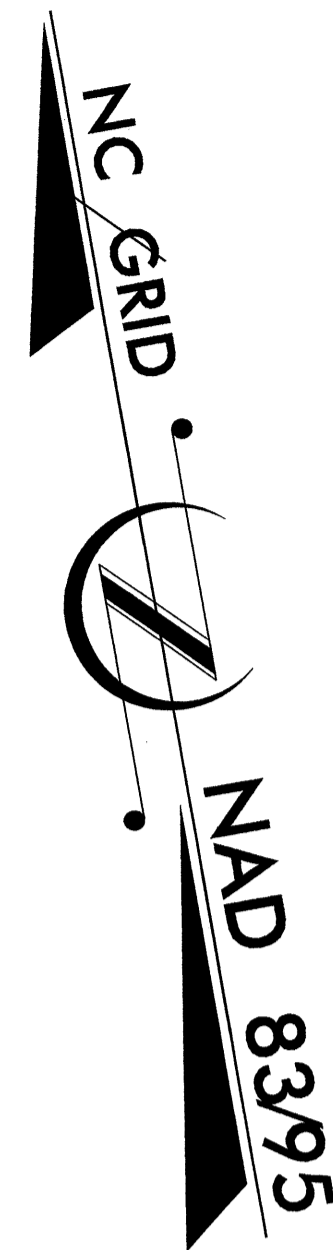


**TIP PROJECT: B-4100**

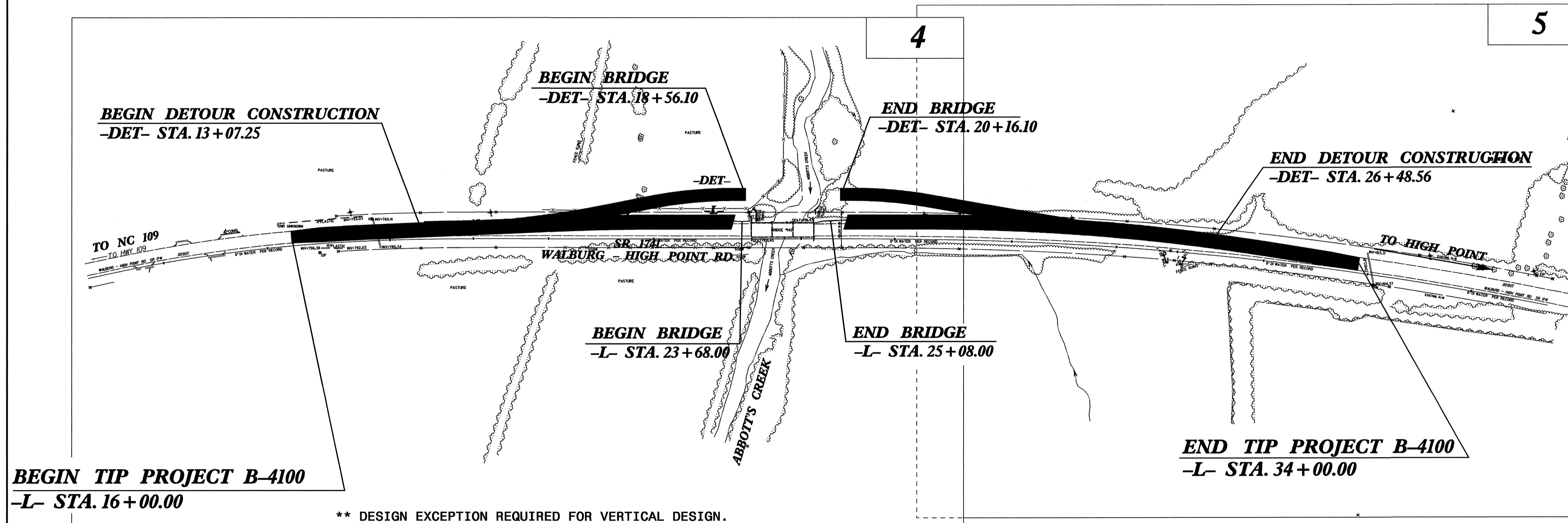


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
PLAN FOR PROPOSED  
HIGHWAY EROSION CONTROL

**DAVIDSON COUNTY**

**LOCATION: BRIDGE NO. 142 OVER ABBOTT'S CREEK  
ON SR 1741 (WALBURG - HIGH POINT RD.)**

**TYPE OF WORK: GRADING, DRAINAGE, PAVING  
& STRUCTURES**



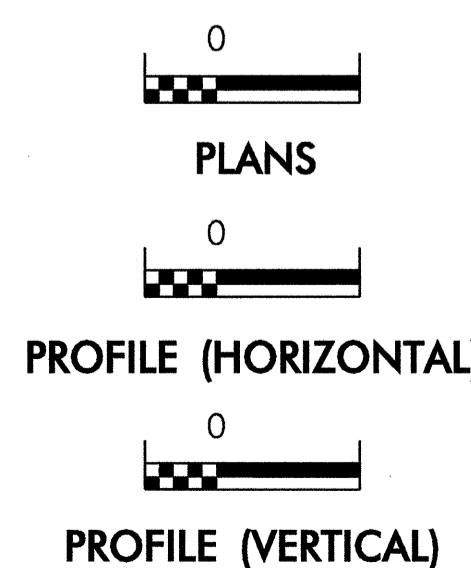
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4100	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**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.**

**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**

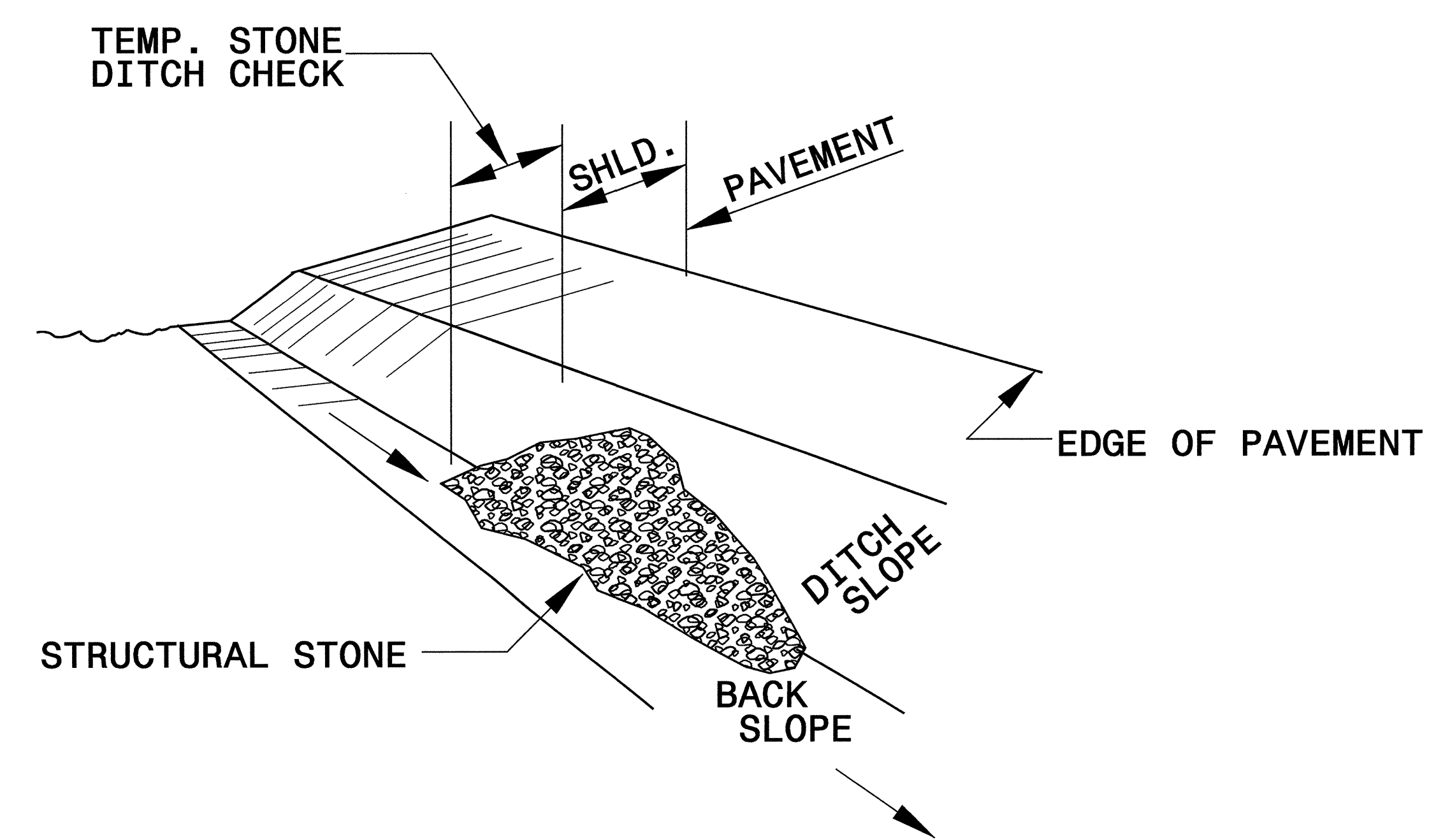
**Roadway Standard Drawings**

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
1622.01	Temporary Berms and Slope Drains	1635.02	Rock Pipe Inlet Sediment Trap Type B
1630.02	Silt Basin Type B		
1630.03	Temporary Silt Ditch		
1630.05	Temporary Diversion		

PROJECT REFERENCE NO. B-4100	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

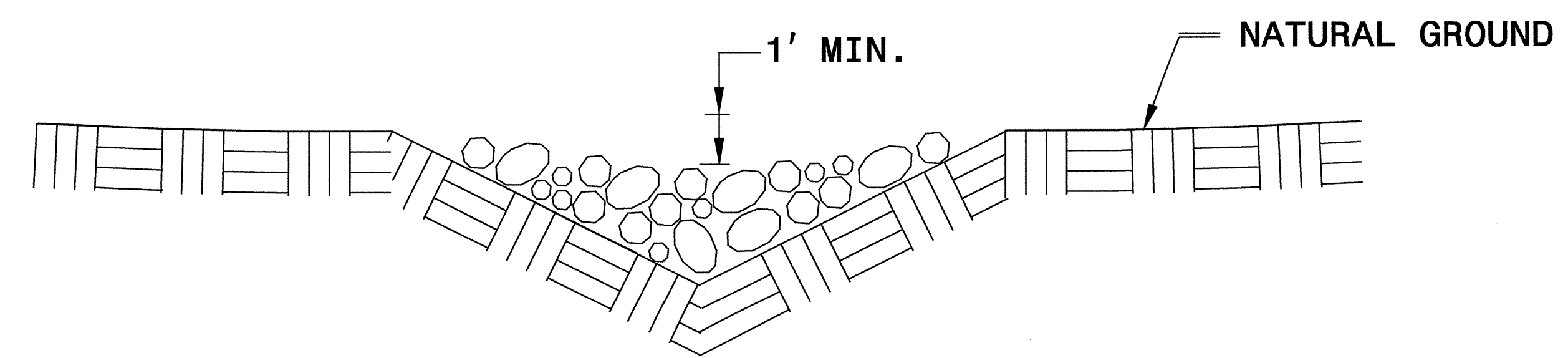


**ISOMETRIC VIEW**

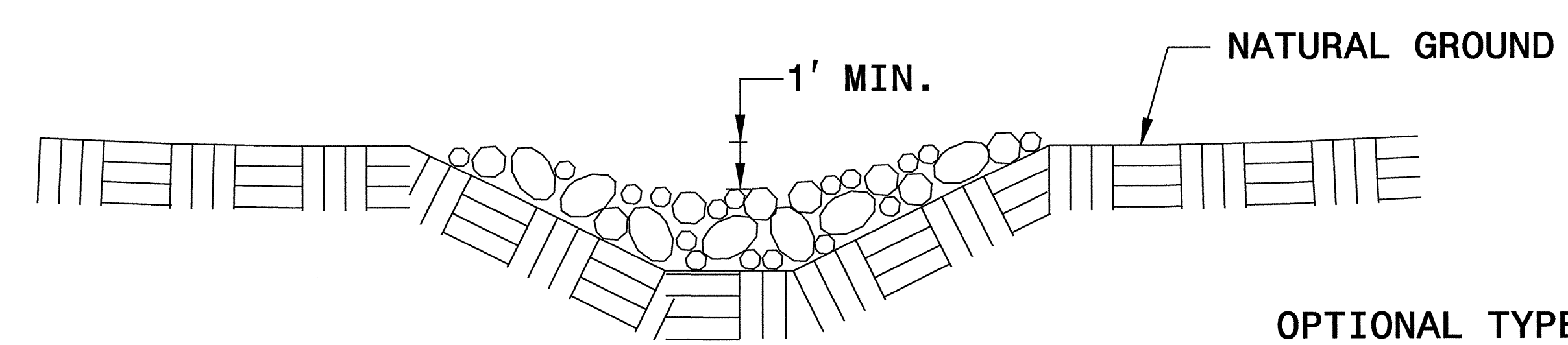
**NOTES:**

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

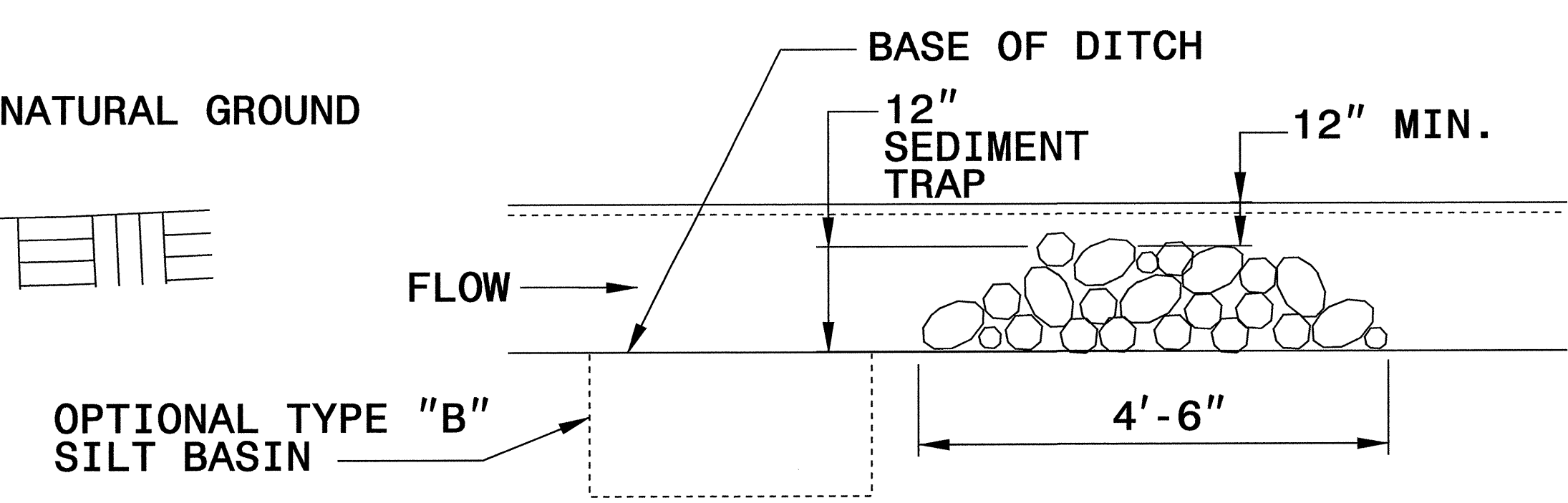
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



**CROSS SECTION VEE DITCH**



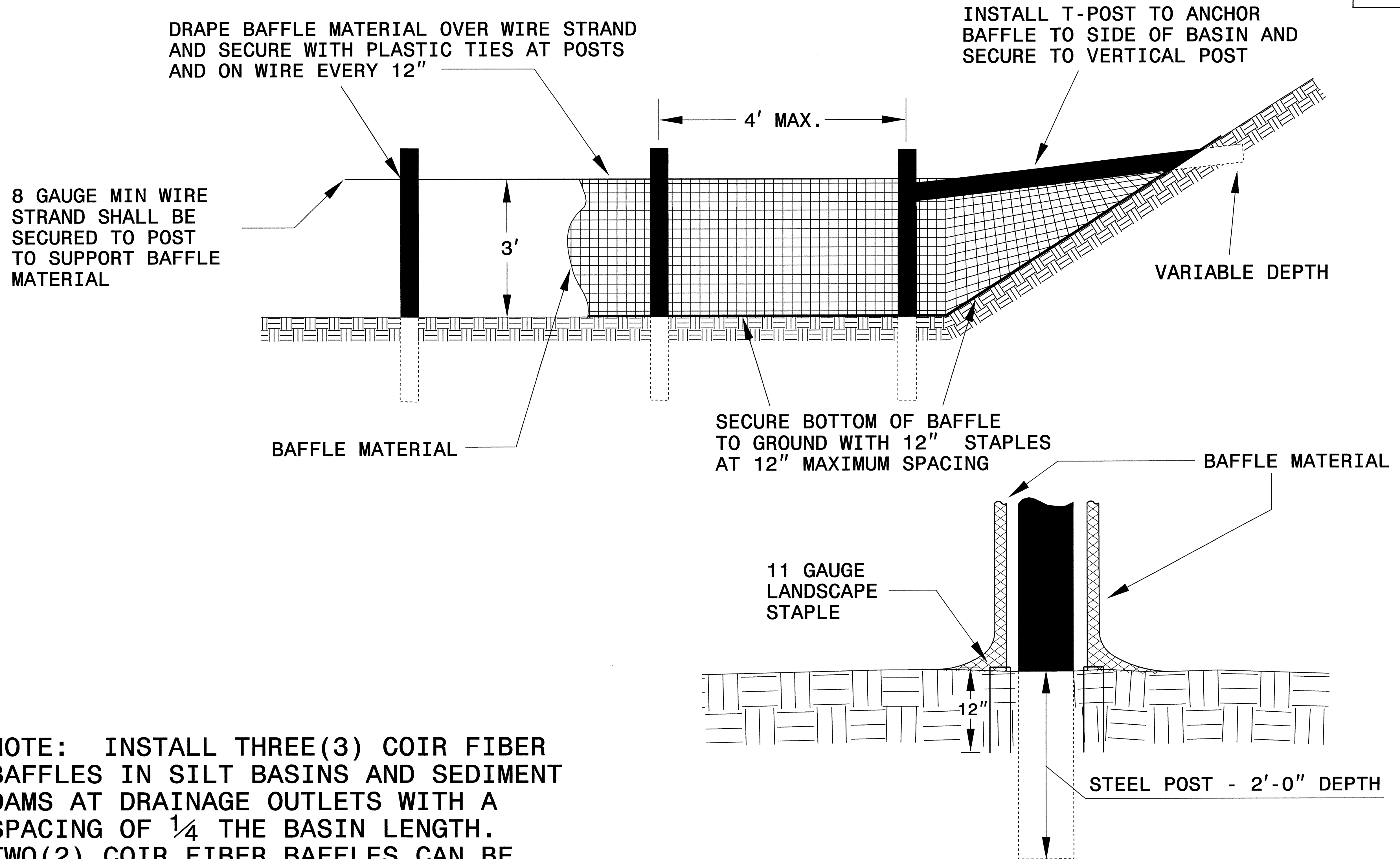
**CROSS SECTION TRAPEZOIDAL DITCH**



**ELEVATION VIEW**

PROJECT REFERENCE NO. B-4100	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# COIR FIBER BAFFLE DETAIL

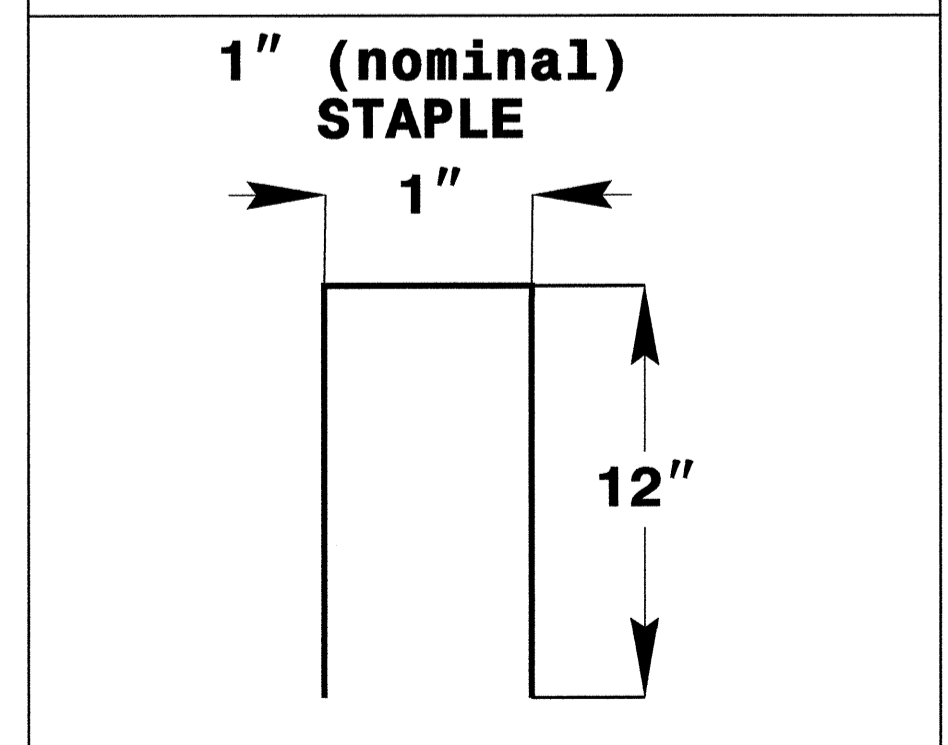
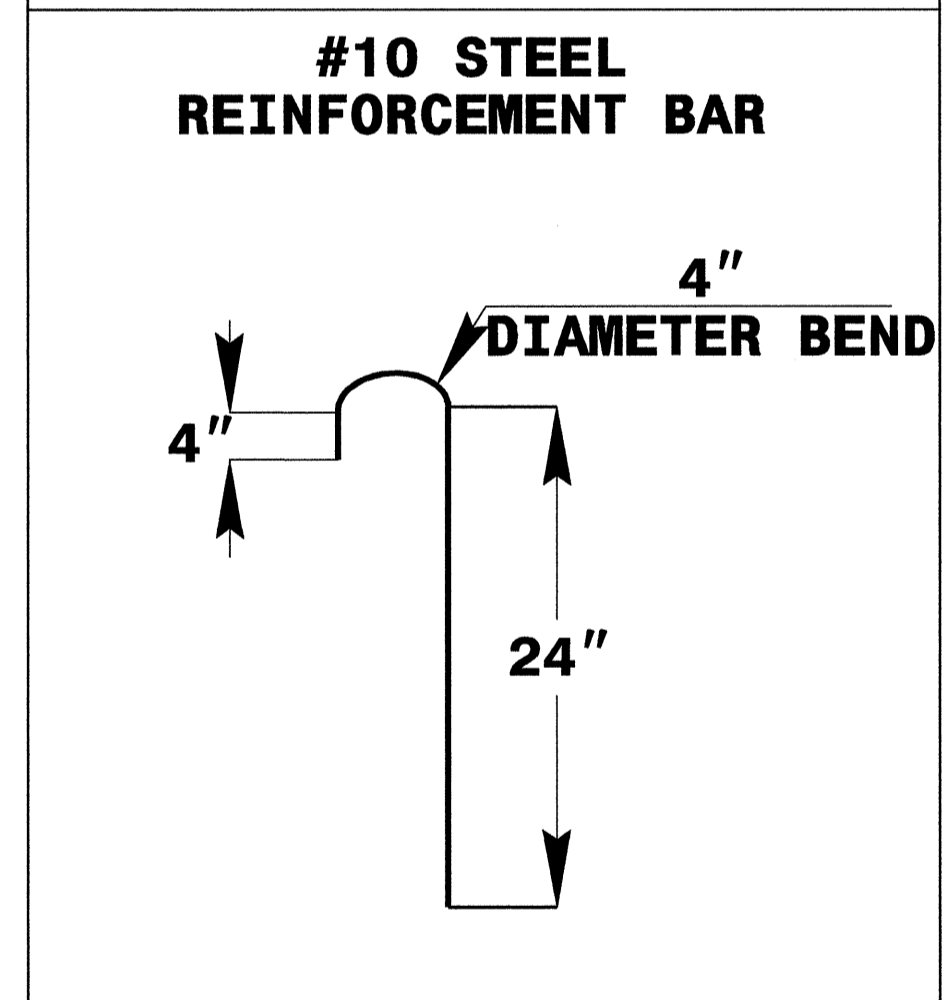
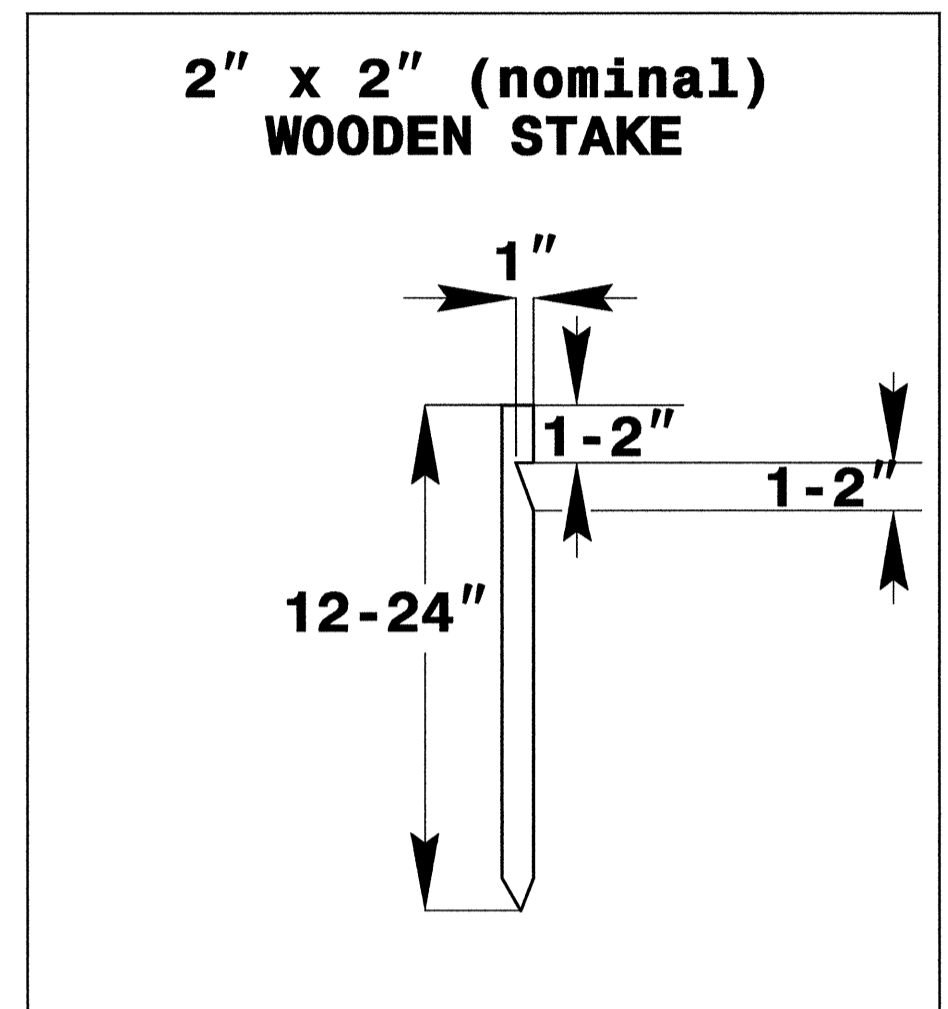
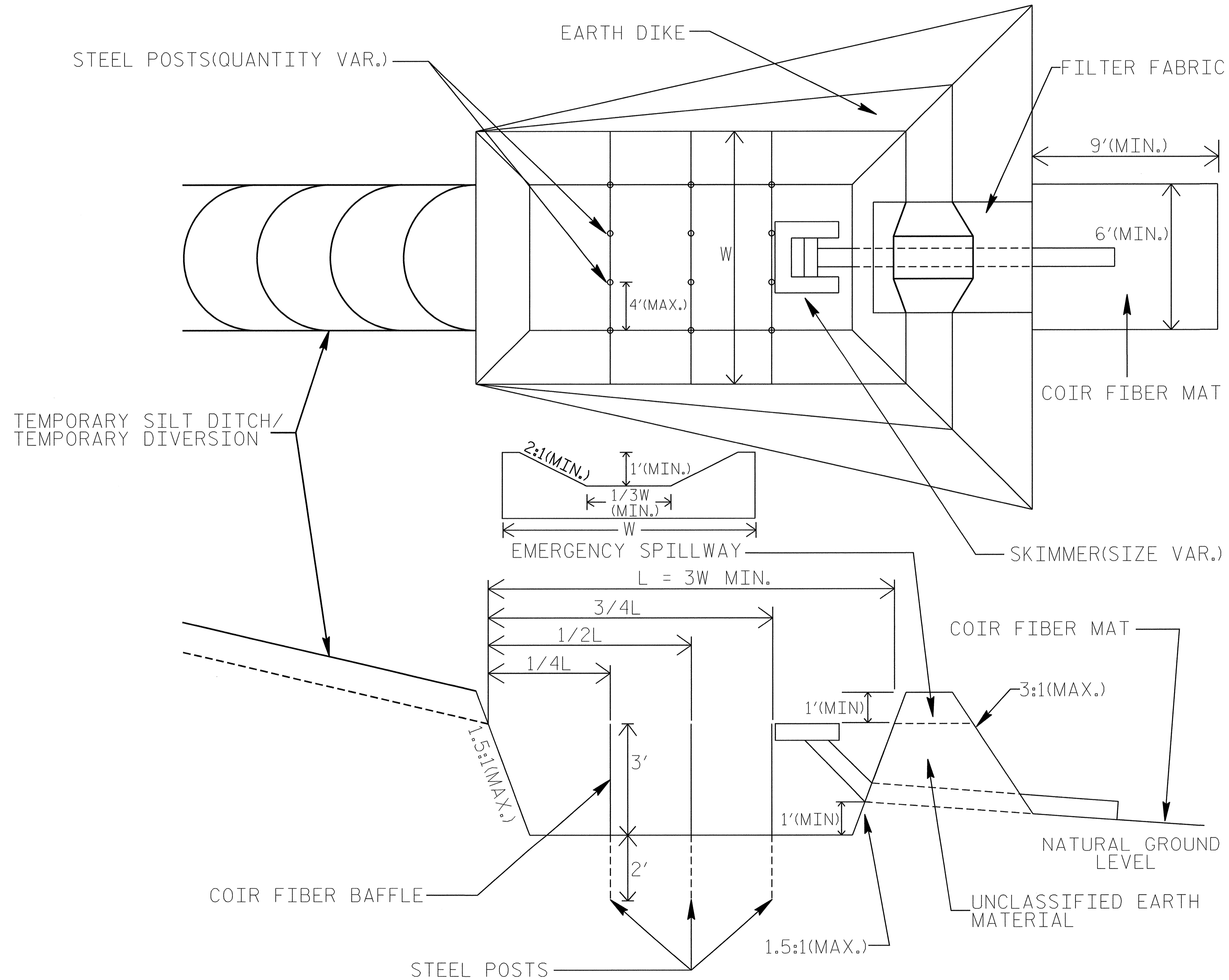


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF  $\frac{1}{4}$  THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF  $\frac{1}{3}$  THE BASIN LENGTH.

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

# SKIMMER BASIN WITH BAFFLES DETAIL

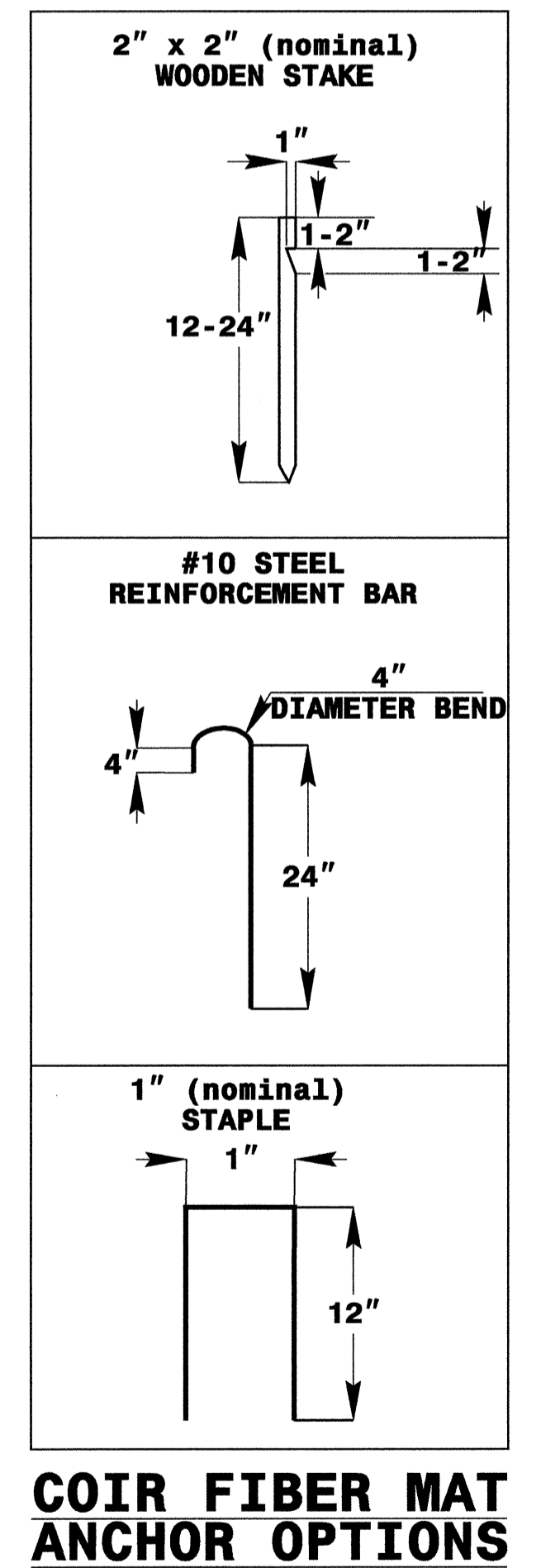
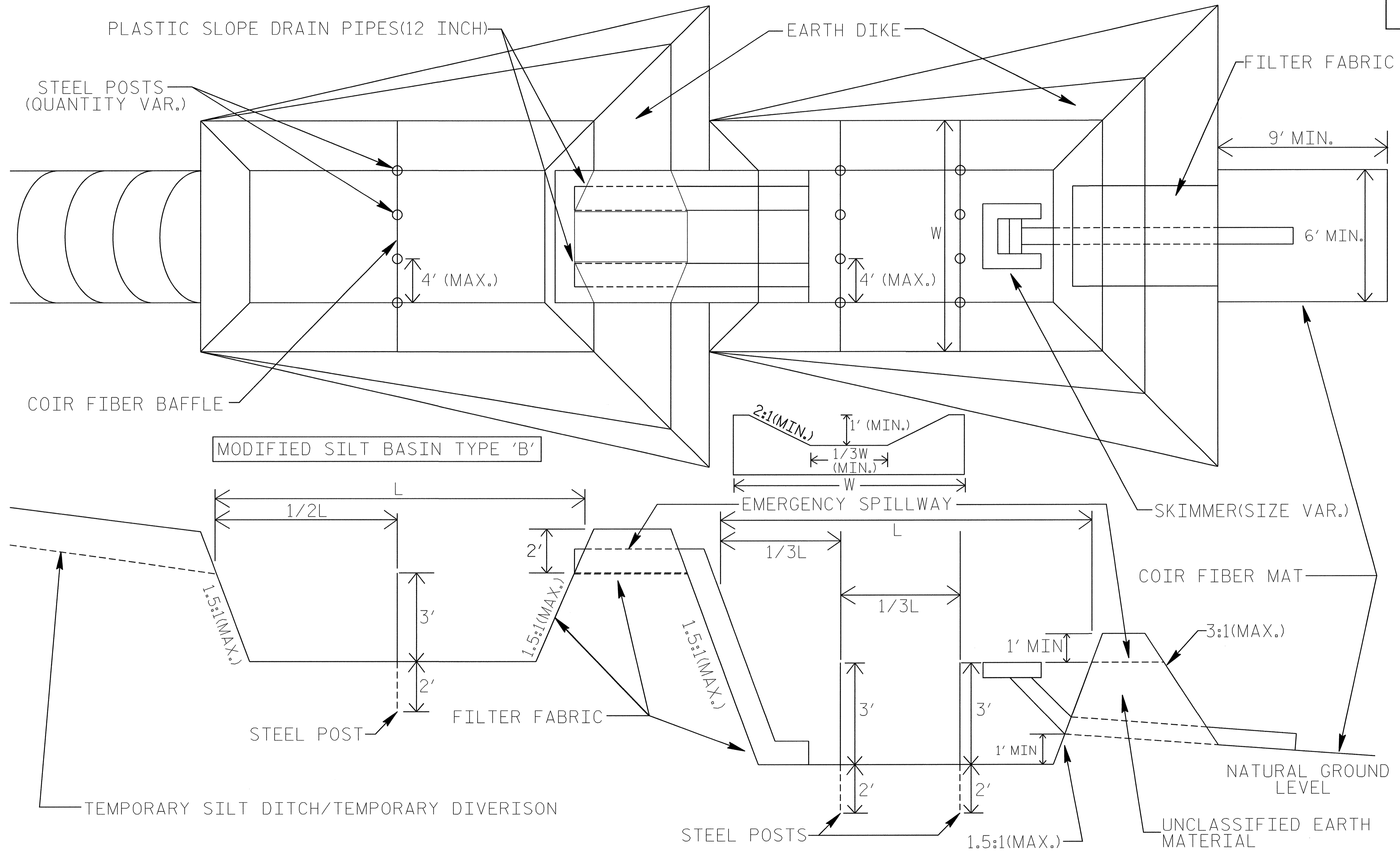
PROJECT REFERENCE NO. B-4100	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**COIR FIBER MAT ANCHOR OPTIONS**

# TIERED SKIMMER BASIN DETAIL

PROJECT REFERENCE NO. B-4100	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**NOTE**

ADDITIONAL MODIFIED SILT BASINS TYPE 'B' MAY BE NEEDED DEPENDING ON SLOPE.



8/17/99

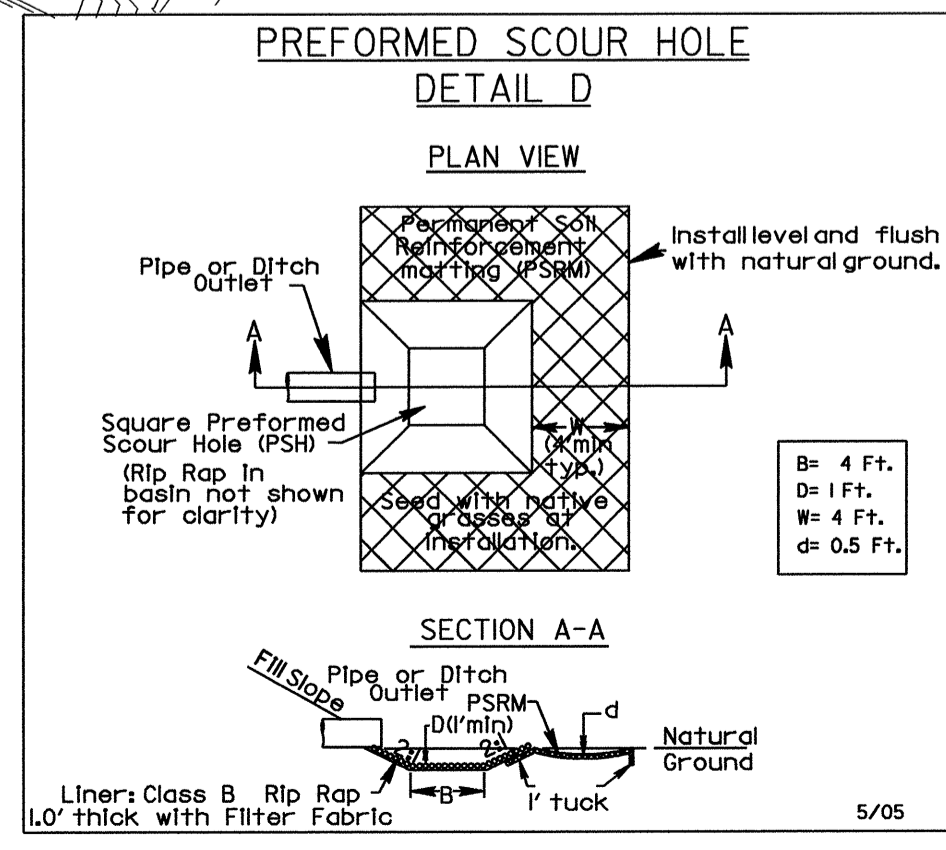
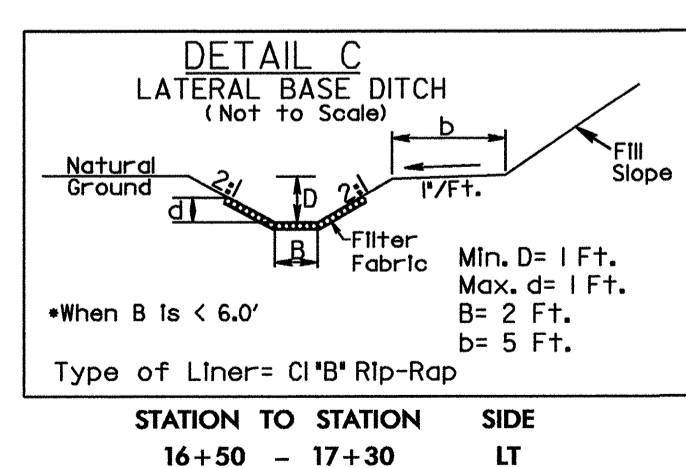
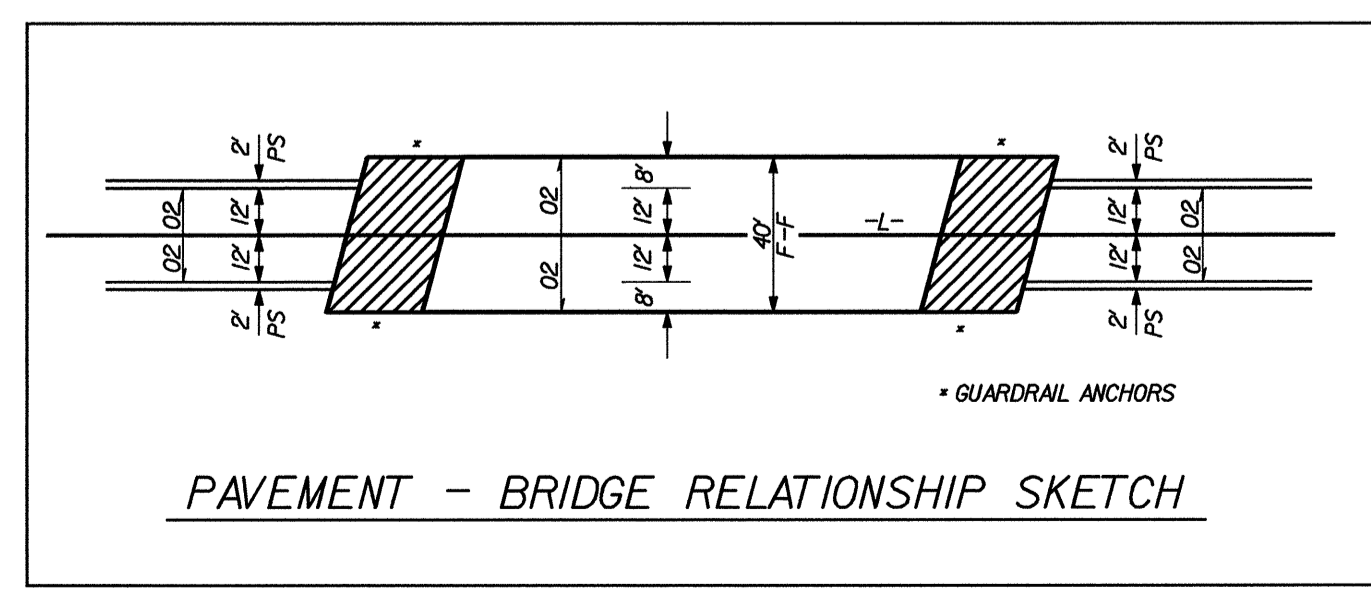
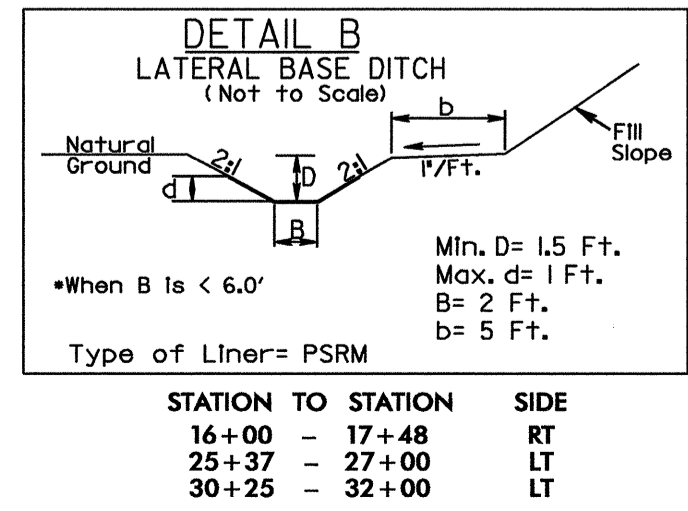
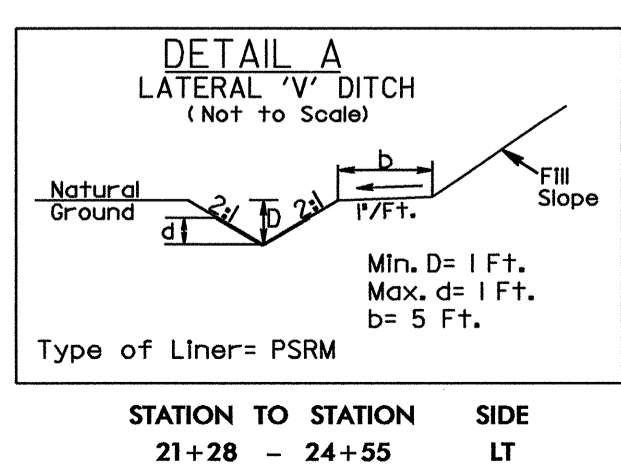
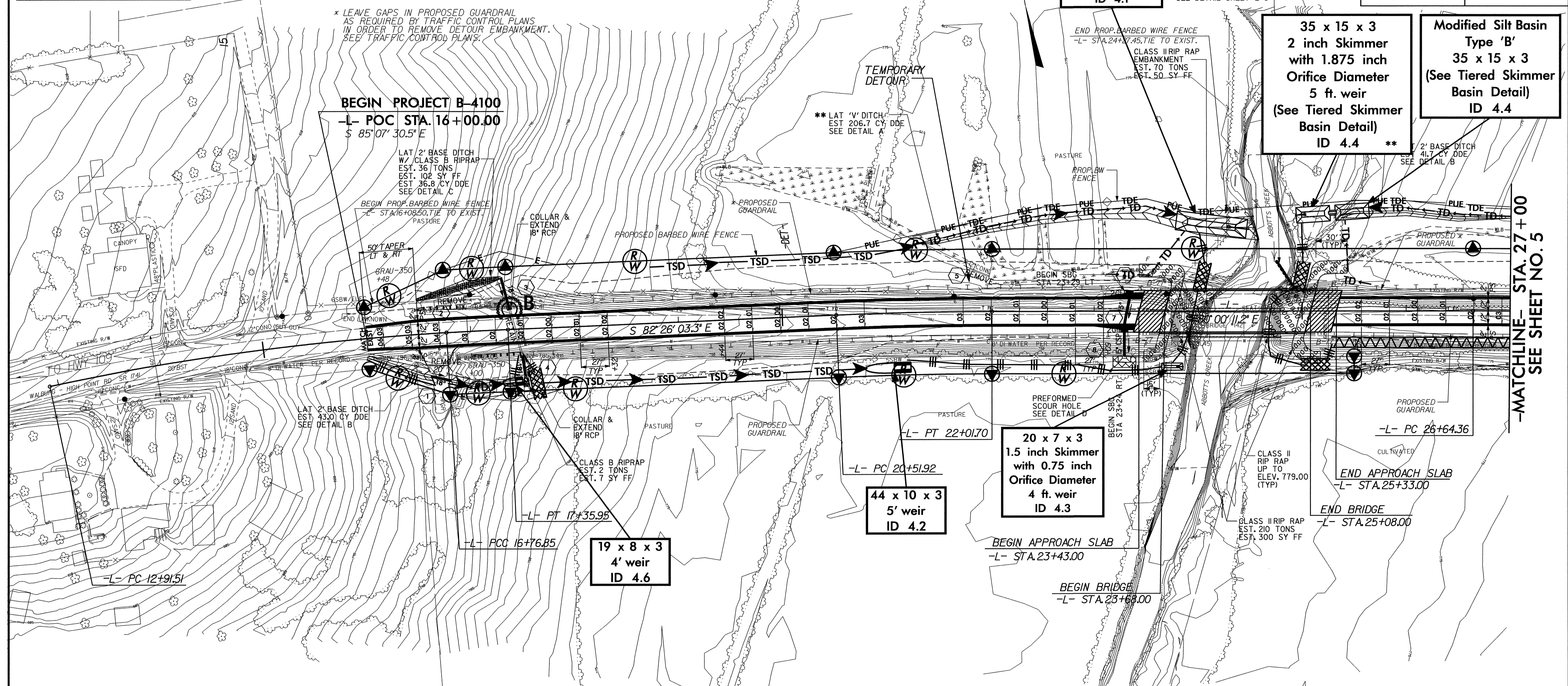
**NOTE:**  
UTILIZE SKIMMER BASIN AS STILLING BASIN WHERE APPLICABLE.

**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 04**

PROJECT REFERENCE NO.		SHEET NO.	
B-4100		EC-04/CONST.04	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
RW SHEET NO.			

\*\* NOTE: DITCH CONSTRUCTED DURING DETOUR PHASE TO REMAIN.



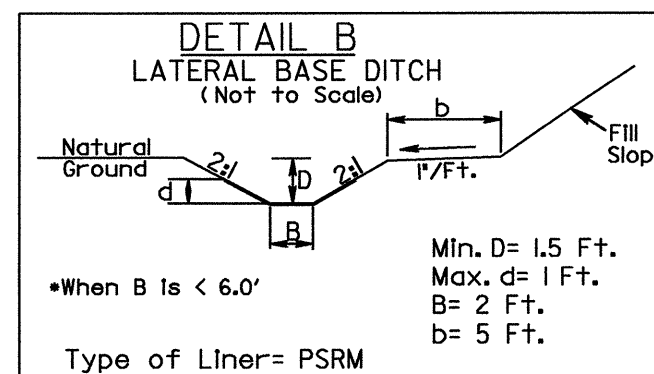
-MATCHLINE- STA. 27+00  
SEE SHEET NO. 5

AT: RENV221500

8/17/99

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 05



STATION TO STATION SIDE  
30+25 - 32+00 LT

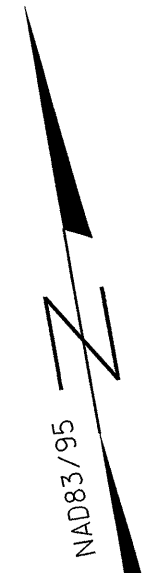
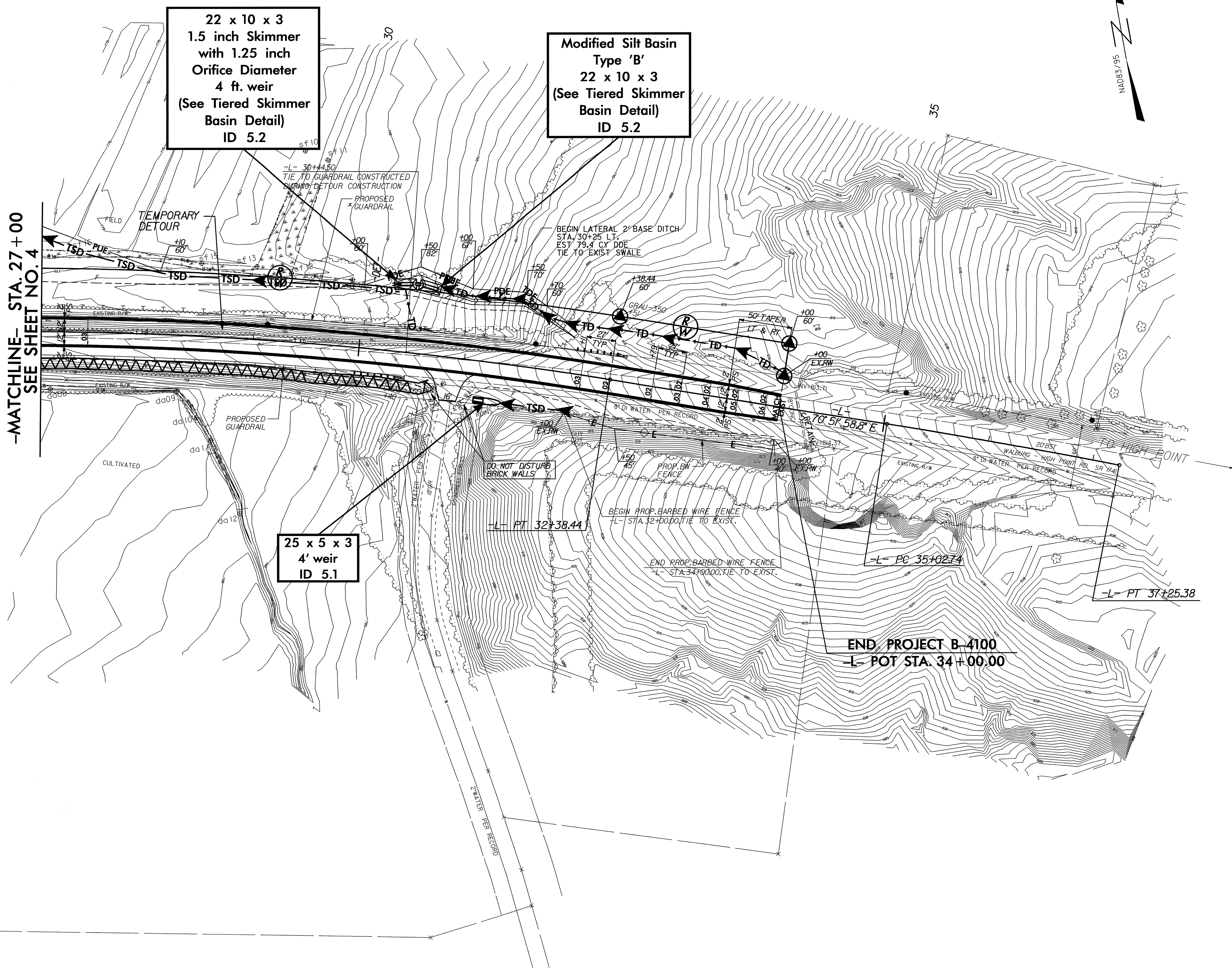
PROJECT REFERENCE NO.	SHEET NO.
B-4100	EC-05/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-MATCHLINE- STA. 27 + 00  
SEE SHEET NO. 4

22 x 10 x 3  
1.5 inch Skimmer  
with 1.25 inch  
Orifice Diameter  
4 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 5.2

Modified Silt Basin  
Type 'B'  
22 x 10 x 3  
(See Tiered Skimmer  
Basin Detail)  
ID 5.2

25 x 5 x 3  
4' weir  
ID 5.1



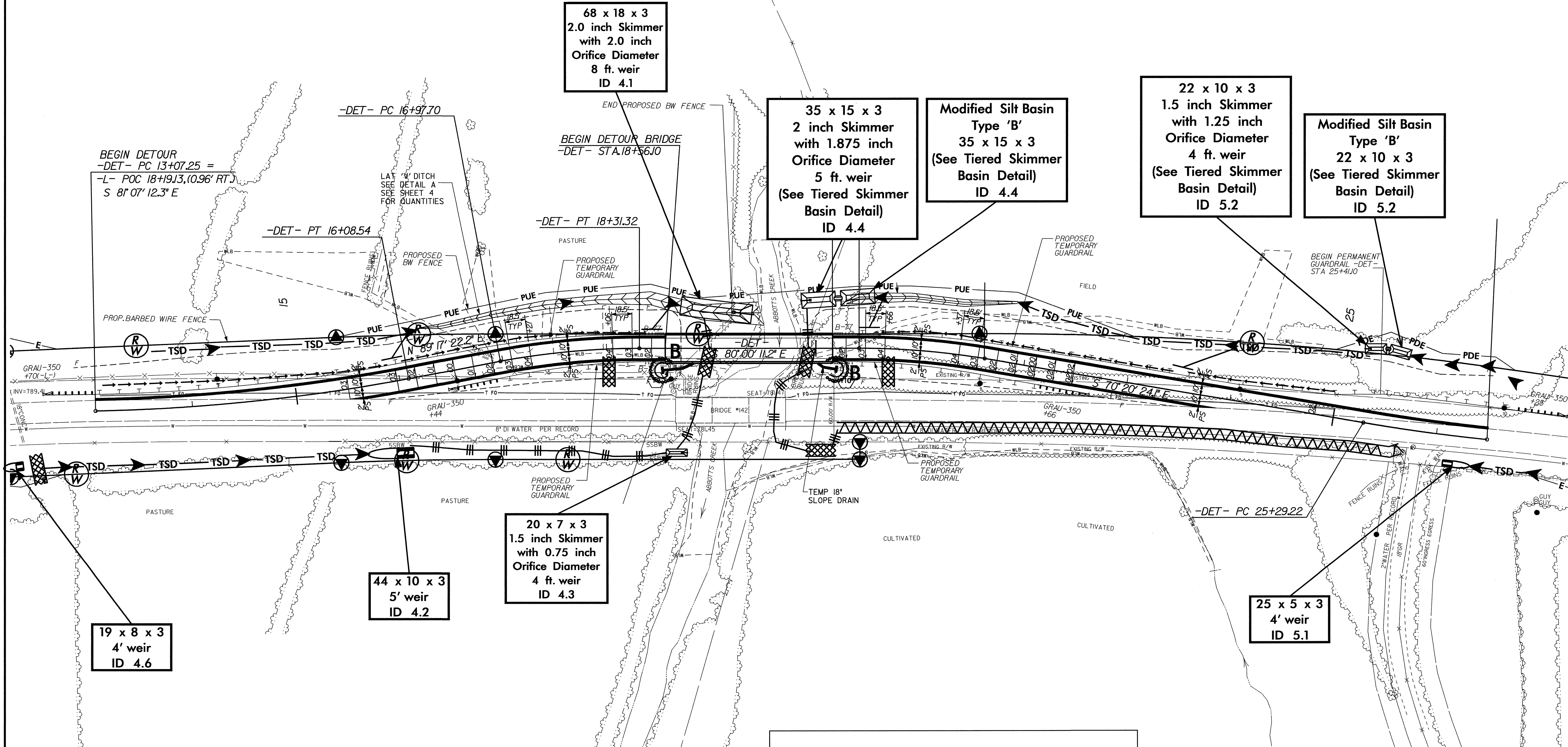


8/17/99

NOTE:  
UTILIZE SKIMMER BASIN AS STILLING BASIN  
WHERE APPLICABLE.

PROJECT REFERENCE NO.		SHEET NO.	
B-4100		EC-06/CONST.2-B	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

# TEMPORARY DETOUR



BEGIN DETOUR  
-DET- PC 13+07.25 =  
-L- POC 18+19.13, (0.96' RT.)  
S 81° 07' 12.3" E

68 x 18 x 3  
2.0 inch Skimmer  
with 2.0 inch  
Orifice Diameter  
8 ft. weir  
ID 4.1

35 x 15 x 3  
2 inch Skimmer  
with 1.875 inch  
Orifice Diameter  
5 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 4.4

Modified Silt Basin  
Type 'B'  
35 x 15 x 3  
(See Tiered Skimmer  
Basin Detail)  
ID 4.4

22 x 10 x 3  
1.5 inch Skimmer  
with 1.25 inch  
Orifice Diameter  
4 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 5.2

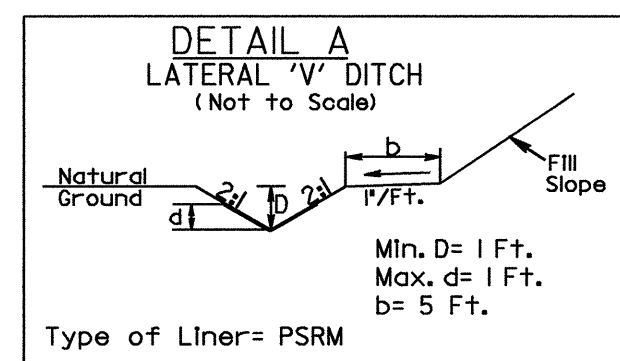
Modified Silt Basin  
Type 'B'  
22 x 10 x 3  
(See Tiered Skimmer  
Basin Detail)  
ID 5.2

20 x 7 x 3  
1.5 inch Skimmer  
with 0.75 inch  
Orifice Diameter  
4 ft. weir  
ID 4.3

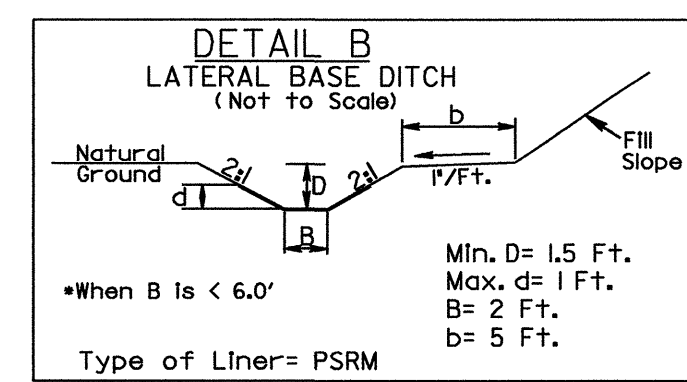
44 x 10 x 3  
5' weir  
ID 4.2

19 x 8 x 3  
4' weir  
ID 4.6

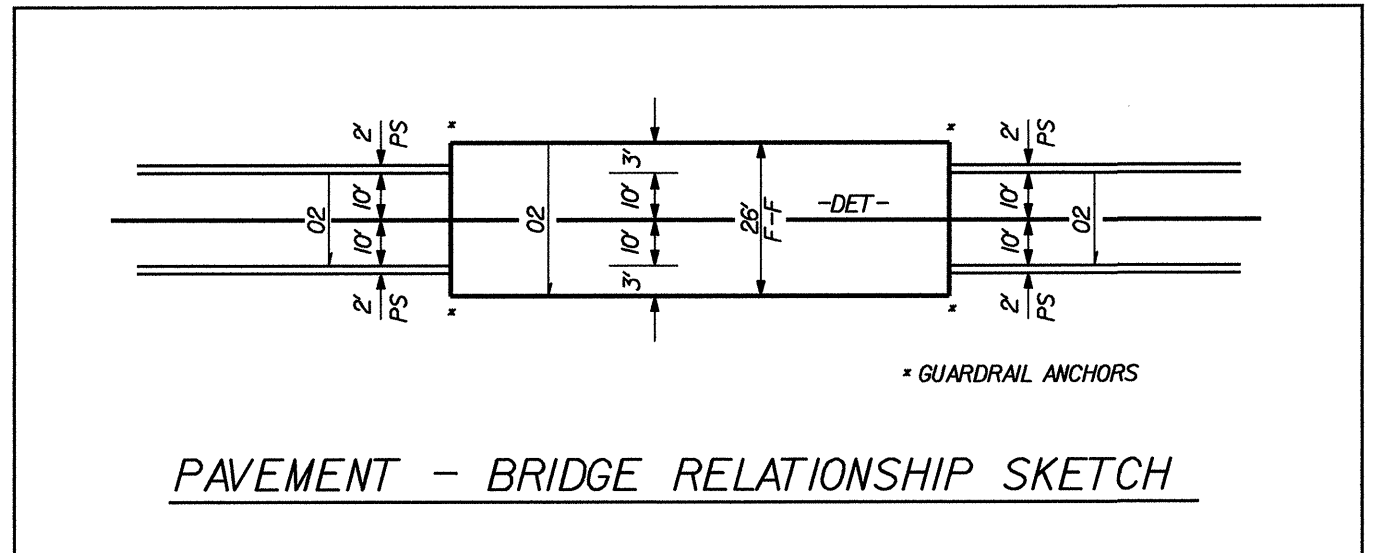
25 x 5 x 3  
4' weir  
ID 5.1



STATION TO STATION SIDE  
16+25 - 19+47 LT



STATION TO STATION SIDE  
20+29 - 21+85 LT

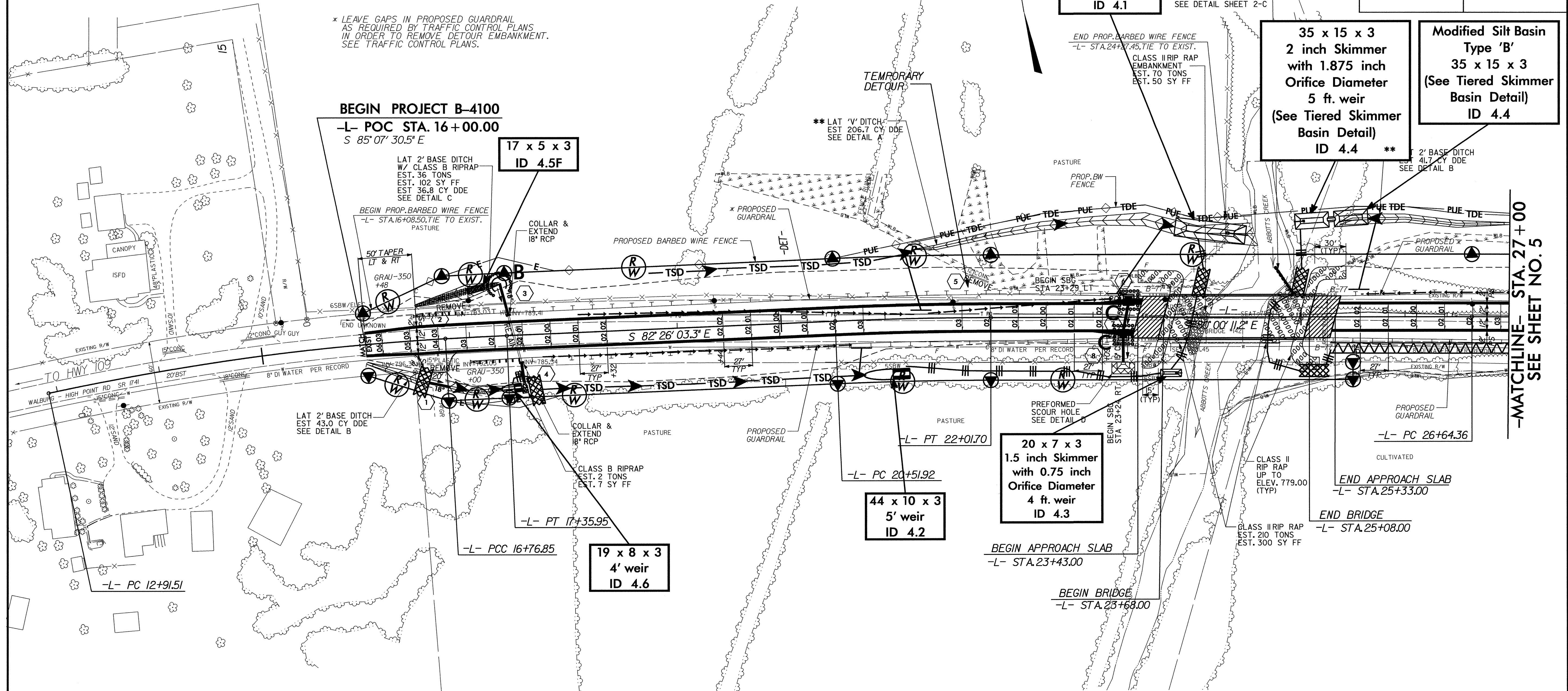


PAVEMENT - BRIDGE RELATIONSHIP SKETCH

8/17/99

NOTE: UTILIZE SKIMMER BASIN AS STILLING BASIN WHERE APPLICABLE.

PROJECT REFERENCE NO. B-4100	SHEET NO. EC-07/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



\* LEAVE GAPS IN PROPOSED GUARDRAIL AS REQUIRED BY TRAFFIC CONTROL PLANS IN ORDER TO REMOVE DETOUR EMBANKMENT. SEE TRAFFIC CONTROL PLANS.

\*\* NOTE: DITCH CONSTRUCTED DURING DETOUR PHASE TO REMAIN.

68 x 18 x 3  
2.0 inch Skimmer  
with 2.0 inch  
Orifice Diameter  
8 ft. weir  
ID 4.1

35 x 15 x 3  
2 inch Skimmer  
with 1.875 inch  
Orifice Diameter  
5 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 4.4 \*\*

Modified Silt Basin  
Type 'B'  
35 x 15 x 3  
(See Tiered Skimmer  
Basin Detail)  
ID 4.4

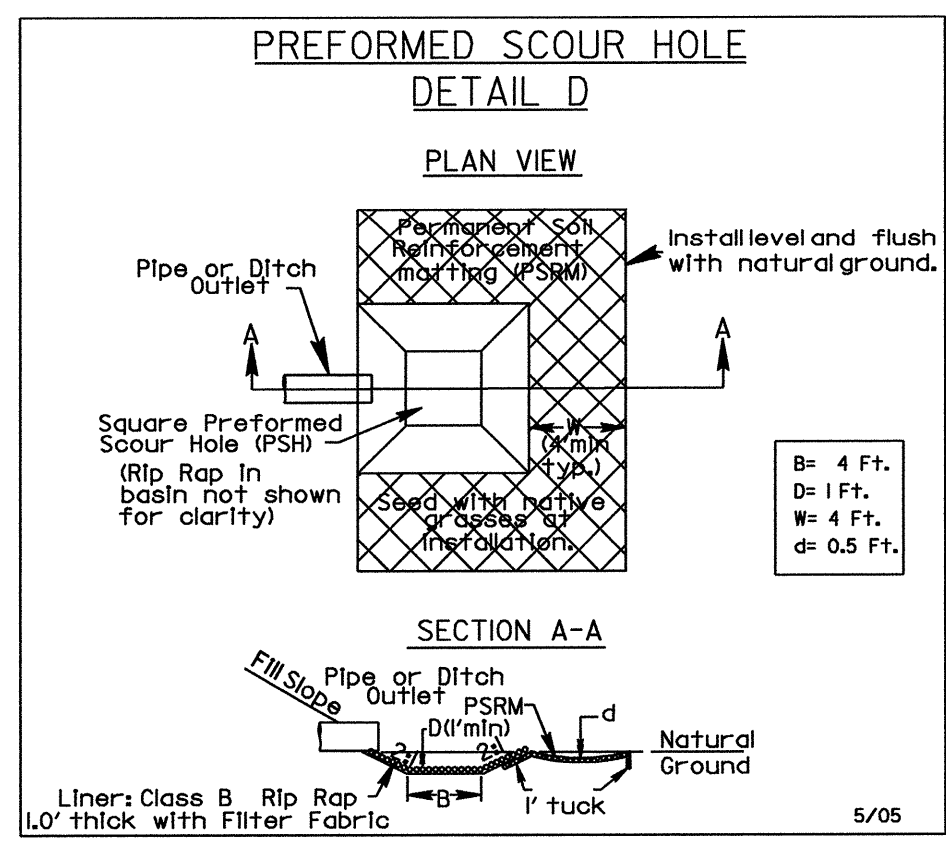
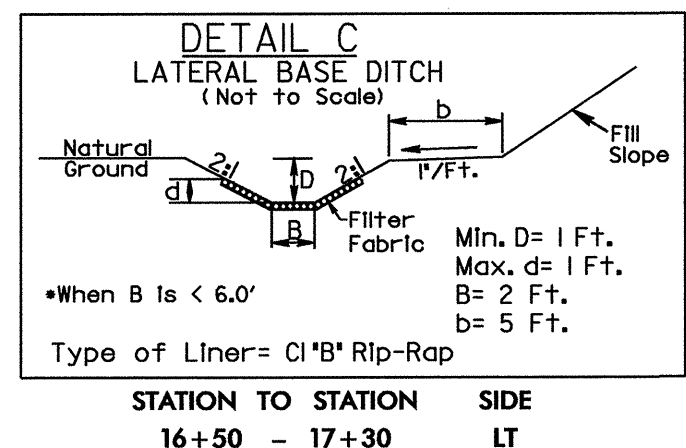
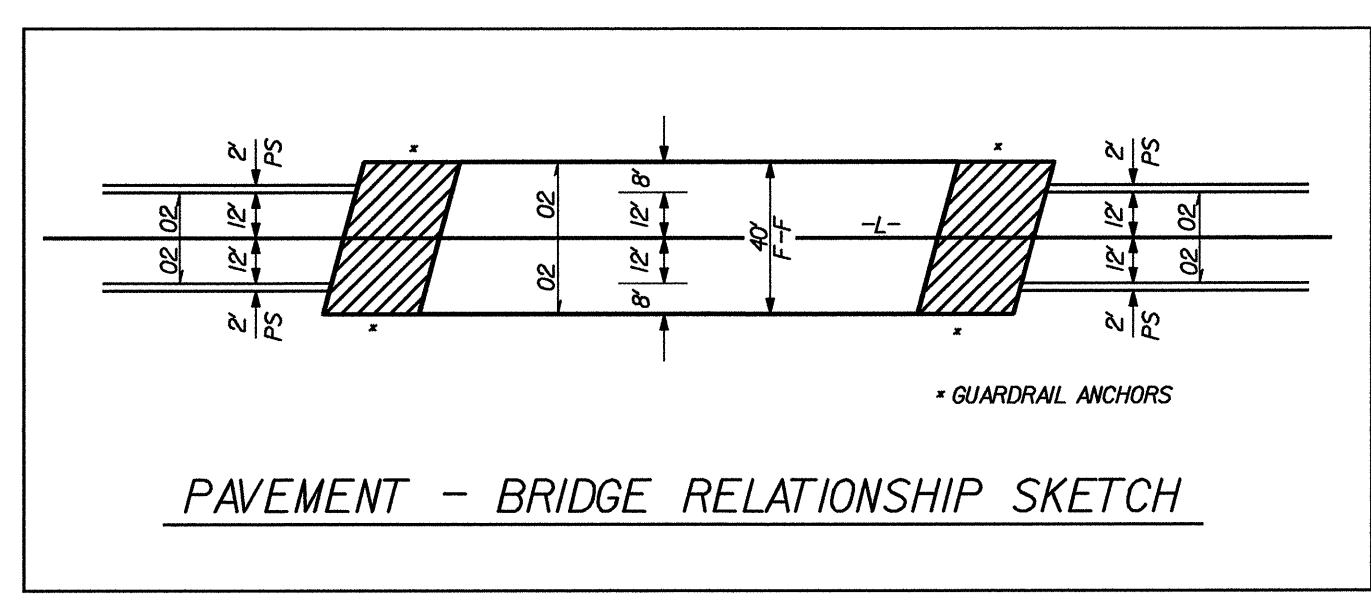
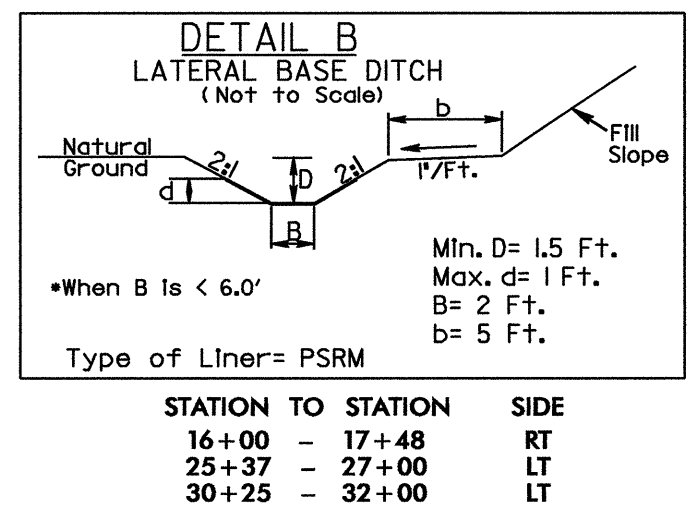
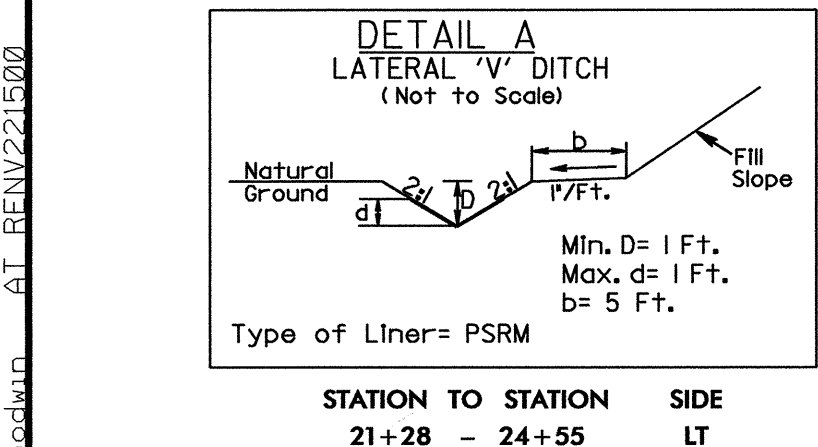
BEGIN PROJECT B-4100  
-L- POC STA. 16+00.00  
S 85°07'30.5" E

17 x 5 x 3  
ID 4.5F

19 x 8 x 3  
4' weir  
ID 4.6

44 x 10 x 3  
5' weir  
ID 4.2

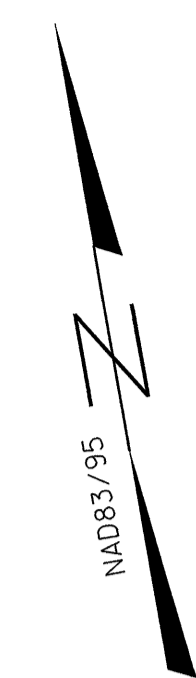
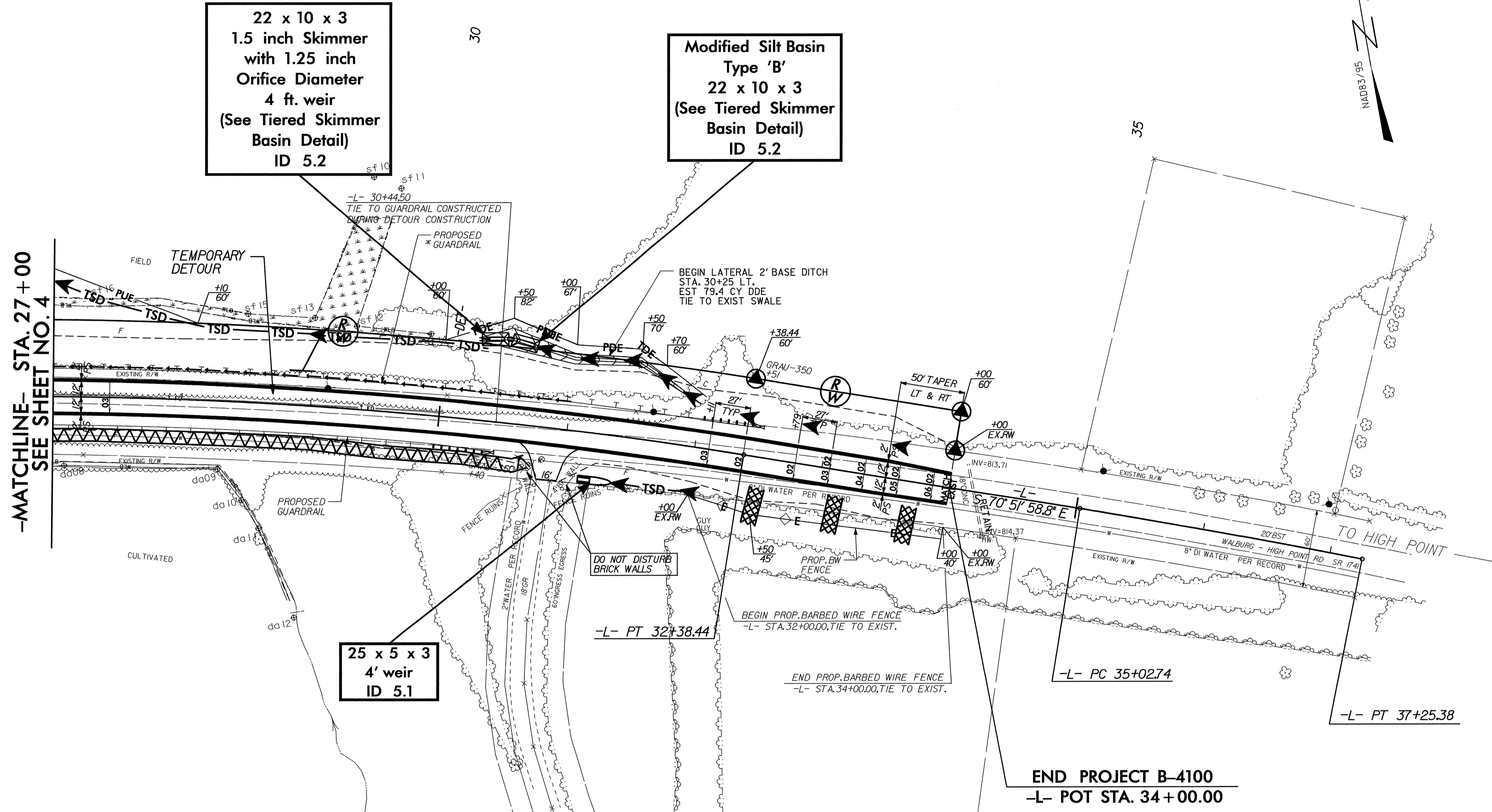
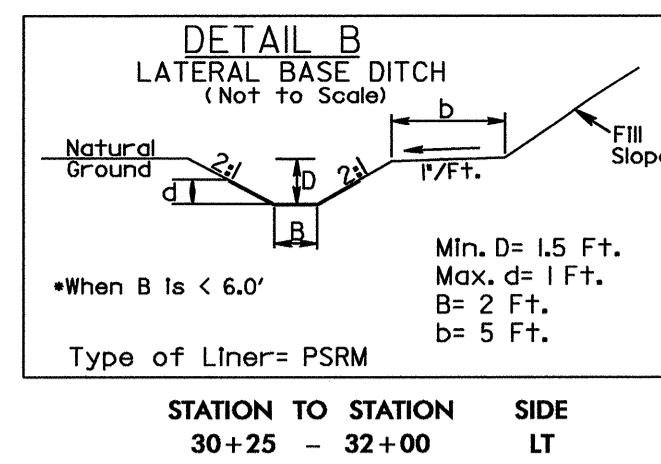
20 x 7 x 3  
1.5 inch Skimmer  
with 0.75 inch  
Orifice Diameter  
4 ft. weir  
ID 4.3



-MATCHLINE- STA. 27+00  
SEE SHEET NO. 5

AT BENV221500

PROJECT REFERENCE NO. <i>B-4100</i>	SHEET NO. <i>EC-08/CONST.05</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-MATCHLINE- STA. 27 + 00  
SEE SHEET NO. 4

END PROJECT B-4100  
-L- POT STA. 34 + 00.00