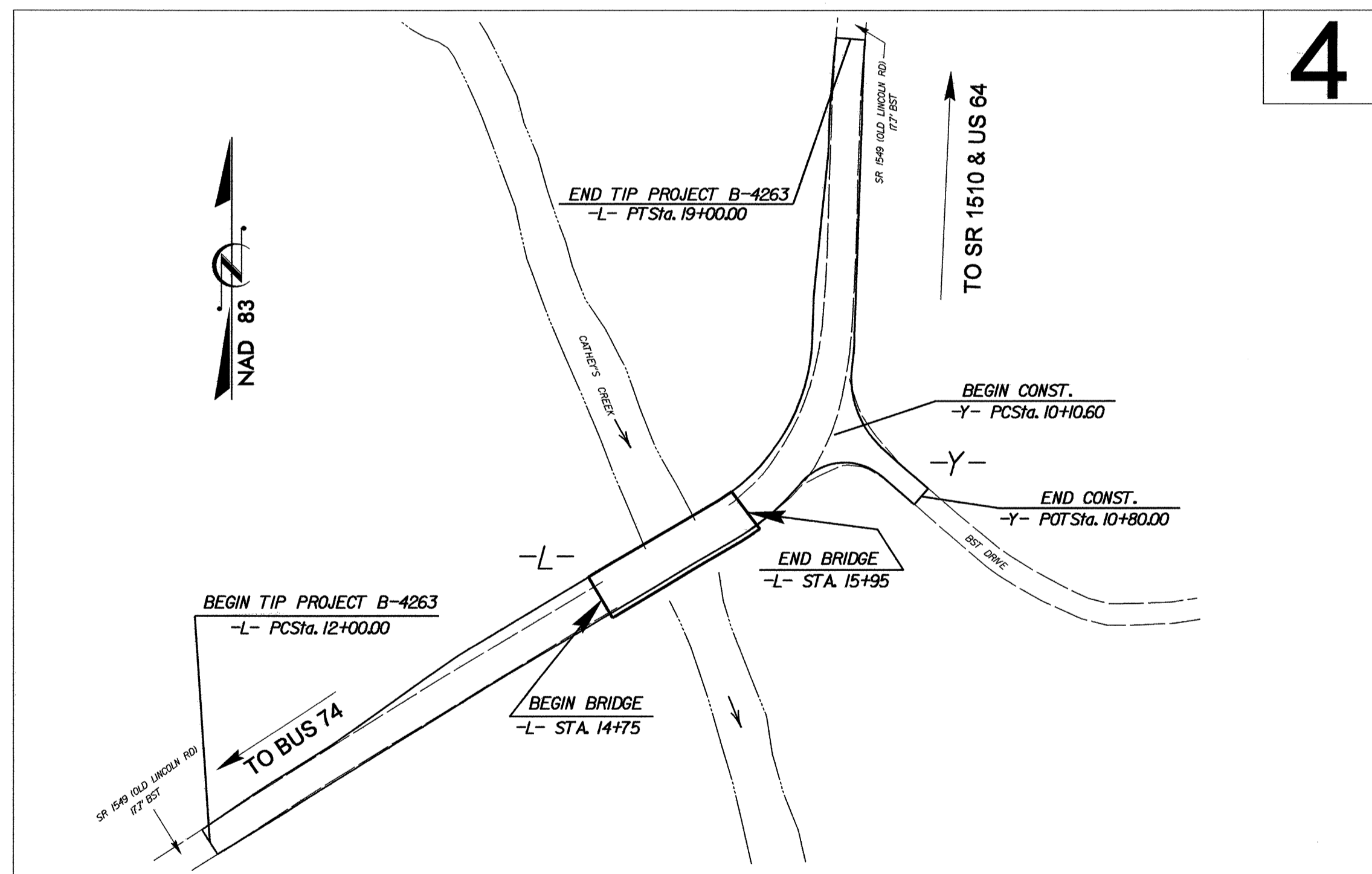


**TIP PROJECT: B-4263**

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

**LOCATION: BRIDGE 41 OVER CATHEY'S CREEK AND  
 APPROACHES ON SR 1549 (OLD LINCOLN RD.)**

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



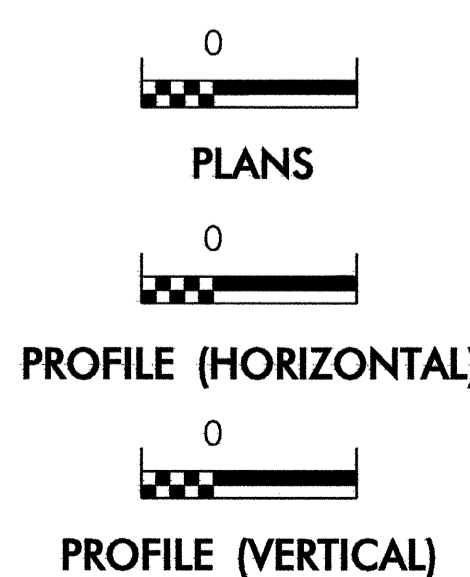
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4263	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	▲▲▲▲▲
1622.01	Temporary Berms and Slope Drains	—
1630.01	Riser Basin	⊙
	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	▭
1630.06	Special Stilling Basin	▭
Rock Inlet Sediment Trap:		
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	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**

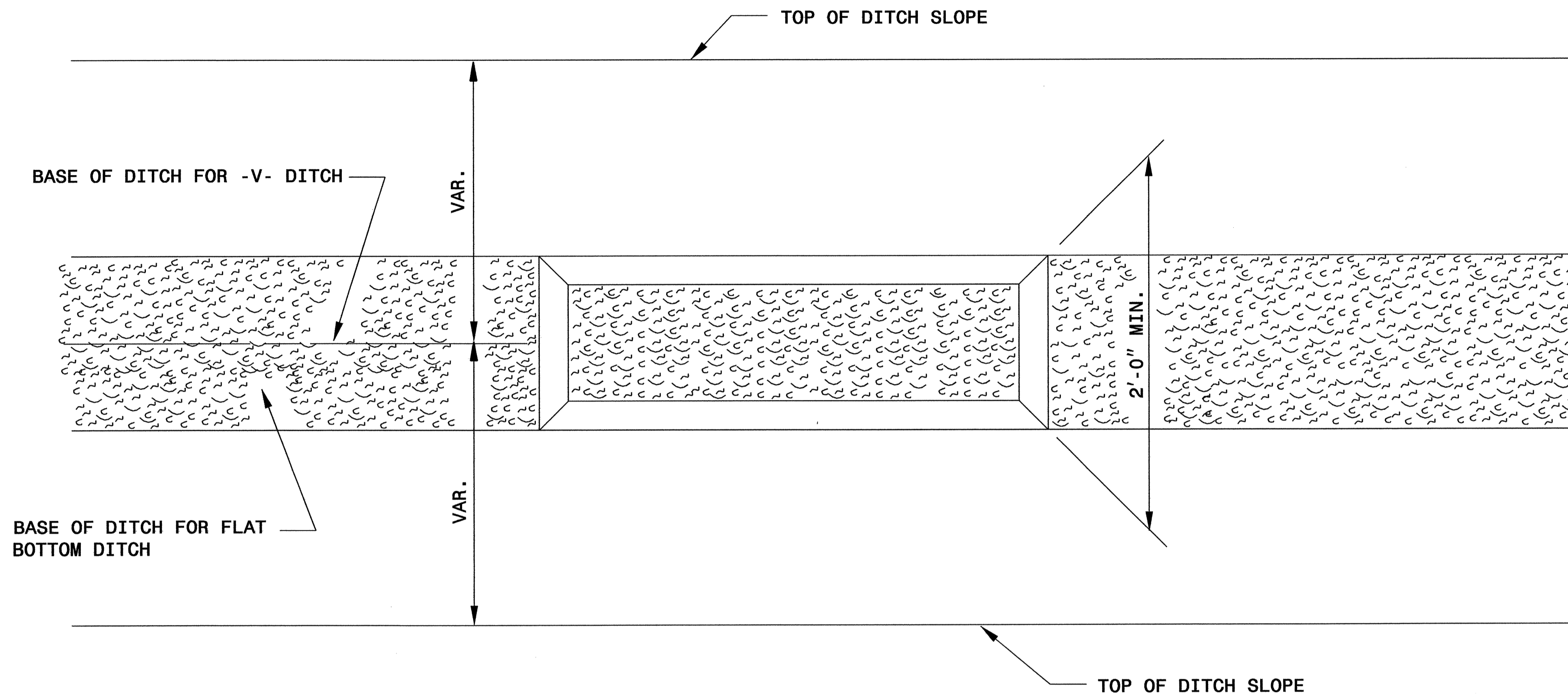
**Roadway Standard Drawings**

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.

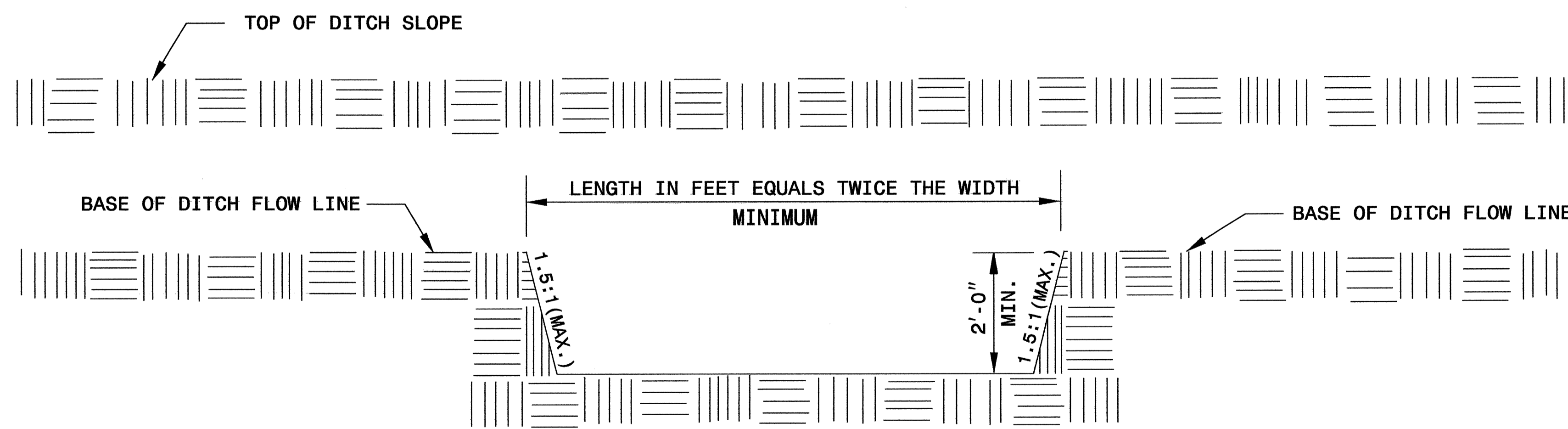
- |  |  |
|--|--|
| 1605.01 Temporary Silt Fence             | 1632.03 Rock Inlet Sediment Trap Type C      |
| 1607.01 Gravel Construction Entrance     | 1633.01 Temporary Rock Silt Check Type A     |
| 1622.01 Temporary Berms and Slope Drains | 1634.02 Temporary Rock Sediment Dam Type B   |
|  | 1635.02 Rock Pipe Inlet Sediment Trap Type B |

PROJECT REFERENCE NO.	SHEET NO.
B-4263	EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# SILT BASIN 'B' DETAIL



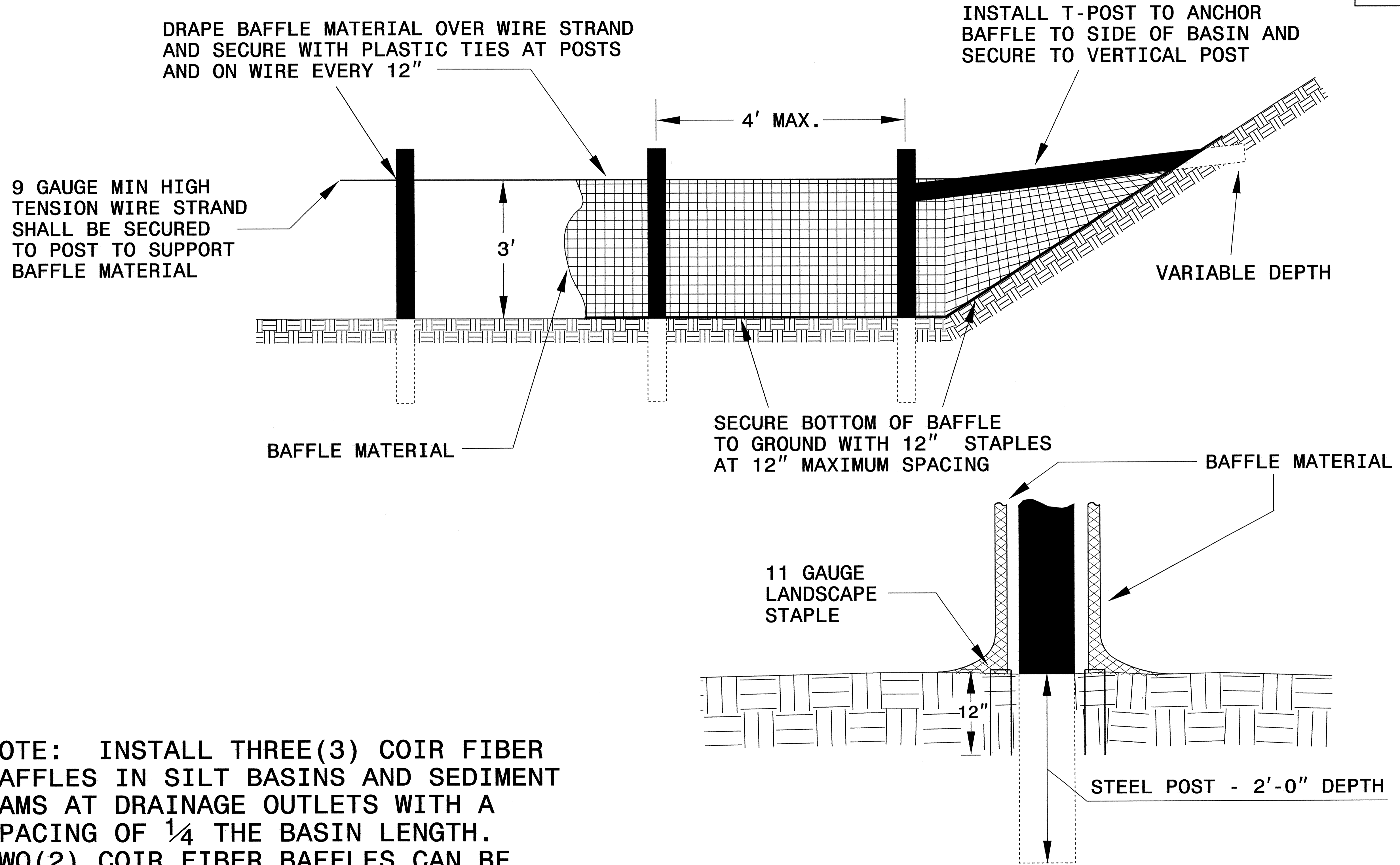
PLAN



ELEVATION

PROJECT REFERENCE NO. B-4263	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# COIR FIBER BAFFLE DETAIL

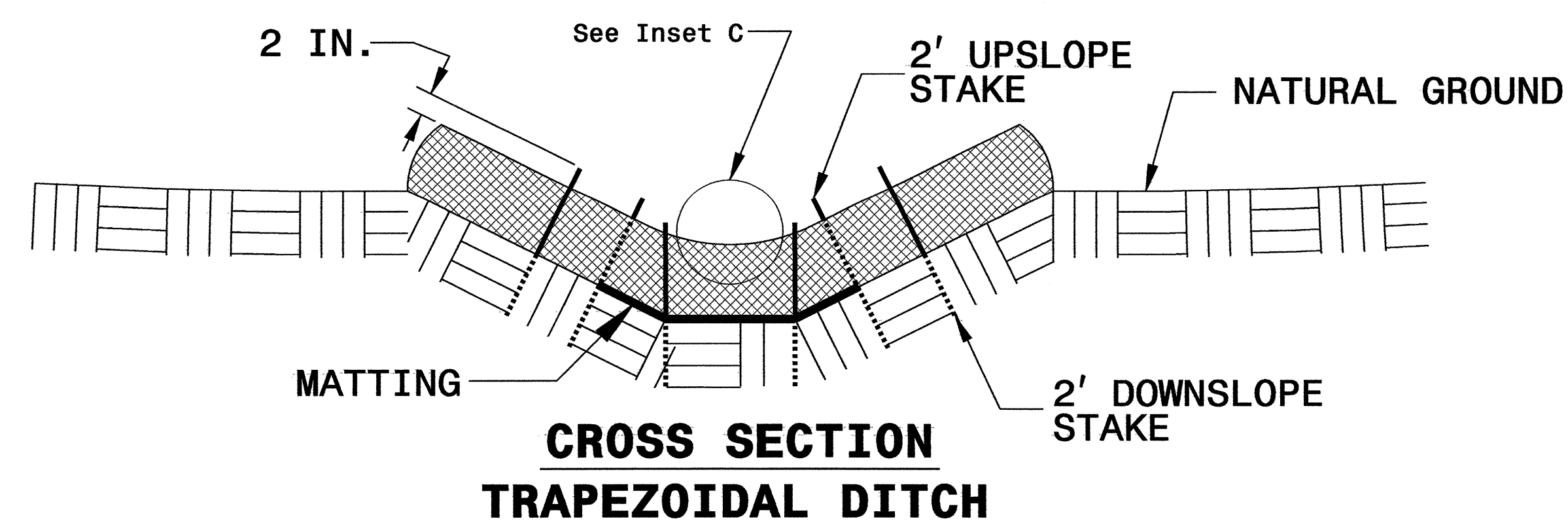
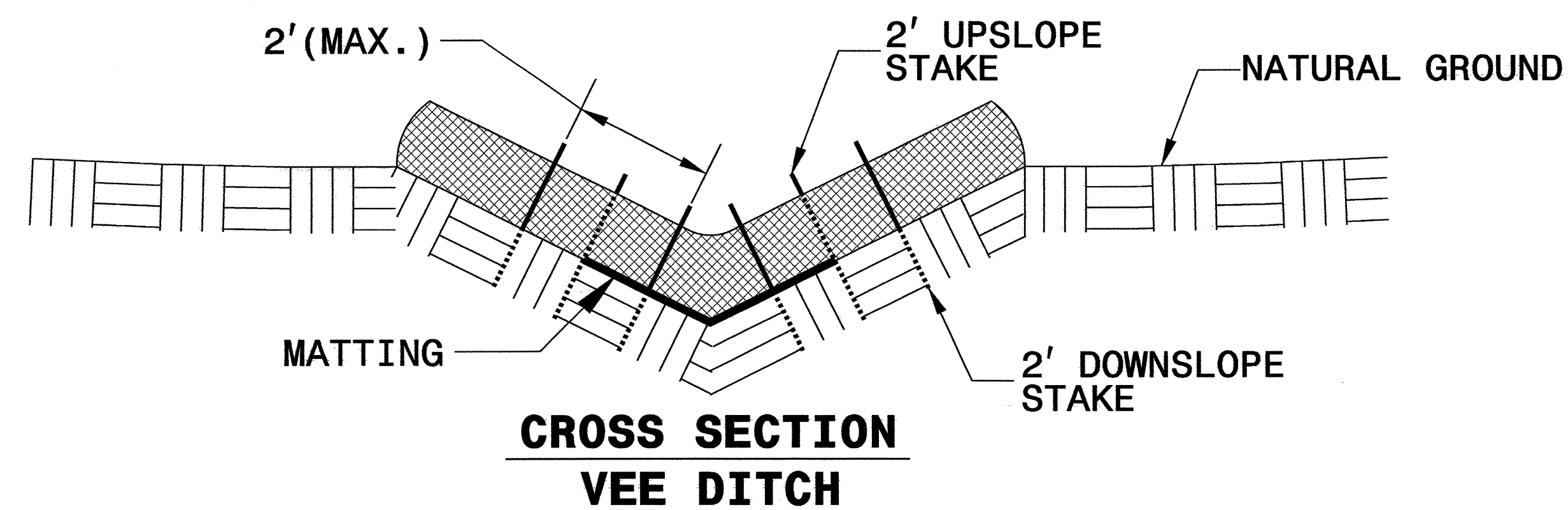
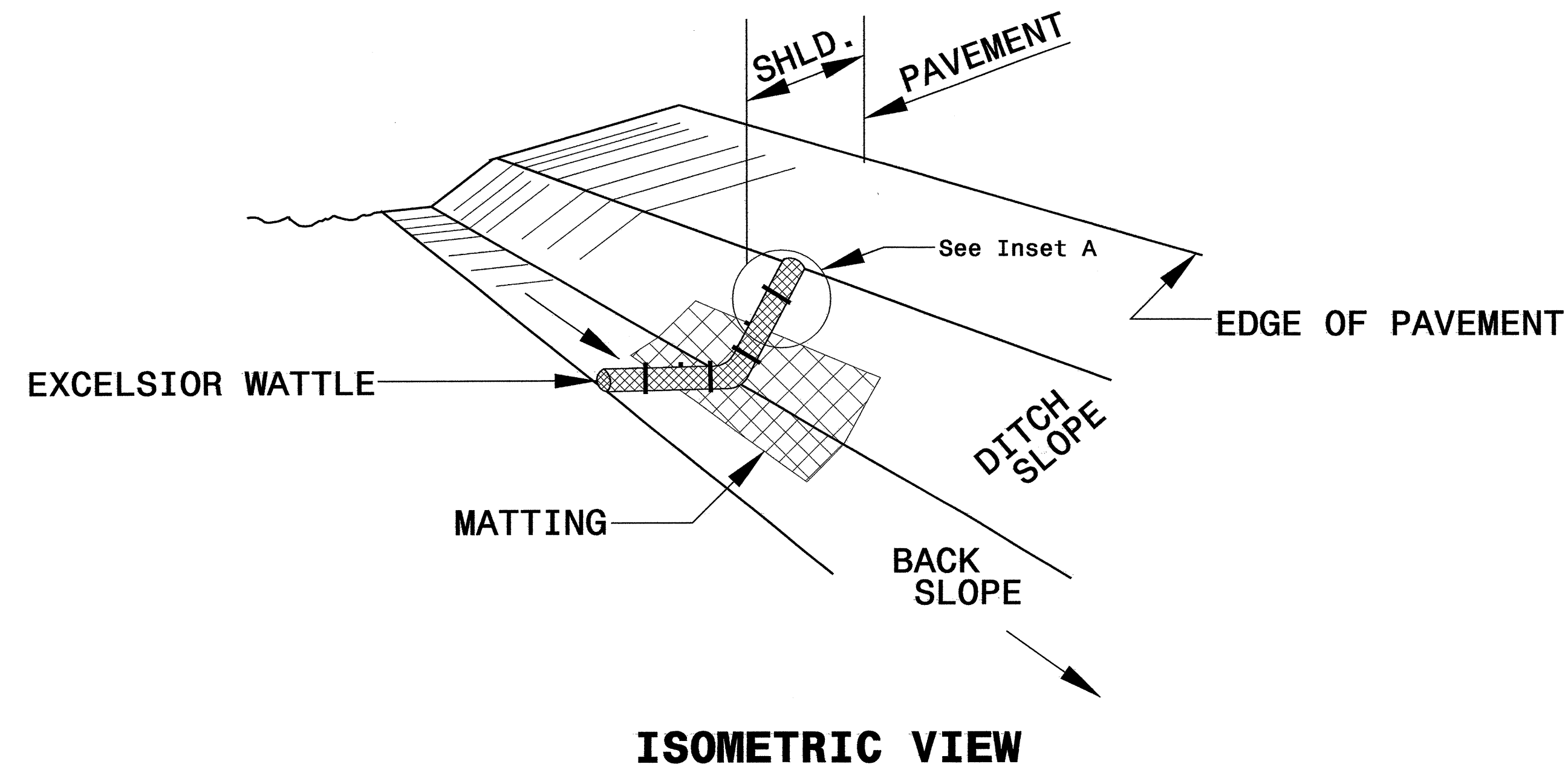


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF  $\frac{1}{4}$  THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF  $\frac{1}{3}$  THE BASIN LENGTH.

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

PROJECT REFERENCE NO. B-4263		SHEET NO. EC-2B	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

# WATTLE WITH POLYACRYLAMIDE DETAIL



**NOTES:**

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. CROSS SECTION.

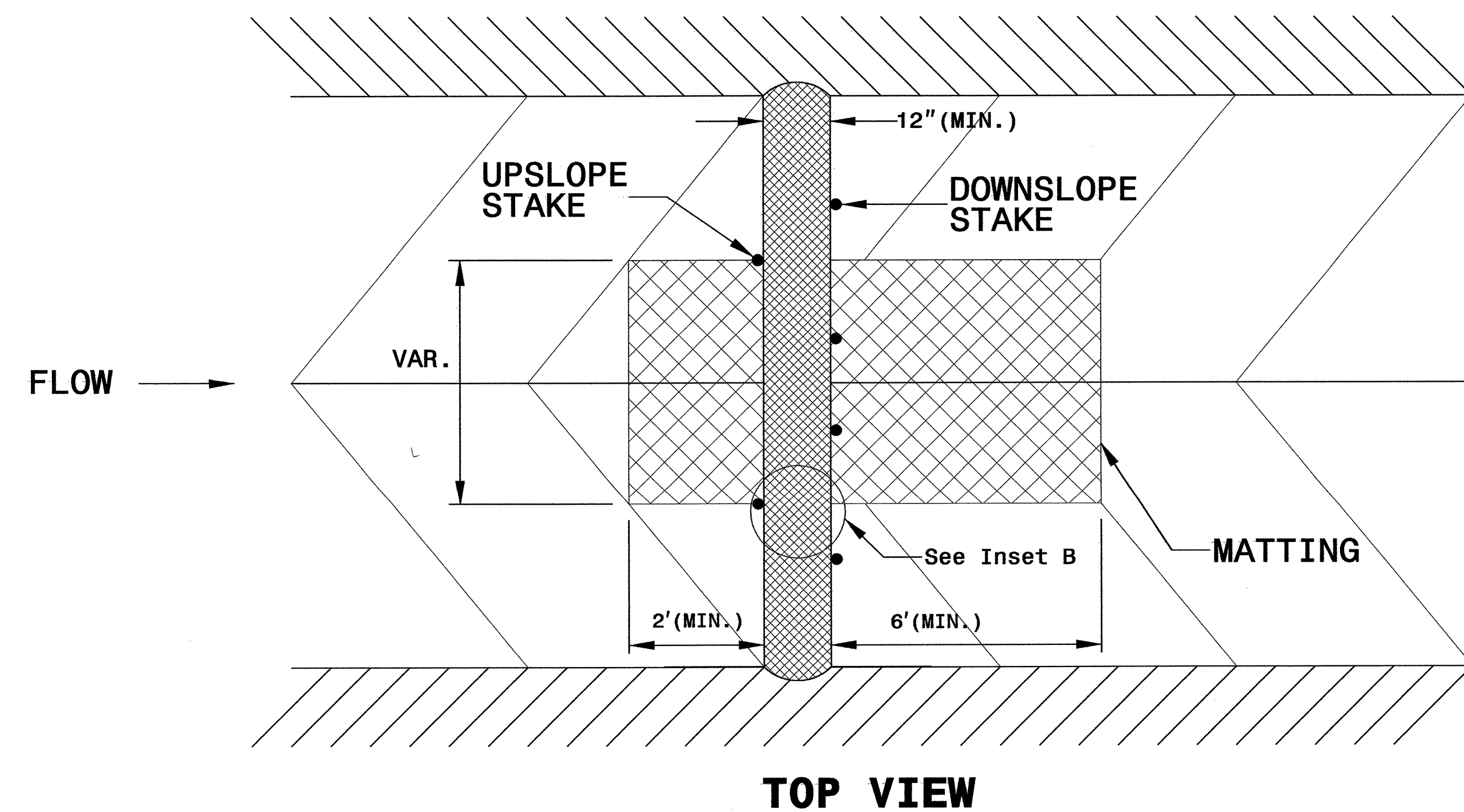
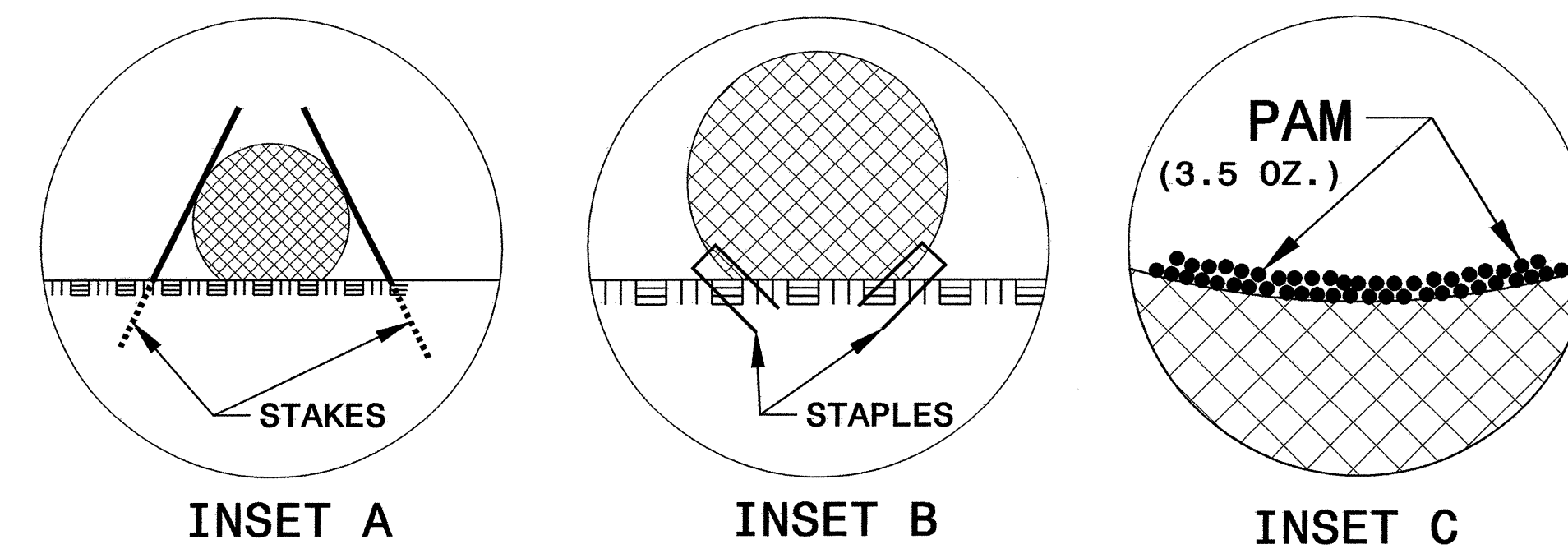
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

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.

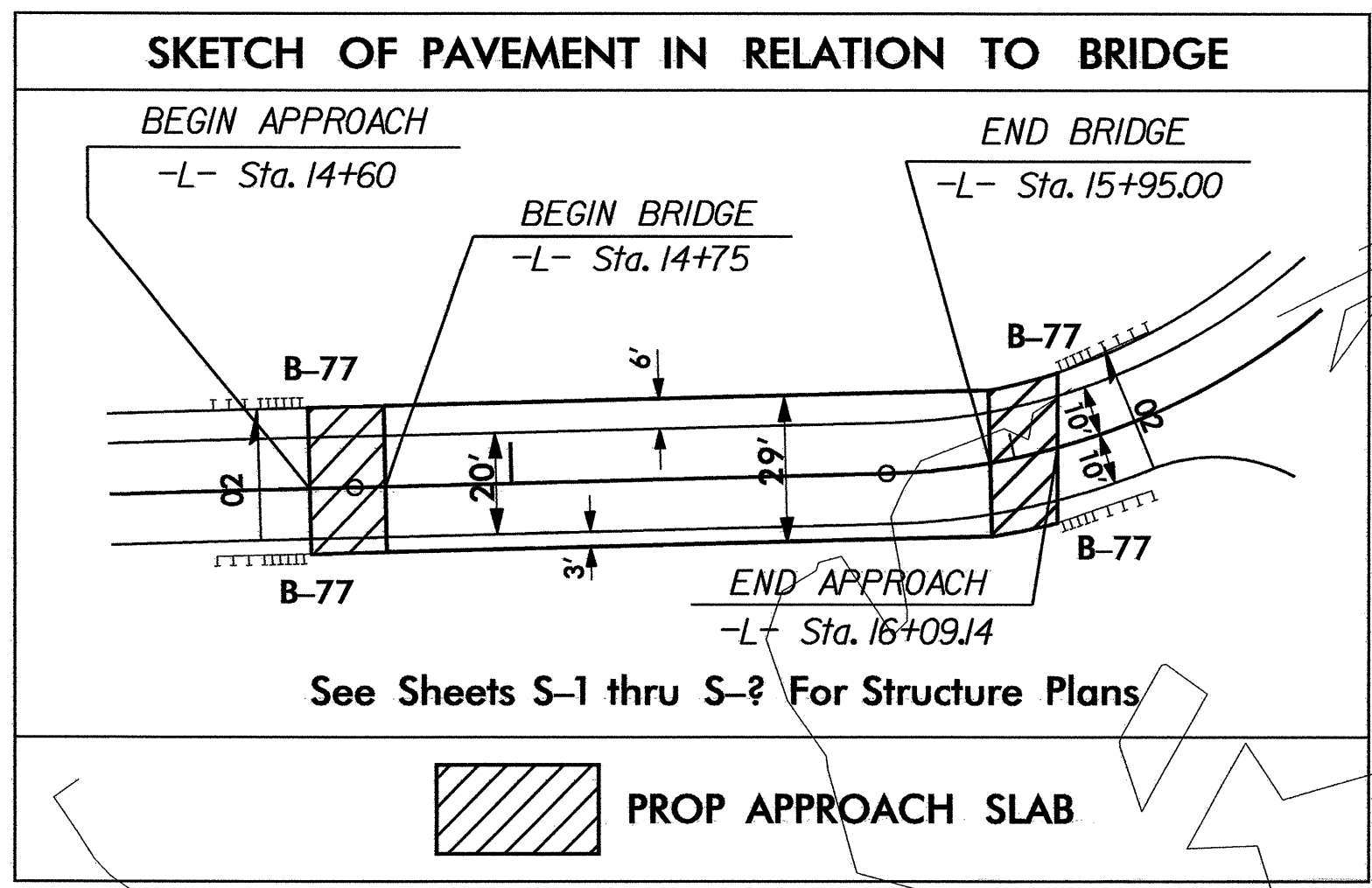
INITIALLY APPLY 3.5 OUNCES OF ANIONIC OR NEUTRALLY CHARGED POLYACRYLAMIDE (PAM) OVER WATTLE WHERE WATER WILL FLOW AND AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.25 IN.



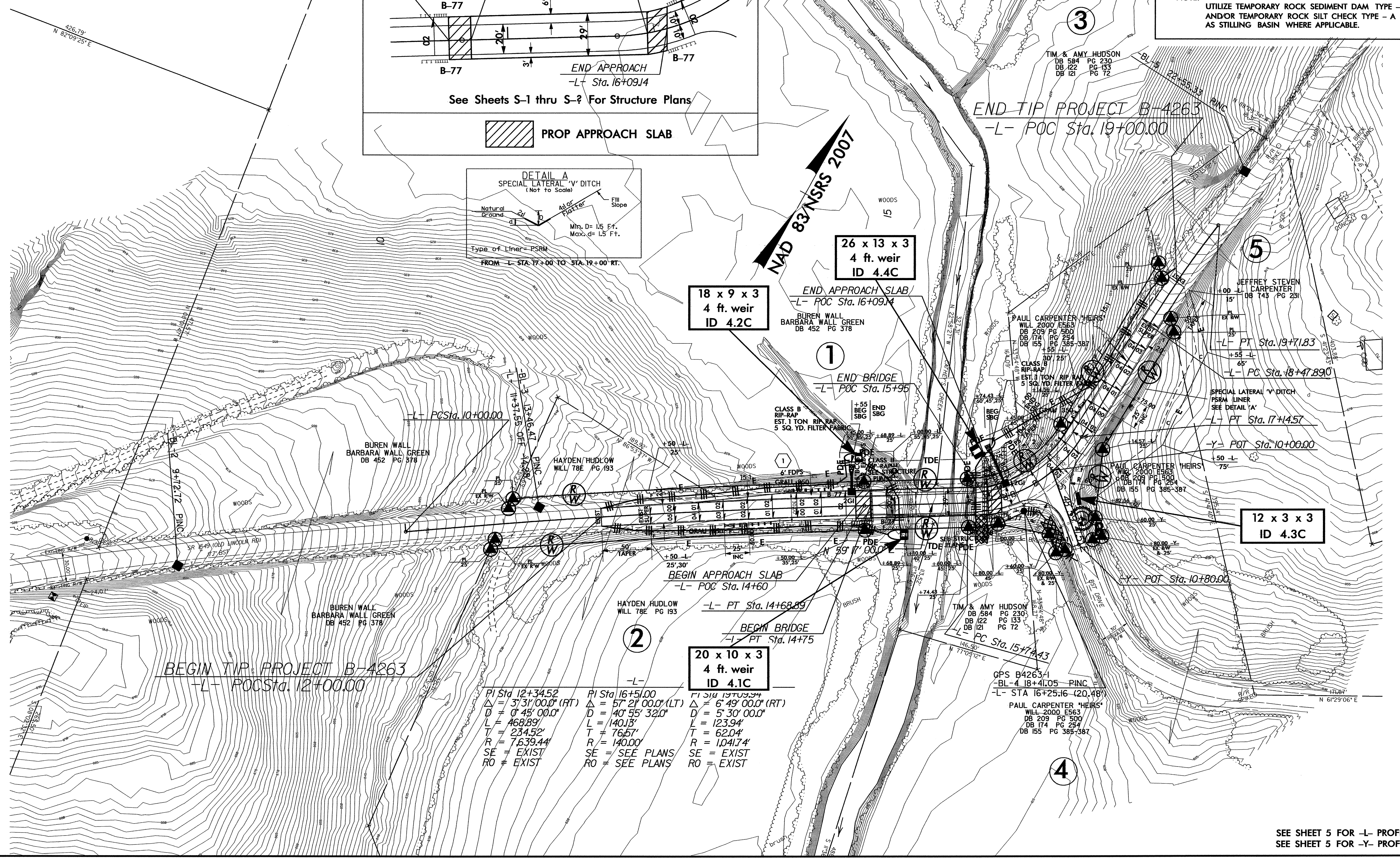
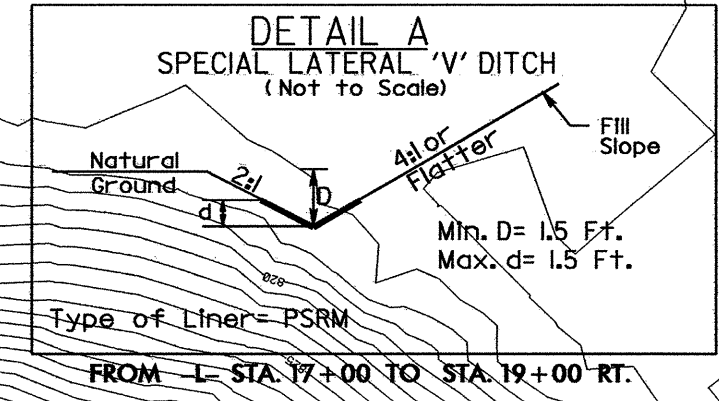
PROJECT REFERENCE NO. B-4263	SHEET NO. EC-3/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



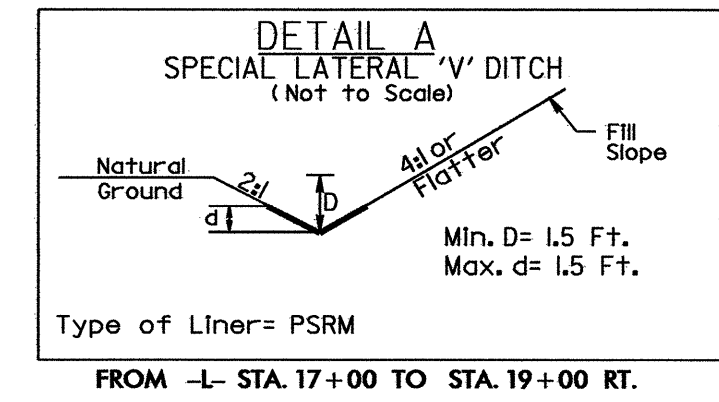
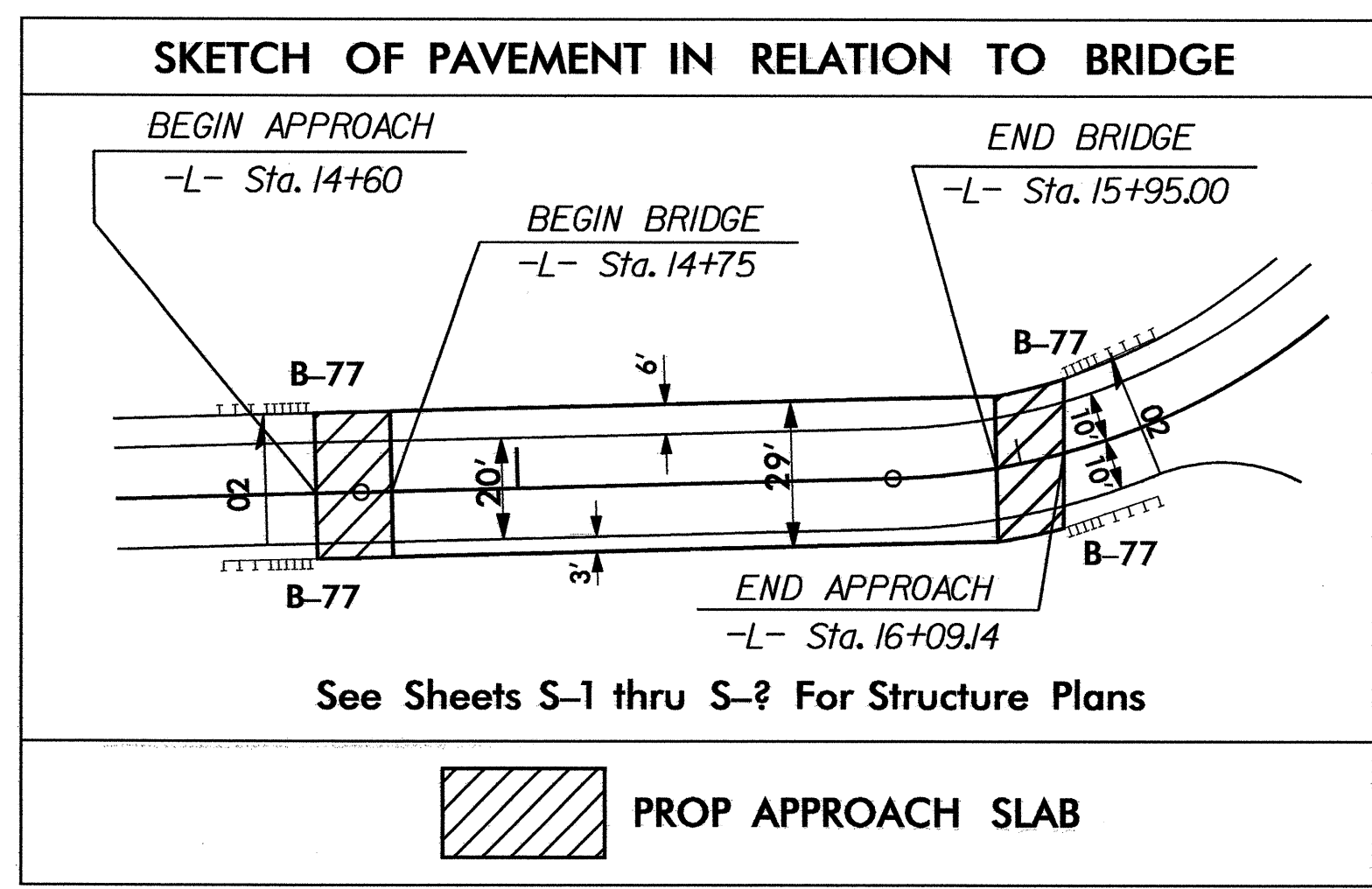
NOTE:  
UTILIZE TEMPORARY ROCK SEDIMENT DAM TYPE - B  
AND/OR TEMPORARY ROCK SILT CHECK TYPE - A  
AS STILLING BASIN WHERE APPLICABLE.



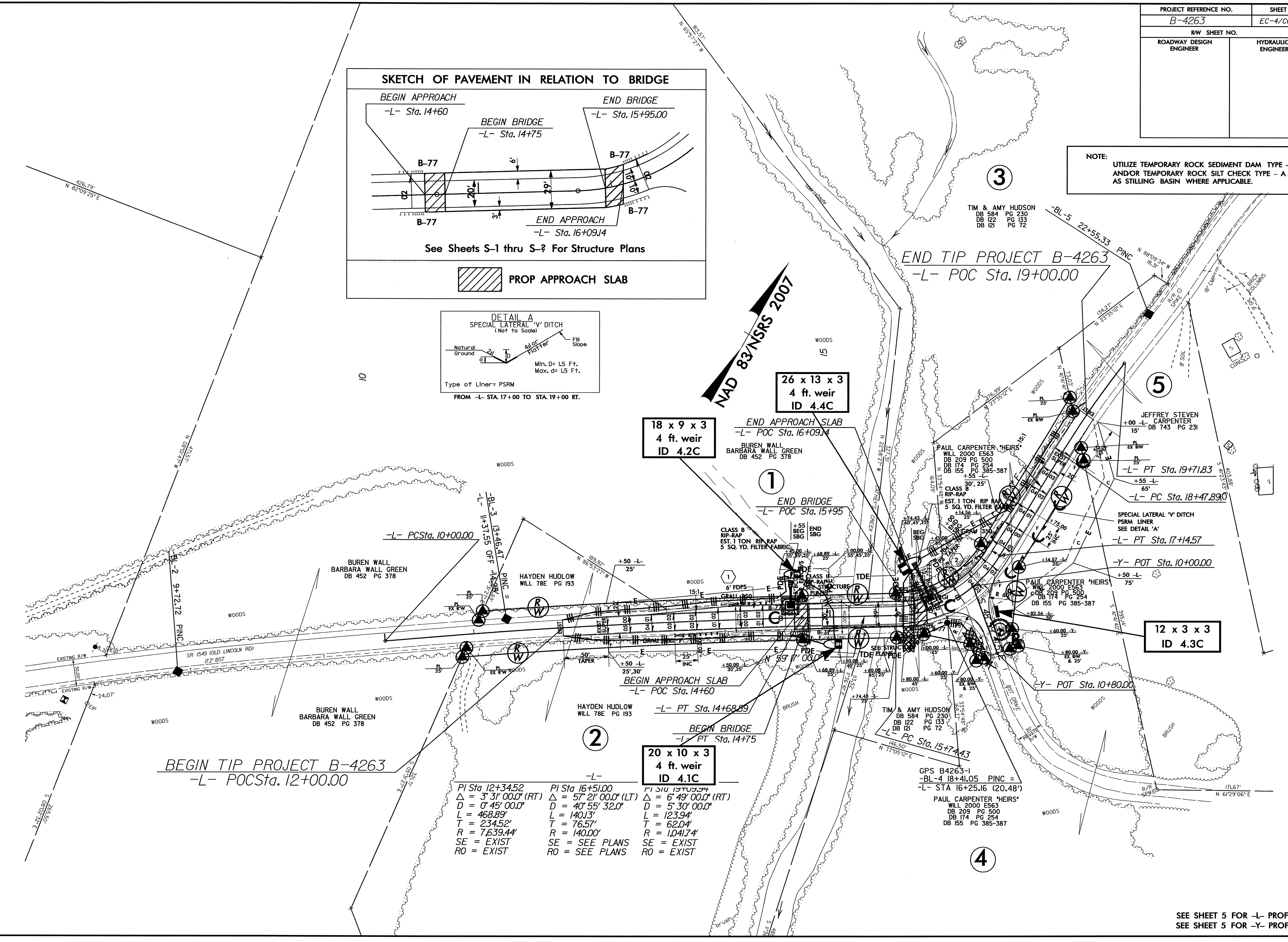
PI Sta 12+34.52 Δ = 3' 31" 00.0" (RT) D = 0' 45" 00.0" L = 468.89' T = 234.52' R = 7,639.44' SE = EXIST RO = EXIST	PI Sta 16+51.00 Δ = 57' 21" 00.0" (LT) D = 40' 55" 32.0" L = 140.13' T = 76.57' R = 140.00' SE = SEE PLANS RO = SEE PLANS	PI Sta 17+09.34 Δ = 6' 49" 00.0" (RT) D = 5' 30" 00.0" L = 123.94' T = 62.04' R = 1,041.74' SE = EXIST RO = EXIST
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SEE SHEET 5 FOR -L- PROFILE  
SEE SHEET 5 FOR -Y- PROFILE

PROJECT REFERENCE NO. B-4263	SHEET NO. EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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



PI Sta 12+34.52 Δ = 3° 31' 00.0" (RT) D = 0° 45' 00.0" L = 468.89' T = 234.52' R = 7,639.44' SE = EXIST RO = EXIST	PI Sta 16+51.00 Δ = 5° 21' 00.0" (LT) D = 40° 55' 32.0" L = 140.13' T = 76.57' R = 140.00' SE = SEE PLANS RO = SEE PLANS	PI Sta 19+09.34 Δ = 6° 49' 00.0" (RT) D = 5° 30' 00.0" L = 123.94' T = 62.04' R = 1,041.74' SE = EXIST RO = EXIST
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BEGIN TIP PROJECT B-4263  
-L- POC Sta. 12+00.00

SEE SHEET 5 FOR -L- PROFILE  
SEE SHEET 5 FOR -Y- PROFILE