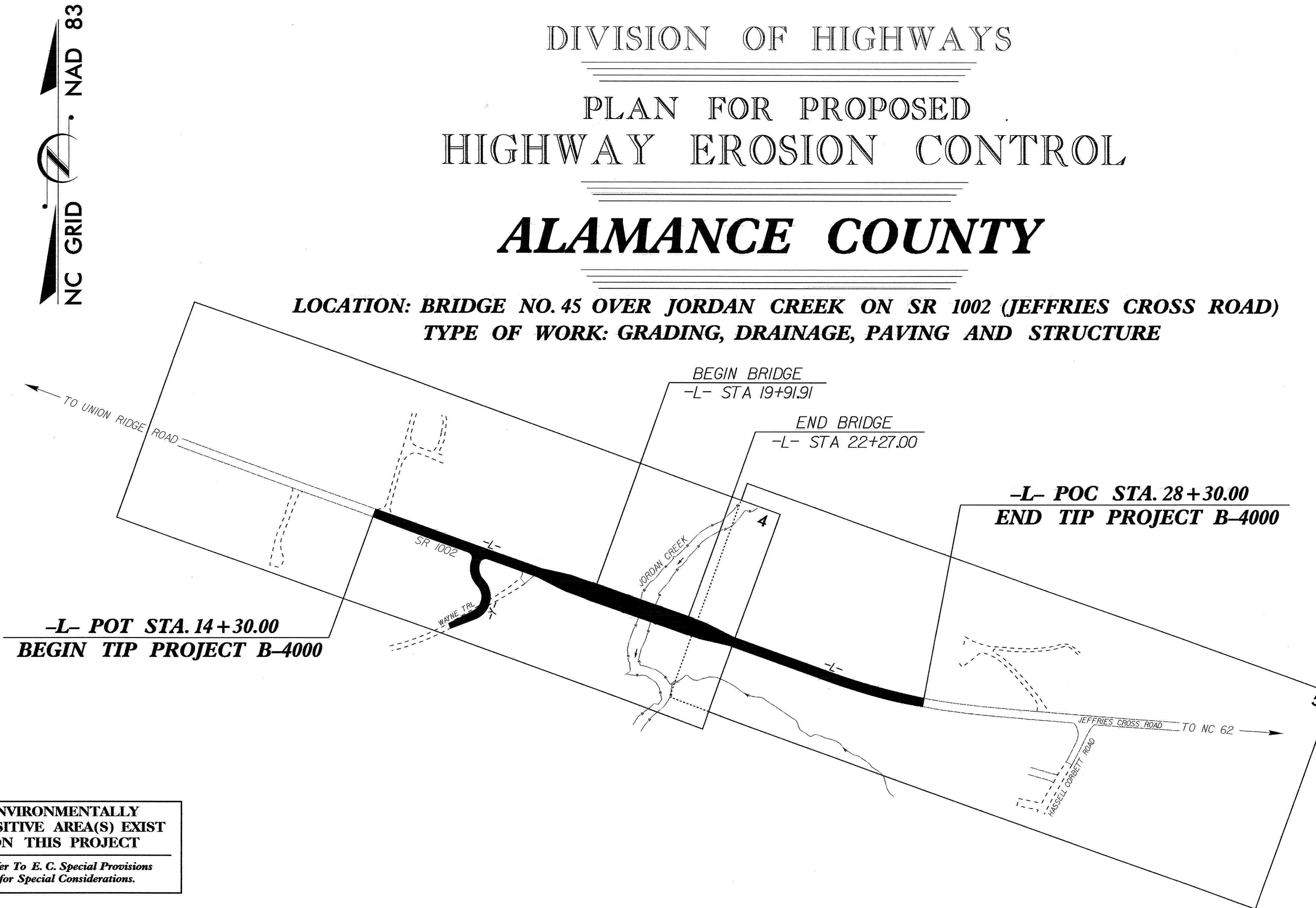


**TIP PROJECT: B-4000**

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

**LOCATION: BRIDGE NO. 45 OVER JORDAN CREEK ON SR 1002 (JEFFRIES CROSS ROAD)**  
**TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE**



**ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT**  
 Refer To E. C. Special Provisions for Special Considerations.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4000	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

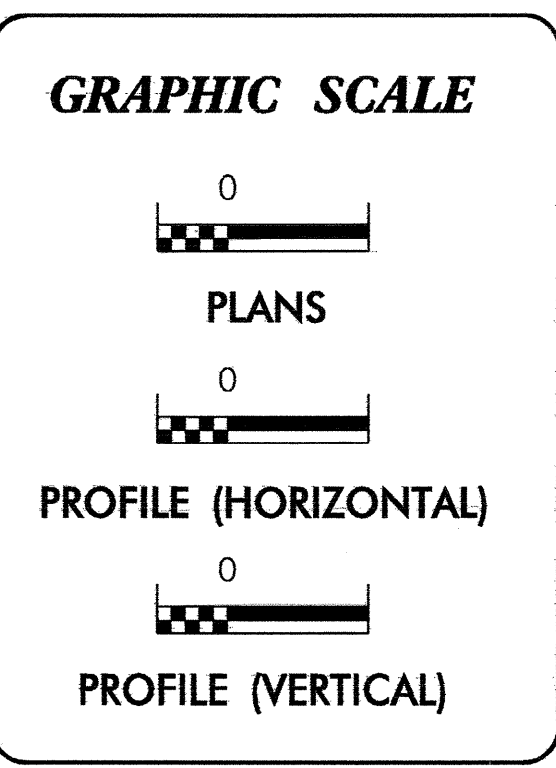
**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
	Streambank Reforestation	
1630.03	Temporary Silt Ditch	
1630.05	Temporary Diversion	
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.01	Riser Basin	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-B	
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	

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

**THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.**

**HIGH QUALITY WATER(S) EXIST ON THIS PROJECT**  
 High Quality Water Zone(s) Exist From Sta. \_\_\_\_\_ Begin Project to Sta. \_\_\_\_\_ End Project  
 Refer To E. C. Special Provisions for Special Considerations.



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**

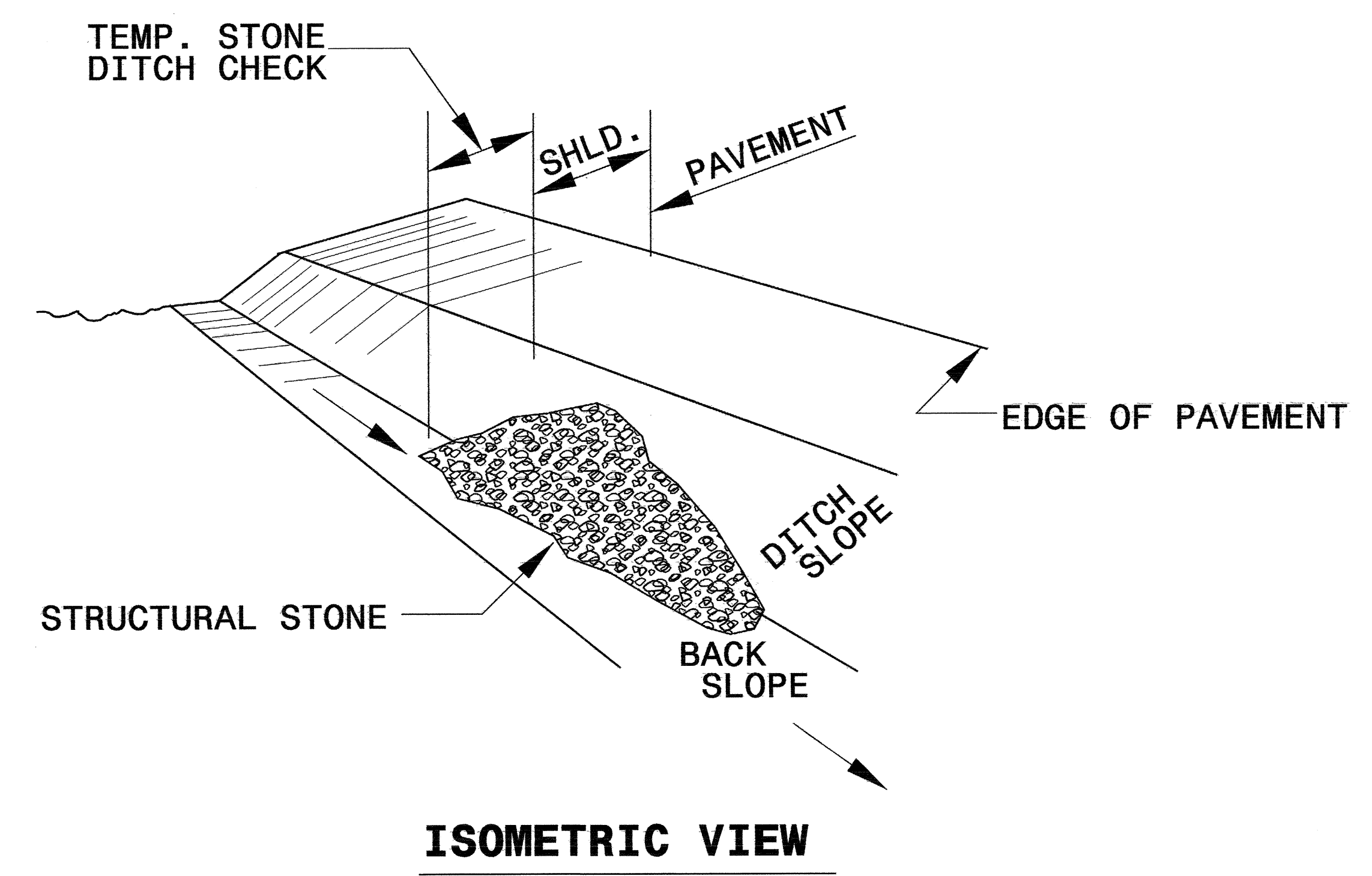
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1633.01 Temporary Rock Silt Check Type A
1607.01 Gravel Construction Entrance	1635.02 Rock Pipe Inlet Sediment Trap Type B
1622.01 Temporary Berms and Slope Drains	
1630.02 Silt Basin Type B	
1630.03 Temporary Silt Ditch	
1630.05 Temporary Diversion	

05-MAR-2007 15:58 c:\projects\2006\2006\1630\1630.dwg:sh.ec.dgn

PROJECT REFERENCE NO. B-4000	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

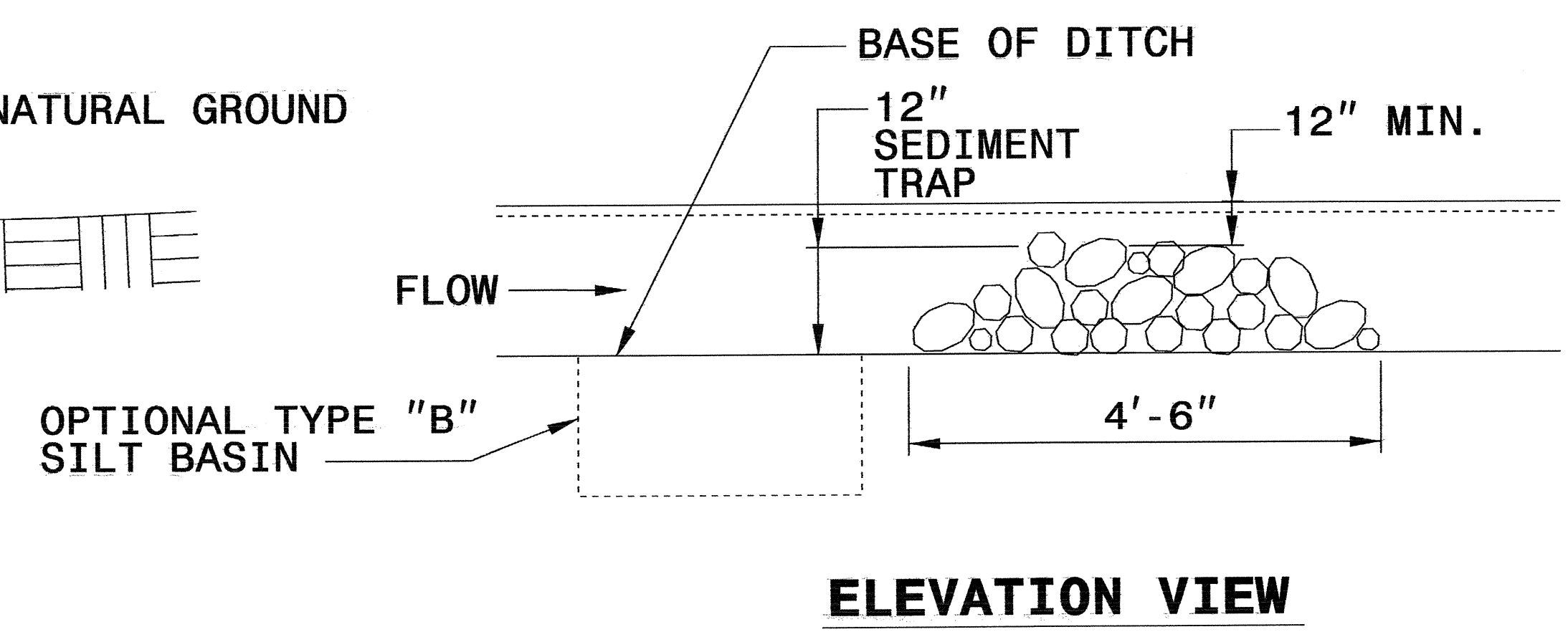
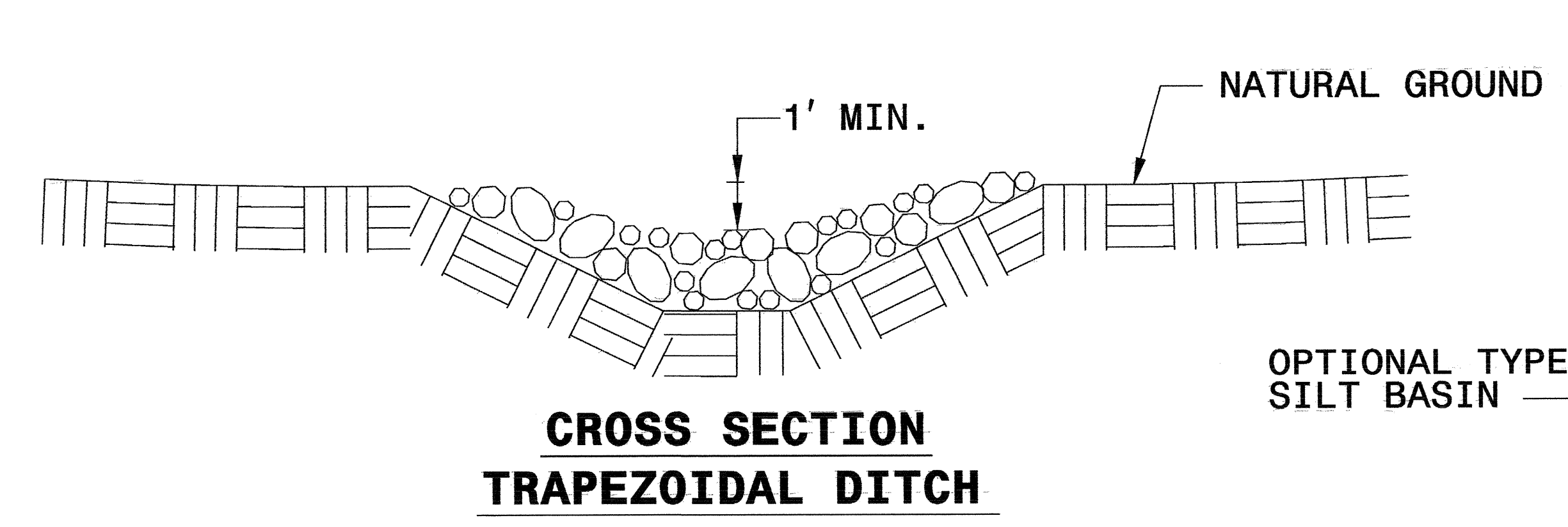
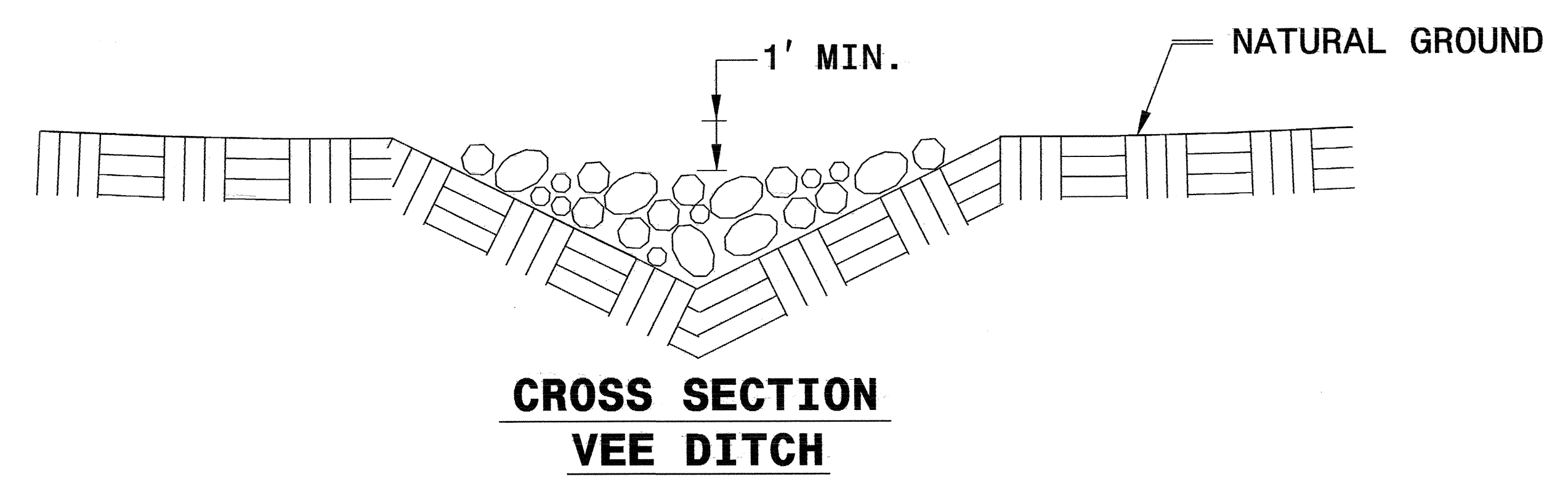
# TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL



**NOTES:**

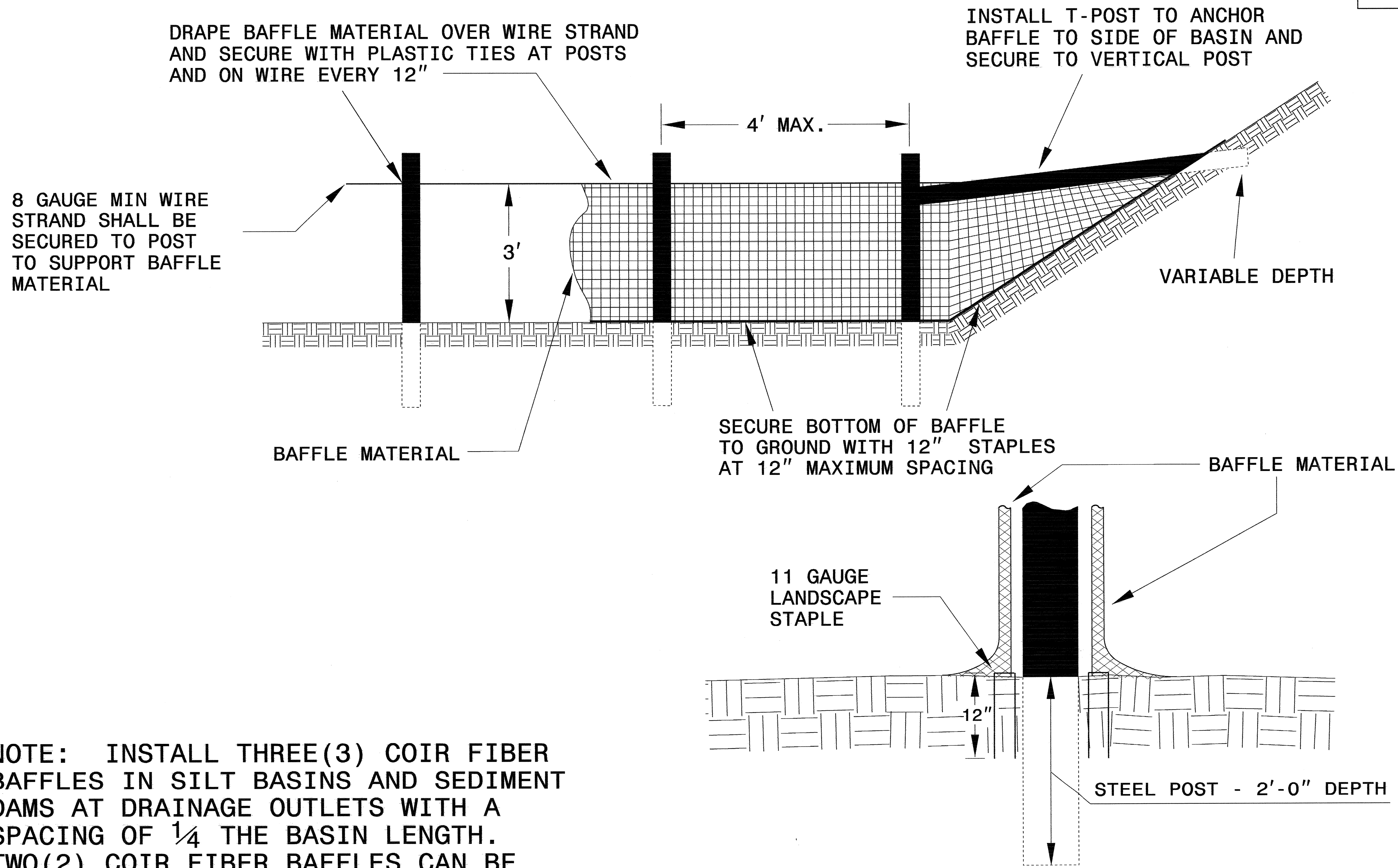
USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



PROJECT REFERENCE NO. B-4000	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# COIR FIBER BAFFLE DETAIL

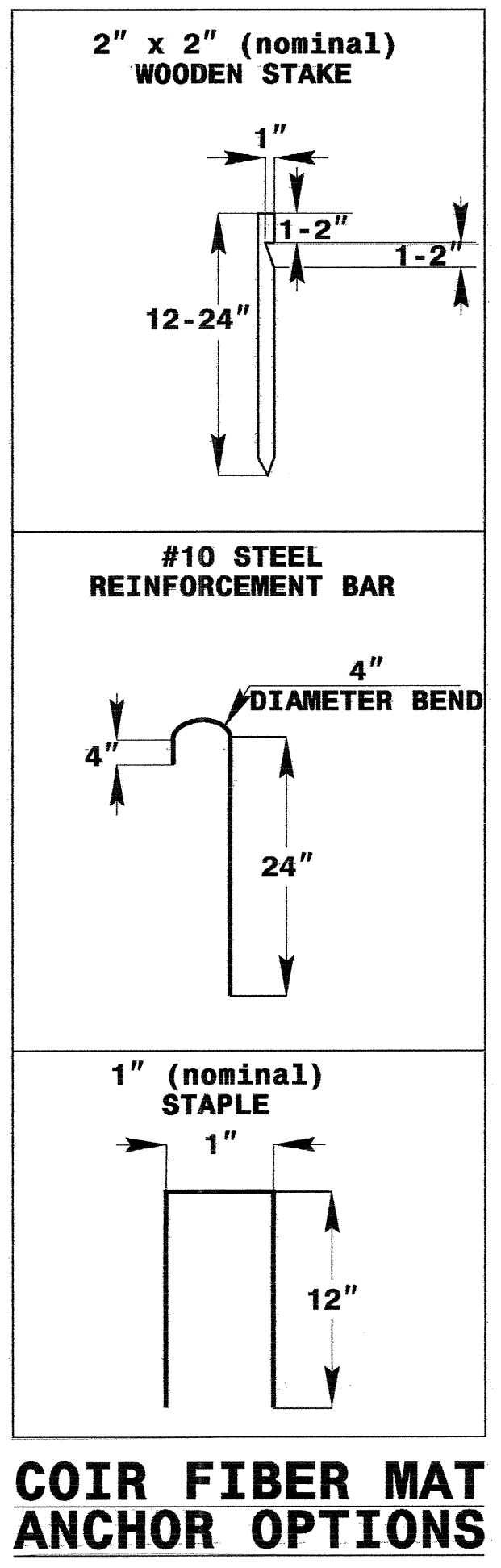
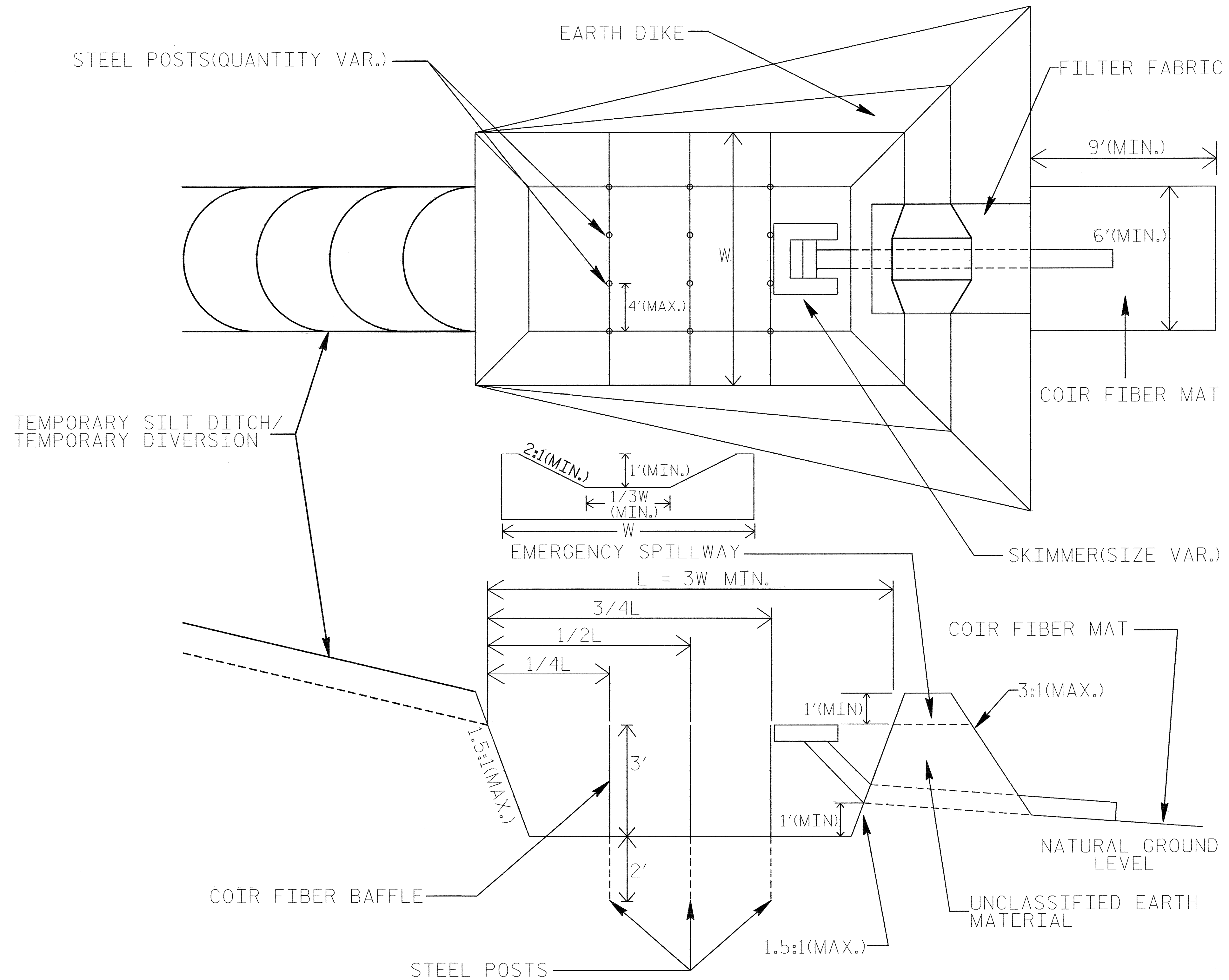


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF  $\frac{1}{4}$  THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF  $\frac{1}{3}$  THE BASIN LENGTH.

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

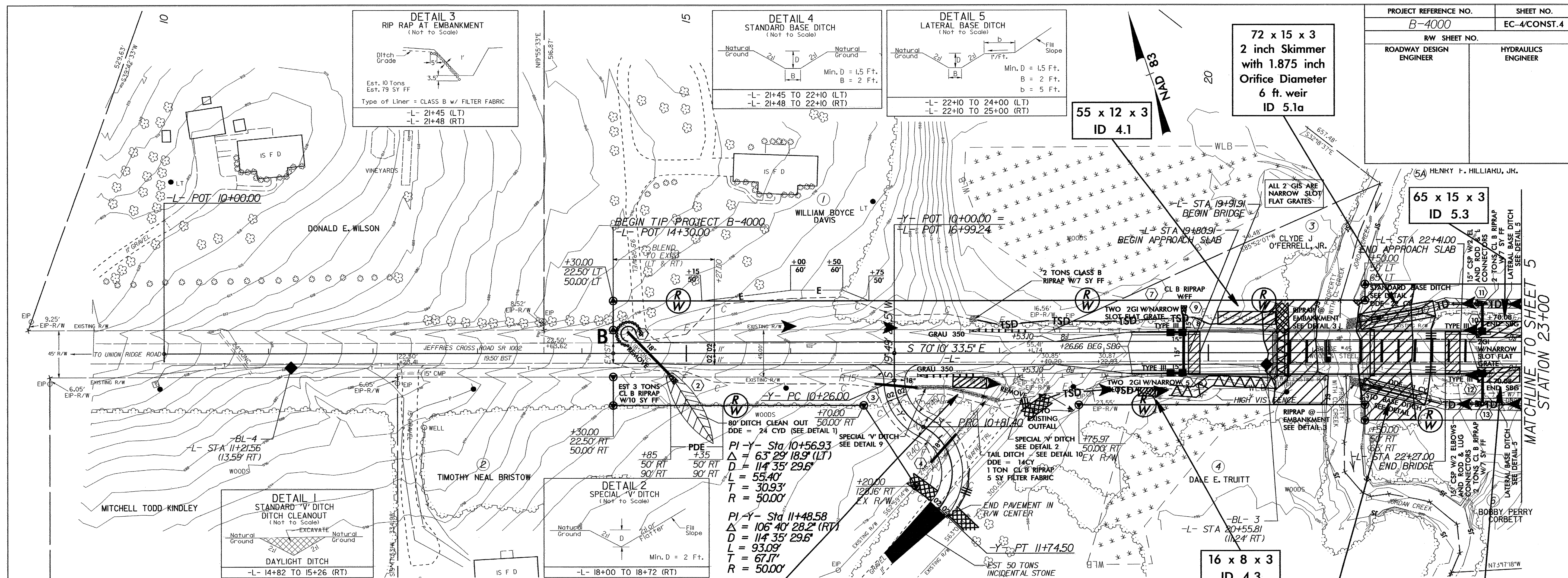
# SKIMMER BASIN WITH BAFFLES DETAIL

PROJECT REFERENCE NO. B-4000	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER





PROJECT REFERENCE NO. B-4000	SHEET NO. EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

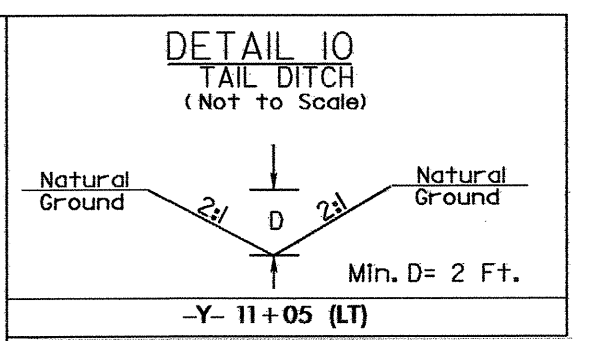
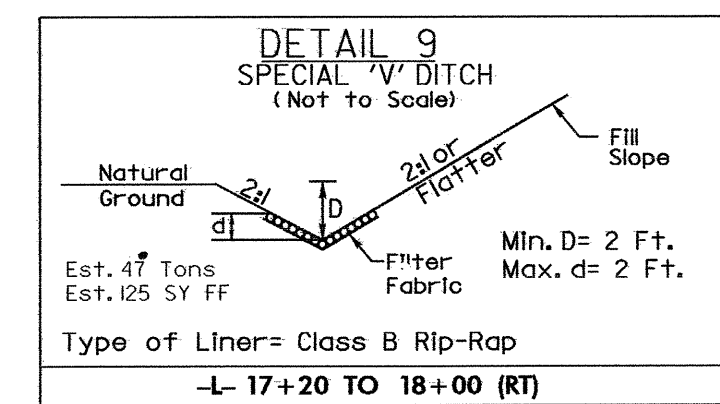
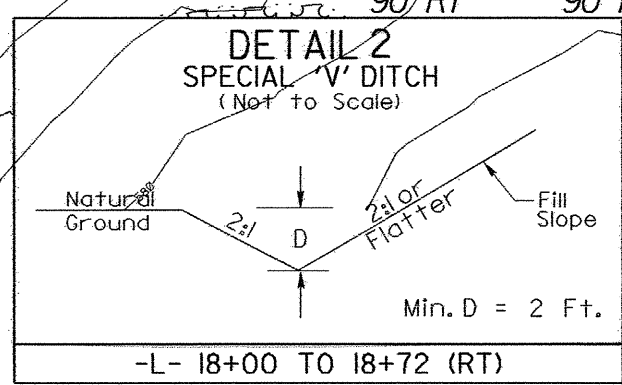
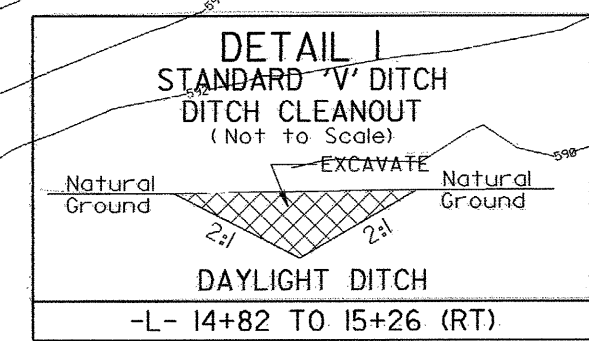
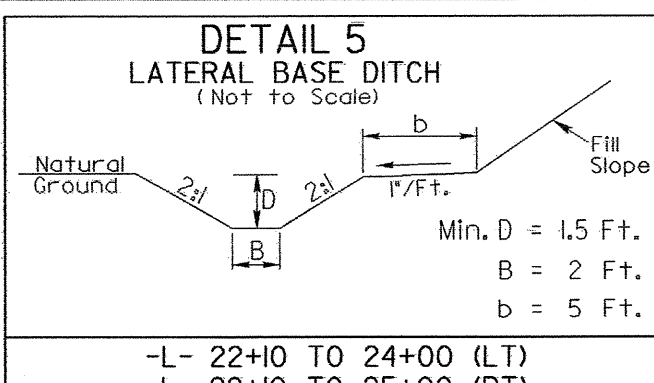
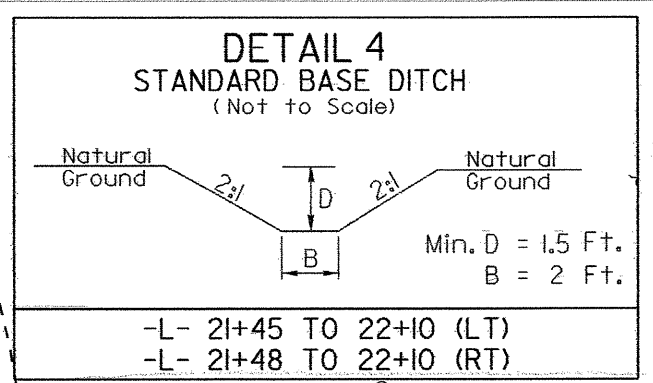
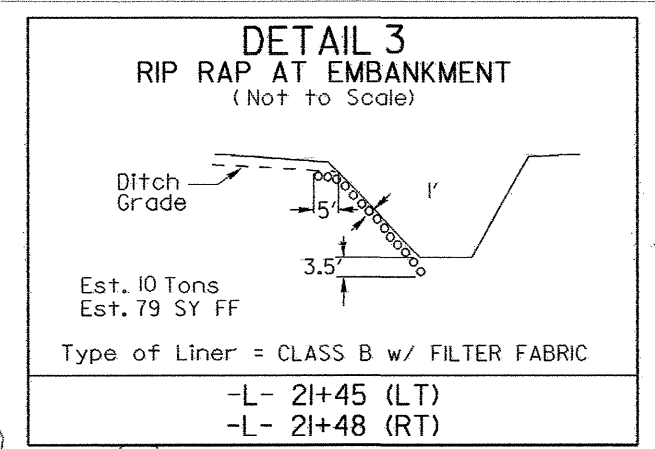


**NOTE:**  
UTILIZE SILT BASIN TYPE - B AND/OR SKIMMER BASIN AS STILLING BASIN WHERE APPLICABLE.

**CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4**

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

 ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS



32 x 10 x 3  
ID 4.2

16 x 8 x 3  
ID 4.3

62 x 12 x 3  
2 inch Skimmer  
with 1.5 inch  
Orifice Diameter  
6 ft. weir  
ID 5.2

40 x 14 x 3  
ID 5.1

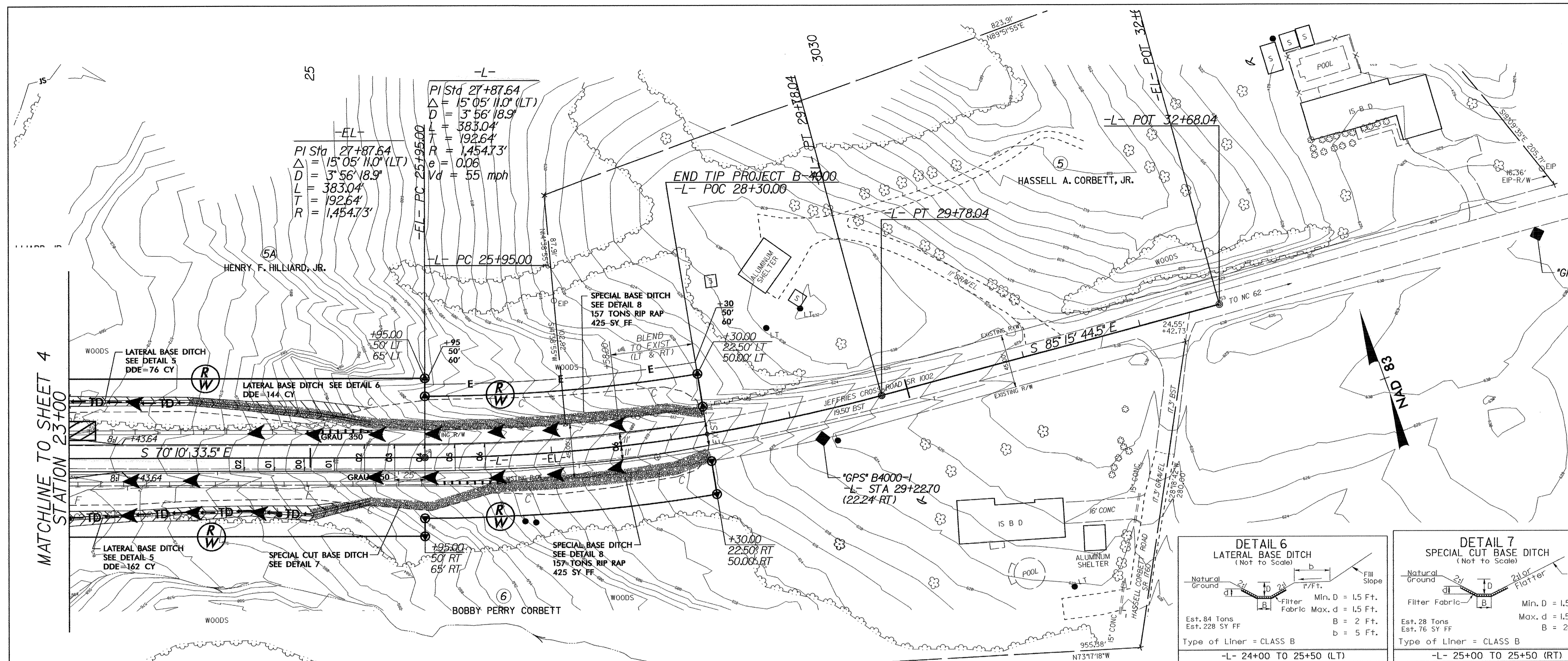
55 x 12 x 3  
ID 4.1

72 x 15 x 3  
2 inch Skimmer  
with 1.875 inch  
Orifice Diameter  
6 ft. weir  
ID 5.1a

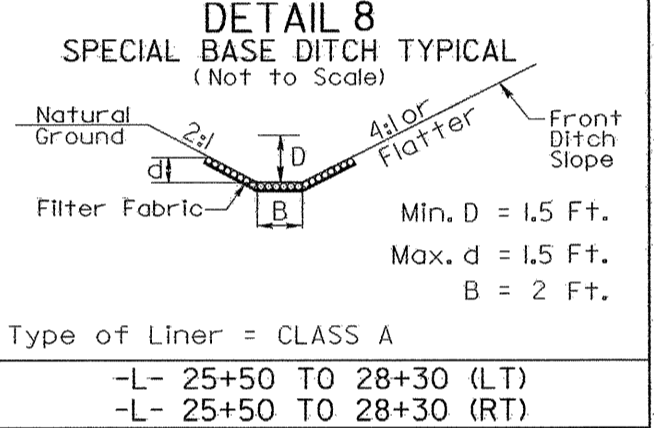
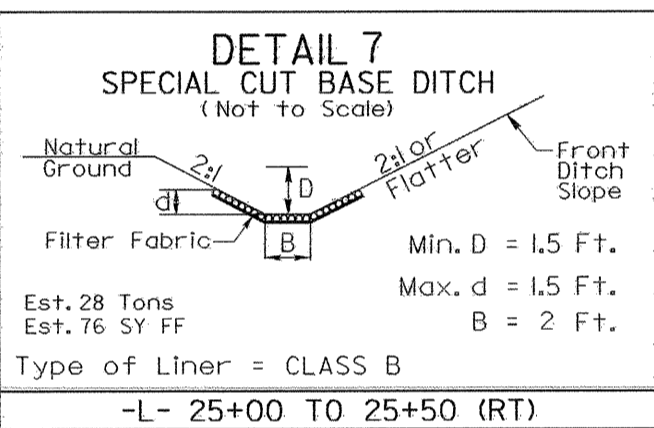
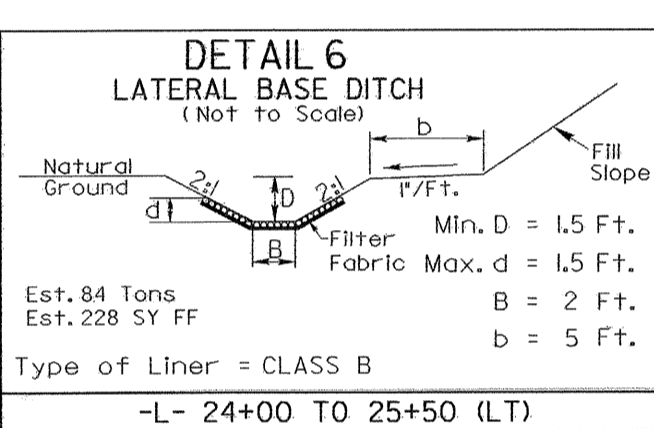
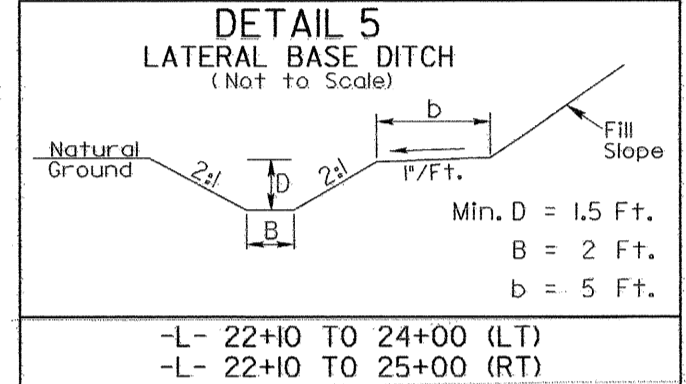
65 x 15 x 3  
ID 5.3

MATCHLINE TO SHEET 5  
STATION 23+00

PROJECT REFERENCE NO.	SHEET NO.
B-4000	EC-5/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



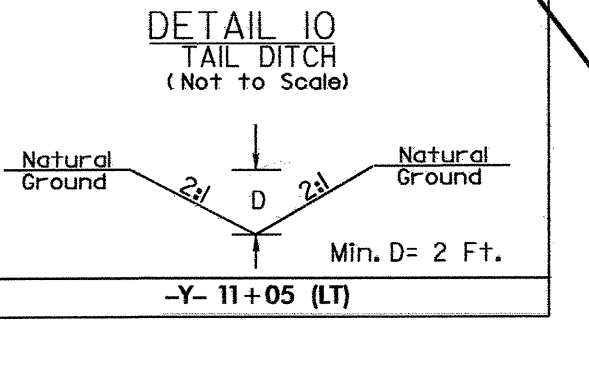
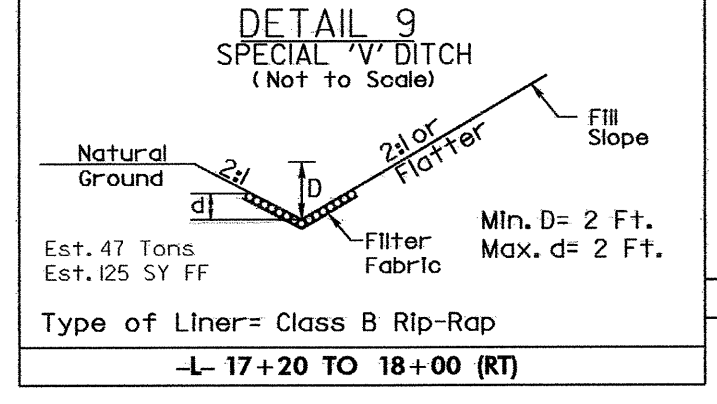
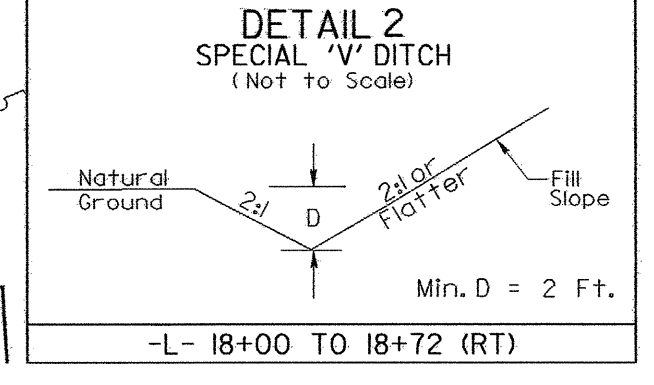
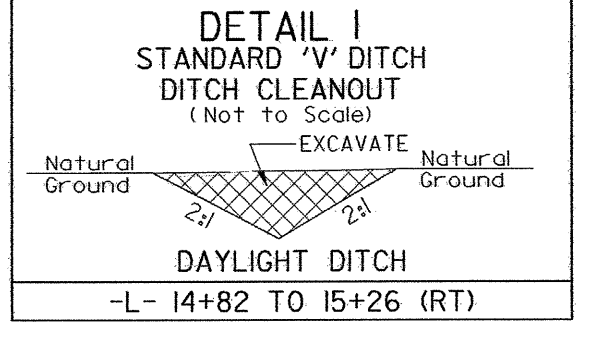
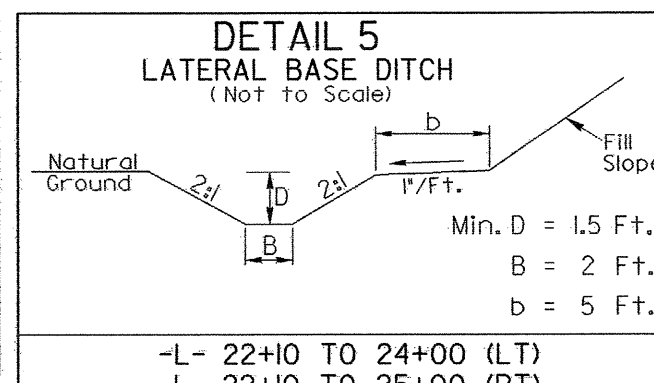
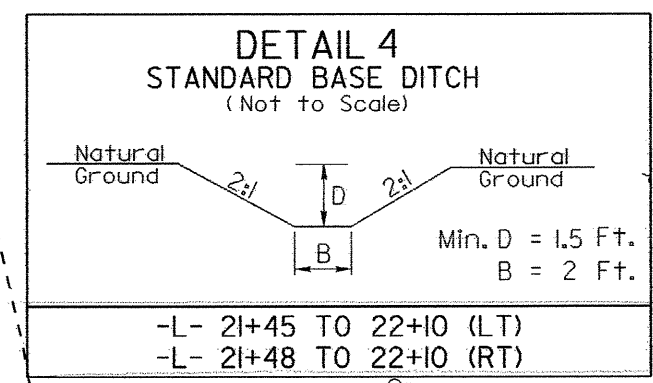
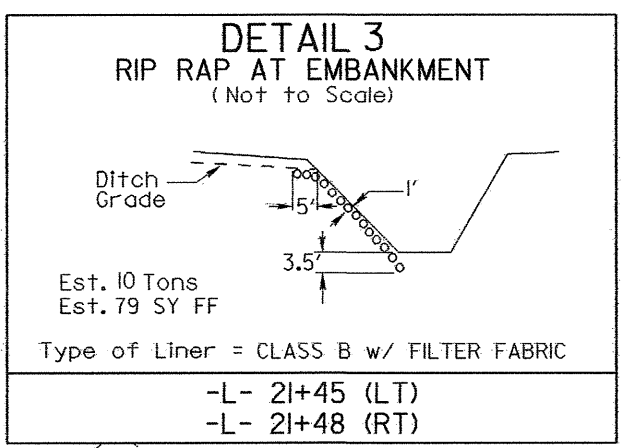
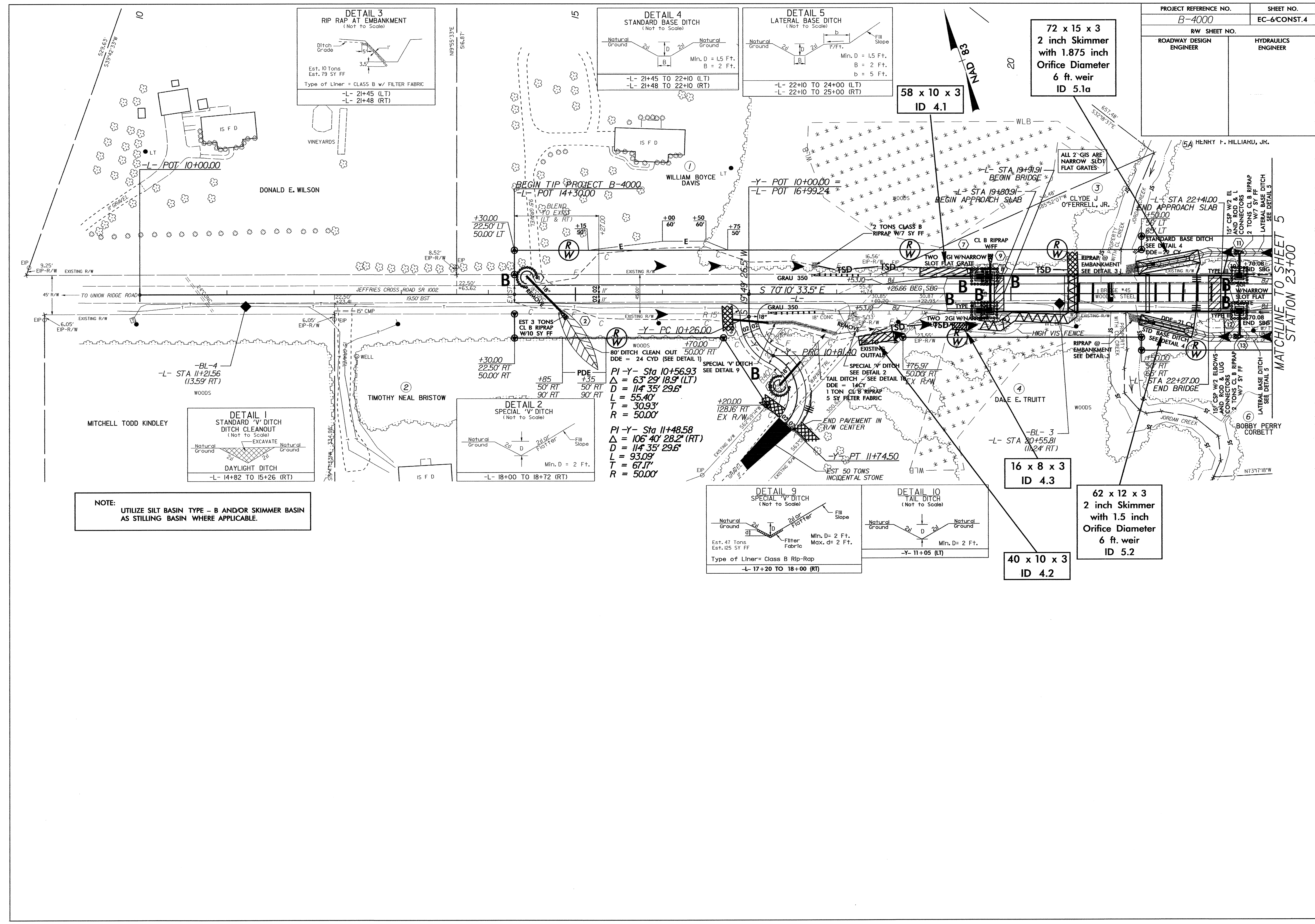
MATCHLINE TO SHEET 4  
STATION 23+00



CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 5

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

PROJECT REFERENCE NO. <i>B-4000</i>	SHEET NO. EC-6/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**NOTE:**  
UTILIZE SILT BASIN TYPE - B AND/OR SKIMMER BASIN AS STILLING BASIN WHERE APPLICABLE.

58 x 10 x 3  
ID 4.1

72 x 15 x 3  
2 inch Skimmer  
with 1.875 inch  
Orifice Diameter  
6 ft. weir  
ID 5.1a

16 x 8 x 3  
ID 4.3

40 x 10 x 3  
ID 4.2

62 x 12 x 3  
2 inch Skimmer  
with 1.5 inch  
Orifice Diameter  
6 ft. weir  
ID 5.2

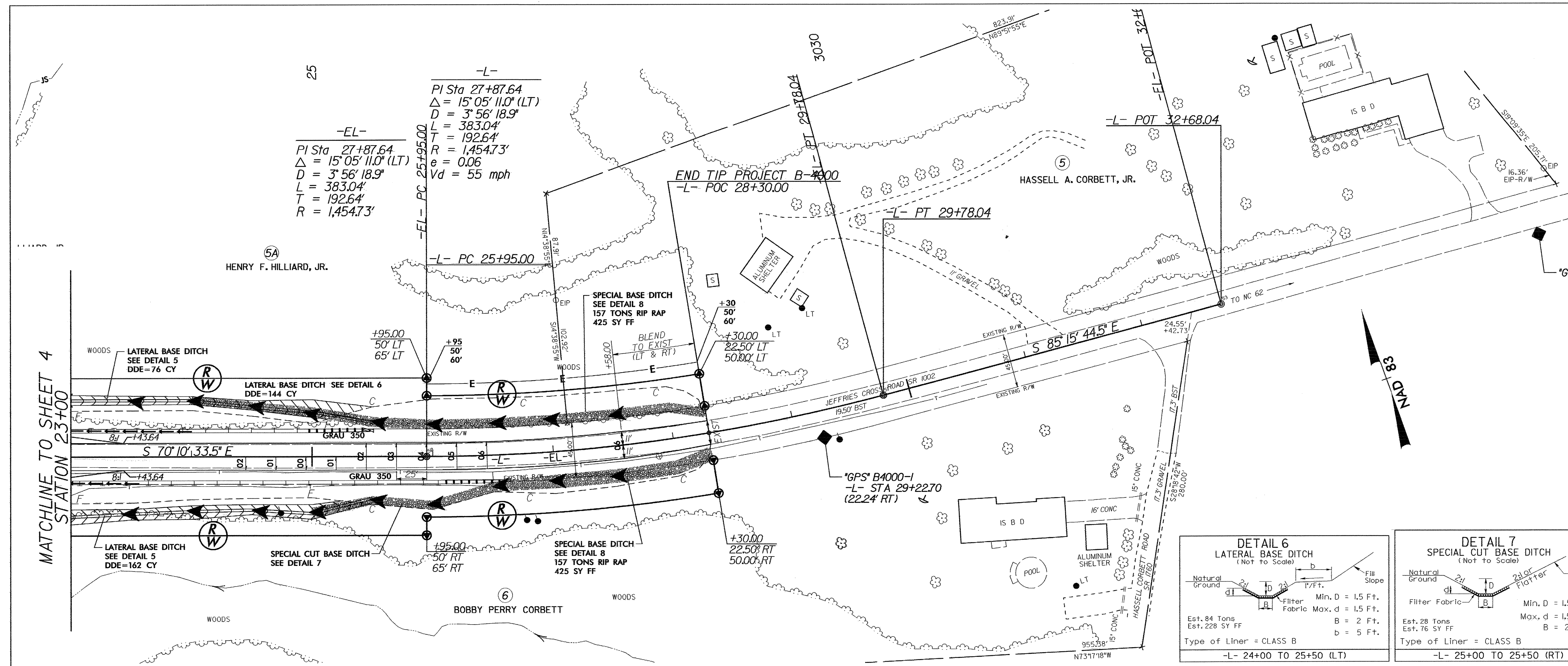
**PI -Y- Sta 10+56.93**  
 $\Delta = 63^{\circ} 29' 18.9" (LT)$   
 $D = 114' 35" 29.6"$   
 $L = 55.40'$   
 $T = 30.93'$   
 $R = 50.00'$

**PI -Y- Sta 11+48.58**  
 $\Delta = 106^{\circ} 40' 28.2" (RT)$   
 $D = 114' 35" 29.6"$   
 $L = 93.09'$   
 $T = 67.17'$   
 $R = 50.00'$

MATCHLINE TO SHEET 5  
STATION 23+00



PROJECT REFERENCE NO.	SHEET NO.
B-4000	EC-7/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE TO SHEET 4  
STATION 23+00

-L-  
 PI Sta 27+87.64  
 $\Delta = 15^{\circ}05'11.0"$  (LT)  
 $D = 3^{\circ}56'18.9"$   
 $L = 383.04'$   
 $T = 192.64'$   
 $R = 1,454.73'$   
 $e = 0.06$   
 $Vd = 55$  mph

-EL-  
 PI Sta 27+87.64  
 $\Delta = 15^{\circ}05'11.0"$  (LT)  
 $D = 3^{\circ}56'18.9"$   
 $L = 383.04'$   
 $T = 192.64'$   
 $R = 1,454.73'$

