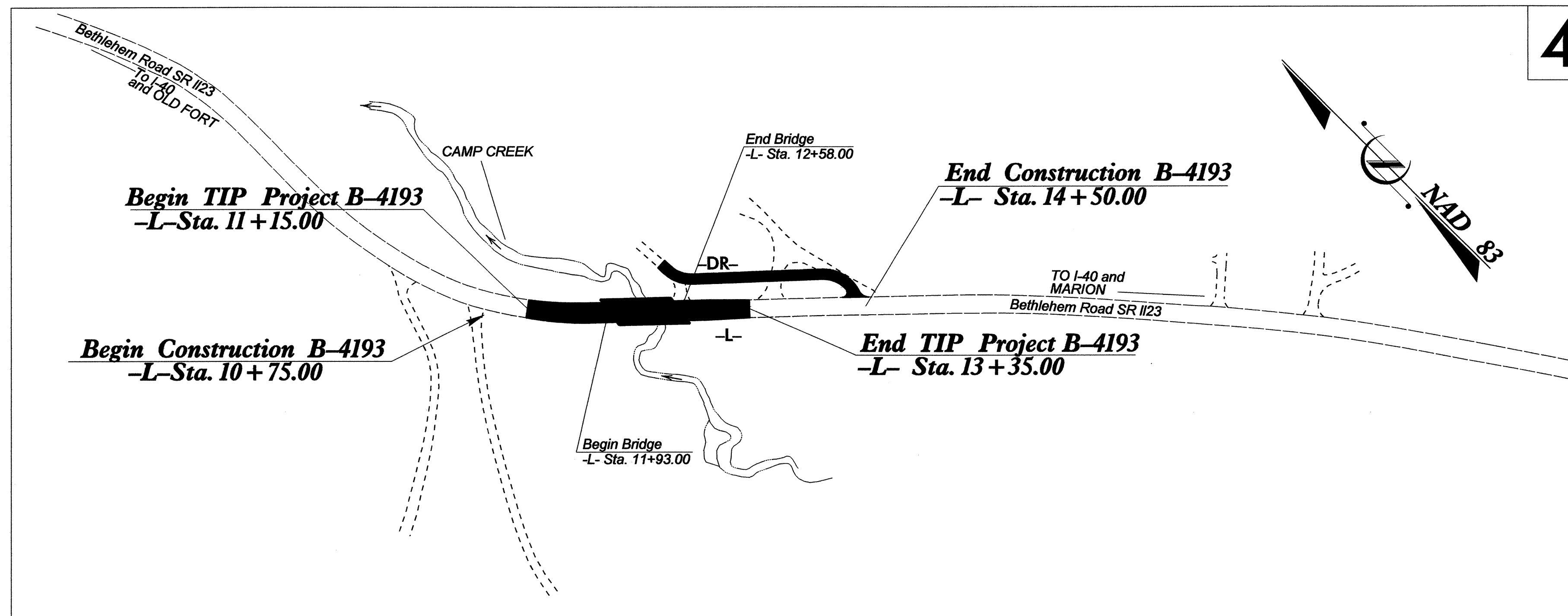


**TIP PROJECT: B-4193**

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

**LOCATION: Bridge #51 over Camp Creek and Approaches on SR 1123,  
 Bethlehem Road**

**TYPE OF WORK: Grading, Paving, Drainage, Guardrail and Structure**



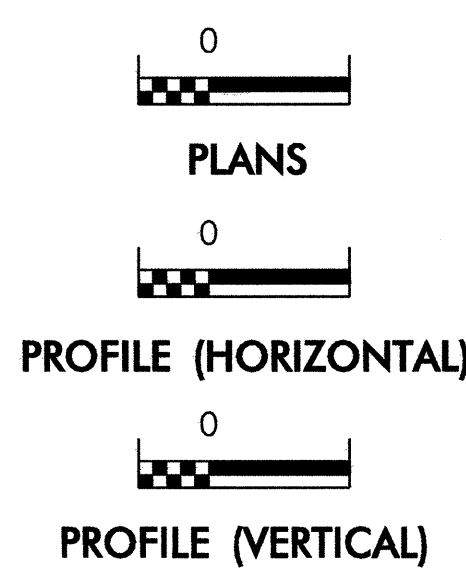
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4193	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1650.03	Temporary Silt Ditch	
1650.05	Temporary Diversion	
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1650.01	Riser Basin	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-B	
	Wattle	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	
1632.02	Type B	
1632.03	Type C	
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	

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

**GRAPHIC SCALE**



ROADSIDE ENVIRONMENTAL UNIT  
 DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA

Prepared In the Office of:  
**ROADSIDE ENVIRONMENTAL UNIT**  
 1 South Wilmington St.  
 Raleigh, NC 27611  
**2006 STANDARD SPECIFICATIONS**

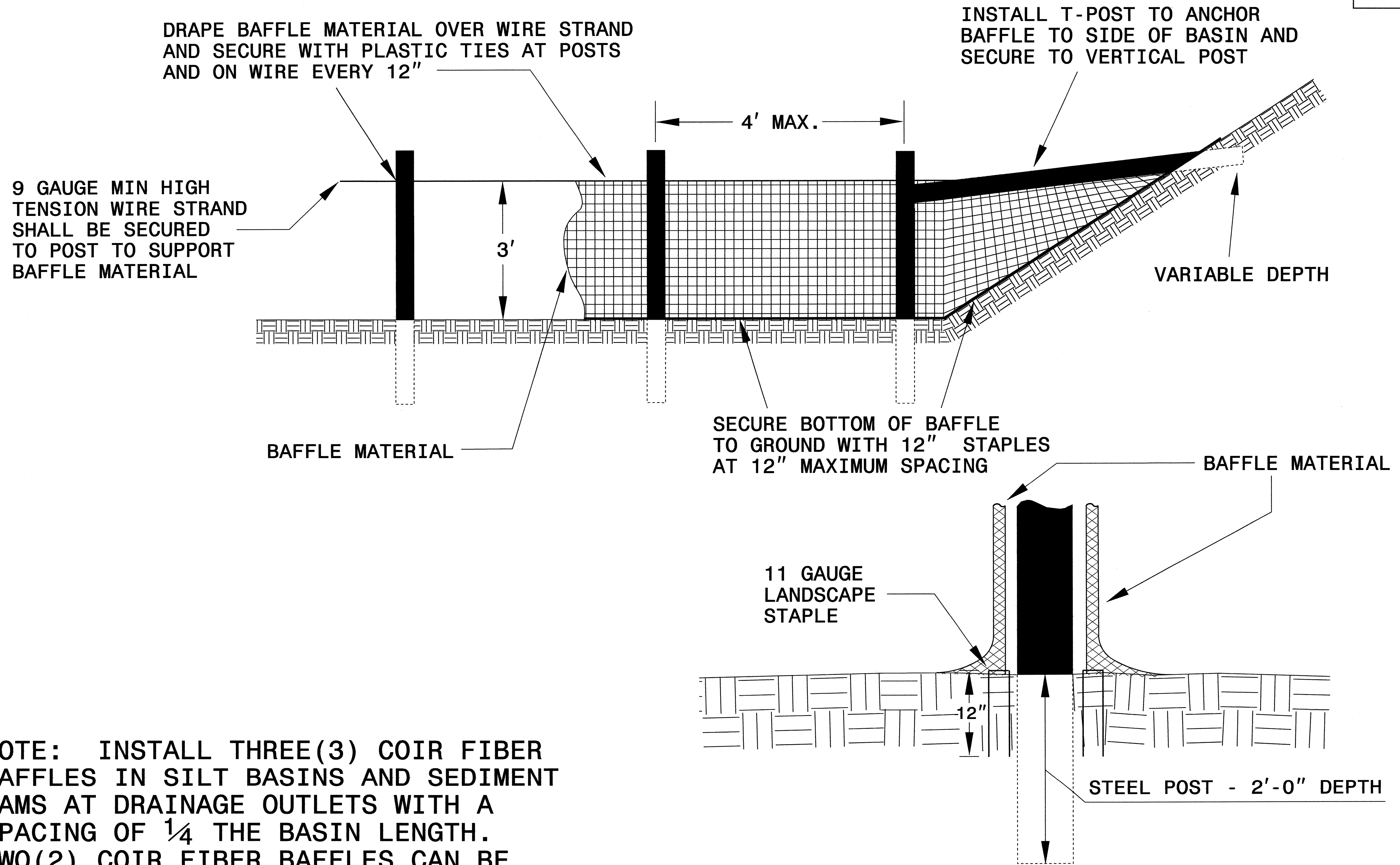
**Roadway Standard Drawings**

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01	Temporary Silt Fence	1632.03	Rock Inlet Sediment Trap Type C
1606.01	Special Sediment Control Fence	1633.01	Temporary Rock Silt Check Type A
1607.01	Gravel Construction Entrance	1634.02	Temporary Rock Sediment Dam Type B
1630.02	Silt Basin Type B	1635.02	Rock Pipe Inlet Sediment Trap Type B

PROJECT REFERENCE NO. B-4193	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# COIR FIBER BAFFLE DETAIL

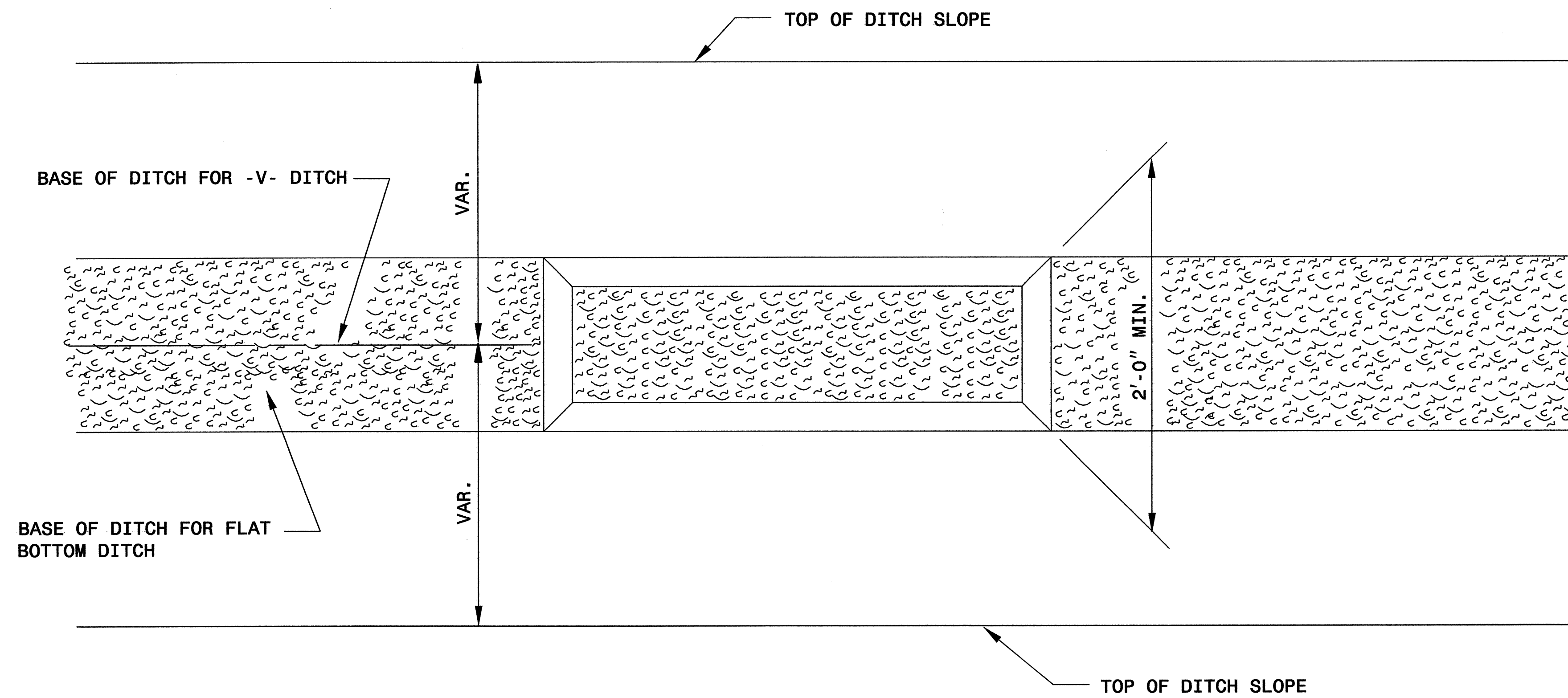


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF  $\frac{1}{4}$  THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF  $\frac{1}{3}$  THE BASIN LENGTH.

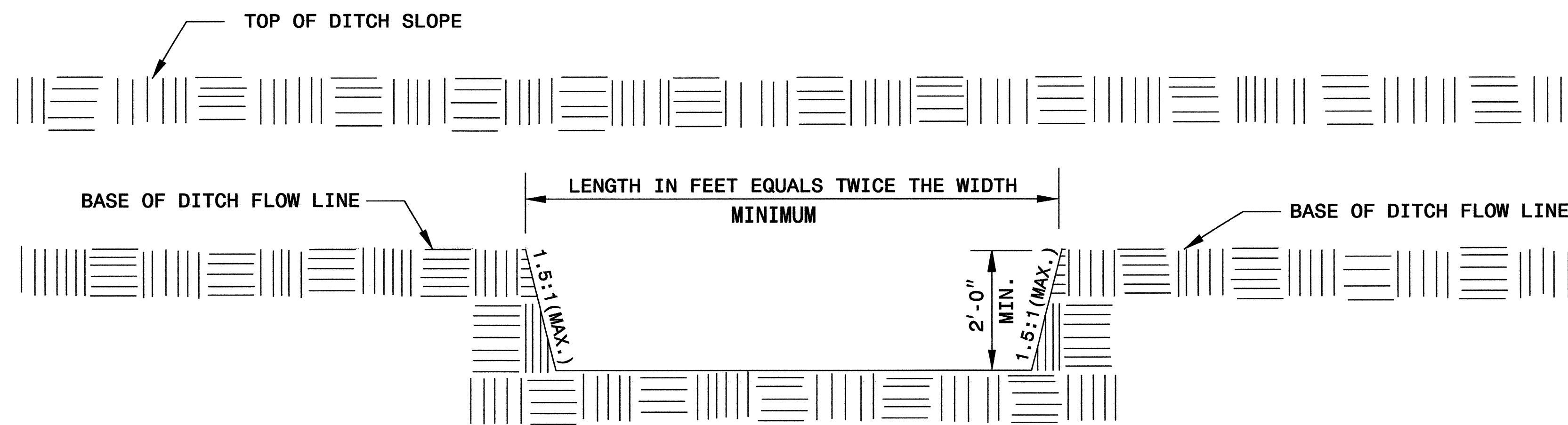
BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12" LANDSCAPE STAPLES

PROJECT REFERENCE NO. B-4193	SHEET NO. EC-2A
R / W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# SILT BASIN 'B' DETAIL



**PLAN**



**ELEVATION**



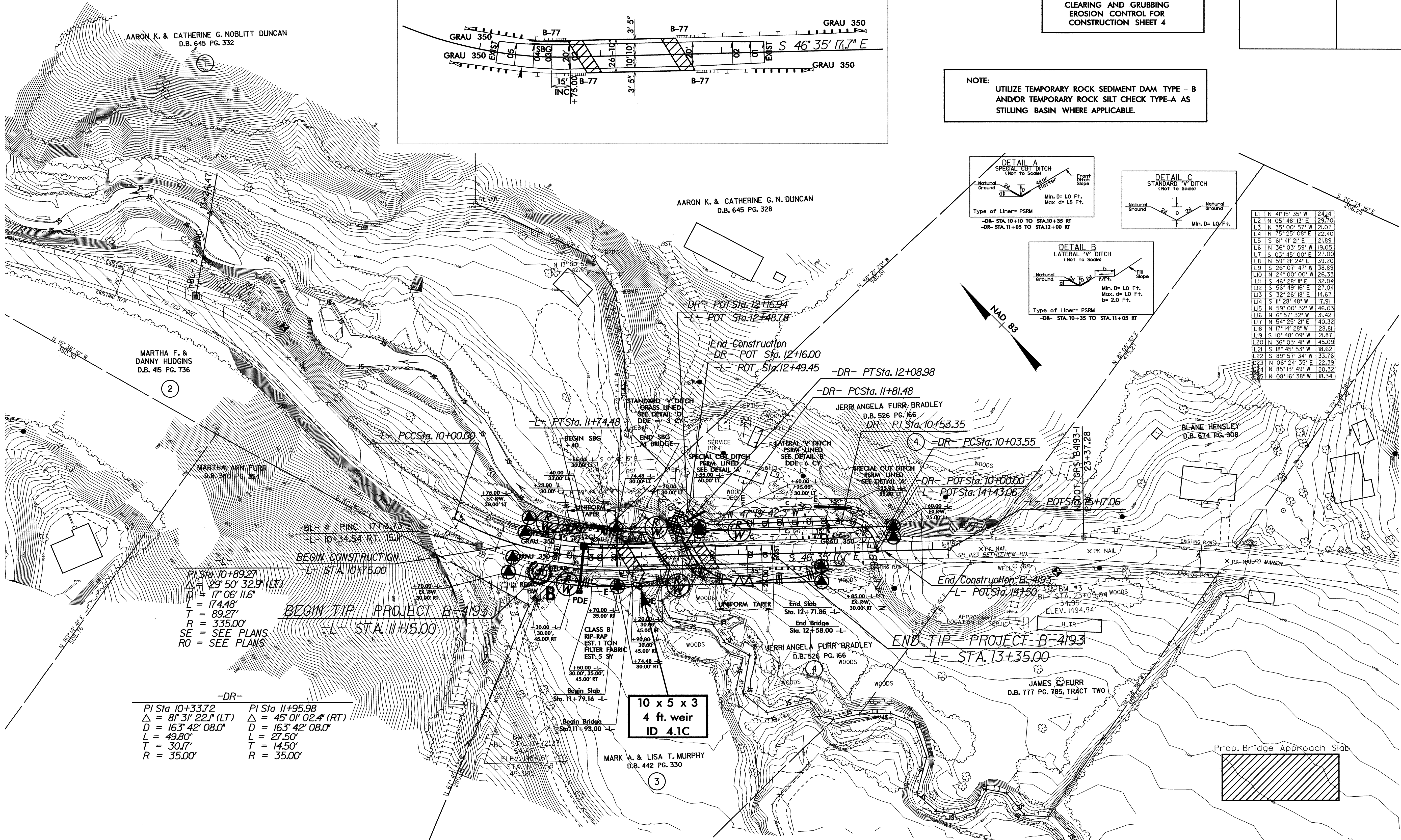
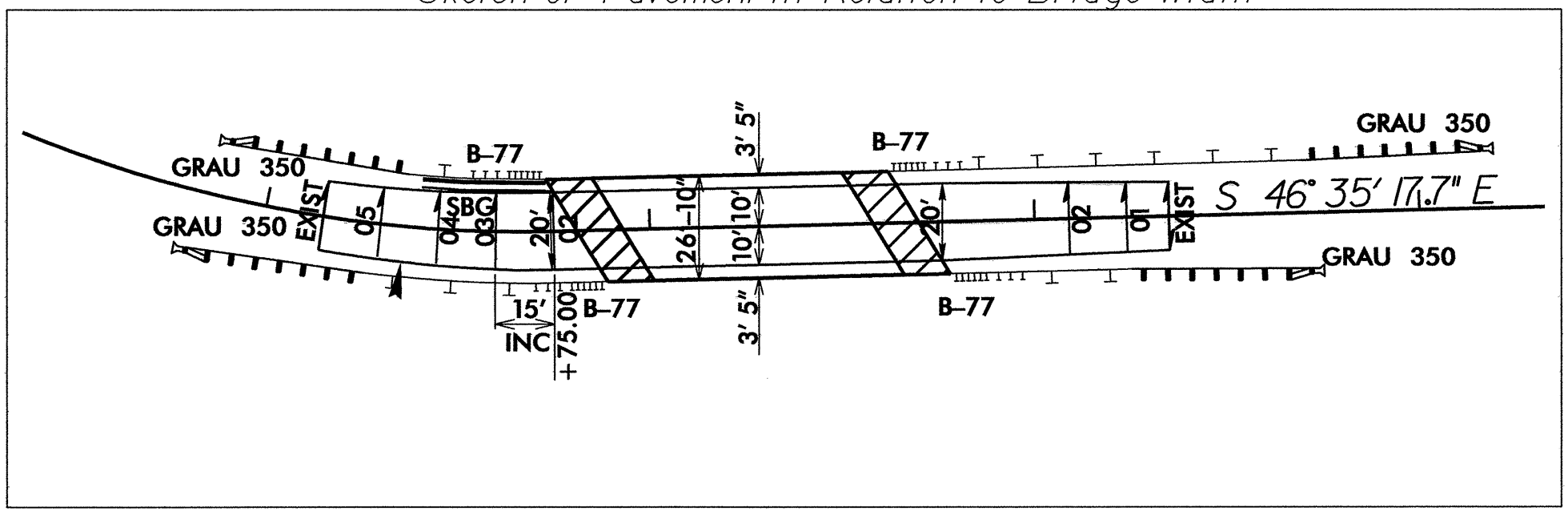
PROJECT REFERENCE NO.	SHEET NO.
B-4193	EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

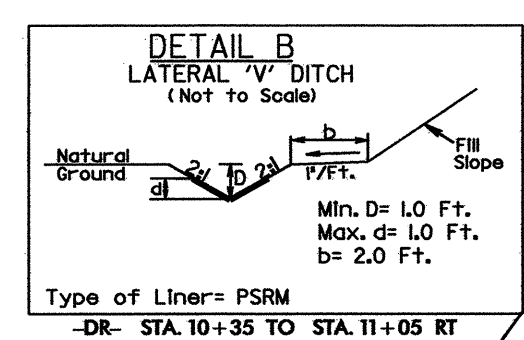
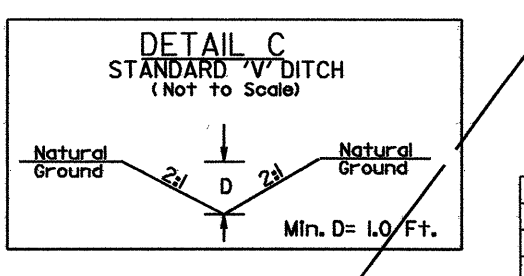
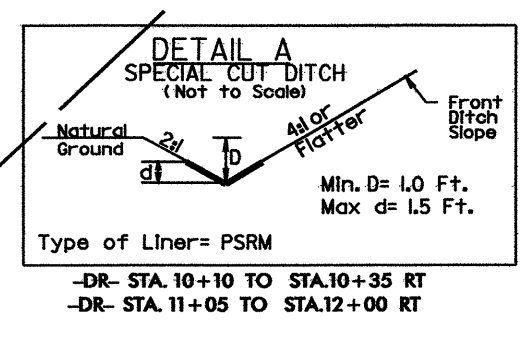
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

NOTE: UTILIZE TEMPORARY ROCK SEDIMENT DAM TYPE - B AND/OR TEMPORARY ROCK SILT CHECK TYPE-A AS STILLING BASIN WHERE APPLICABLE.

Sketch of Pavement in Relation to Bridge Width



L1	N 41°15'35" W	24.44
L2	N 05°48'13" E	23.70
L3	N 35°00'57" W	21.07
L4	N 75°25'08" E	22.40
L5	S 61°41'21" E	21.89
L6	N 36°03'59" W	19.05
L7	S 03°45'00" E	27.00
L8	N 59°21'24" E	39.20
L9	S 26°07'41" W	38.89
L10	N 24°00'00" W	26.33
L11	S 46°28'11" E	32.04
L12	S 56°49'16" E	27.04
L13	S 32°26'18" E	14.67
L14	S 11°28'48" W	17.91
L15	N 59°00'32" W	46.03
L16	N 6°57'32" W	31.42
L17	N 54°25'21" E	40.32
L18	N 17°16'28" W	28.81
L19	S 10°48'09" W	21.81
L20	S 36°03'41" W	45.09
L21	S 18°45'53" W	18.62
L22	S 89°57'34" W	33.76
L23	N 06°24'35" E	22.39
L24	N 85°13'49" W	20.32
L25	N 08°16'38" W	18.34



BEGIN TIP PROJECT B-4193  
 -L- STA. 11+15.00  
 PI Sta 10+89.27  
 $\Delta = 29°50'32.9" (LT)$   
 $D = 17°06'11.6"$   
 $L = 174.48'$   
 $T = 89.27'$   
 $R = 335.00'$   
 SE = SEE PLANS  
 RO = SEE PLANS

-DR-  
 PI Sta 10+33.72  
 $\Delta = 81°31'22.1" (LT)$   
 $D = 163°42'08.0"$   
 $L = 49.80'$   
 $T = 30.17'$   
 $R = 35.00'$

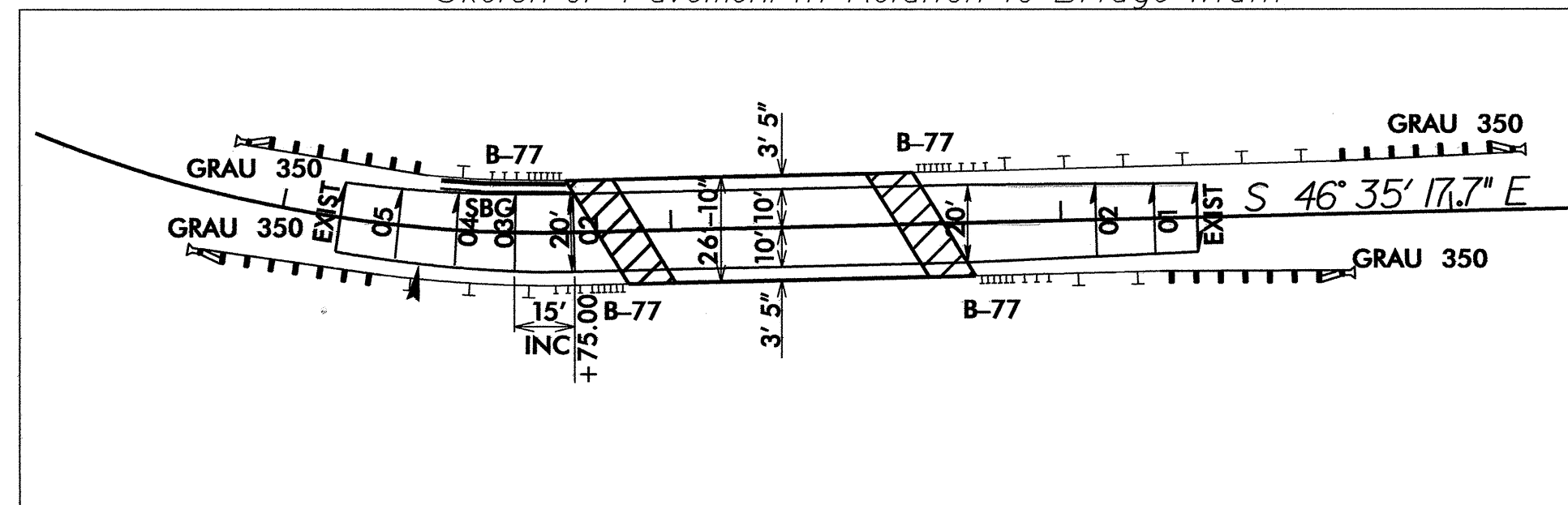
10 x 5 x 3  
 4 ft. weir  
 ID 4.1C

END TIP PROJECT B-4193  
 -L- STA. 13+35.00

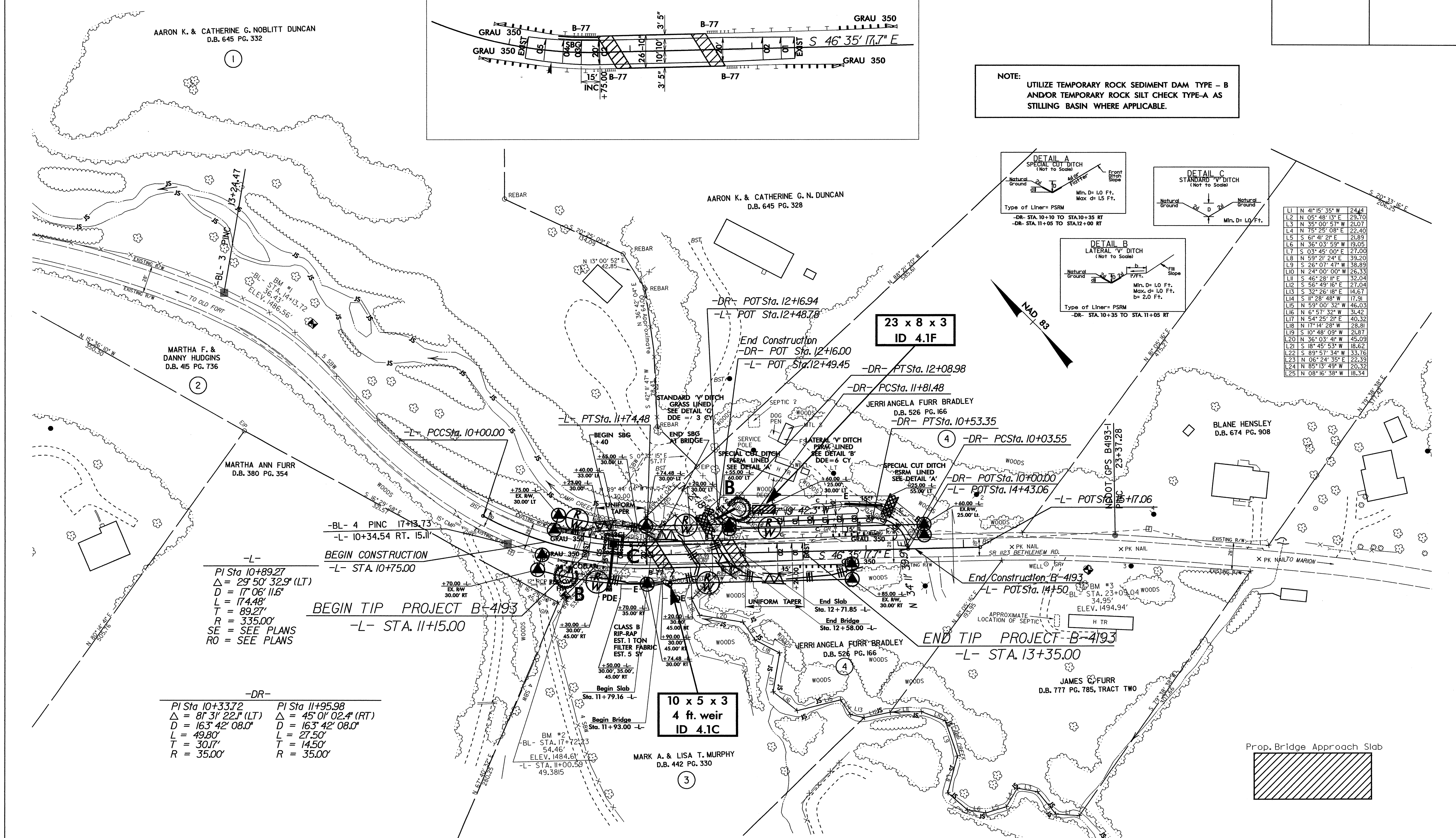
SBG = SHOULDER BERM GUTTER  
 NOTE: FOR -L- PROFILE SEE SHEET 5  
 NOTE: FOR -DR- PROFILE SEE SHEET 5  
 NOTE: FOR STRUCTURE PLANS SEE SHEET S-1 THRU S-9

PROJECT REFERENCE NO.		SHEET NO.	
B-4193		EC-5/CONST.4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

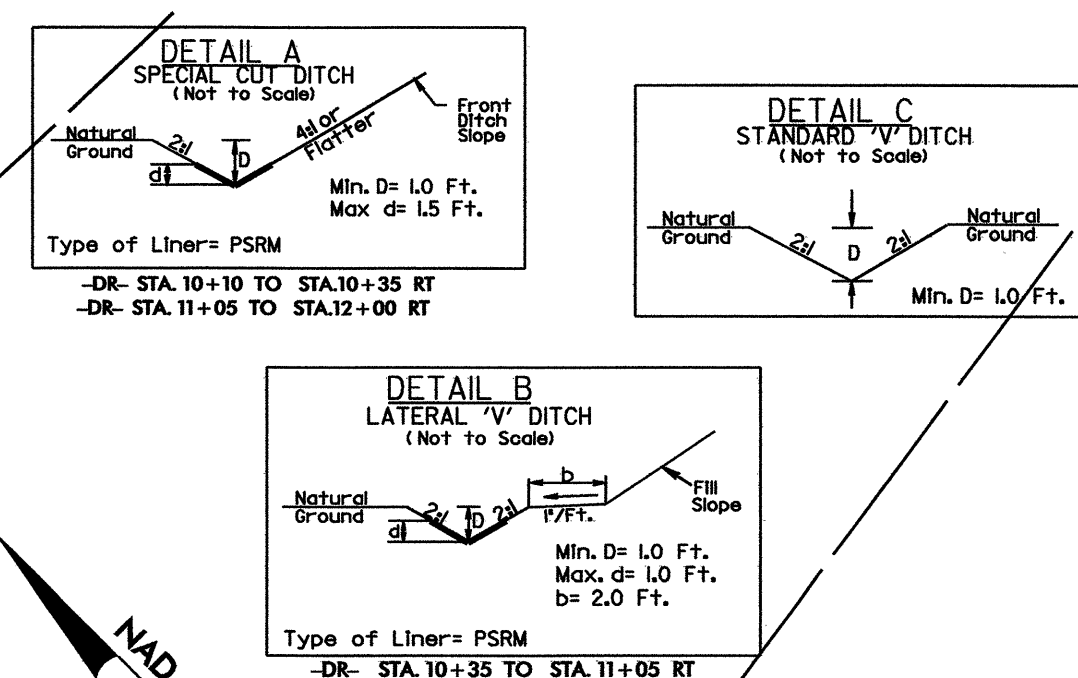
Sketch of Pavement In Relation to Bridge Width



NOTE: UTILIZE TEMPORARY ROCK SEDIMENT DAM TYPE - B AND/OR TEMPORARY ROCK SILT CHECK TYPE-A AS STILLING BASIN WHERE APPLICABLE.



L1	N 41°15'35" W	24.44
L2	N 05°48'13" E	29.70
L3	N 35°00'57" W	21.07
L4	N 75°25'08" E	22.40
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L6	N 36°03'59" W	19.05
L7	S 03°45'00" E	27.00
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L9	S 26°07'47" W	38.89
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L11	S 46°28'11" E	32.04
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L15	N 59°00'32" W	46.03
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L17	N 54°25'21" E	40.32
L18	N 17°14'28" W	28.81
L19	S 10°48'09" W	21.87
L20	N 36°03'41" W	45.09
L21	S 18°45'53" W	18.62
L22	S 89°57'34" W	33.76
L23	N 06°24'35" E	22.39
L24	N 85°13'49" W	20.32
L25	N 08°16'38" W	18.34



BEGIN TIP PROJECT B-4193  
-L- STA. 11+15.00

BEGIN CONSTRUCTION  
-L- STA. 10+75.00

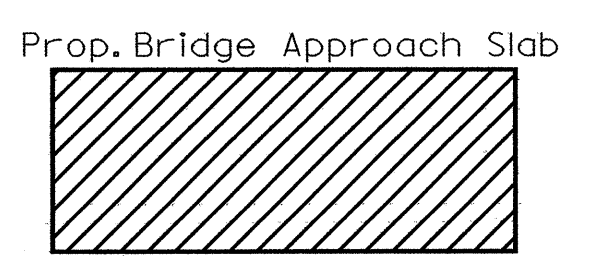
PI Sta 10+89.27  
Δ = 29° 50' 32.9" (LT)  
D = 17° 06' 11.6"  
L = 174.48'  
T = 89.27'  
R = 335.00'  
SE = SEE PLANS  
RO = SEE PLANS

-DR-  
PI Sta 10+33.72  
Δ = 81° 31' 22.1" (LT)  
D = 163° 42' 08.0"  
L = 49.80'  
T = 30.17'  
R = 35.00'

PI Sta 11+95.98  
Δ = 45° 01' 02.4" (RT)  
D = 163° 42' 08.0"  
L = 27.50'  
T = 14.50'  
R = 35.00'

10 x 5 x 3  
4 ft. weir  
ID 4.1C

23 x 8 x 3  
ID 4.1F



SBG = SHOULDER BERM GUTTER  
NOTE: FOR -L- PROFILE SEE SHEET 5  
NOTE: FOR -DR- PROFILE SEE SHEET 5  
NOTE: FOR STRUCTURE PLANS SEE SHEET S-1 THRU S-?