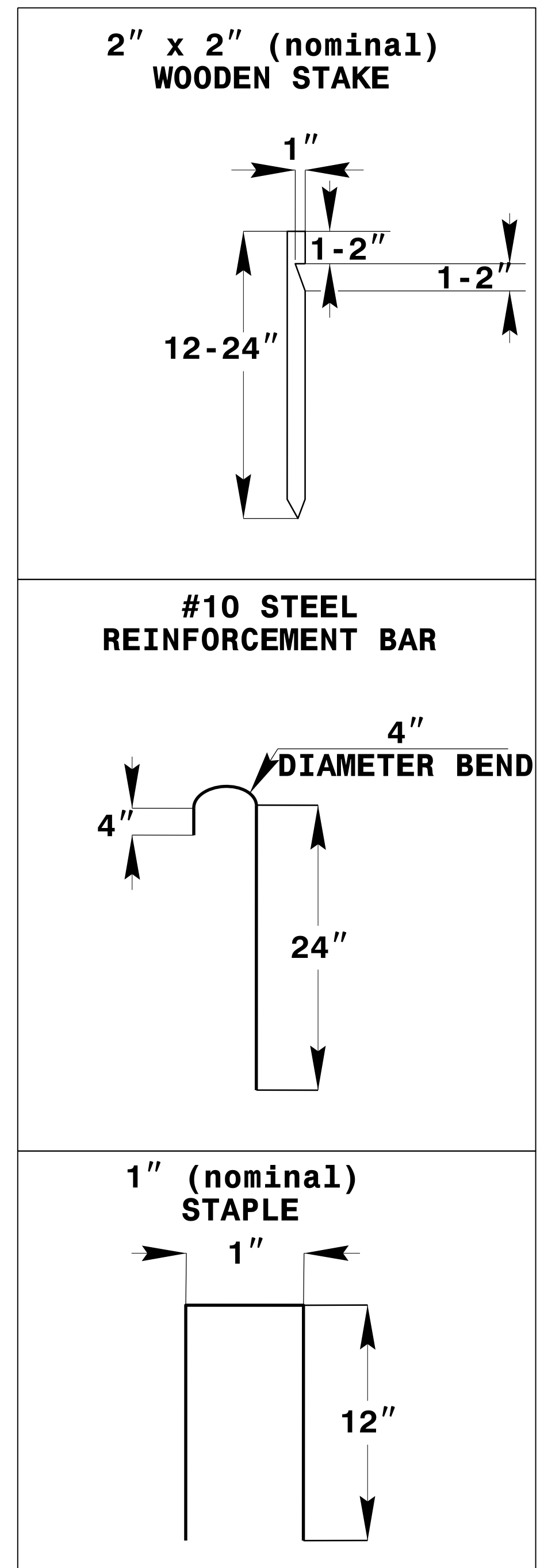
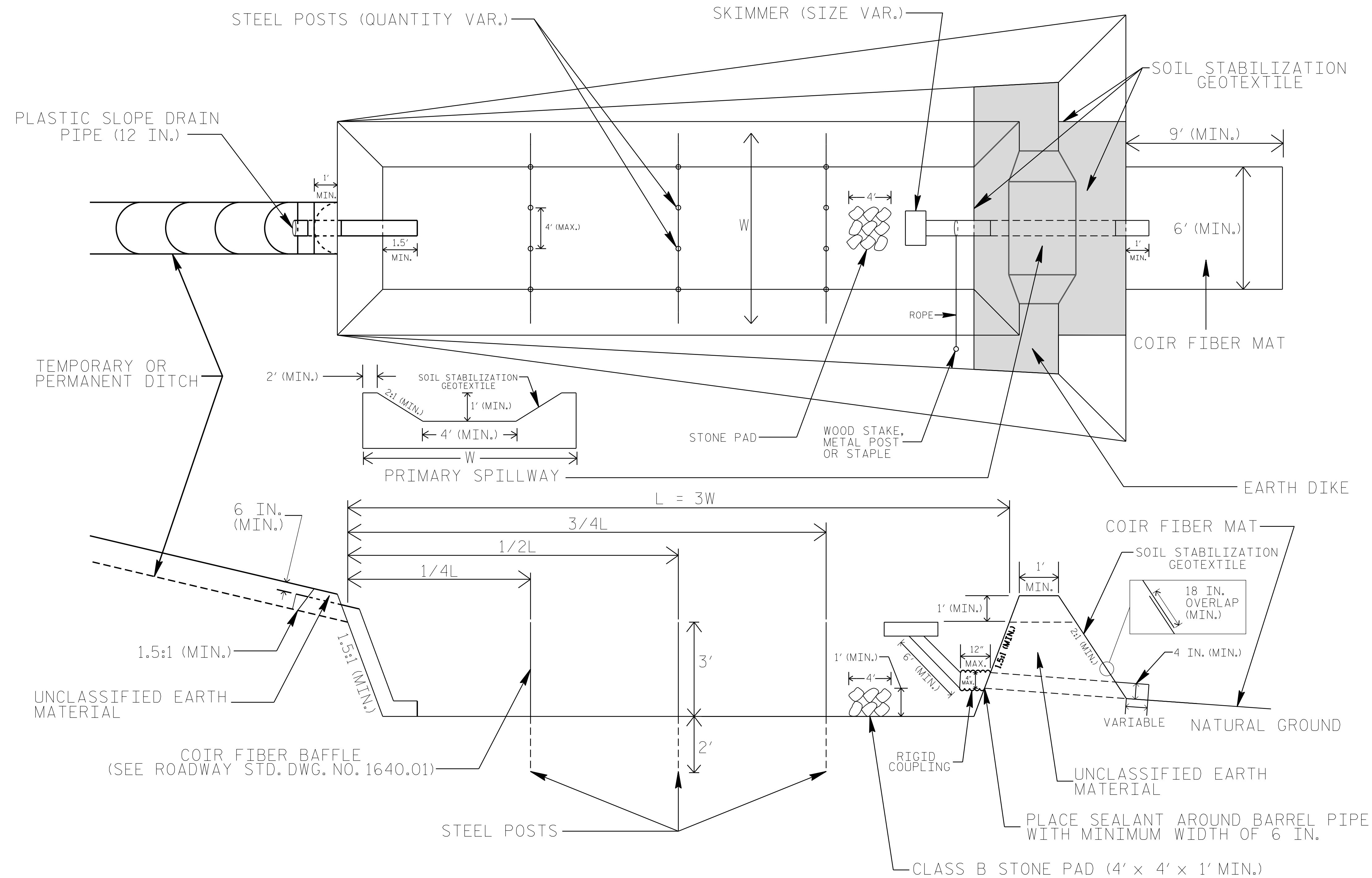
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type J
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type J
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type J	1634.02 Temporary Rock Sediment Dam Type J
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type J
1630.05 Temporary Diversion	1640.01 Coir Fiber Wattle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

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PROJECT REFERENCE NO. B-5351	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SKIMMER BASIN WITH BAFFLES DETAIL



COIR FIBER MAT ANCHOR OPTIONS

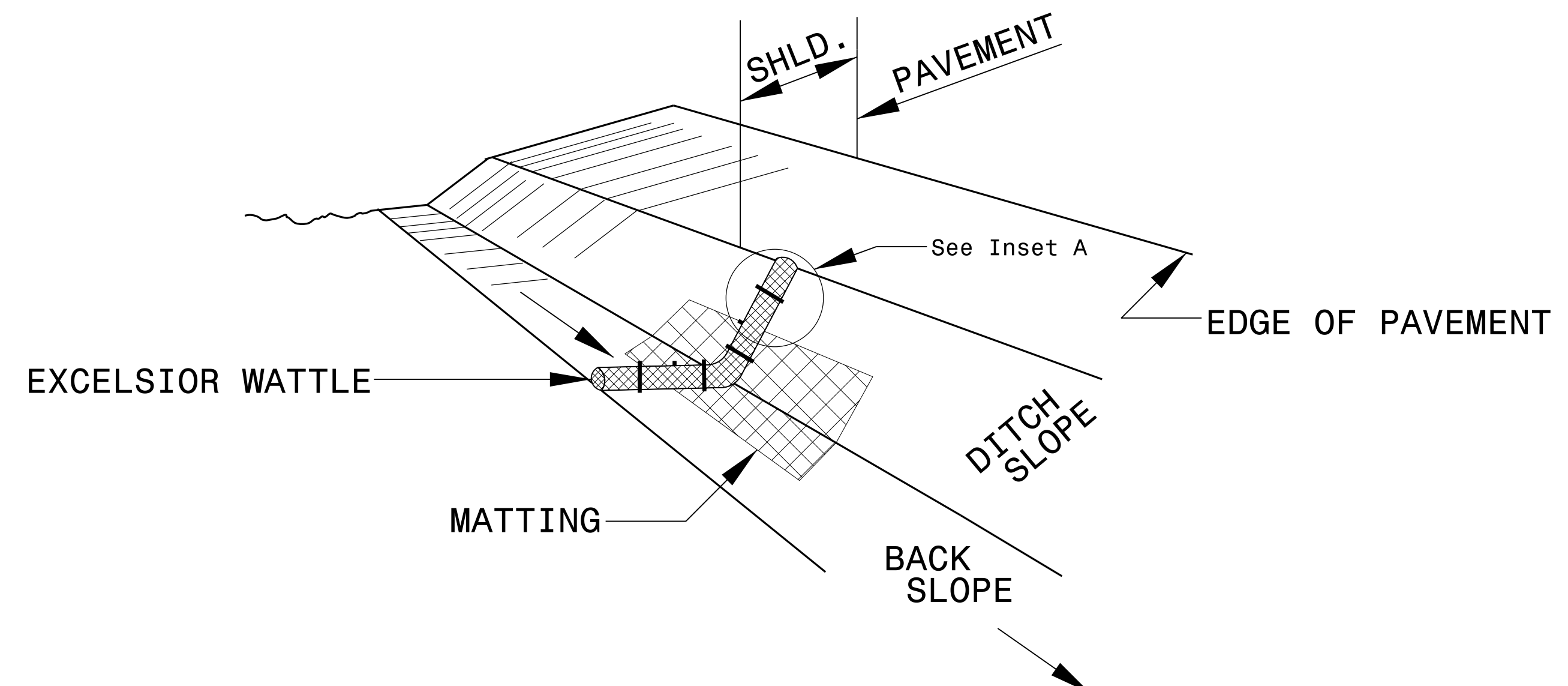
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE PRIMARY SPILLWAY WEIR LENGTH (FT.) USING $Q/0.8$, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE OR TARP AS DIRECTED.
6. SOIL STABILIZATION GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

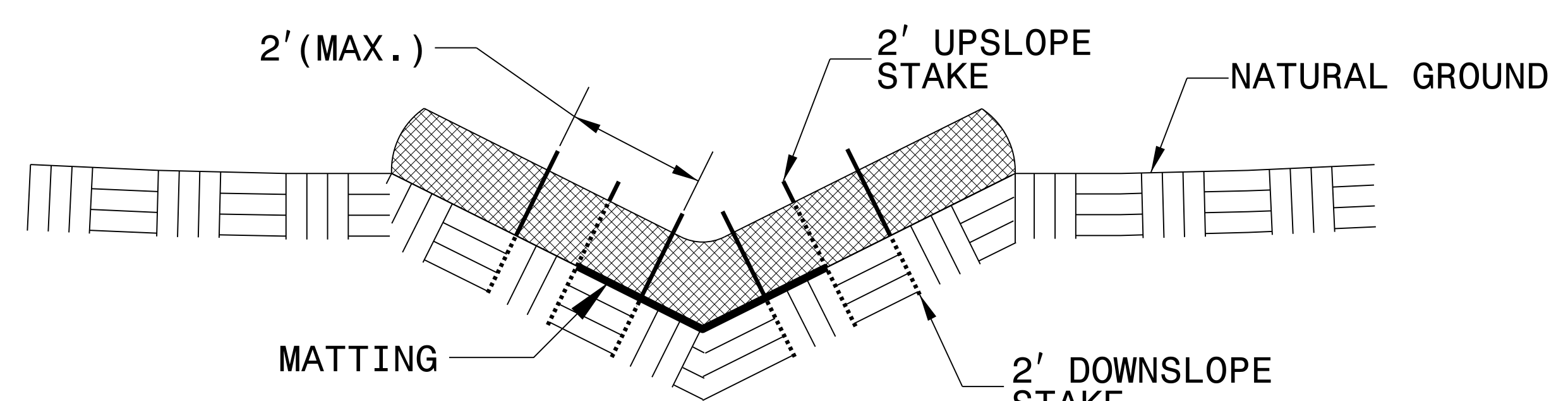
NOT TO SCALE

PROJECT REFERENCE NO. <i>B-5351</i>	SHEET NO. <i>EC-2A</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

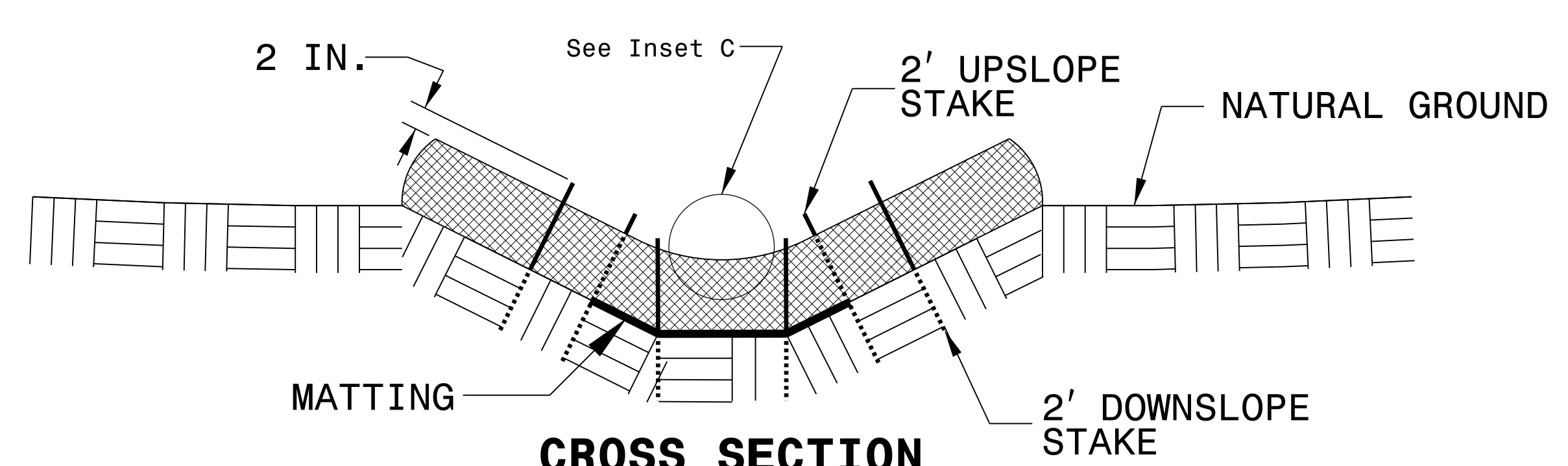
WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW

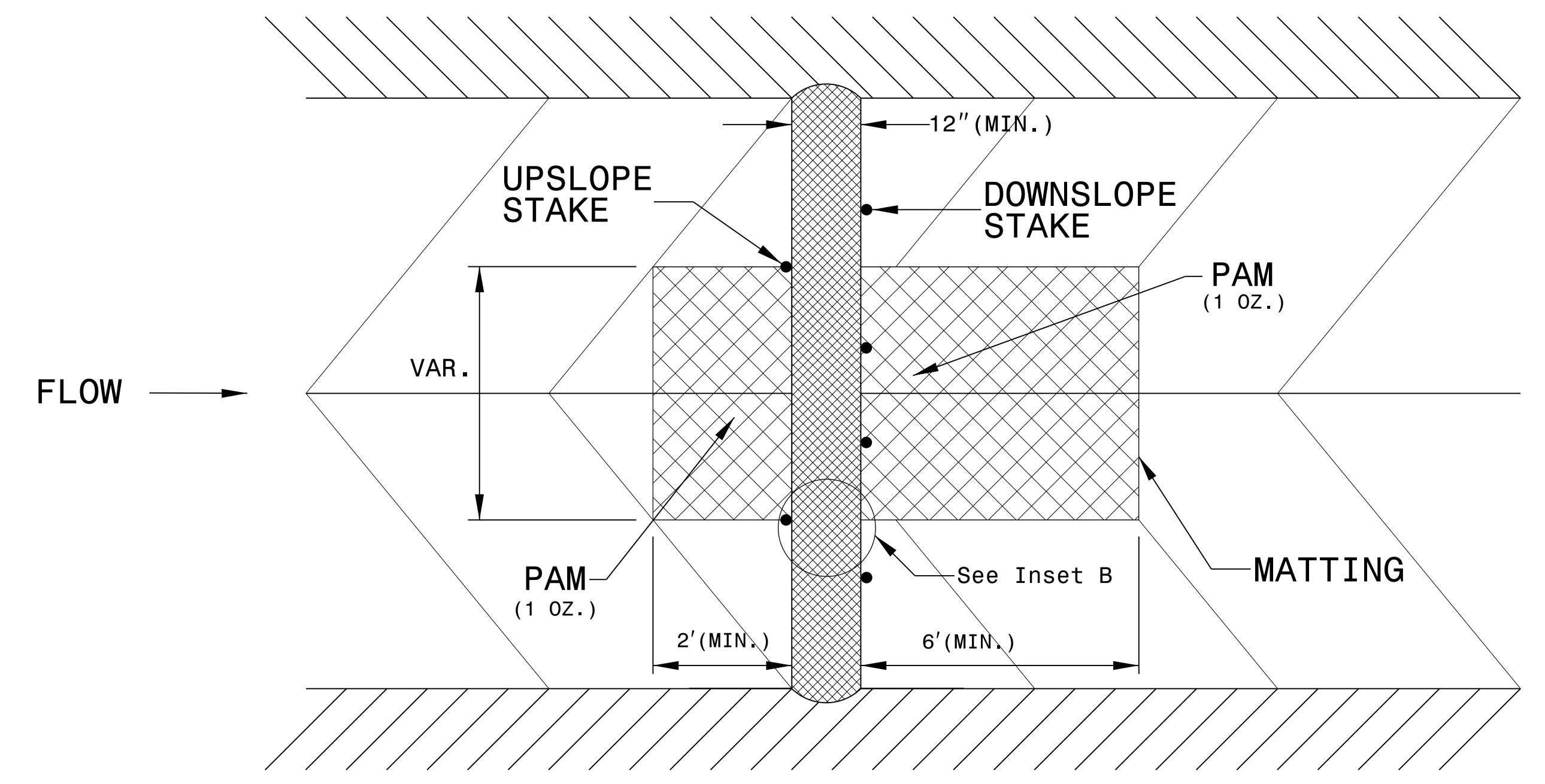
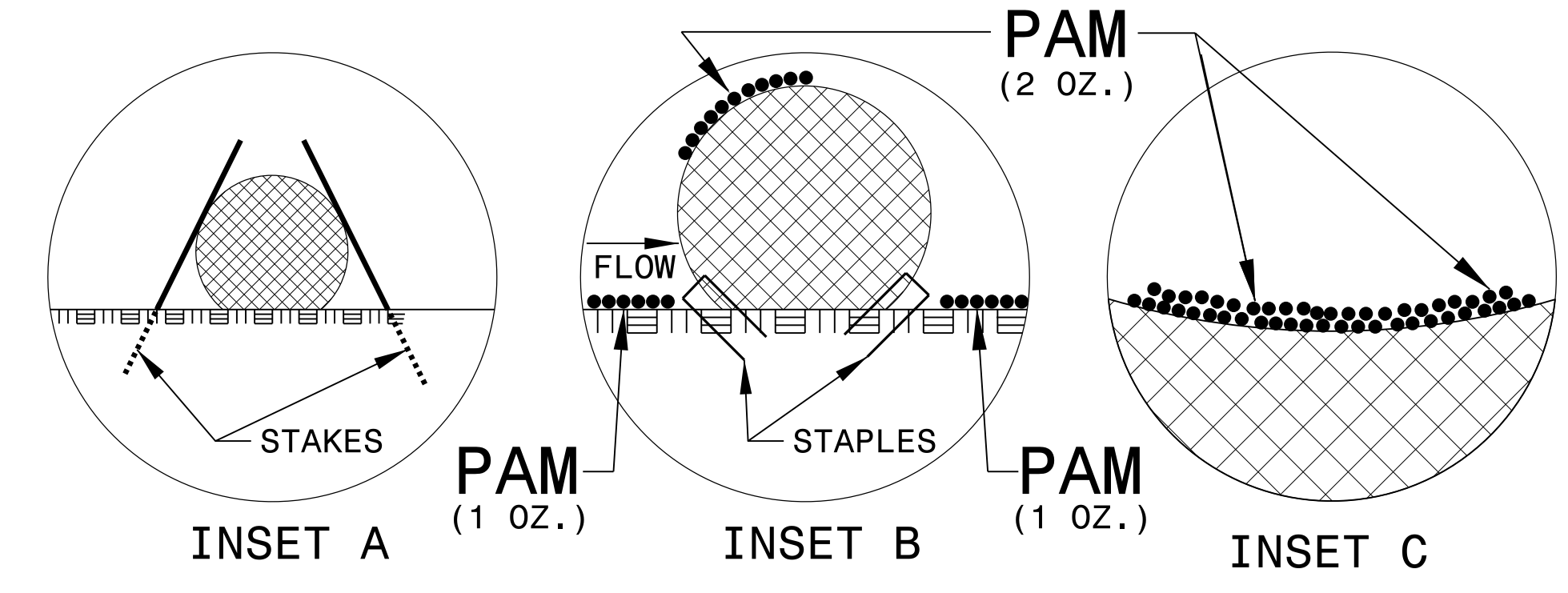


CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

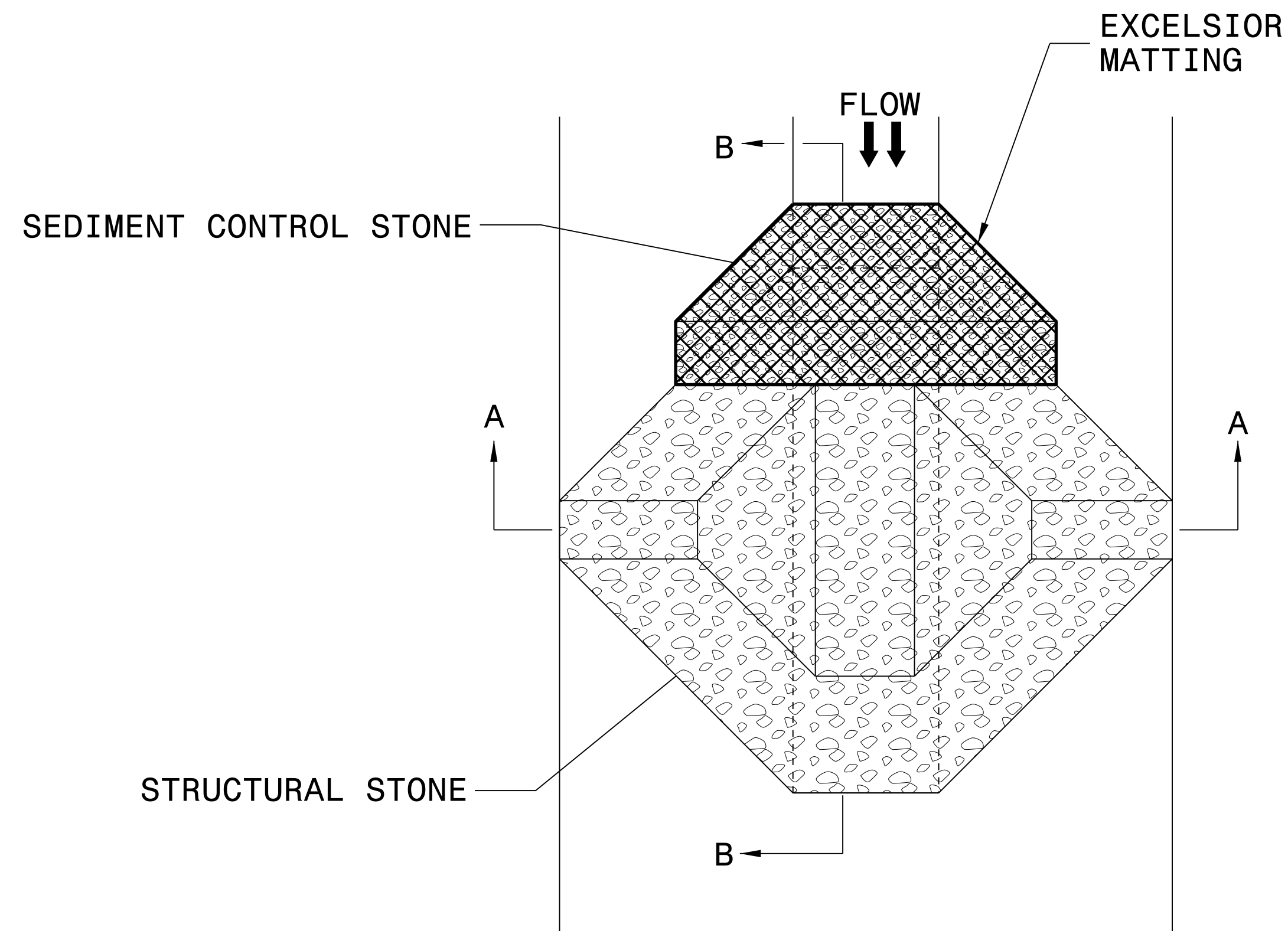
- NOTES:
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
 - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
 - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
 - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
 - PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
 - INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
 - INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
 - PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
 - INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



TOP VIEW

PROJECT REFERENCE NO. B-5351	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



PLAN

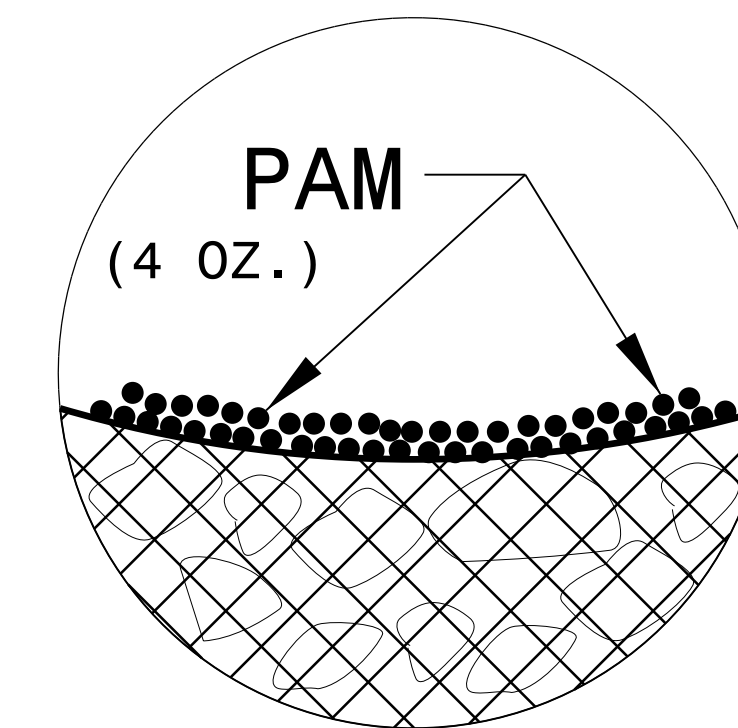
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

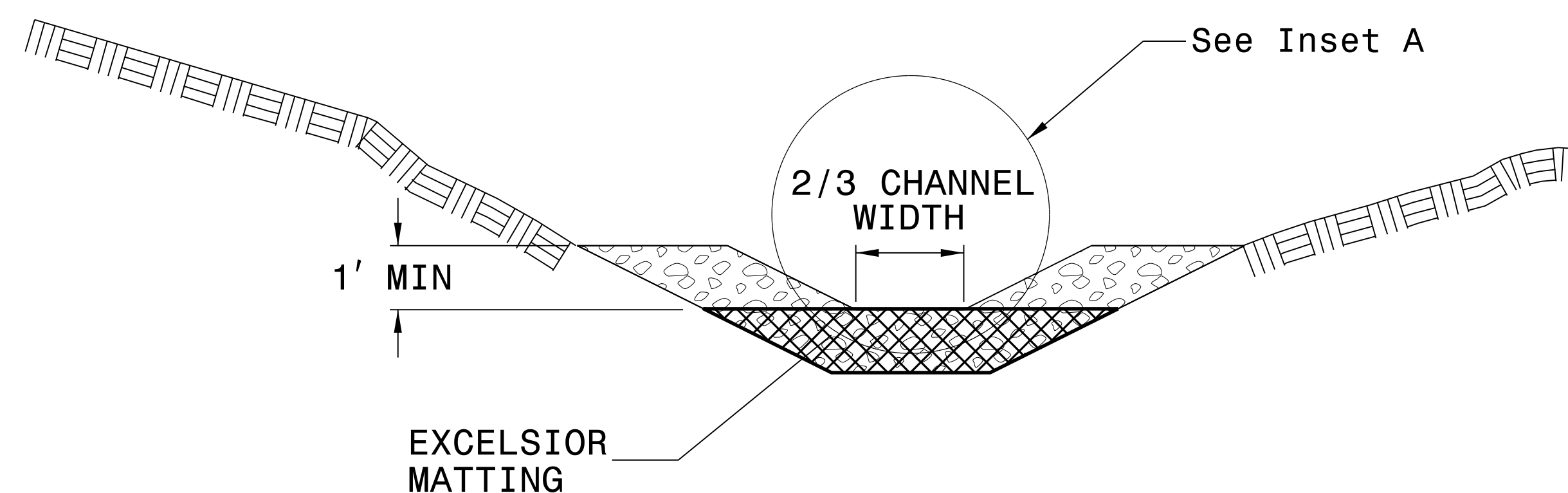
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

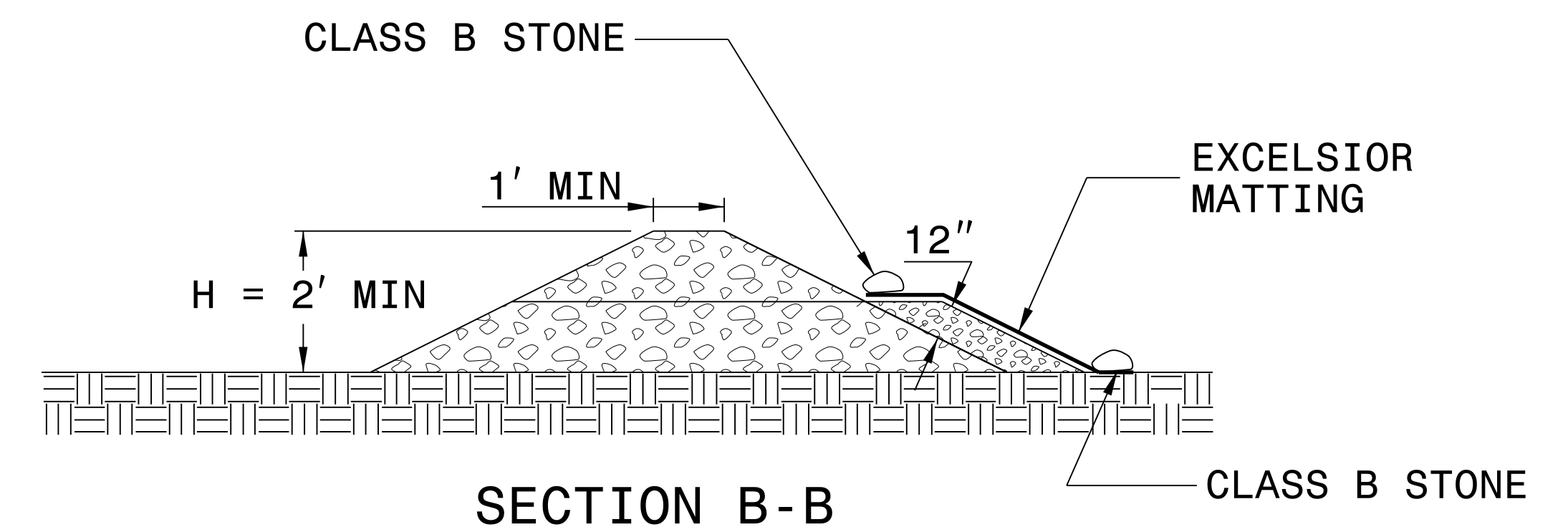
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



SECTION B-B

NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>B-5351</i>	SHEET NO. <i>EC-3</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 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

PROJECT REFERENCE NO. B-5351	SHEET NO. EC-4/CONST. 2B-1
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

DETAIL OF TEMPORARY DETOUR

-DET1-

 ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

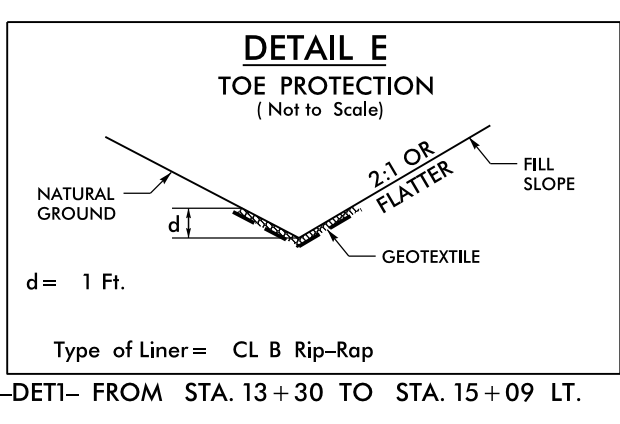
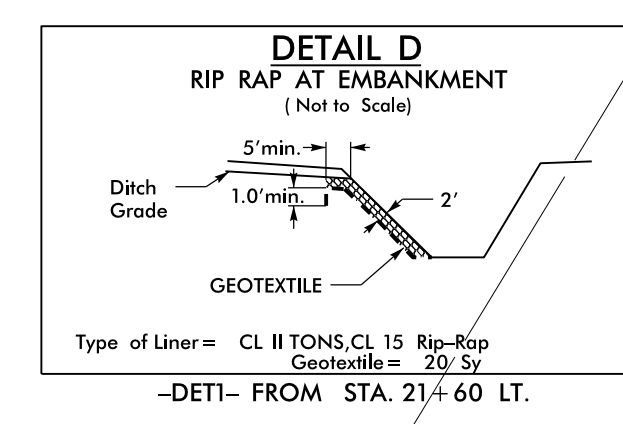
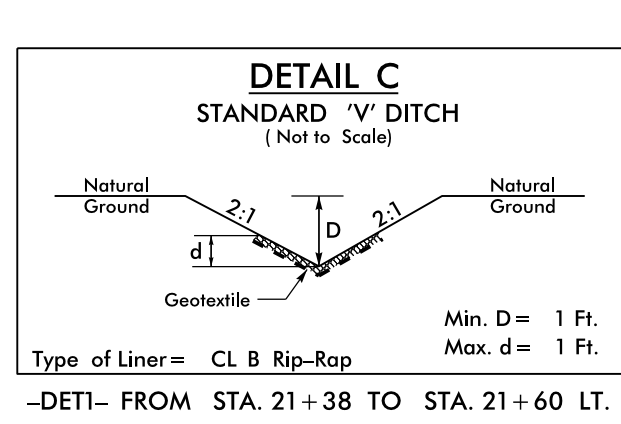
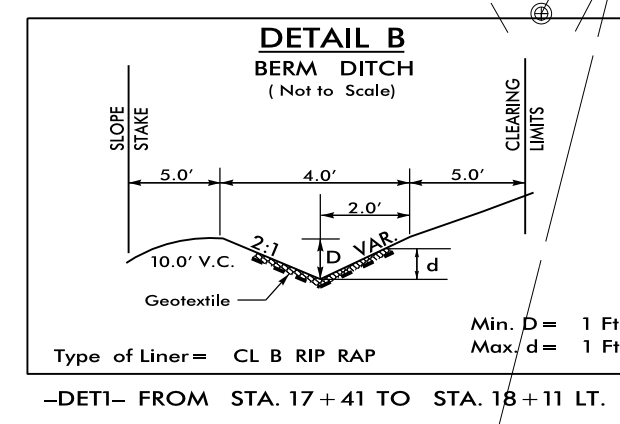
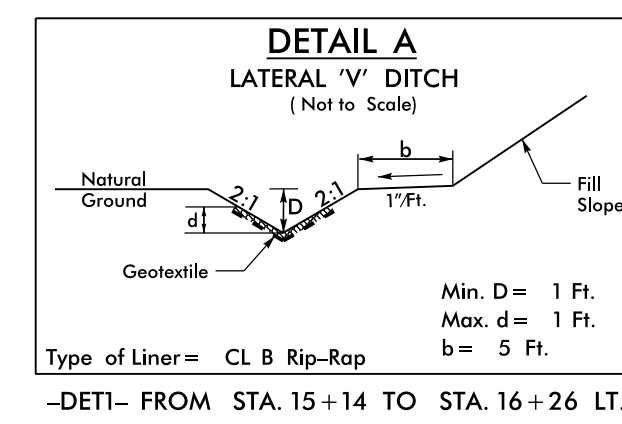
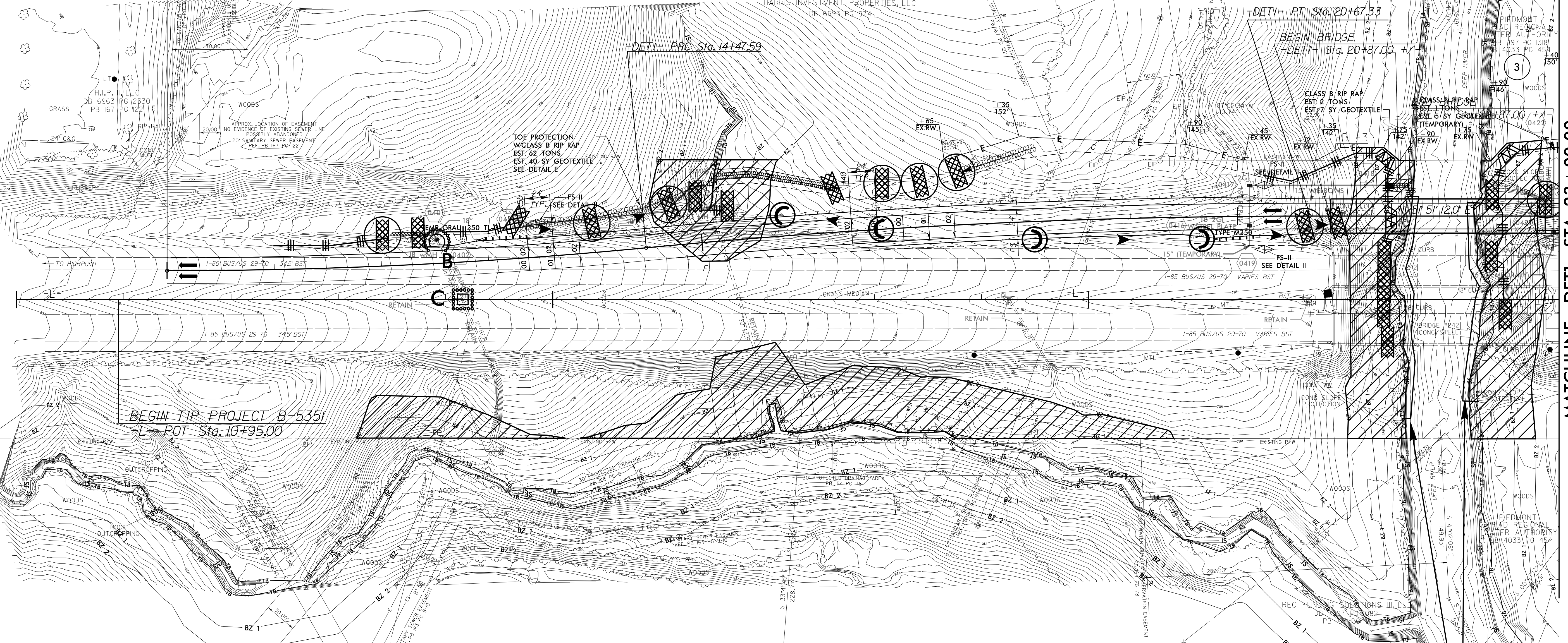
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 2B-1

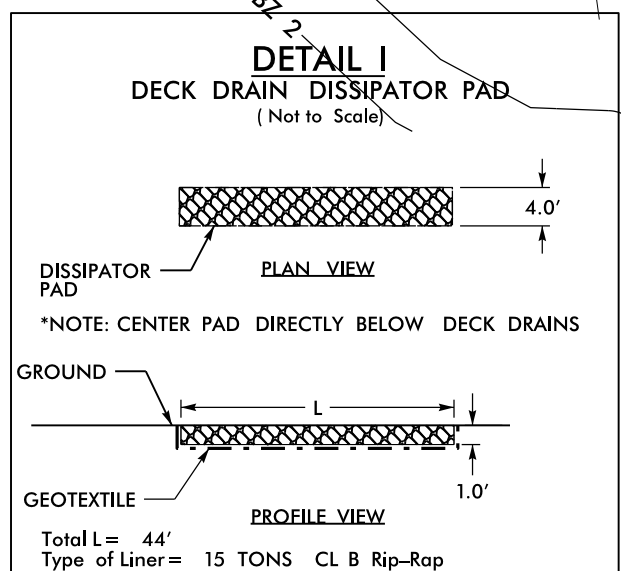
BEGIN DETOUR B-5351
-DET1- PC Sta. 10+00.00
-L- POT Sta. 11+40.30
OFFSET 27.00' LT



DETAIL II
FALSE SUMP
(Not to Scale)

Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

-DET1- STA. 13+45 LT.
-DET1- STA. 20+25 RT.
-DET1- STA. 20+25 LT.



MATCHLINE -DET1- STA. 23+00.00

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26 JAN 2018 11:34
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PROJECT REFERENCE NO.		SHEET NO.	
B-5351		EC-5/CONST.2B-2	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER			

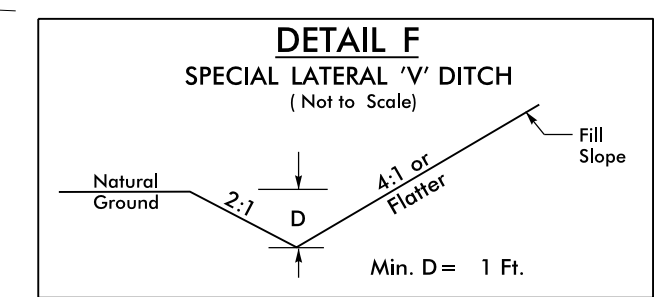
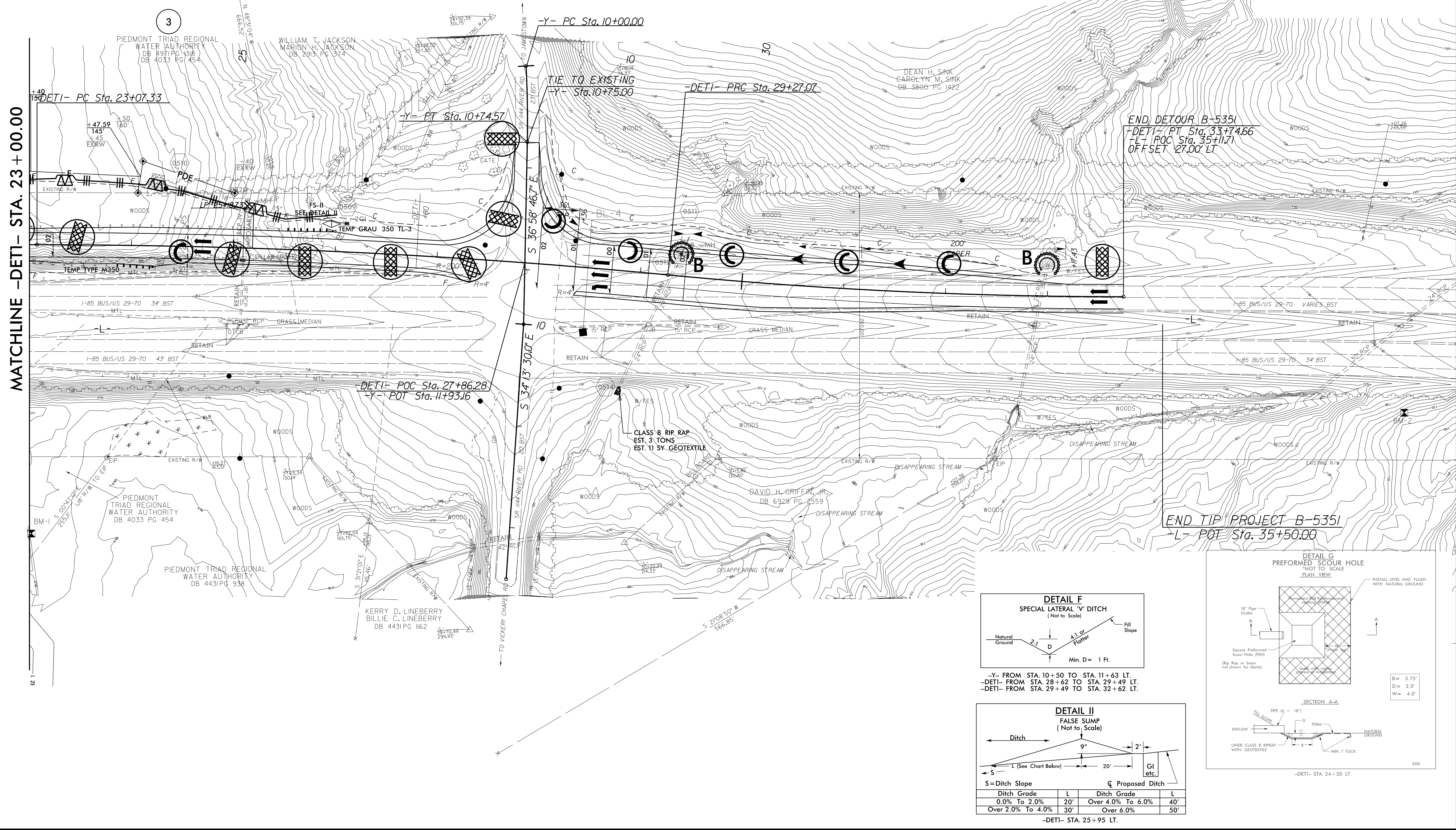
DETAIL OF TEMPORARY DETOUR

-DET1-

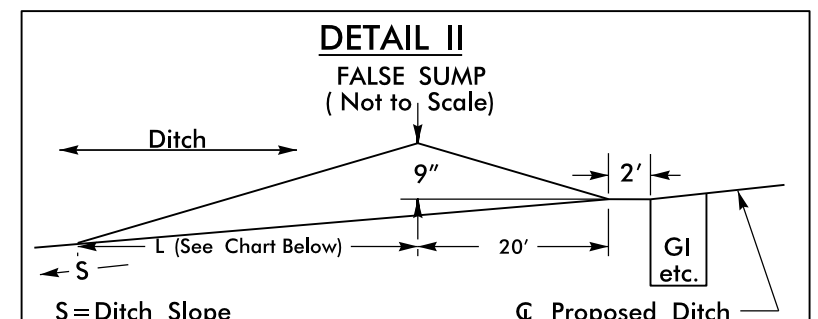
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 2B-2

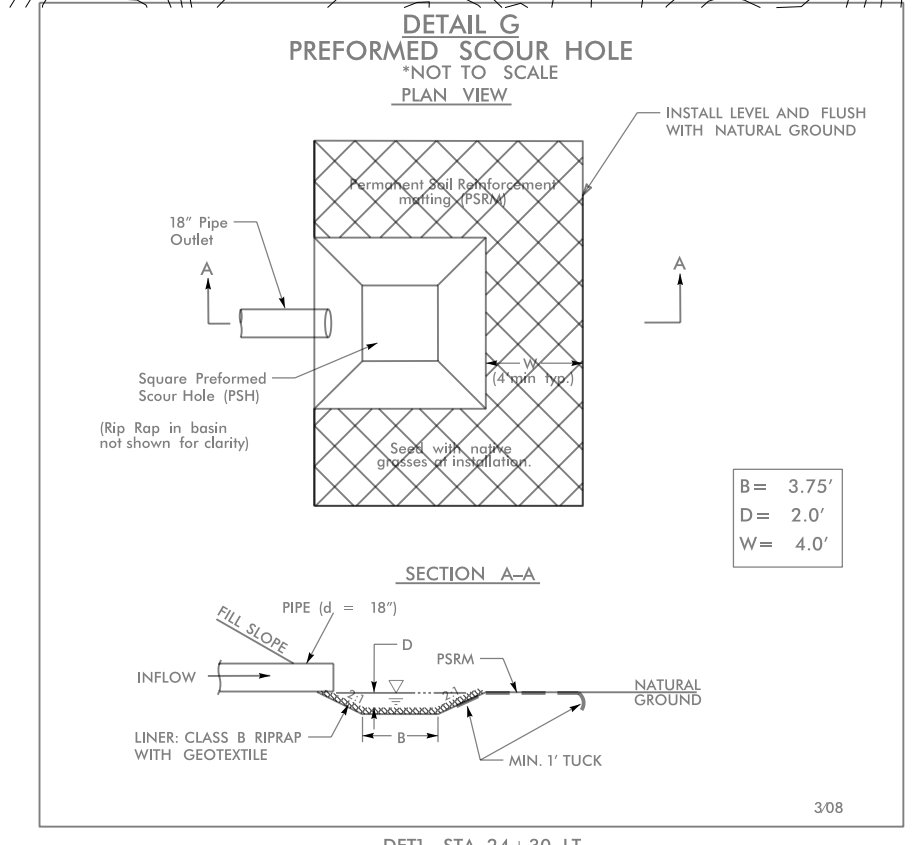


-Y- FROM STA. 10+50 TO STA. 11+63 LT.
-DET1- FROM STA. 28+62 TO STA. 29+49 LT.
-DET1- FROM STA. 29+49 TO STA. 32+62 LT.



Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

-DET1- STA. 25+95 LT.



-DET1- STA. 24+30 LT.

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DETAIL OF TEMPORARY DETOUR

-DET2-

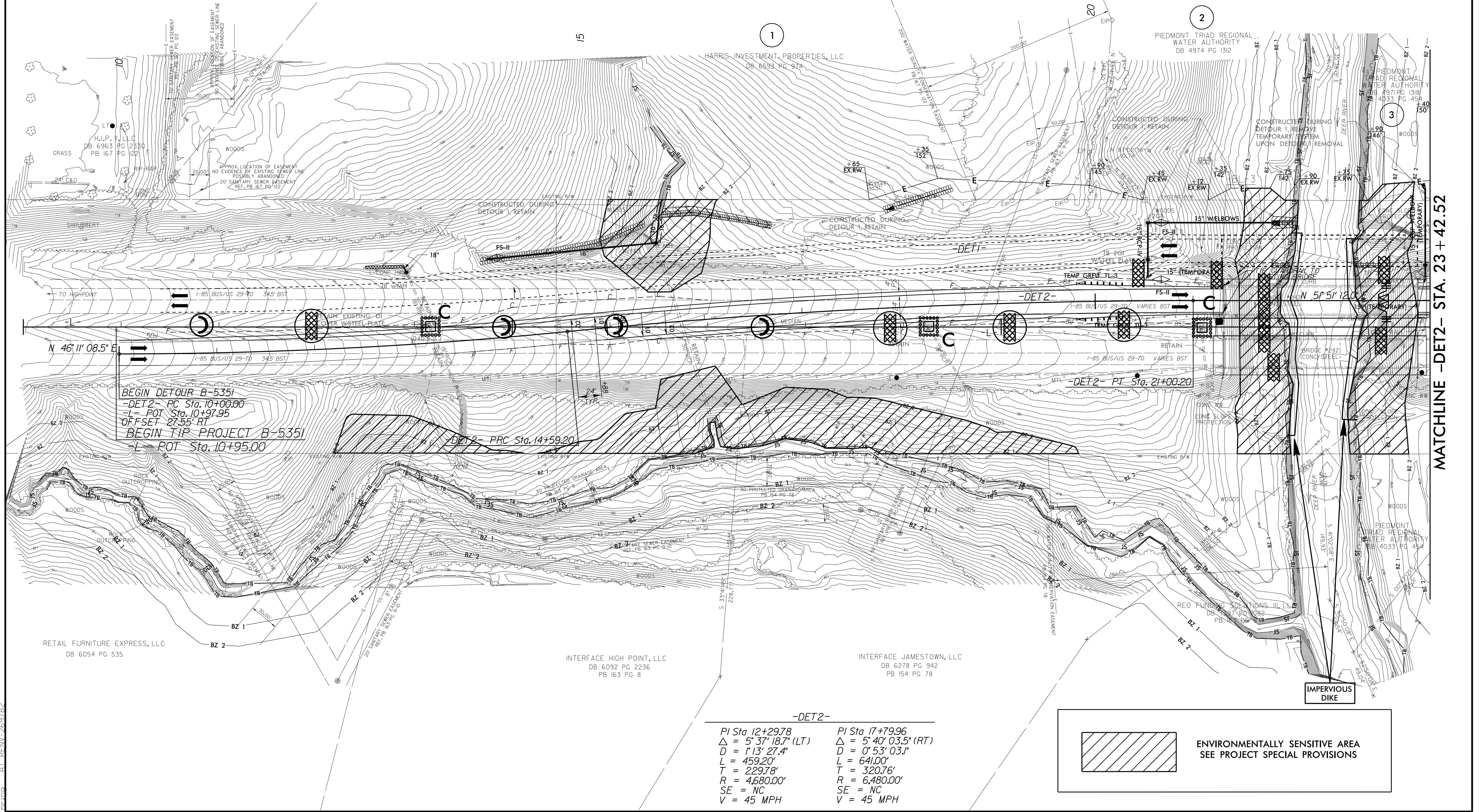
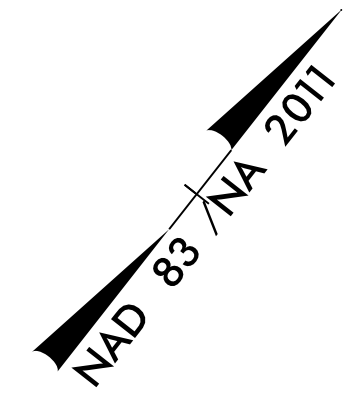
PROJECT REFERENCE NO. B-5351	SHEET NO. EC-6/CONST.2B-3
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

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

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 2B-3



-DET2-
 PI Sta 12+29.78 PI Sta 17+79.96
 $\Delta = 5^{\circ} 37' 18.7''$ (LT) $\Delta = 5^{\circ} 40' 03.5''$ (RT)
 $D = 113' 27.4''$ $D = 0' 53' 03.1''$
 $L = 459.20'$ $L = 641.00'$
 $T = 229.78'$ $T = 320.76'$
 $R = 4680.00'$ $R = 6480.00'$
 $SE = NC$ $SE = NC$
 $V = 45$ MPH $V = 45$ MPH

 ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

8/17/99

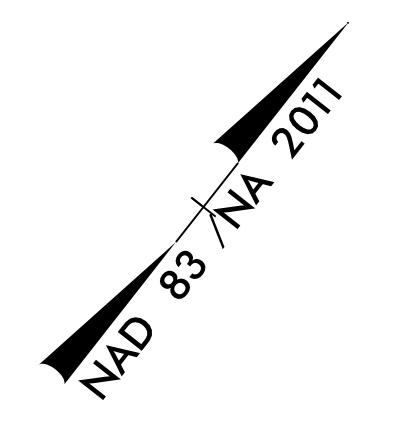
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MATCHLINE -DET2- STA. 23 + 42.52

DETAIL OF TEMPORARY DETOUR

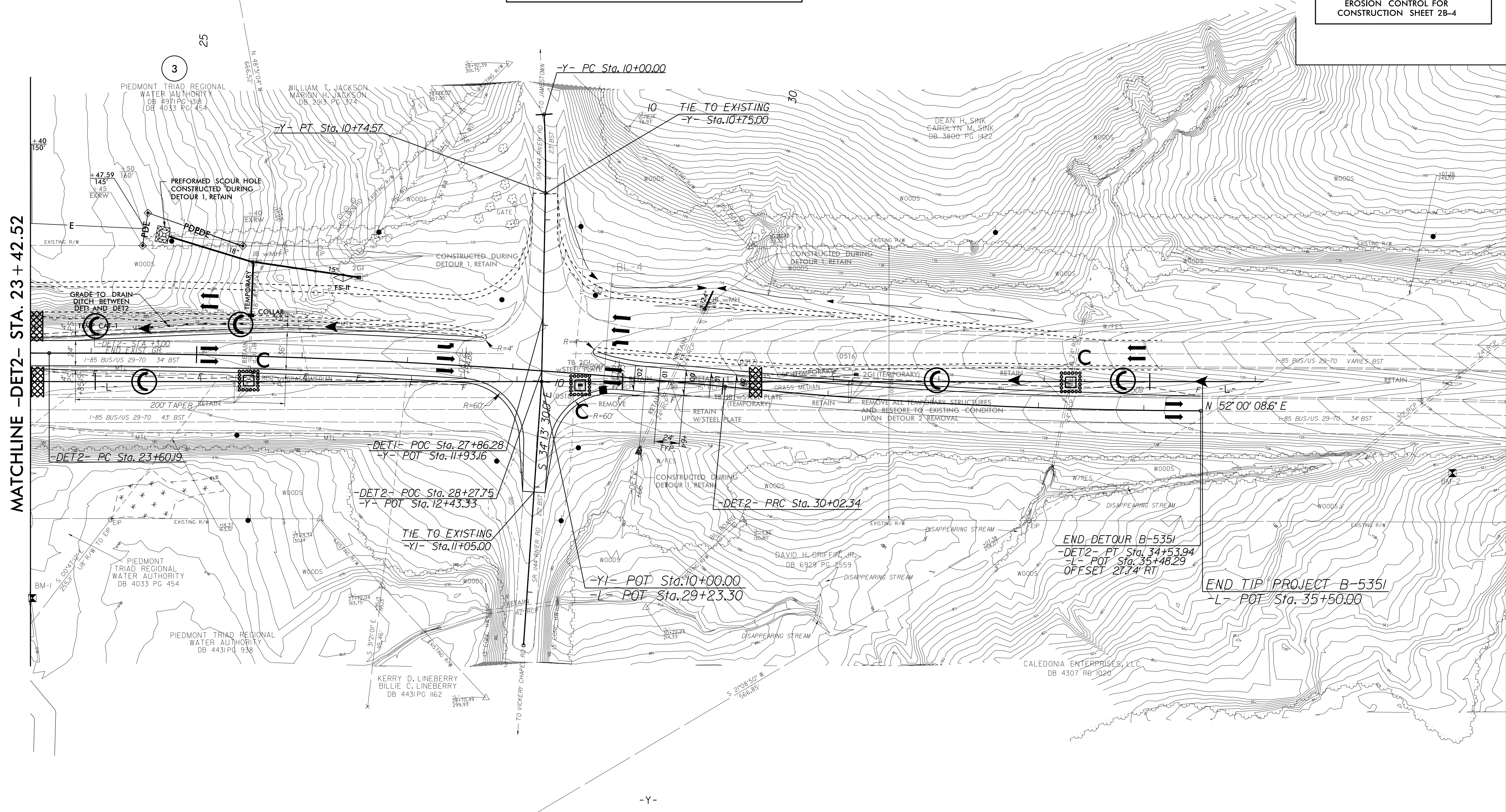
-DET2-

PROJECT REFERENCE NO. B-5351	SHEET NO. EC-7/CONST.2B-4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 2B-4



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

8/17/99

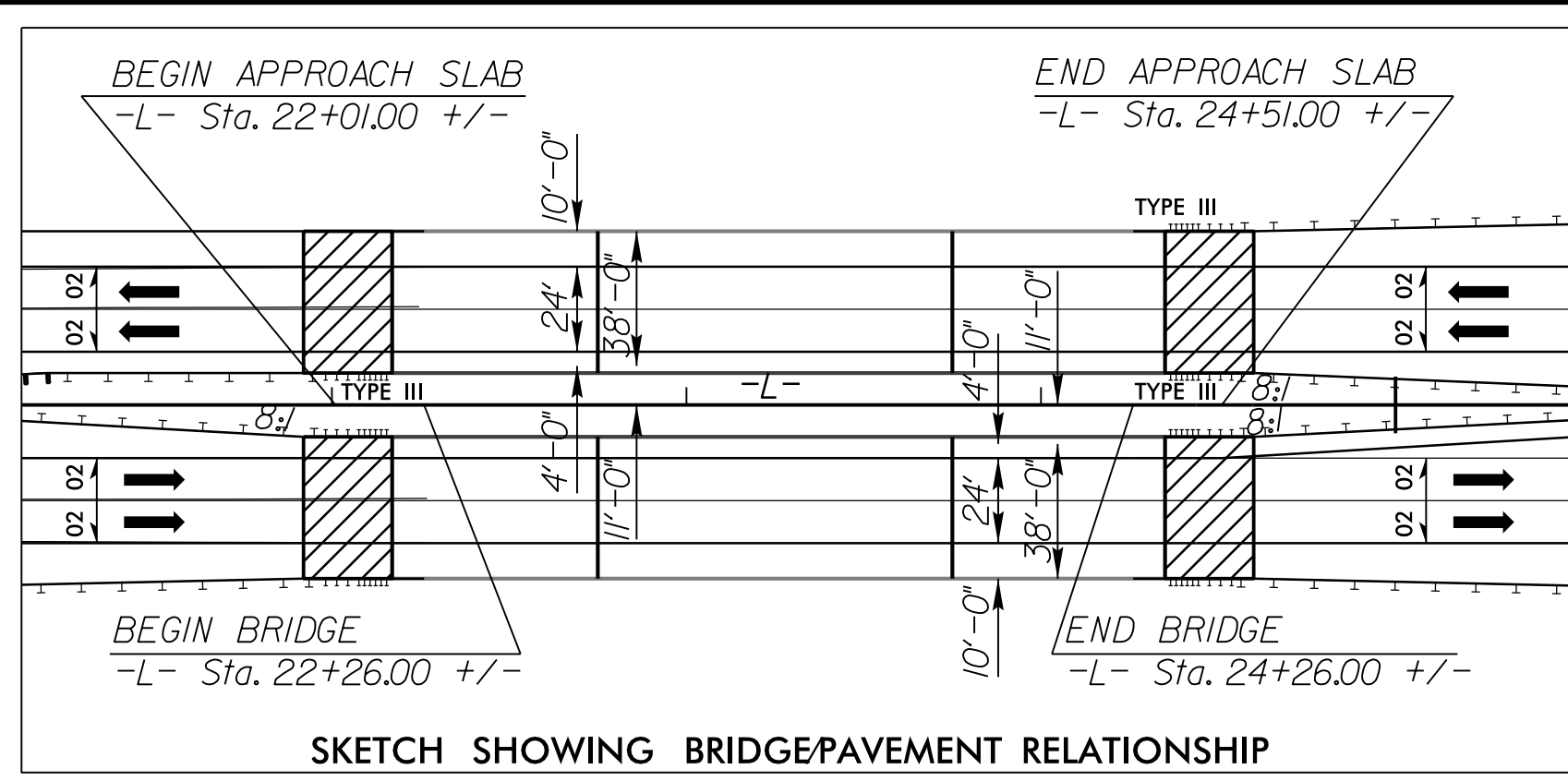
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 ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

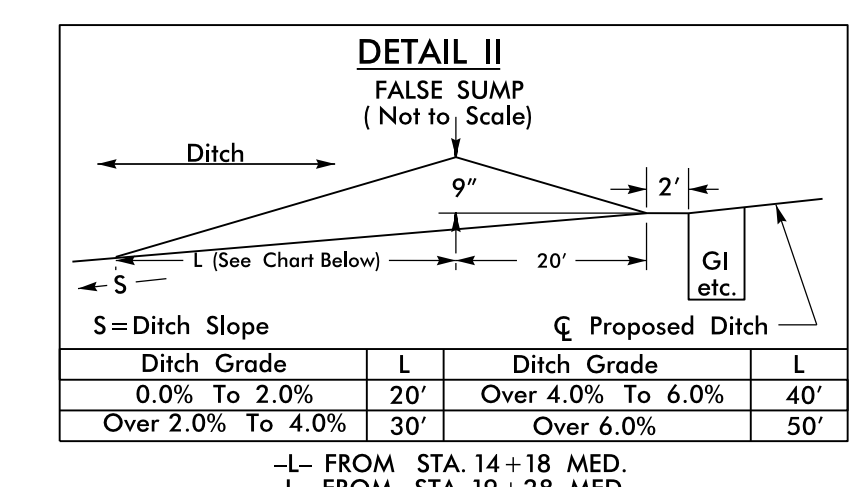
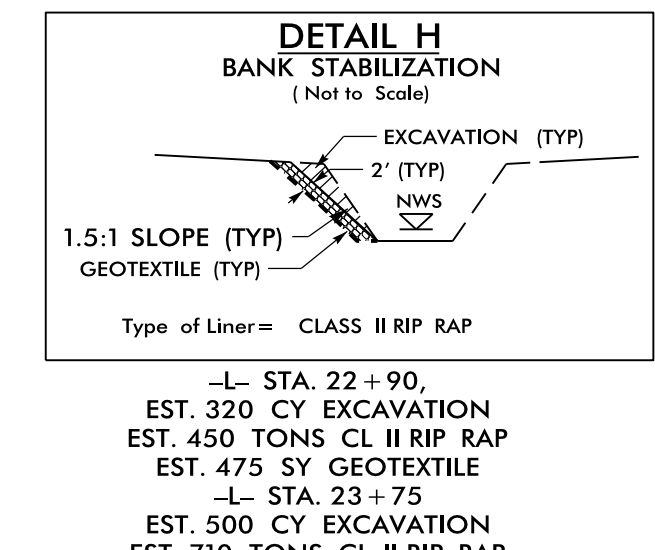
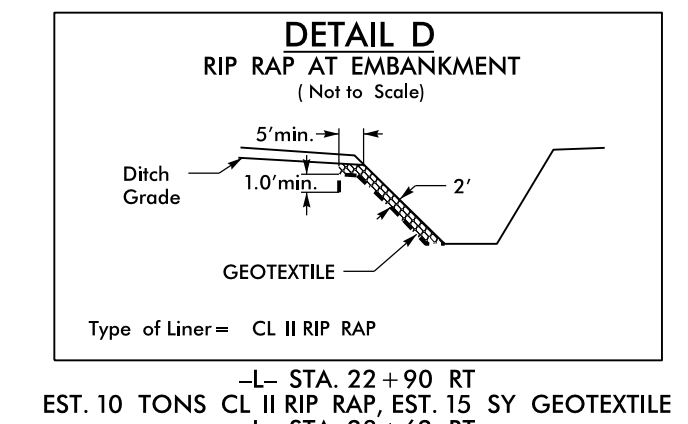
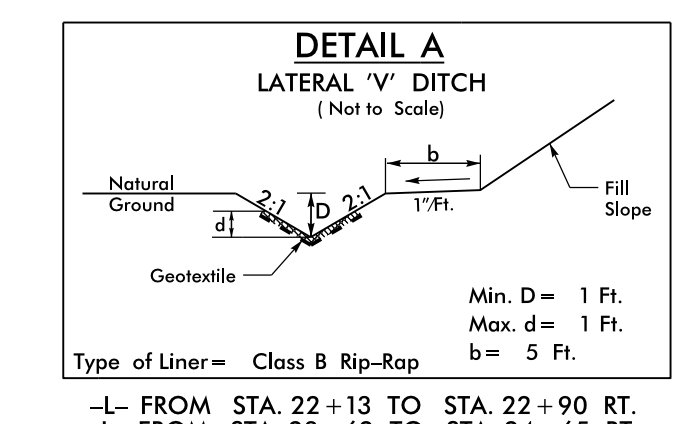
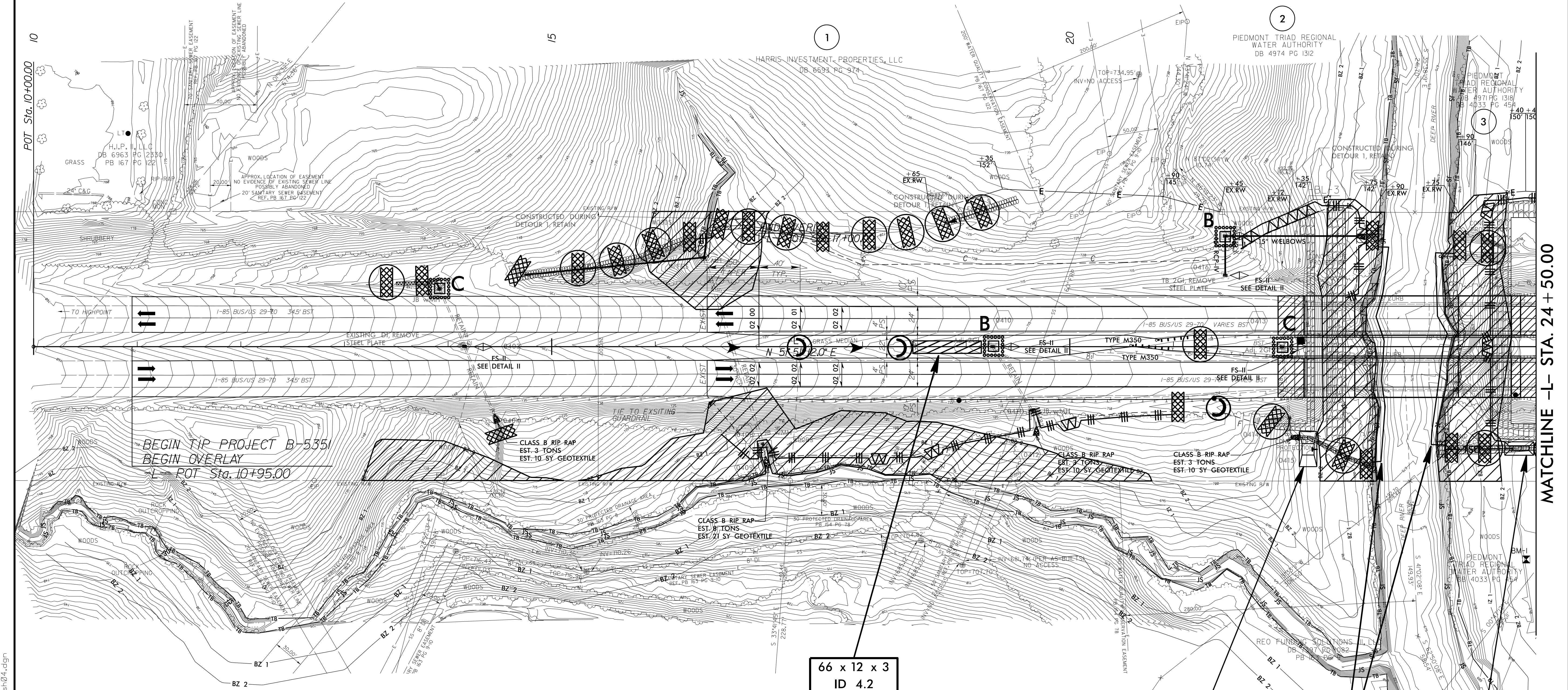
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4



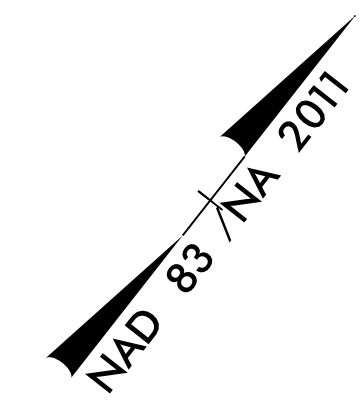
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PROJECT REFERENCE NO.	SHEET NO.
B-5351	EC-9/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

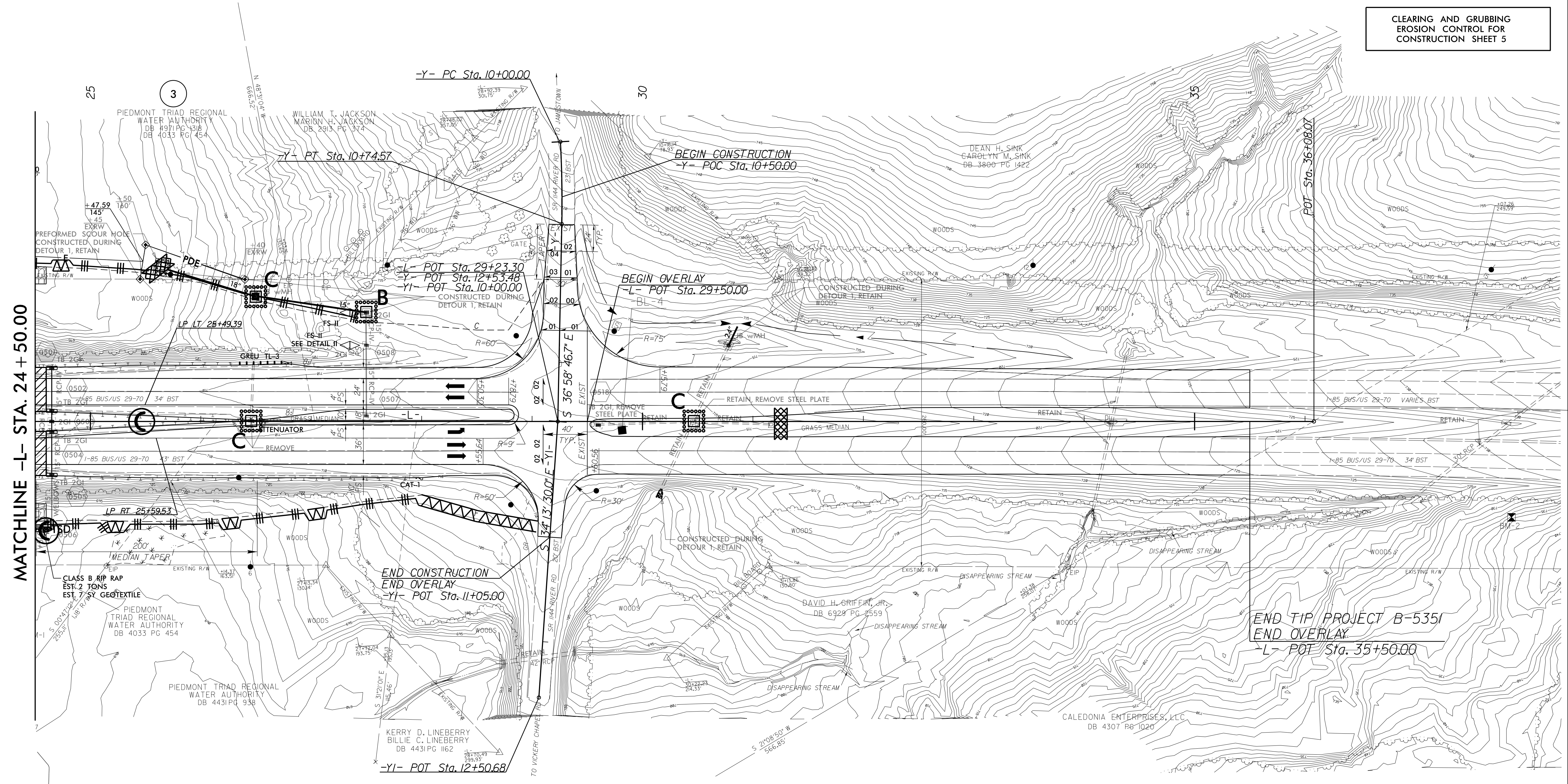
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC

-Y-
 $PI\ Sta\ 10+37.30$
 $\Delta = 4' 16'' 22.0'' (RT)$
 $D = 5' 43' 46.5''$
 $L = 74.57'$
 $T = 37.30'$
 $R = 1,000.00'$



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5



MATCHLINE -L- STA. 24+50.00

END TIP PROJECT B-5351
END OVERLAY
-L- POT Sta. 35+50.00

8/17/99

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PROJECT AT REV 263782

DETAIL OF TEMPORARY DETOUR

-DET1-

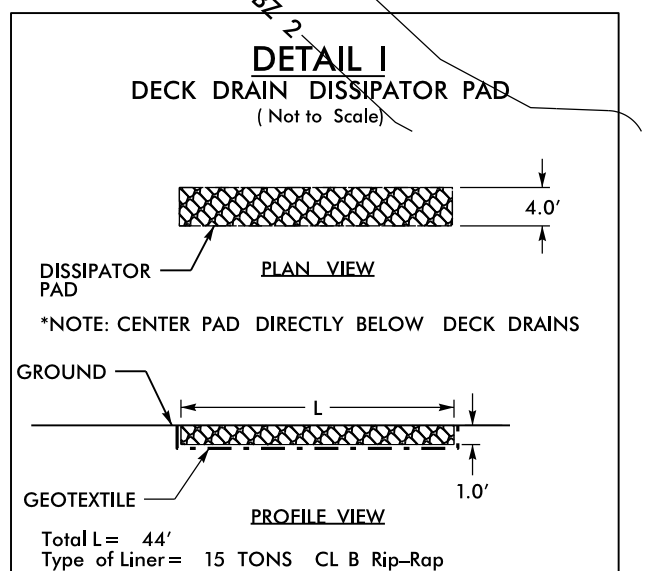
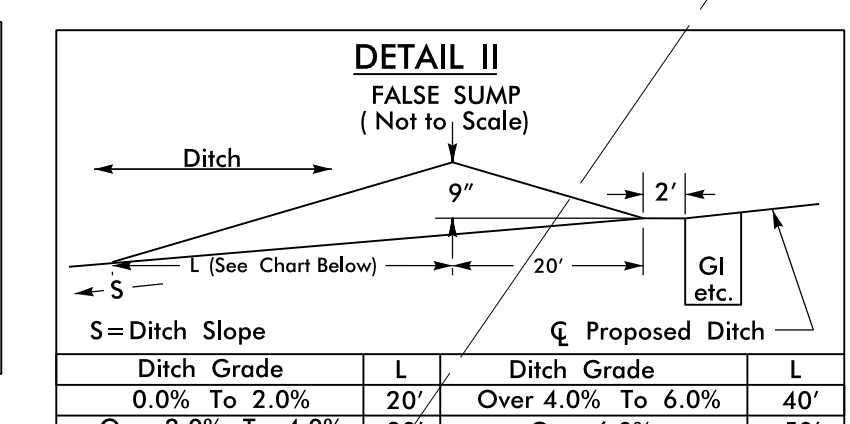
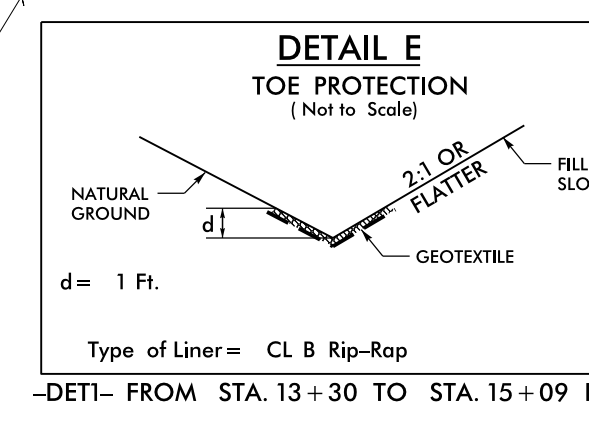
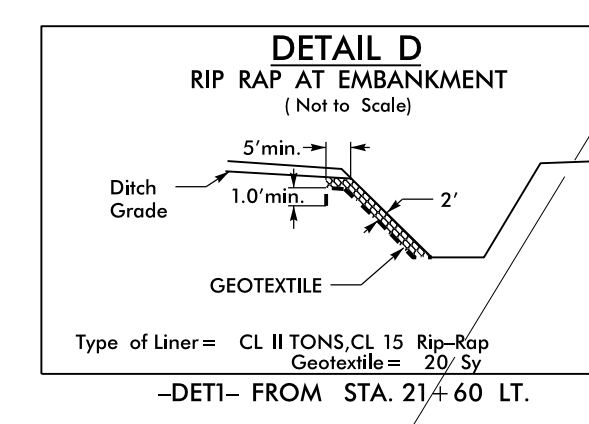
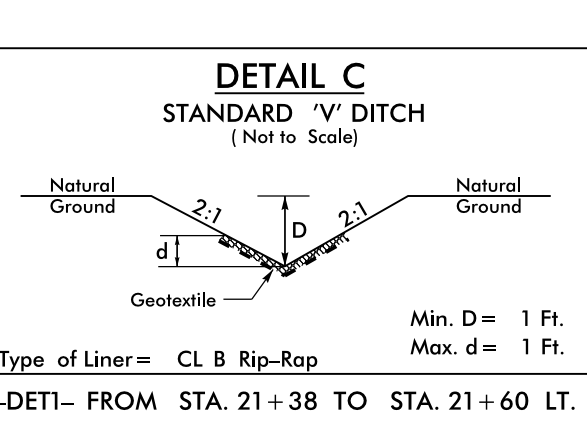
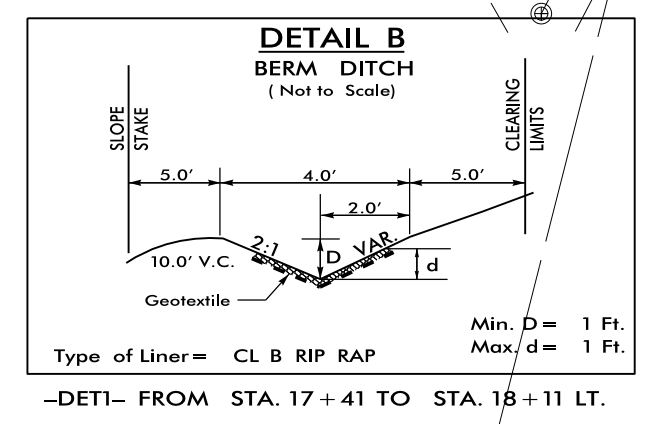
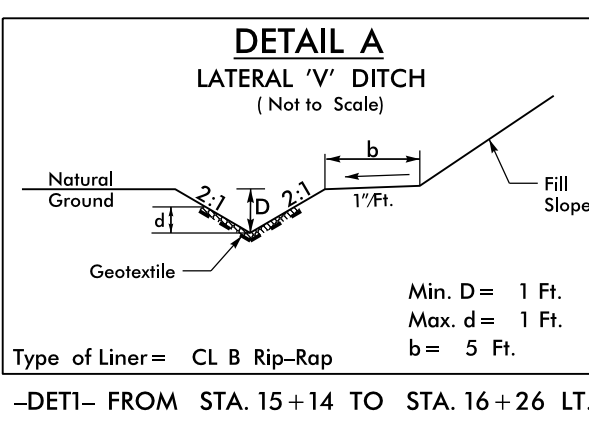
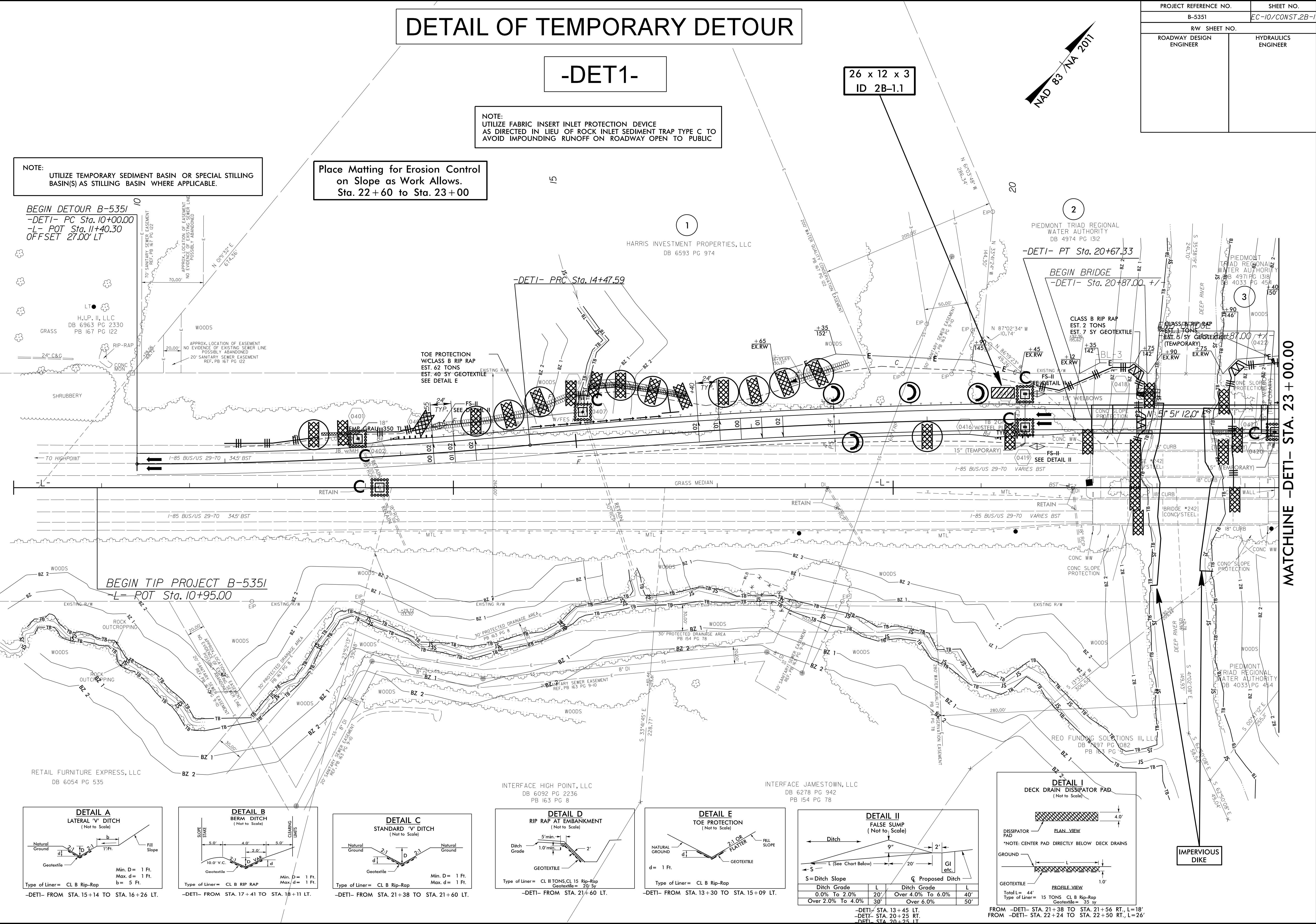
26 x 12 x 3
ID 2B-1.1

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE
AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO
AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING
BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 22+60 to Sta. 23+00

BEGIN DETOUR B-5351
-DET1- PC Sta. 10+00.00
-L- POT Sta. 11+40.30
OFFSET 27.00' LT



8/17/99
26 JAN 2018 11:22 AM Desktop\B5351_EC-det.2B-01.dgn
C:\Users\jgibson\OneDrive\Documents\B5351_EC-det.2B-01.dgn

MATCHLINE -DET1- STA. 23+00.00

PROJECT REFERENCE NO. B-5351	SHEET NO. EC-10/CONST.2B-1
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

PROJECT REFERENCE NO.	SHEET NO.
B-5351	EC-II/CONST. 2B-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

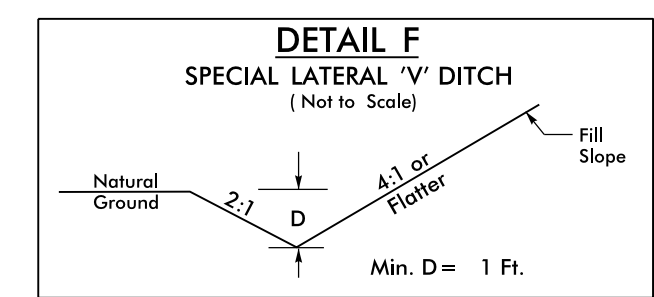
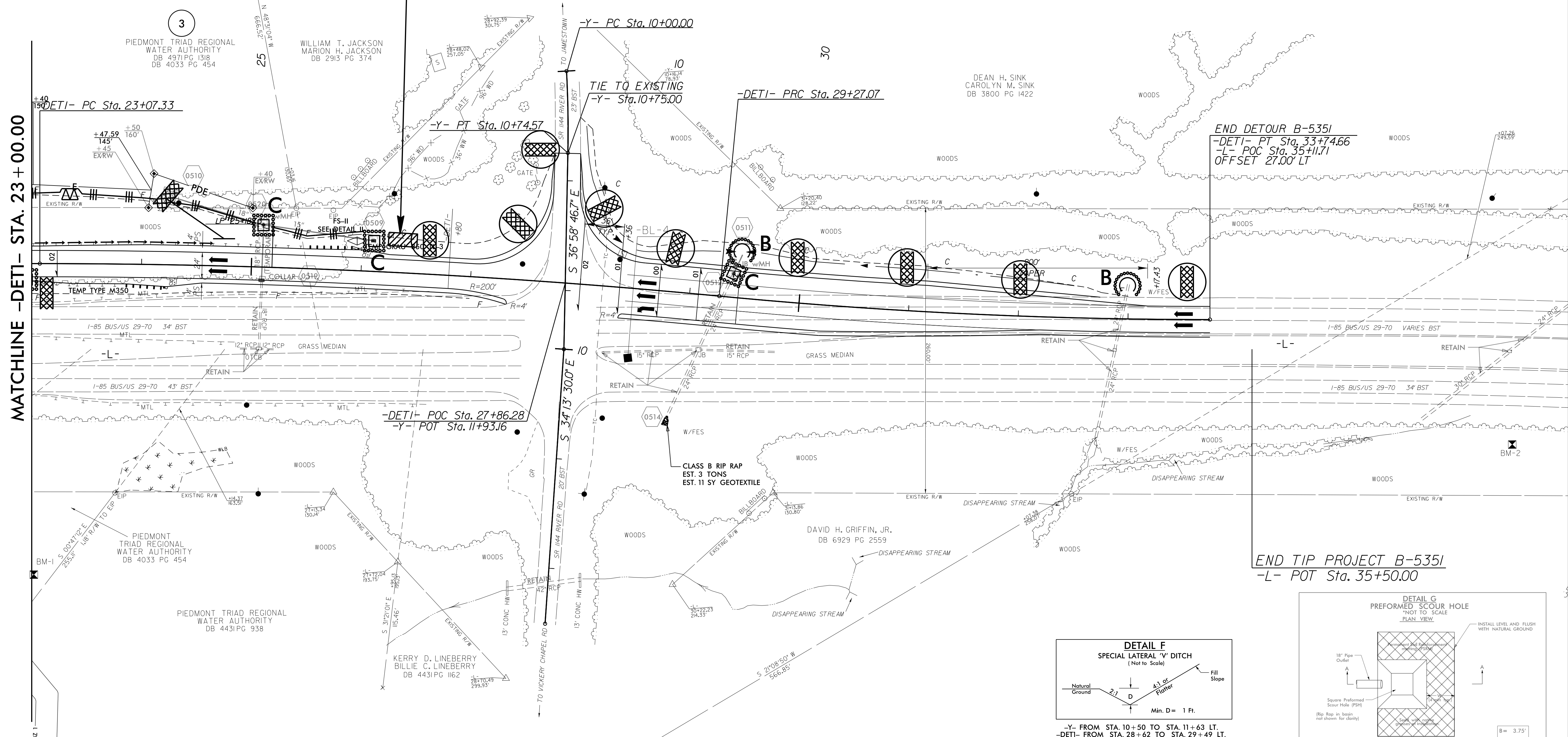
DETAIL OF TEMPORARY DETOUR

-DET1-

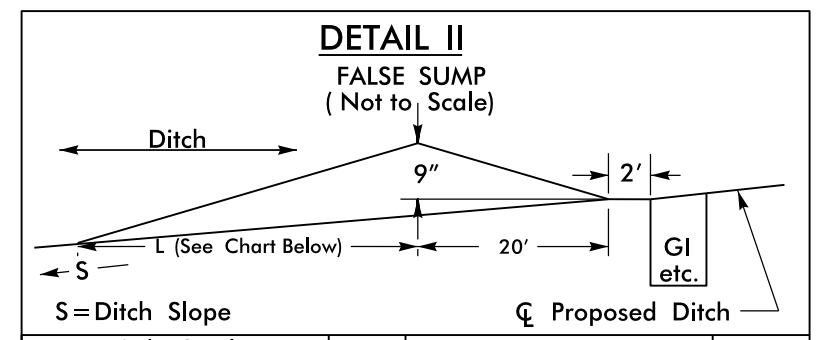
Place Matting for Erosion Control on Slope as Work Allows. Sta. 23+00 to Sta. 25+00

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC

26 x 13 x 3
ID 2B-2.1

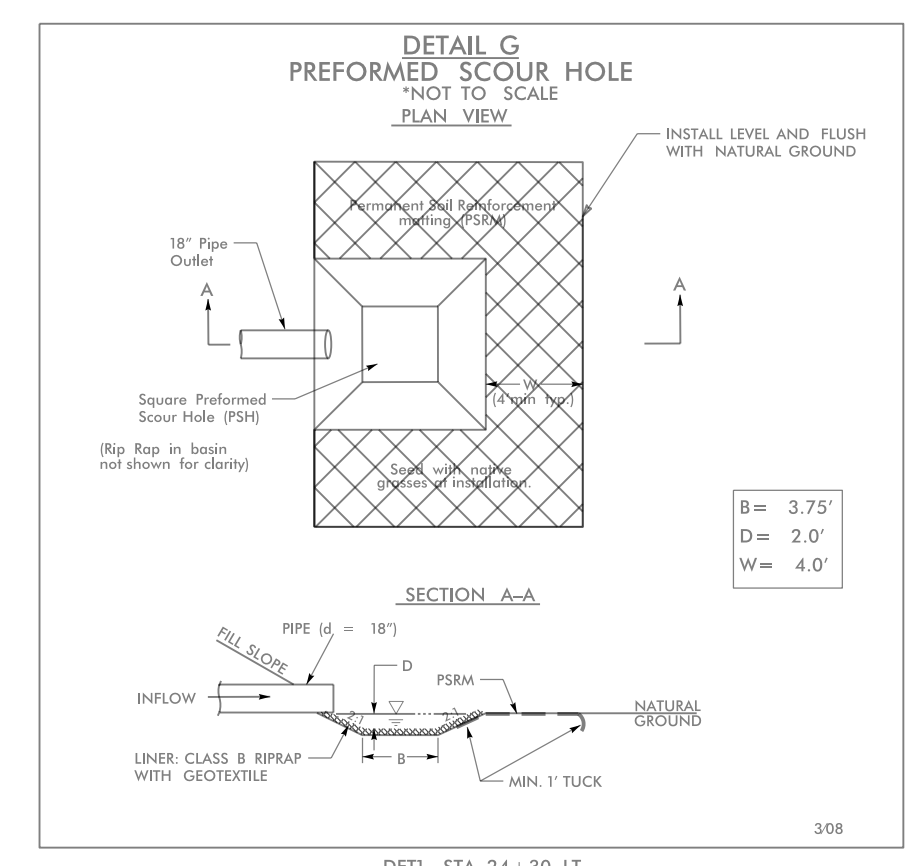


-Y- FROM STA. 10+50 TO STA. 11+63 LT.
-DET1- FROM STA. 28+62 TO STA. 29+49 LT.
-DET1- FROM STA. 29+49 TO STA. 32+62 LT.



Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

-DET1- STA. 25+95 LT.



-DET1- STA. 24+30 LT.

8/17/99

26- JAN. 2018 11:44
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11/11/2017 2:09:52

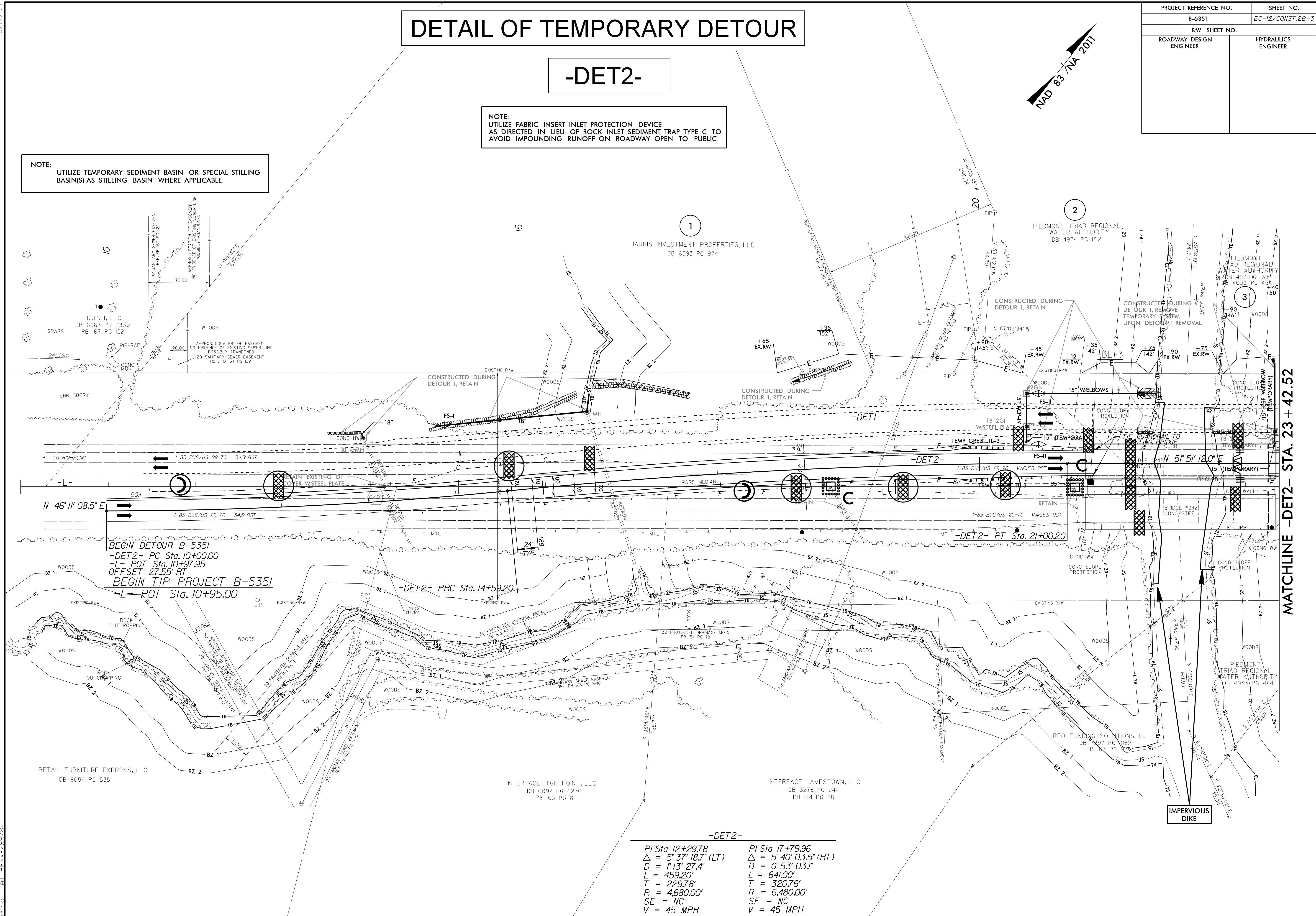
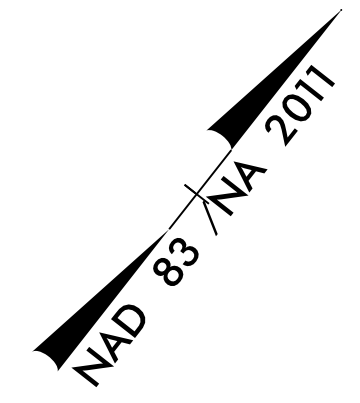
PROJECT REFERENCE NO.	SHEET NO.
B-5351	EC-12/CONST.2B-3
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

DETAIL OF TEMPORARY DETOUR

-DET2-

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE
AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO
AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING
BASIN(S) AS STILLING BASIN WHERE APPLICABLE.



-DET2- PRC Sta. 14+59.20

-DET2-
 PI Sta 12+29.78 PI Sta 17+79.96
 $\Delta = 5^{\circ} 37' 18.7''$ (LT) $\Delta = 5^{\circ} 40' 03.5''$ (RT)
 $D = 113' 27.4''$ $D = 0' 53' 03.1''$
 $L = 459.20'$ $L = 641.00'$
 $T = 229.78'$ $T = 320.76'$
 $R = 4680.00'$ $R = 6480.00'$
 $SE = NC$ $SE = NC$
 $V = 45$ MPH $V = 45$ MPH

8/17/99

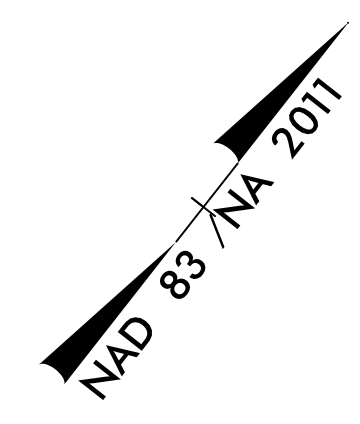
29 JAN 2018 14:18
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 11:00 AM 1/23/2018

MATCHLINE -DET2- STA. 23 + 42.52

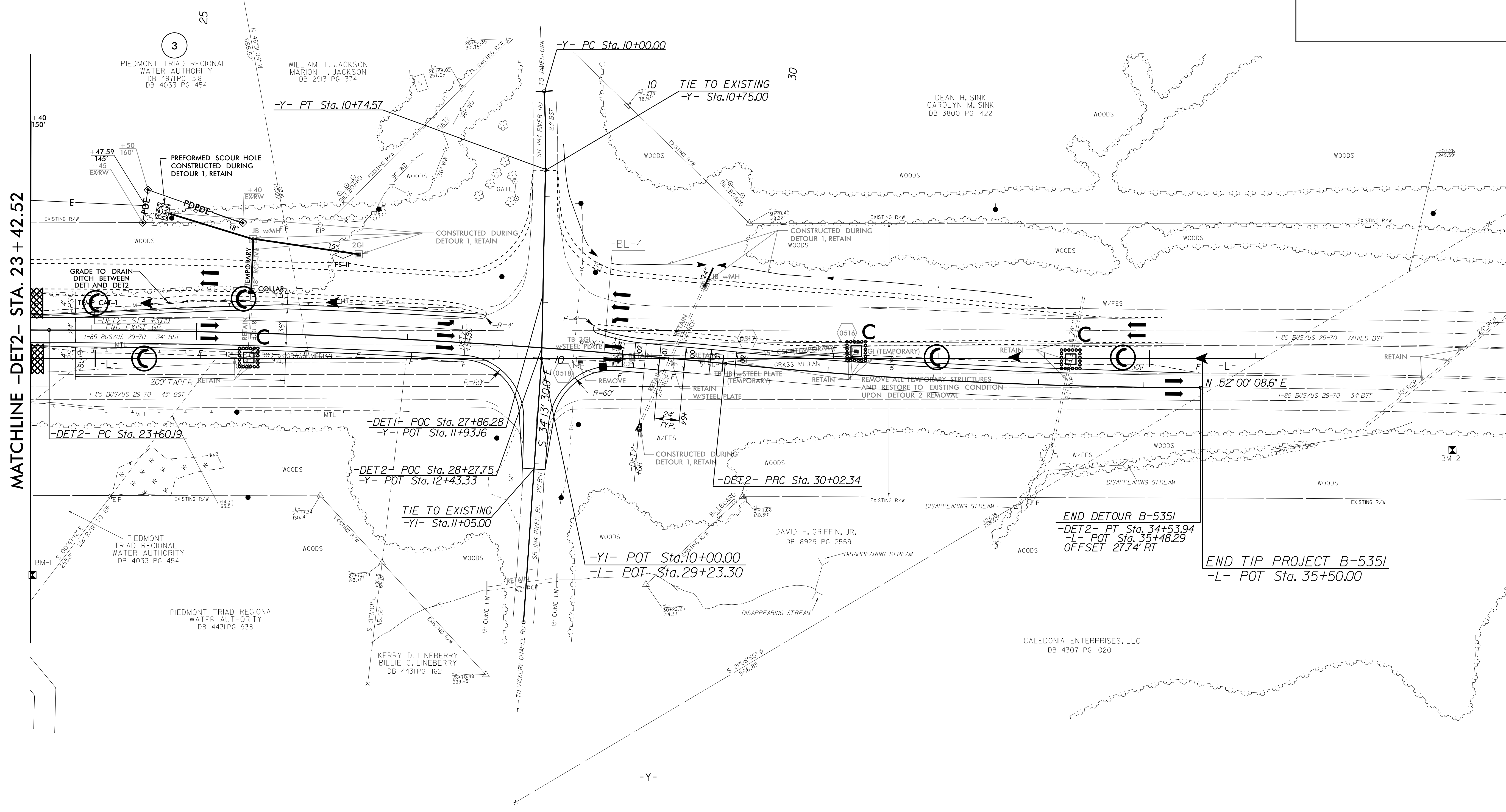
DETAIL OF TEMPORARY DETOUR

-DET2-

PROJECT REFERENCE NO. B-5351	SHEET NO. EC-13/CONST.2B-4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE
AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO
AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC

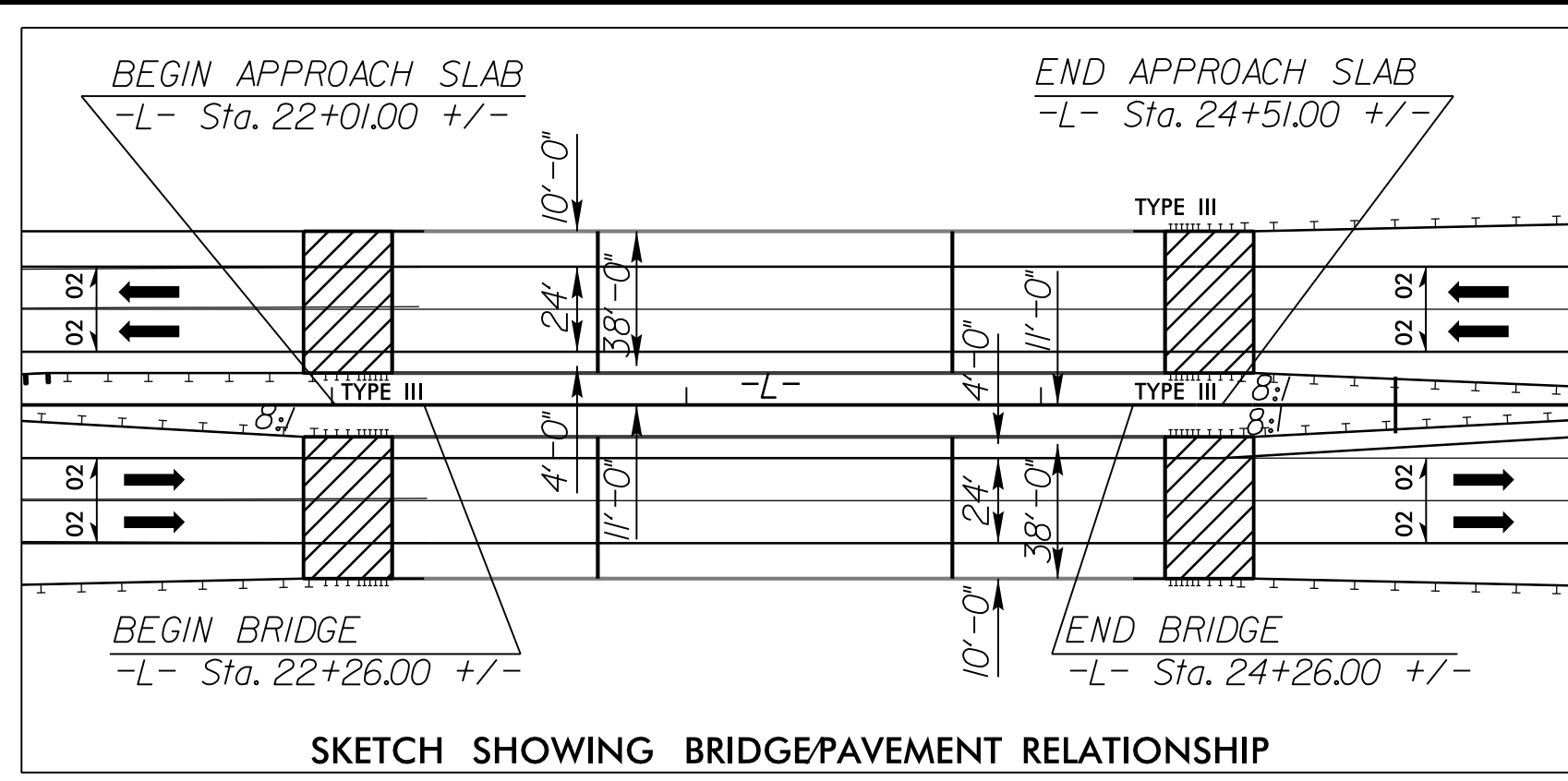


8/17/99

26- JAN. 2018 14:36
C:\Users\jerry\Desktop\B5351-EC-det.2B-04.dgn
JERRY-269782

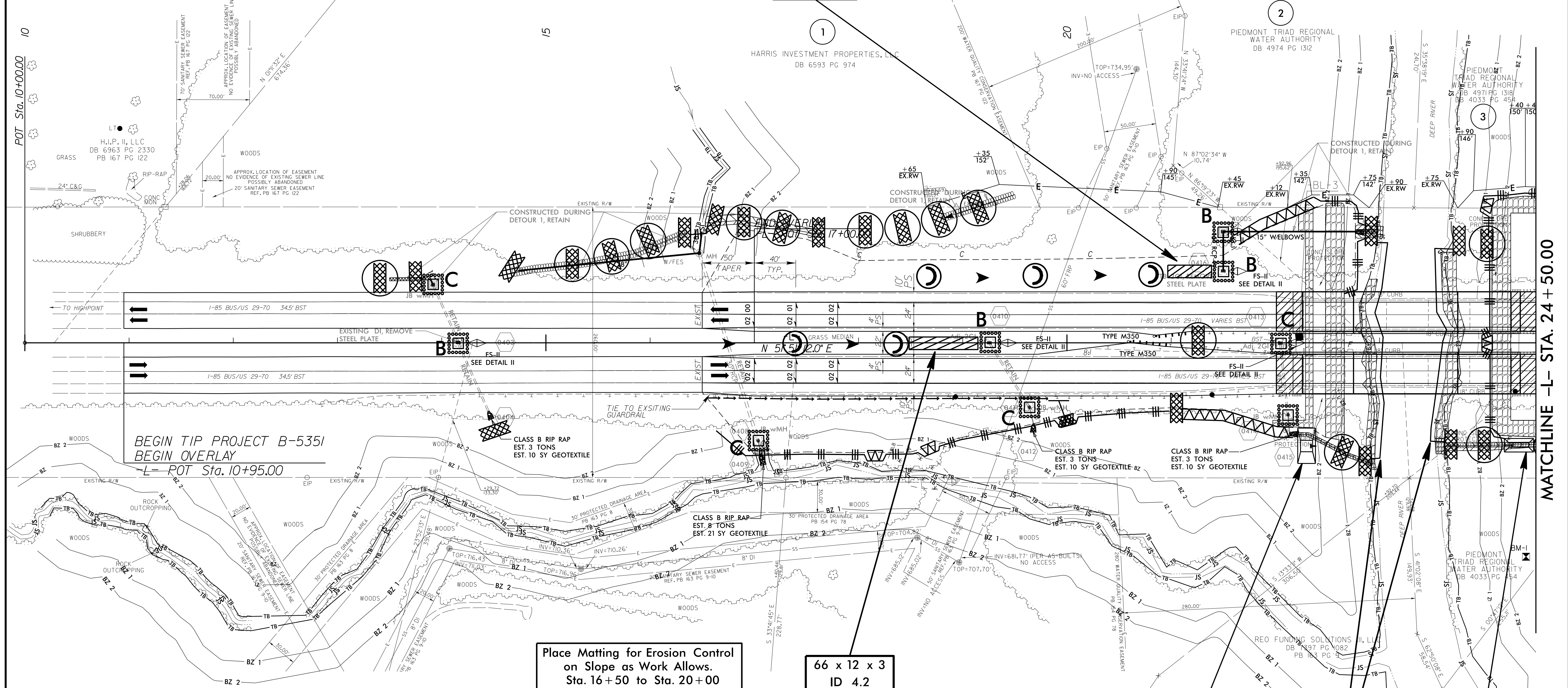
For Slopes Excavated Greater Than 10 feet
Install Matting for Erosion Control on
Entire Slope as Work Allows.

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE
AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO
AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC



NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING
BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

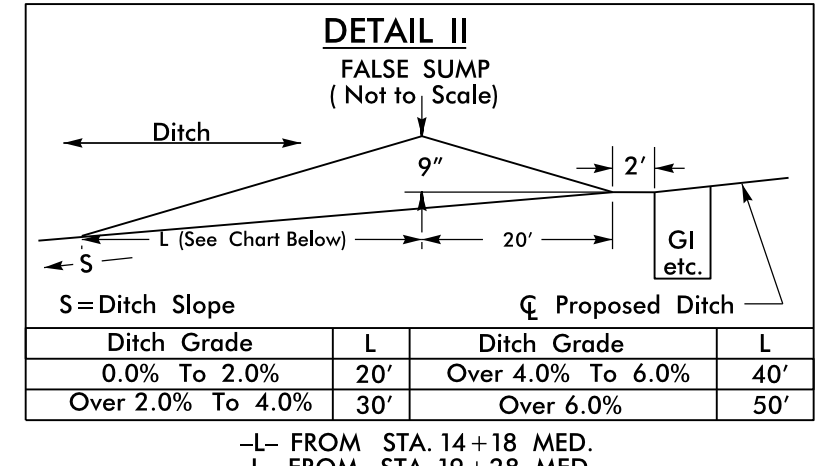
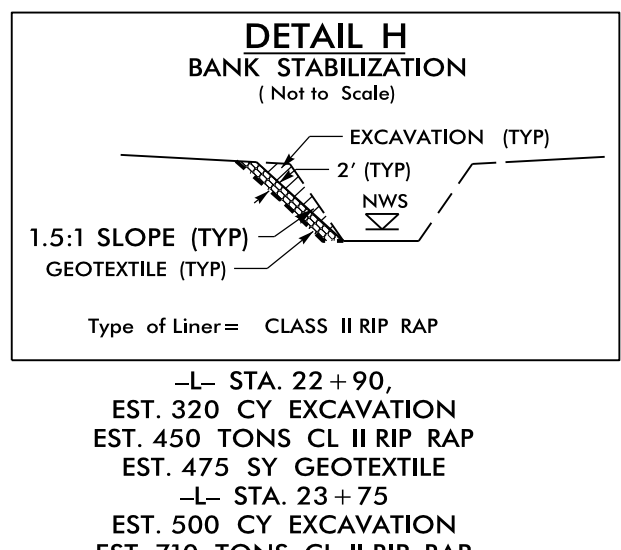
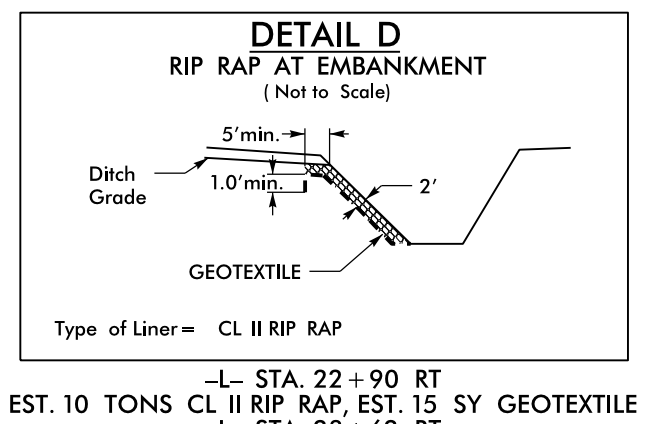
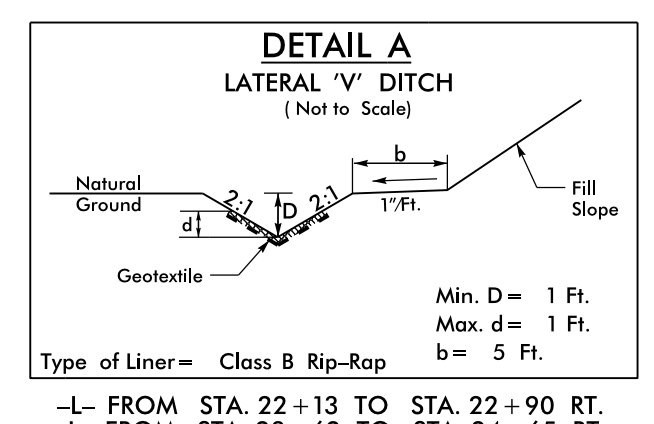
42 x 12 x 3
ID 4.1



BEGIN TIP PROJECT B-5351
BEGIN OVERLAY
L- POT Sta. 10+95.00

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 16+50 to Sta. 20+00

66 x 12 x 3
ID 4.2



18 x 38 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
4 ft. weir
ID 4.3

IMPERVIOUS DIKE

28 x 13 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 4.4

MATCHLINE -L- STA. 24+50.00

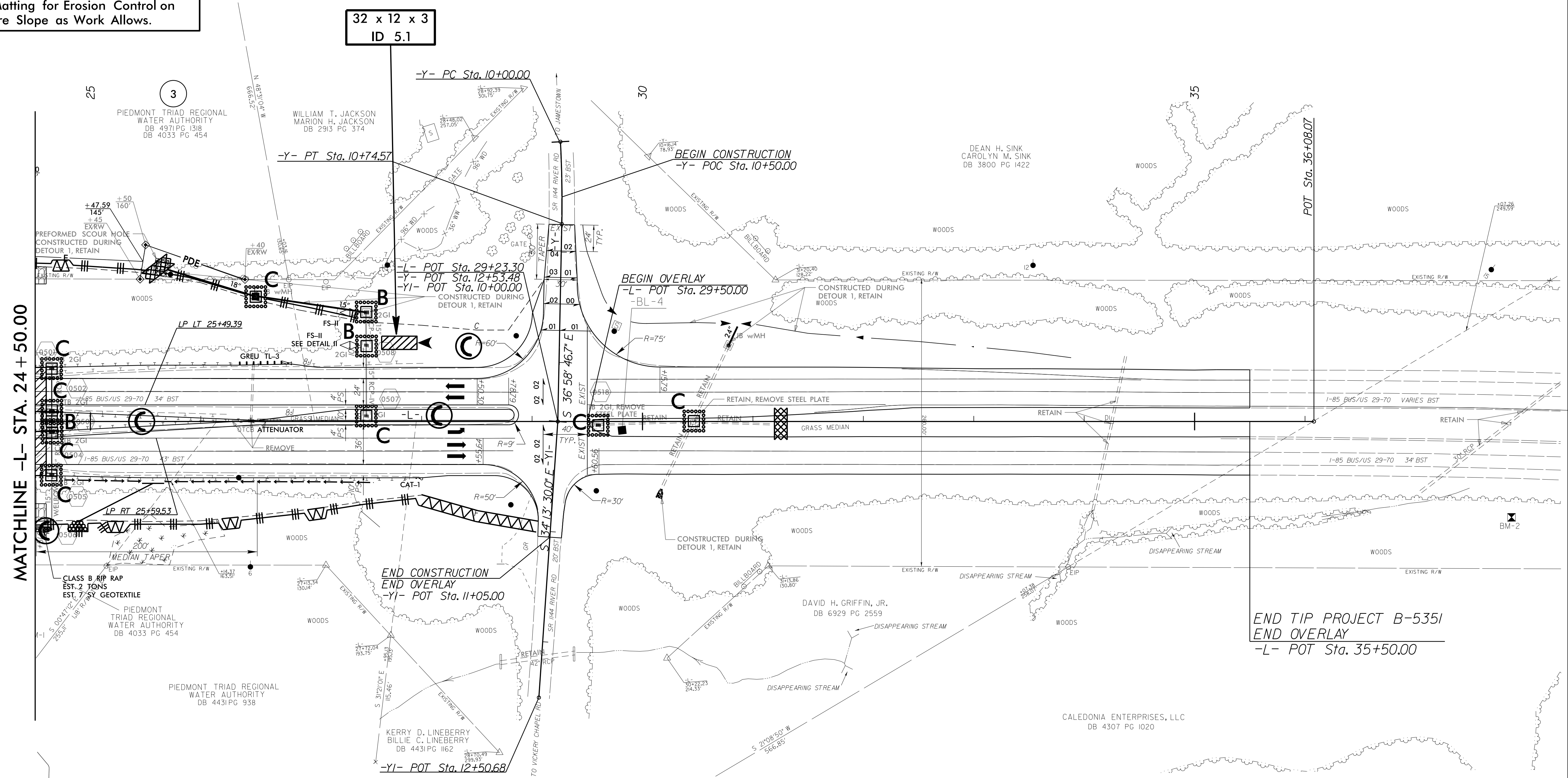
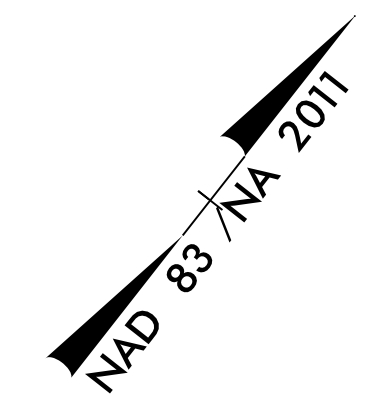
8/17/99
26 JAN 2018 15:25
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269782

PROJECT REFERENCE NO.		SHEET NO.	
B-5351		EC-15/CONST.5	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

NOTE:
 UTILIZE FABRIC INSERT INLET PROTECTION DEVICE
 AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO
 AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC

For Slopes Excavated Greater Than 10 feet
 Install Matting for Erosion Control on
 Entire Slope as Work Allows.

-Y-
 PI Sta 10+37.30
 $\Delta = 4' 16" 22.0'$ (RT)
 $D = 5' 43' 46.5"$
 $L = 74.57'$
 $T = 37.30'$
 $R = 1,000.00'$



MATCHLINE -L- STA. 24 + 50.00

END TIP PROJECT B-5351
 END OVERLAY
 -L- POT Sta. 35+50.00