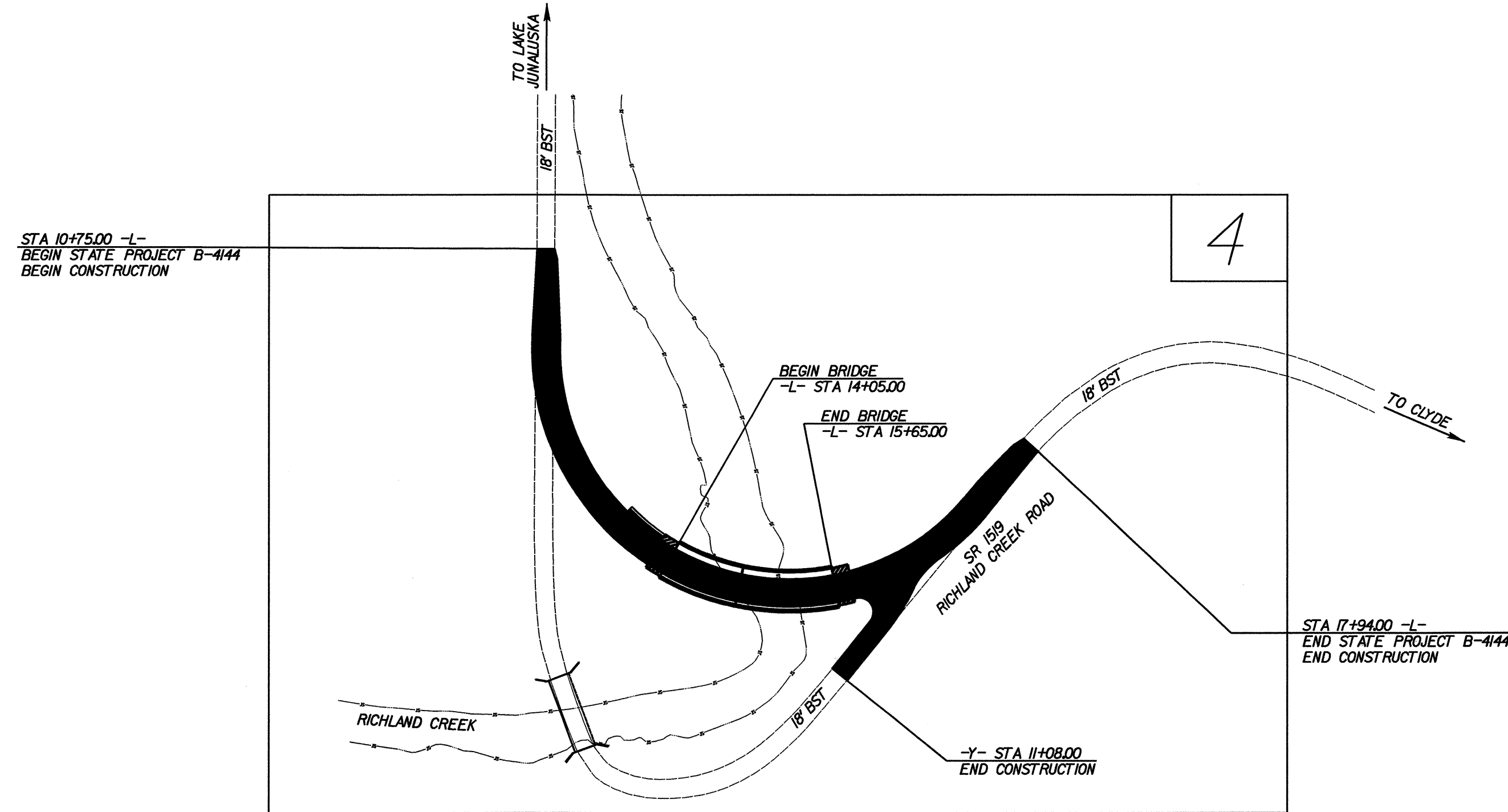
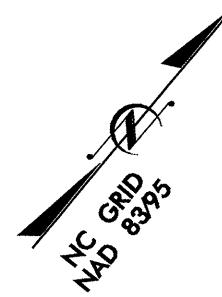


**TIP PROJECT: B-4144**

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

**LOCATION: BRIDGE NO. 211 OVER RICHLAND CREEK  
 ON SR 1519 (RICHLAND CREEK ROAD)**  
**TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE**



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4144	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.**

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

**GRAPHIC SCALE**

0  
  
**PLANS**

0  
  
**PROFILE (HORIZONTAL)**

0  
  
**PROFILE (VERTICAL)**

**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**

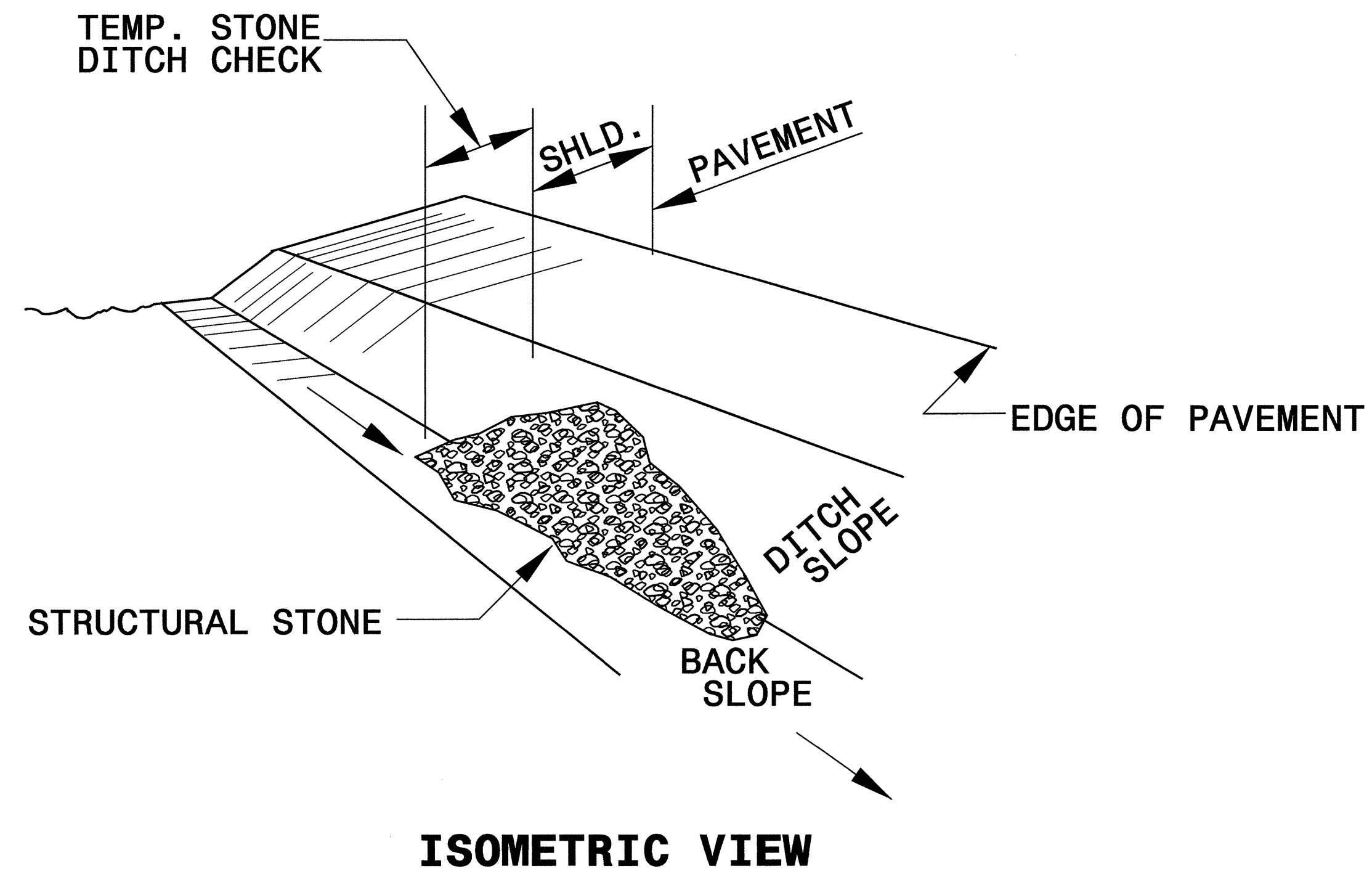
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1630.06 Special Stilling Basin
1607.01 Gravel Construction Entrance	1632.03 Rock Inlet Sediment Trap Type C
1622.01 Temporary Berms and Slope Drains	1633.01 Temporary Rock Silt Check Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.05 Temporary Diversion	1635.01 Rock Pipe Inlet Sediment Trap Type A

26 SEP 2007 14:07  
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PROJECT REFERENCE NO. B-4144	SHEET NO. EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

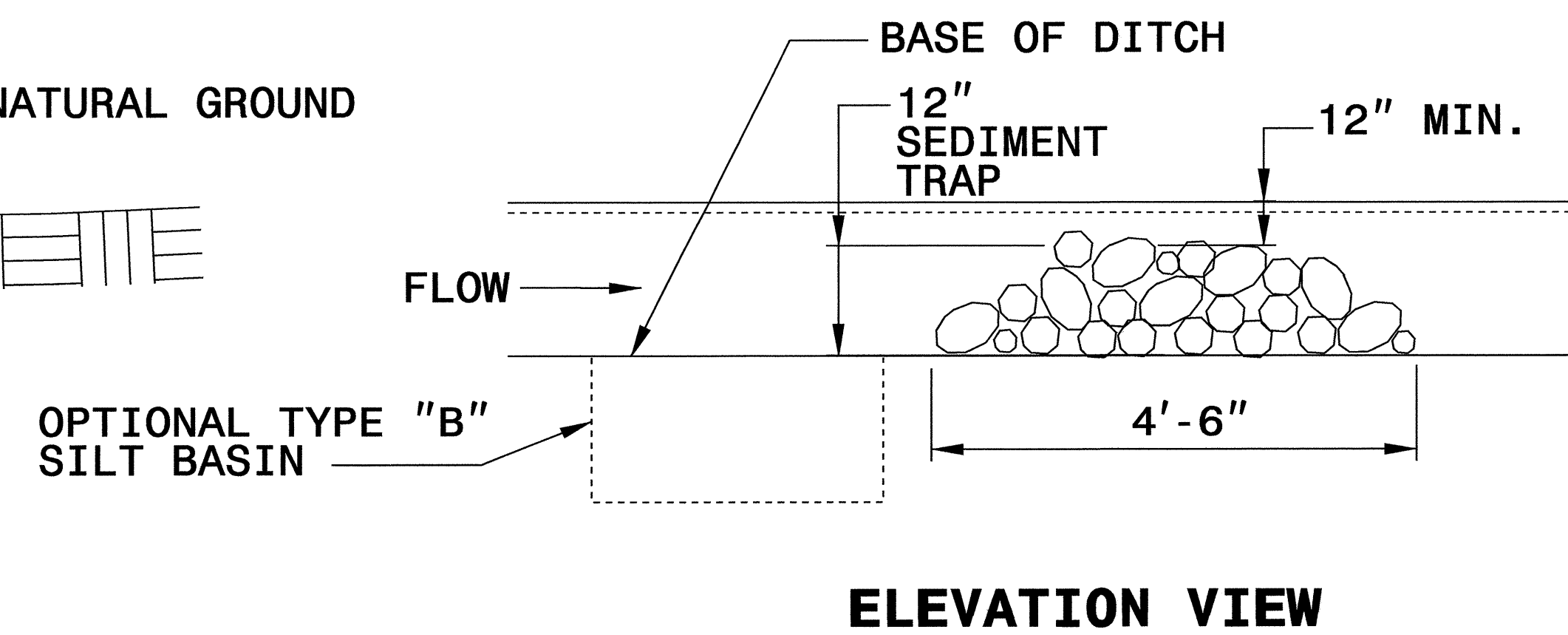
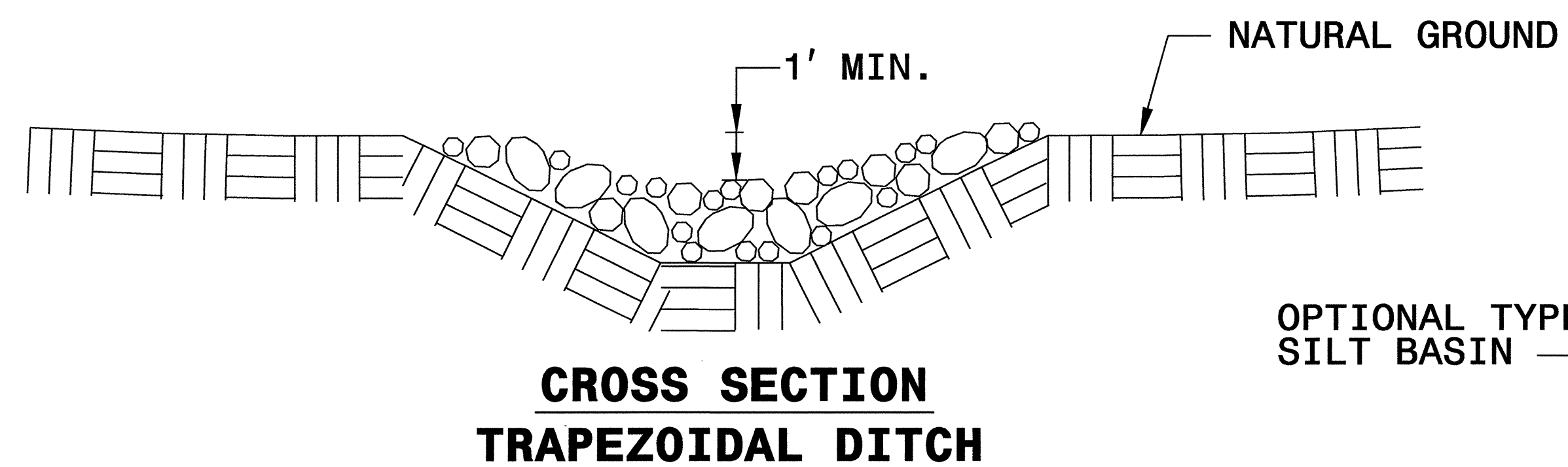
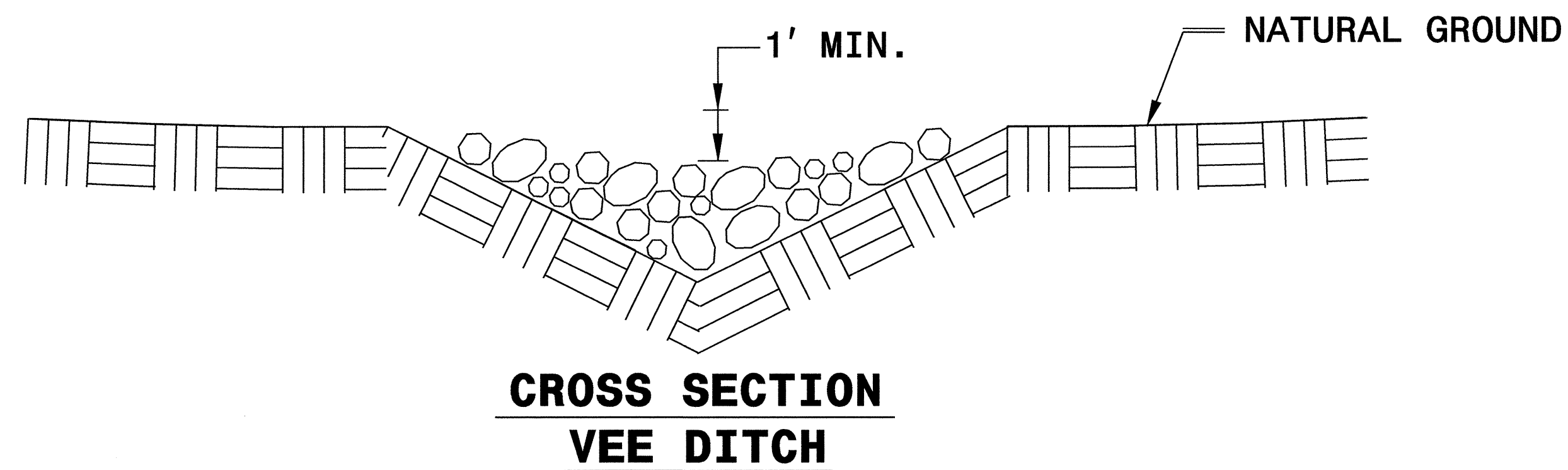
# TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL



**NOTES:**

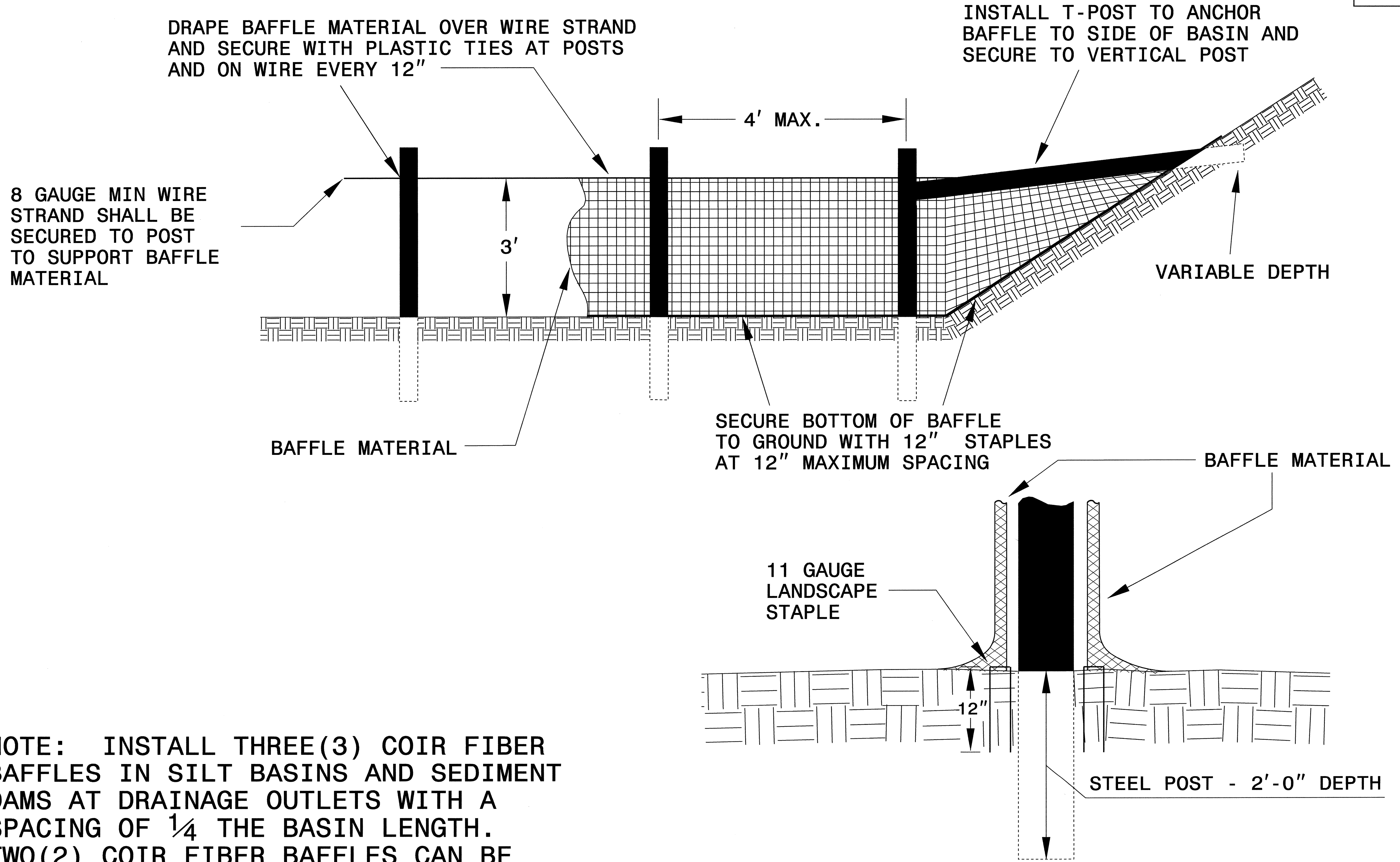
USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

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-4144	SHEET NO. EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# COIR FIBER BAFFLE DETAIL

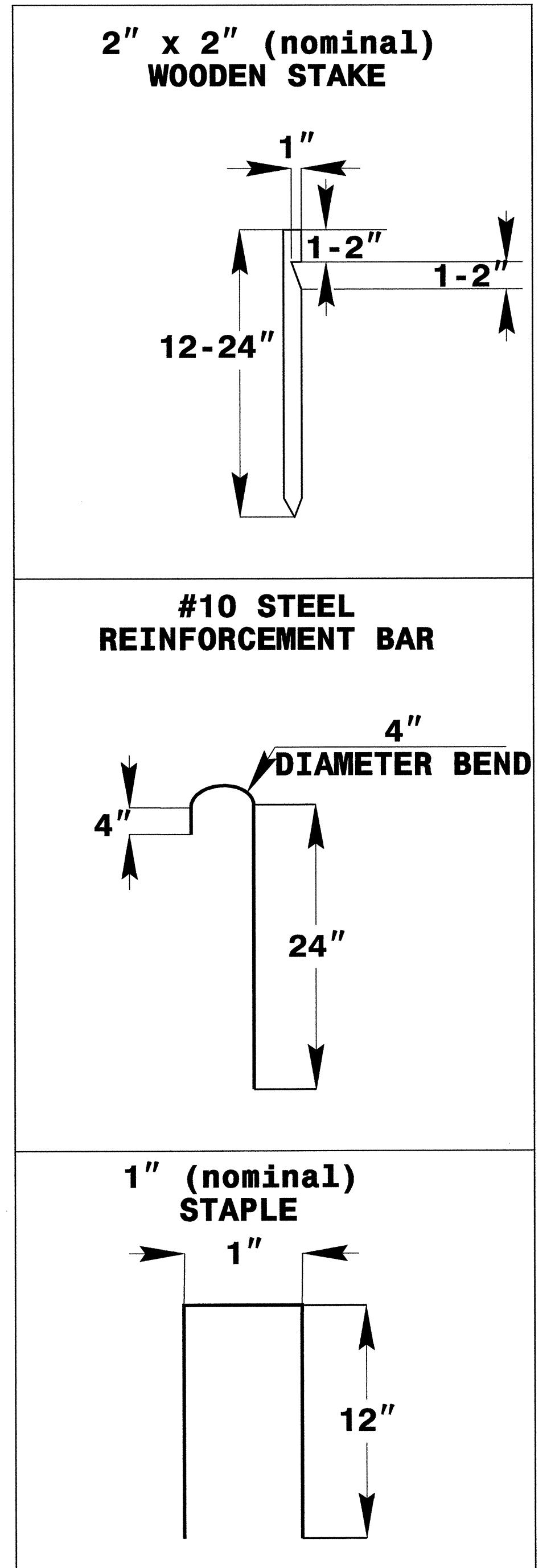
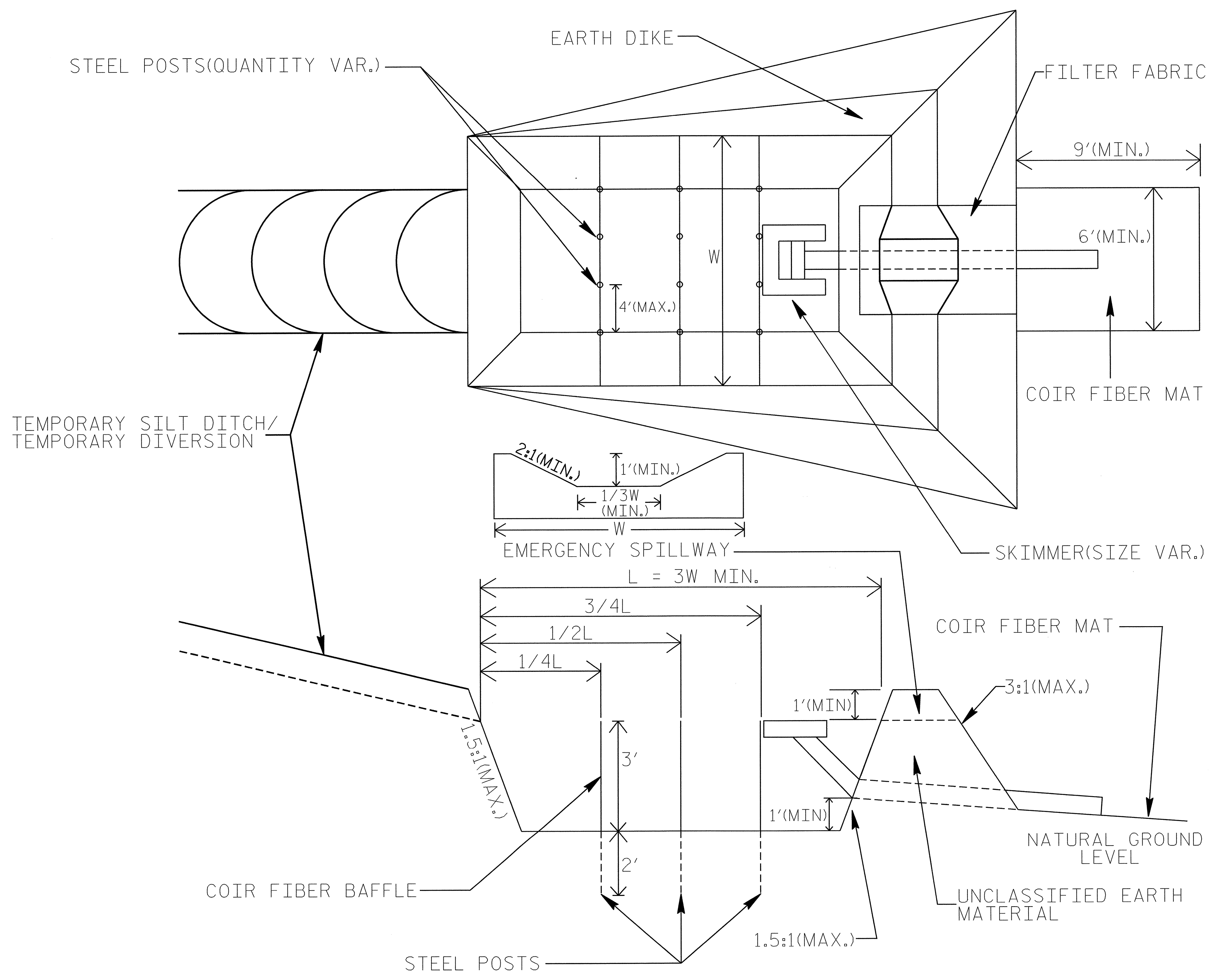


NOTE: INSTALL THREE (3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF  $\frac{1}{4}$  THE BASIN LENGTH. TWO (2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF  $\frac{1}{3}$  THE BASIN LENGTH.

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-4144	SHEET NO. EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**COIR FIBER MAT ANCHOR OPTIONS**



PROJECT REFERENCE NO.		SHEET NO.	
B-4144		EC-4/CONST.4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

REVISIONS

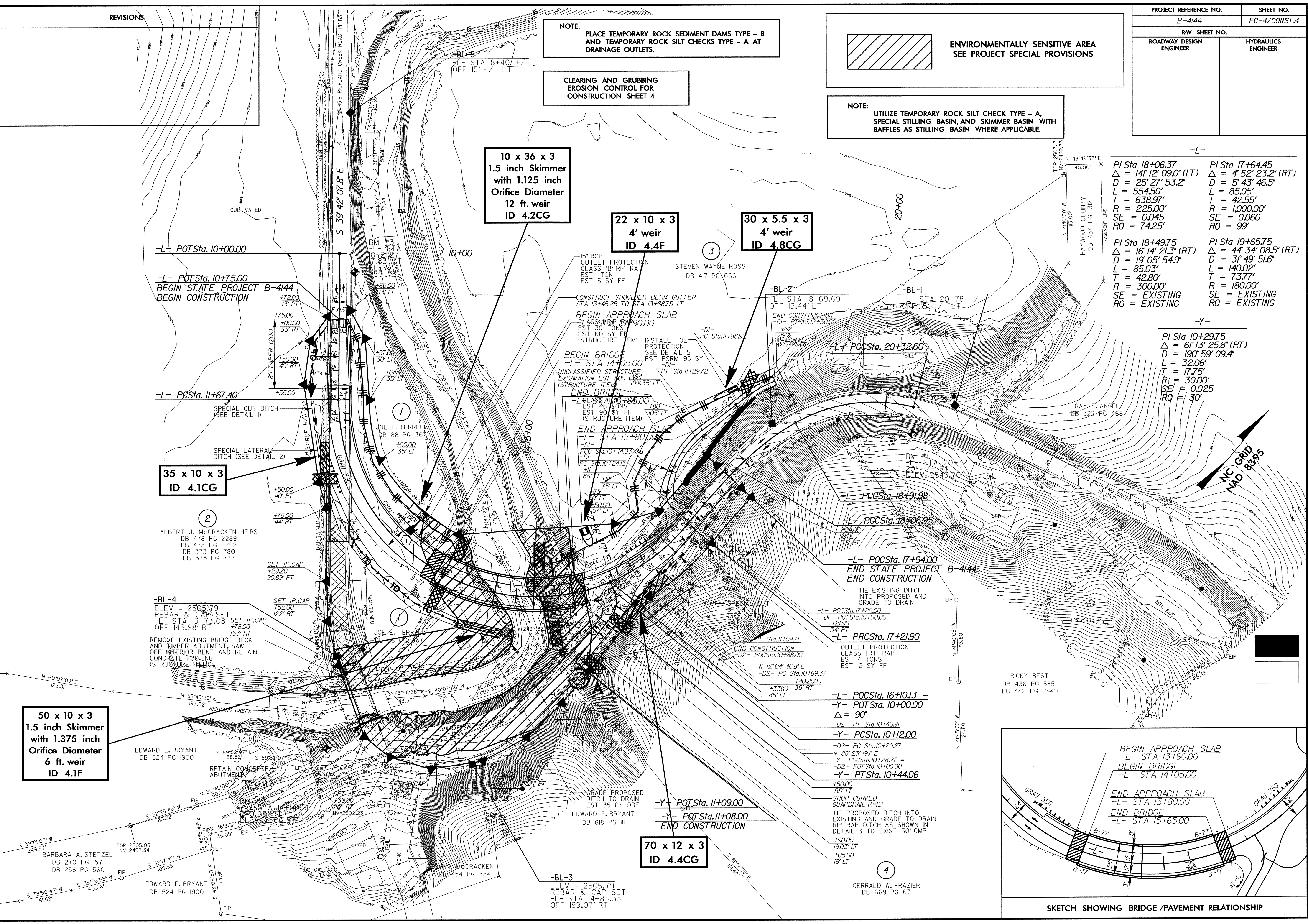
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS

NOTE: UTILIZE TEMPORARY ROCK SILT CHECK TYPE - A, SPECIAL STILLING BASIN, AND SKIMMER BASIN WITH BAFFLES AS STILLING BASIN WHERE APPLICABLE.

-L- PI Sta 18+06.37 $\Delta = 14' 12" 09.0"$ (LT) D = 25' 27' 53.2" L = 554.50' T = 638.97' R = 225.00' SE = 0.045 RO = 74.25'	-L- PI Sta 17+64.45 $\Delta = 4' 52' 23.2"$ (RT) D = 5' 43' 46.5" L = 85.05' T = 42.55' R = 1,000.00' SE = 0.060 RO = 99'
-L- PI Sta 18+49.75 $\Delta = 16' 14' 21.3"$ (RT) D = 19' 05' 54.9" L = 85.03' T = 42.80' R = 300.00' SE = EXISTING RO = EXISTING	-L- PI Sta 19+65.75 $\Delta = 44' 34' 08.5"$ (RT) D = 3' 49' 51.6" L = 140.02' T = 73.77' R = 180.00' SE = EXISTING RO = EXISTING
-Y- PI Sta 10+29.75 $\Delta = 6' 13' 25.8"$ (RT) D = 190' 59' 09.4" L = 32.06' T = 17.75' R = 30.00' SE = 0.025 RO = 30'	



10 x 36 x 3  
1.5 inch Skimmer  
with 1.125 inch  
Orifice Diameter  
12 ft. weir  
ID 4.2CG

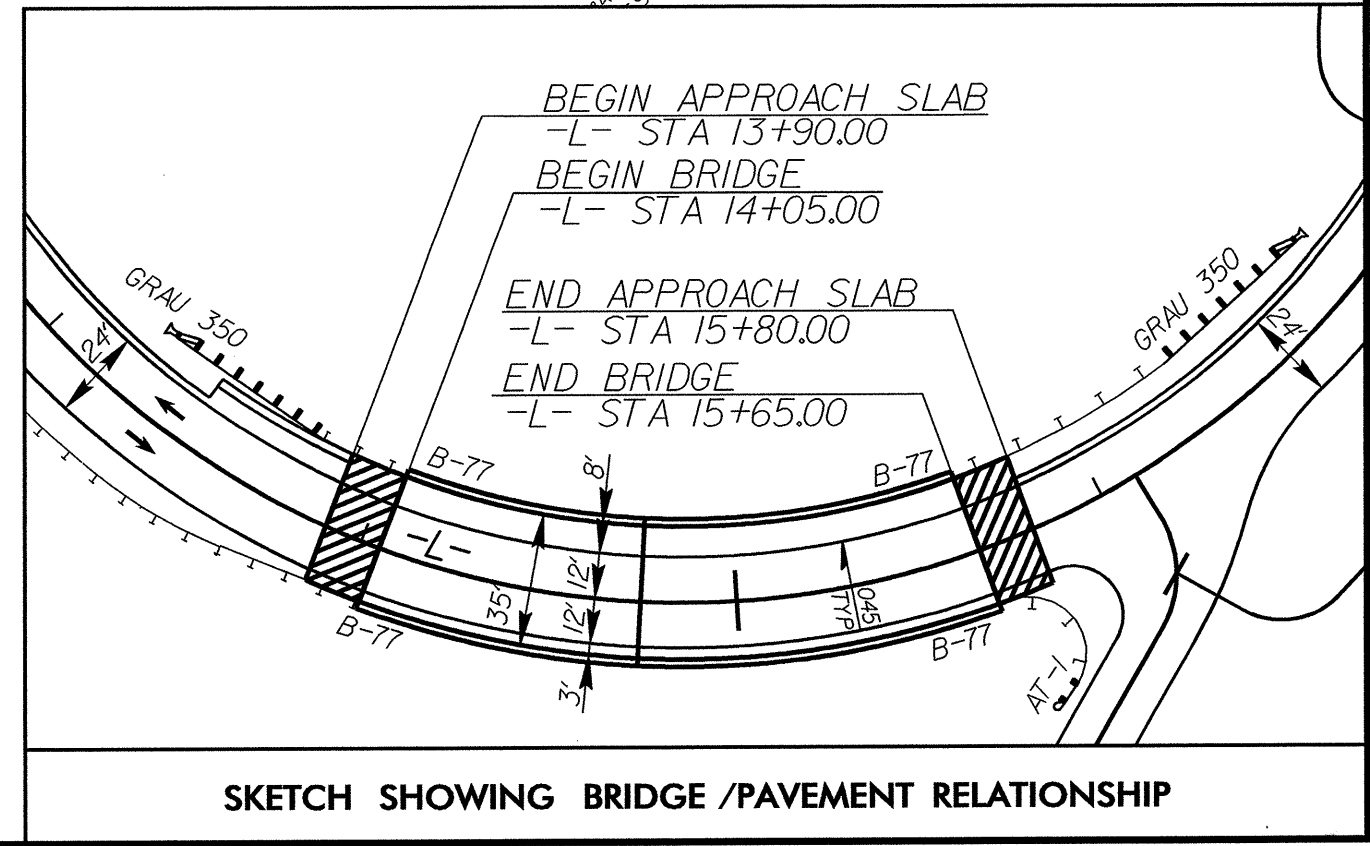
22 x 10 x 3  
4' weir  
ID 4.4F

30 x 5.5 x 3  
4' weir  
ID 4.8CG

35 x 10 x 3  
ID 4.1CG

50 x 10 x 3  
1.5 inch Skimmer  
with 1.375 inch  
Orifice Diameter  
6 ft. weir  
ID 4.1F

70 x 12 x 3  
ID 4.4CG



SKETCH SHOWING BRIDGE /PAVEMENT RELATIONSHIP

\$DATE\$

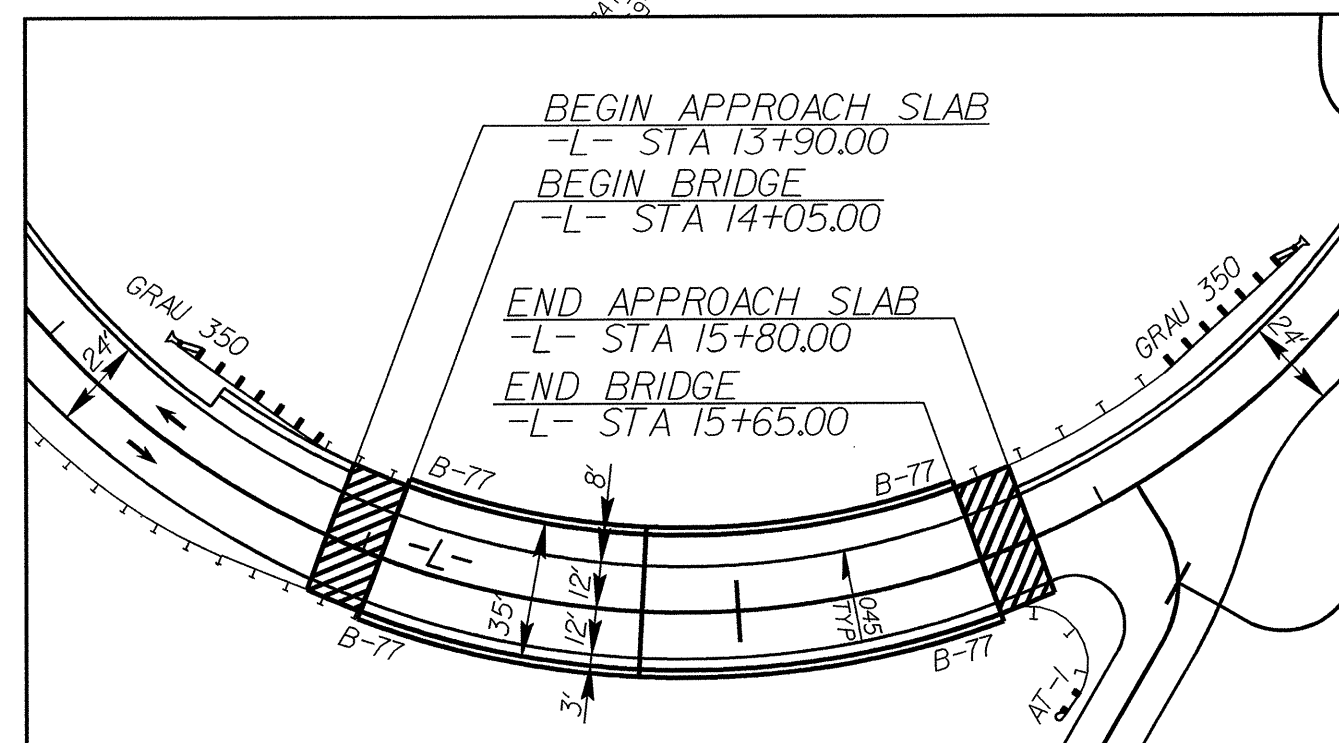
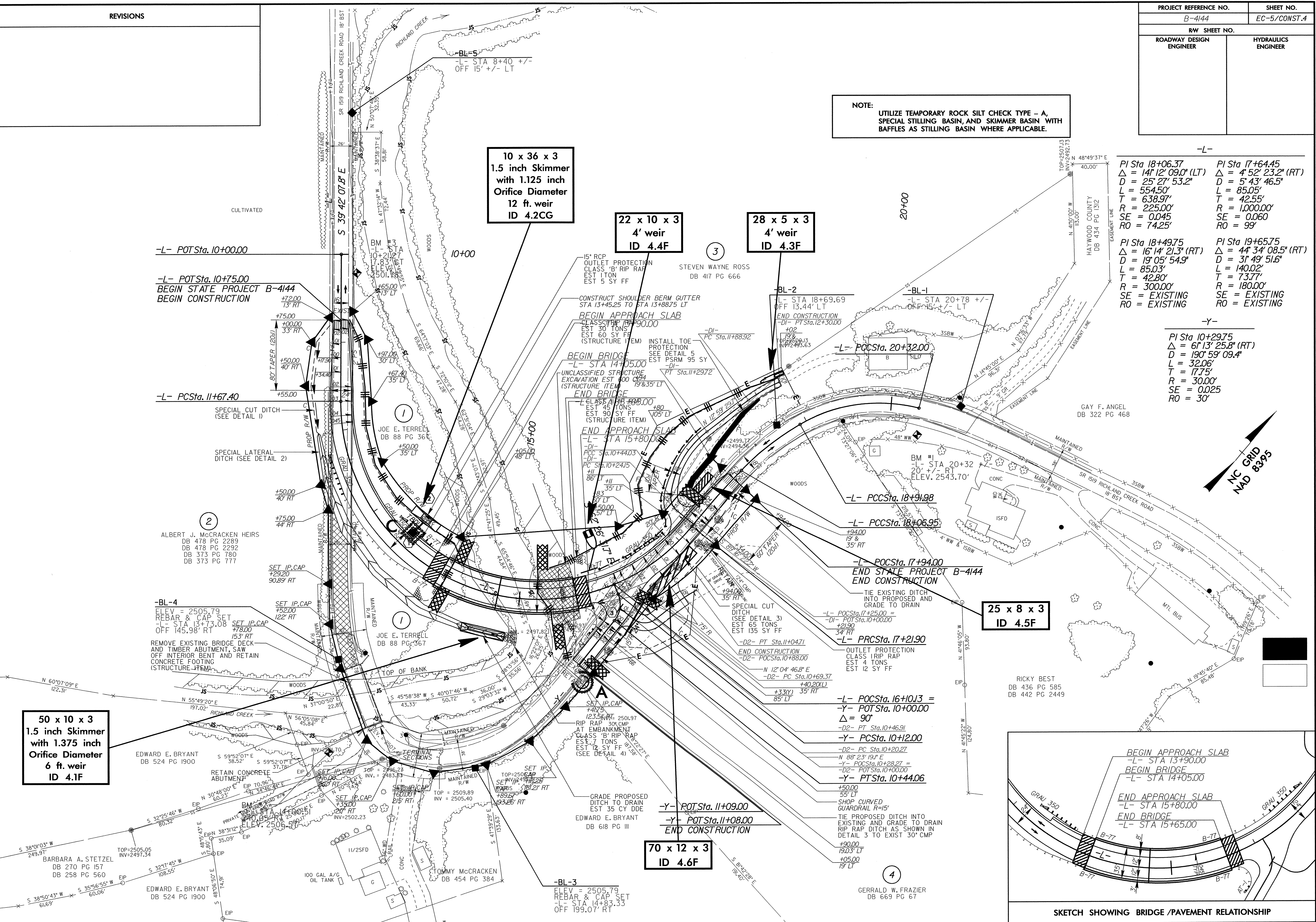
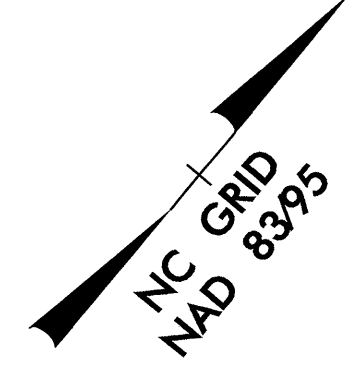
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REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
B-4144	EC-5/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: UTILIZE TEMPORARY ROCK SILT CHECK TYPE - A, SPECIAL STILLING BASIN, AND SKIMMER BASIN WITH BAFFLES AS STILLING BASIN WHERE APPLICABLE.

<p>-L- PI Sta 18+06.37  <math>\Delta = 141' 27.09.0''</math> (LT)  <math>D = 25' 27.53.2''</math>  <math>L = 554.50'</math>  <math>T = 638.97'</math>  <math>R = 225.00'</math>  <math>SE = 0.045</math>  <math>RO = 74.25'</math></p>	<p>-L- PI Sta 17+64.45  <math>\Delta = 4' 52' 23.2''</math> (RT)  <math>D = 5' 43' 46.5''</math>  <math>L = 85.05'</math>  <math>T = 42.55'</math>  <math>R = 1,000.00'</math>  <math>SE = 0.060</math>  <math>RO = 99'</math></p>
<p>-L- PI Sta 18+49.75  <math>\Delta = 16' 14' 21.3''</math> (RT)  <math>D = 19' 05' 54.9''</math>  <math>L = 85.03'</math>  <math>T = 42.80'</math>  <math>R = 300.00'</math>  <math>SE = EXISTING</math>  <math>RO = EXISTING</math></p>	<p>-L- PI Sta 19+65.75  <math>\Delta = 44' 34' 08.5''</math> (RT)  <math>D = 31' 49' 51.6''</math>  <math>L = 140.02'</math>  <math>T = 73.77'</math>  <math>R = 180.00'</math>  <math>SE = EXISTING</math>  <math>RO = EXISTING</math></p>
<p>-Y- PI Sta 10+29.75  <math>\Delta = 6' 13' 25.8''</math> (RT)  <math>D = 190' 59' 09.4''</math>  <math>L = 32.06'</math>  <math>T = 17.75'</math>  <math>R = 30.00'</math>  <math>SE = 0.025</math>  <math>RO = 30'</math></p>	



SKETCH SHOWING BRIDGE /PAVEMENT RELATIONSHIP

50 x 10 x 3  
1.5 inch Skimmer  
with 1.375 inch  
Orifice Diameter  
6 ft. weir  
ID 4.1F

10 x 36 x 3  
1.5 inch Skimmer  
with 1.125 inch  
Orifice Diameter  
12 ft. weir  
ID 4.2CG

22 x 10 x 3  
4' weir  
ID 4.4F

28 x 5 x 3  
4' weir  
ID 4.3F

25 x 8 x 3  
ID 4.5F

70 x 12 x 3  
ID 4.6F

\$FILE\$

\$DATE\$