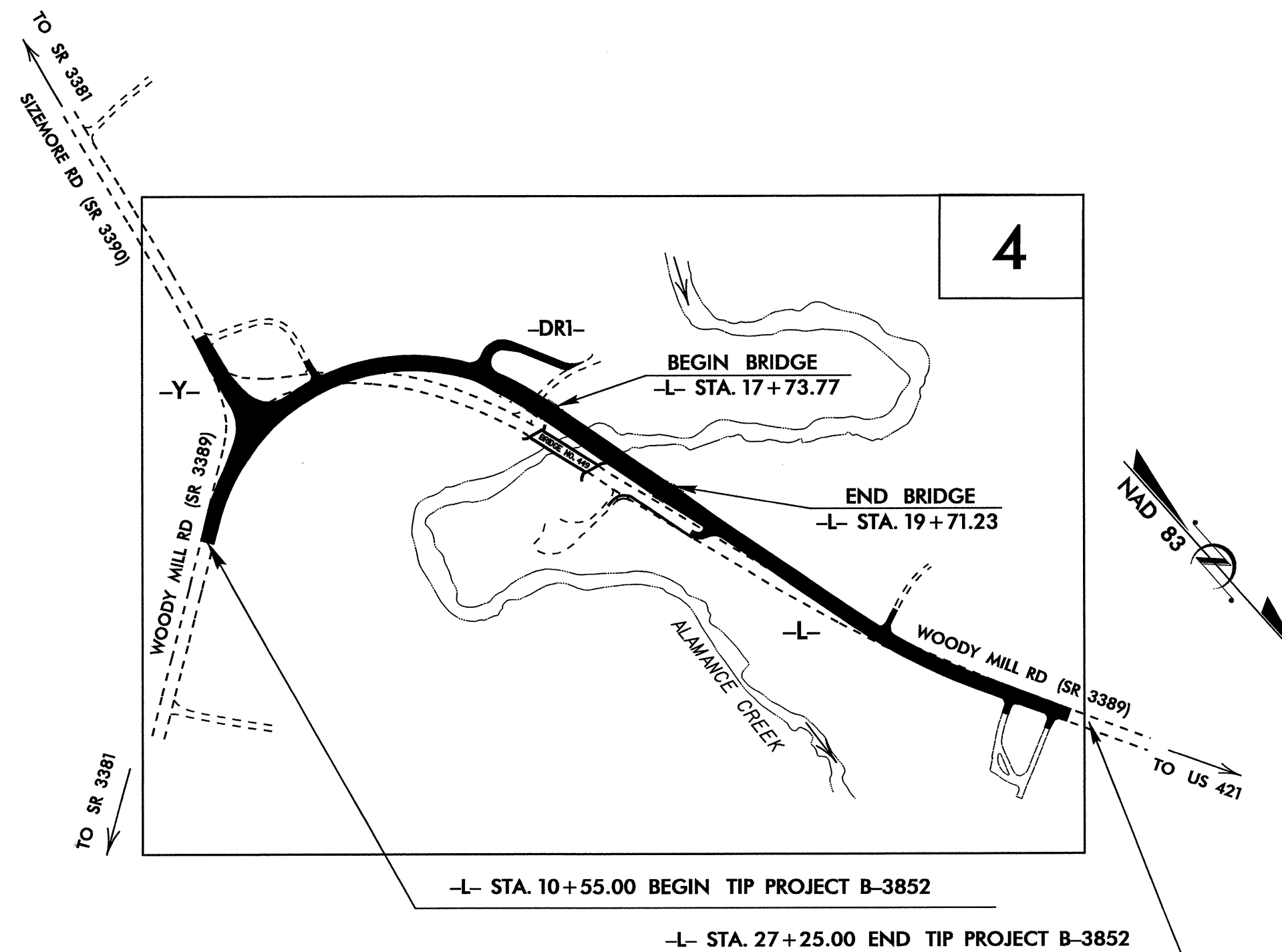


TIP PROJECT: B-3852

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

**LOCATION: BRIDGE NO. 449 OVER ALAMANCE CREEK AND
 APPROACHES ON SR 3389 (WOODY MILL ROAD)
 TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE**



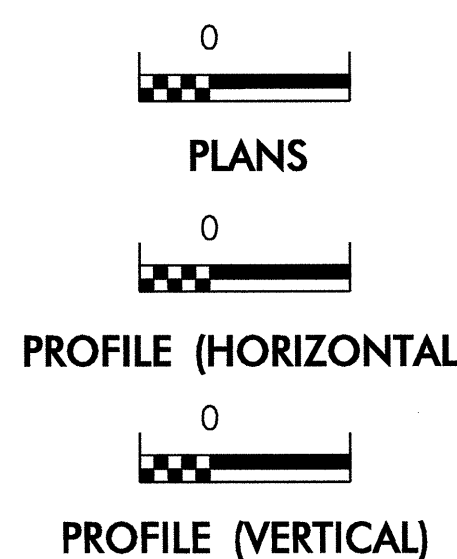
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3852	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

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:	
	Type A	
1632.01	Type B	
1632.02	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

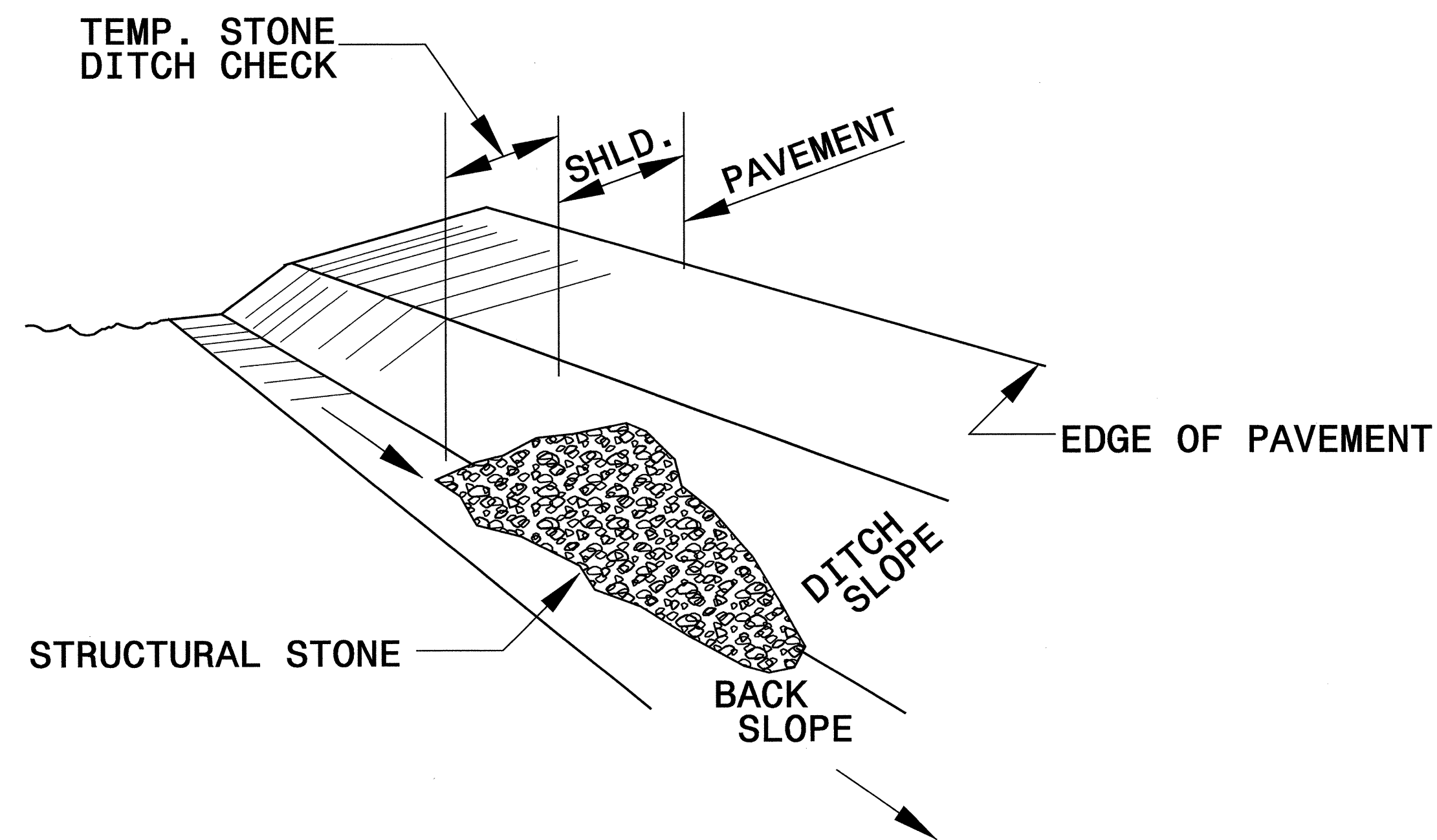
Roadway Standard Drawings

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 | 1630.06 Special Stilling Basin |
| 1607.01 Gravel Construction Entrance | 1632.02 Rock Inlet Sediment Trap Type B |
| 1622.01 Temporary Berms and Slope Drains | 1632.03 Rock Inlet Sediment Trap Type C |
| 1630.02 Silt Basin Type B | 1633.01 Temporary Rock Silt Check Type A |
| | 1634.02 Temporary Rock Sediment Dam Type B |
| | 1635.02 Rock Pipe Inlet Sediment Trap Type B |

PROJECT REFERENCE NO. <i>B-3852</i>	SHEET NO. <i>EC-2</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

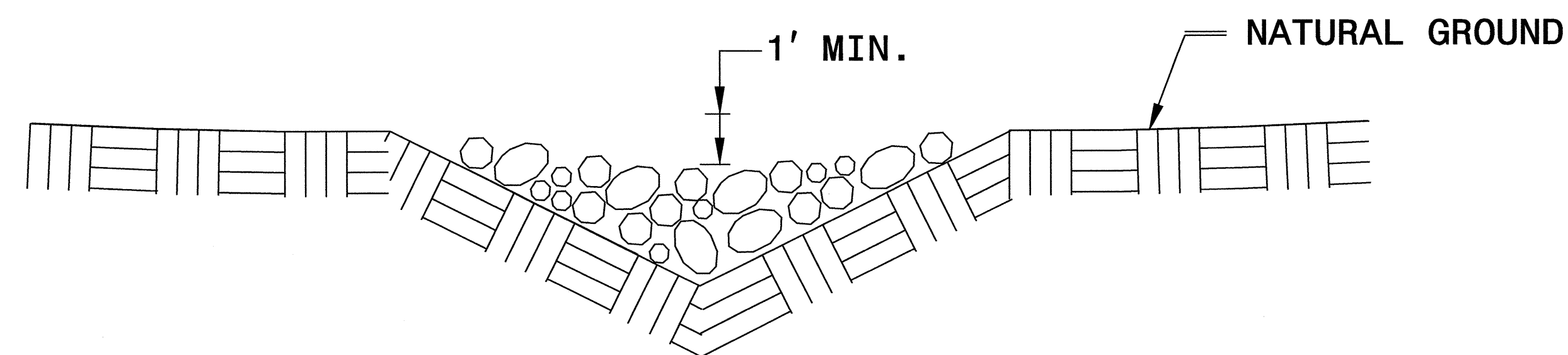


ISOMETRIC VIEW

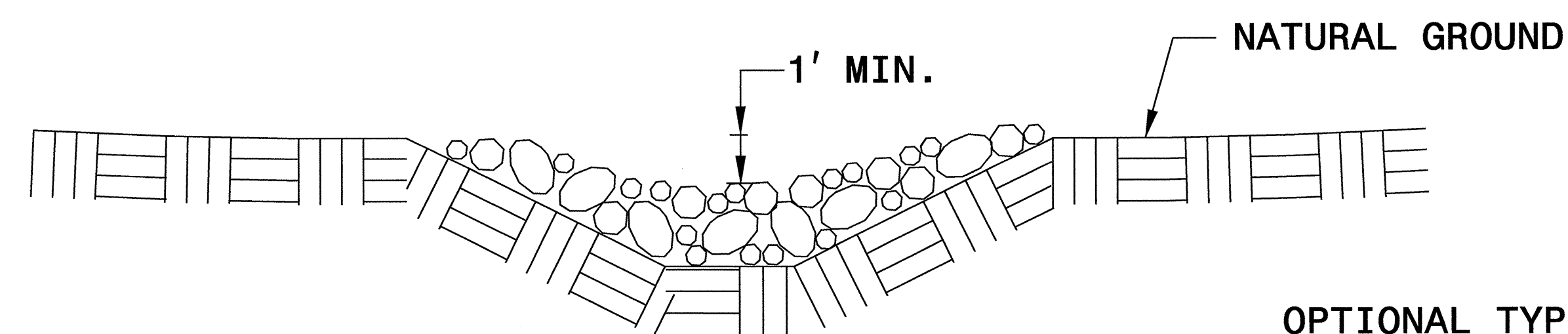
NOTES:

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

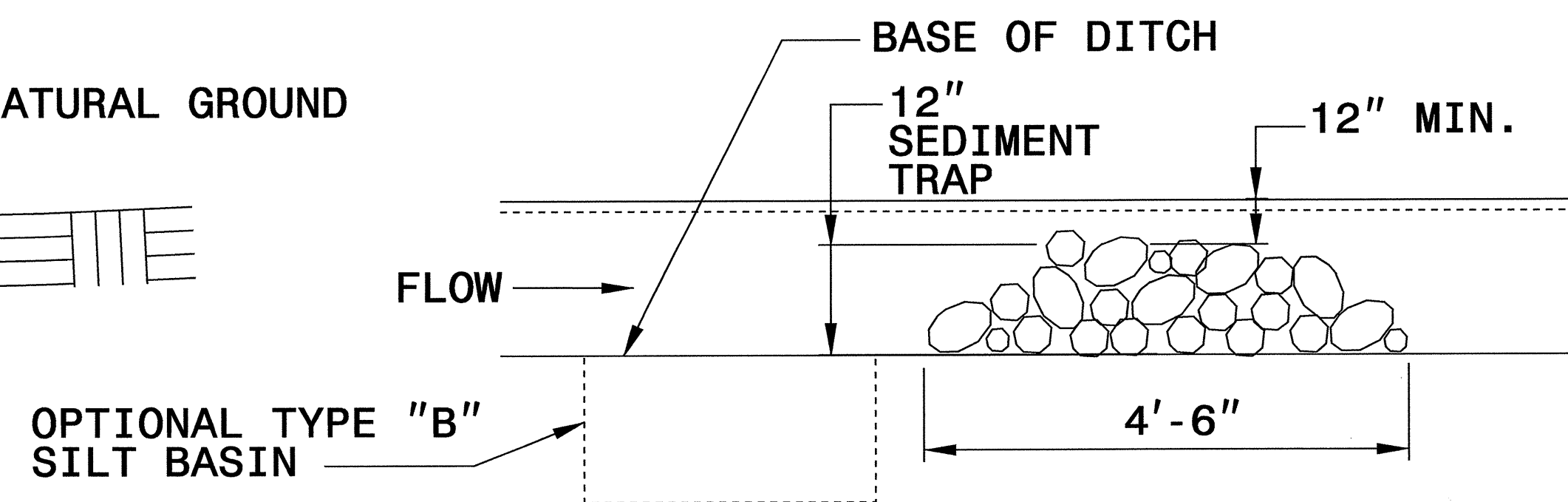
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



**CROSS SECTION
VEE DITCH**



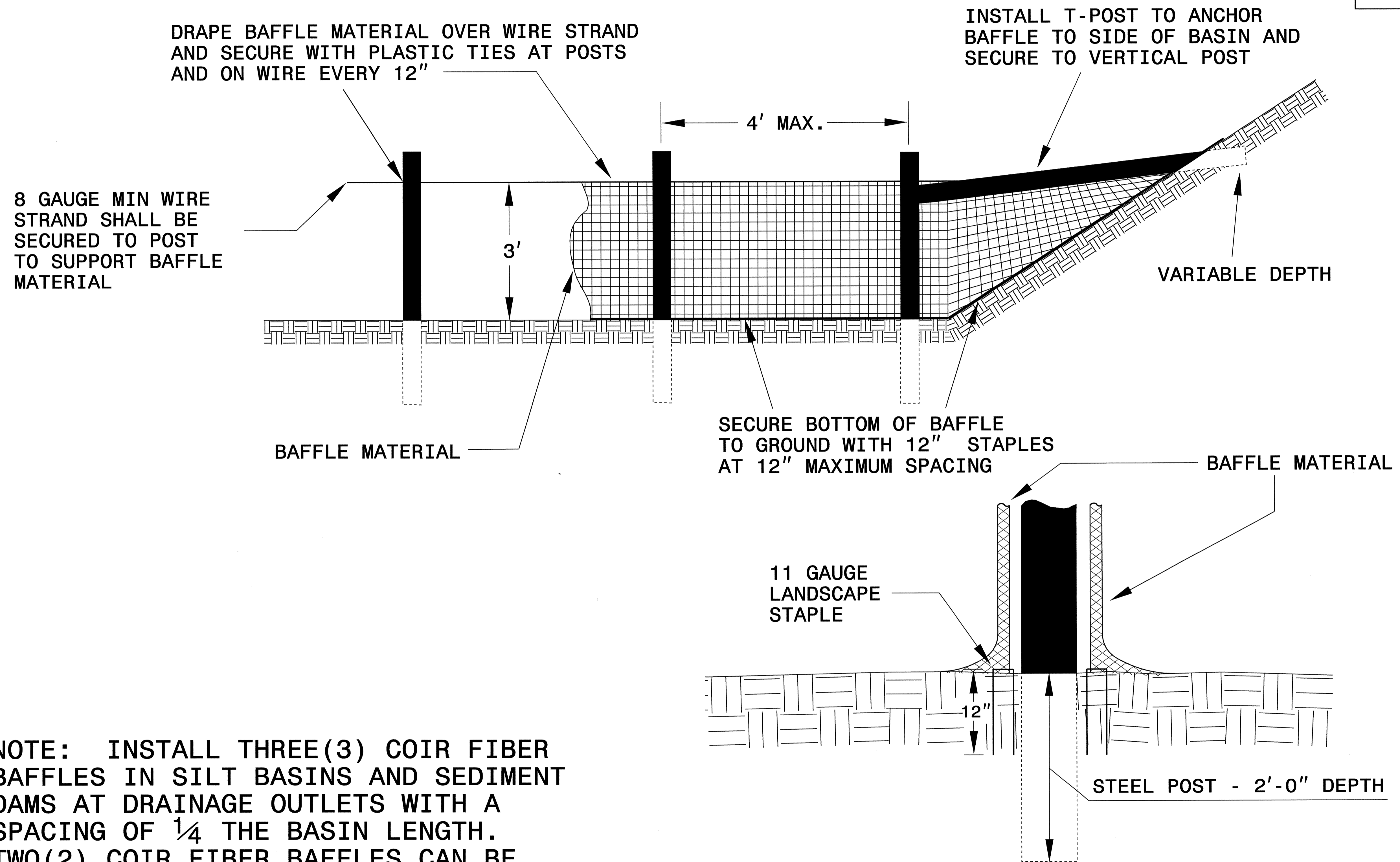
**CROSS SECTION
TRAPEZOIDAL DITCH**



ELEVATION VIEW

PROJECT REFERENCE NO. B-3852	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL

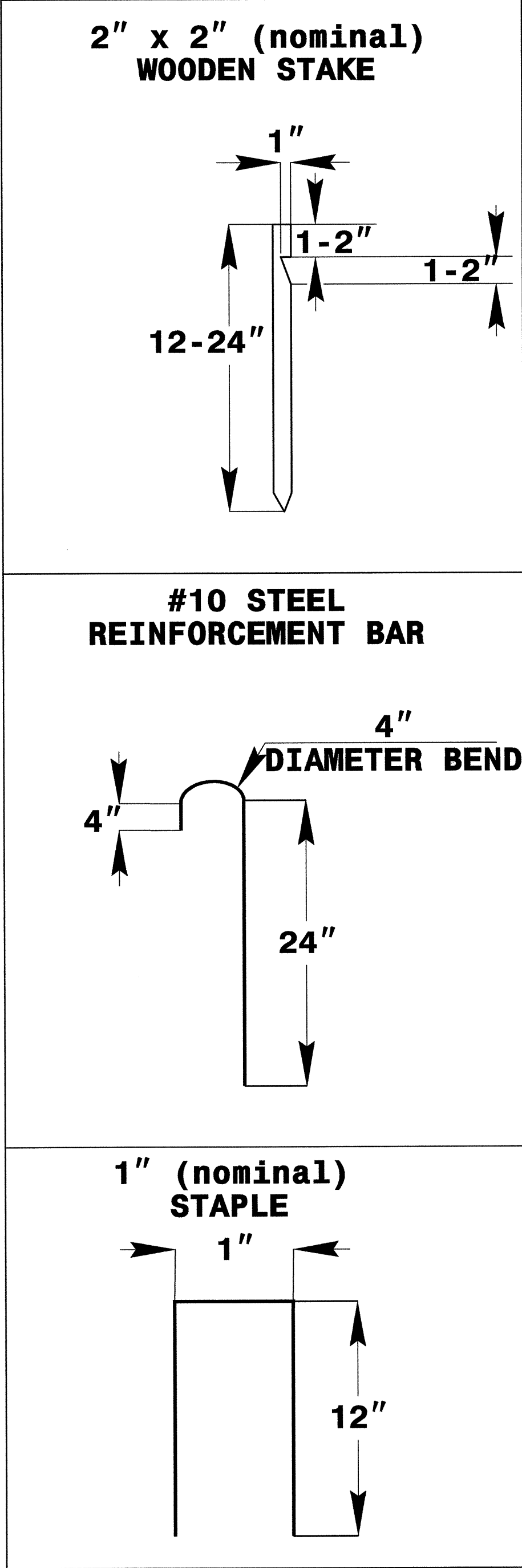
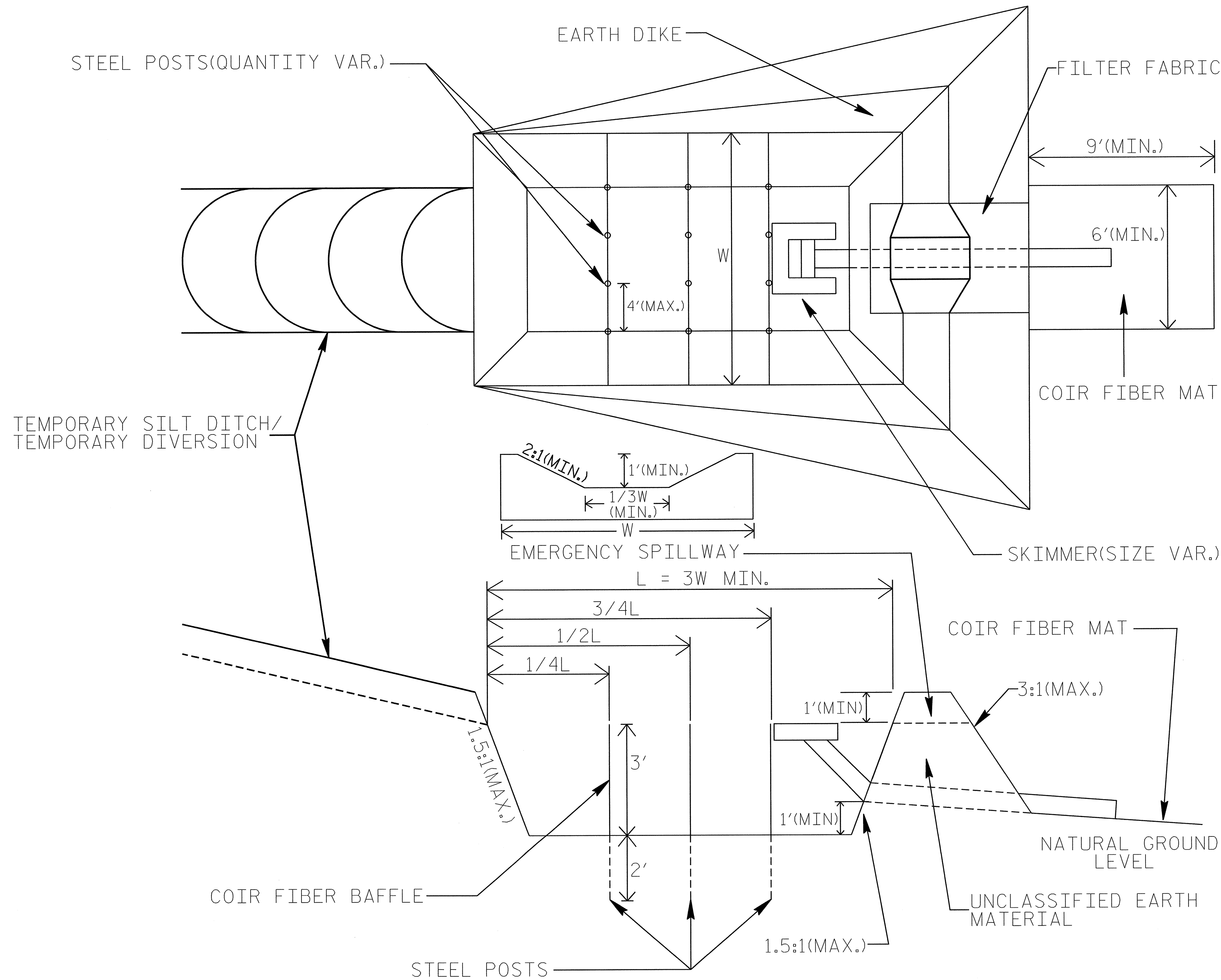


NOTE: INSTALL THREE (3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO (2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

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

SKIMMER BASIN WITH BAFFLES DETAIL

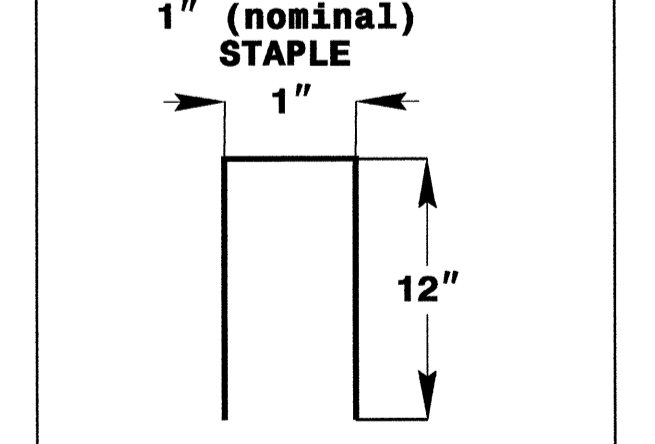
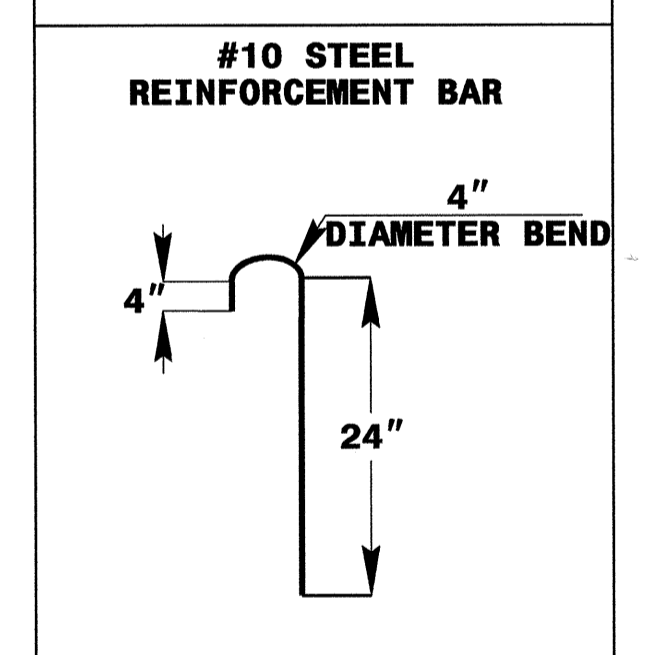
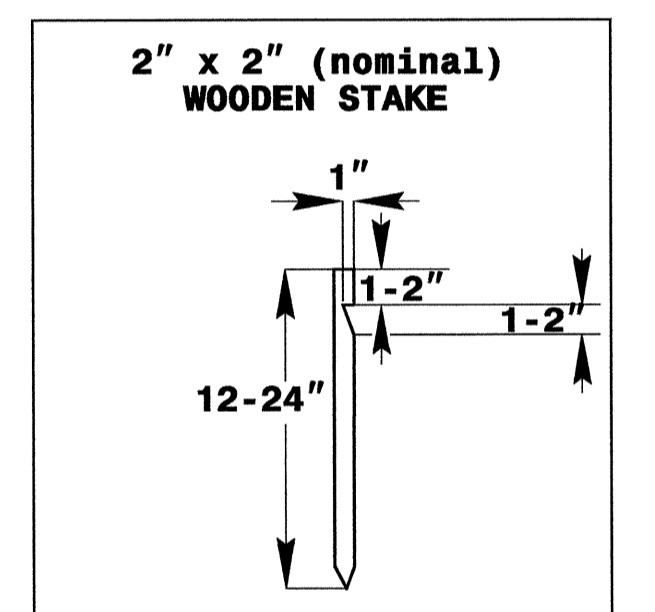
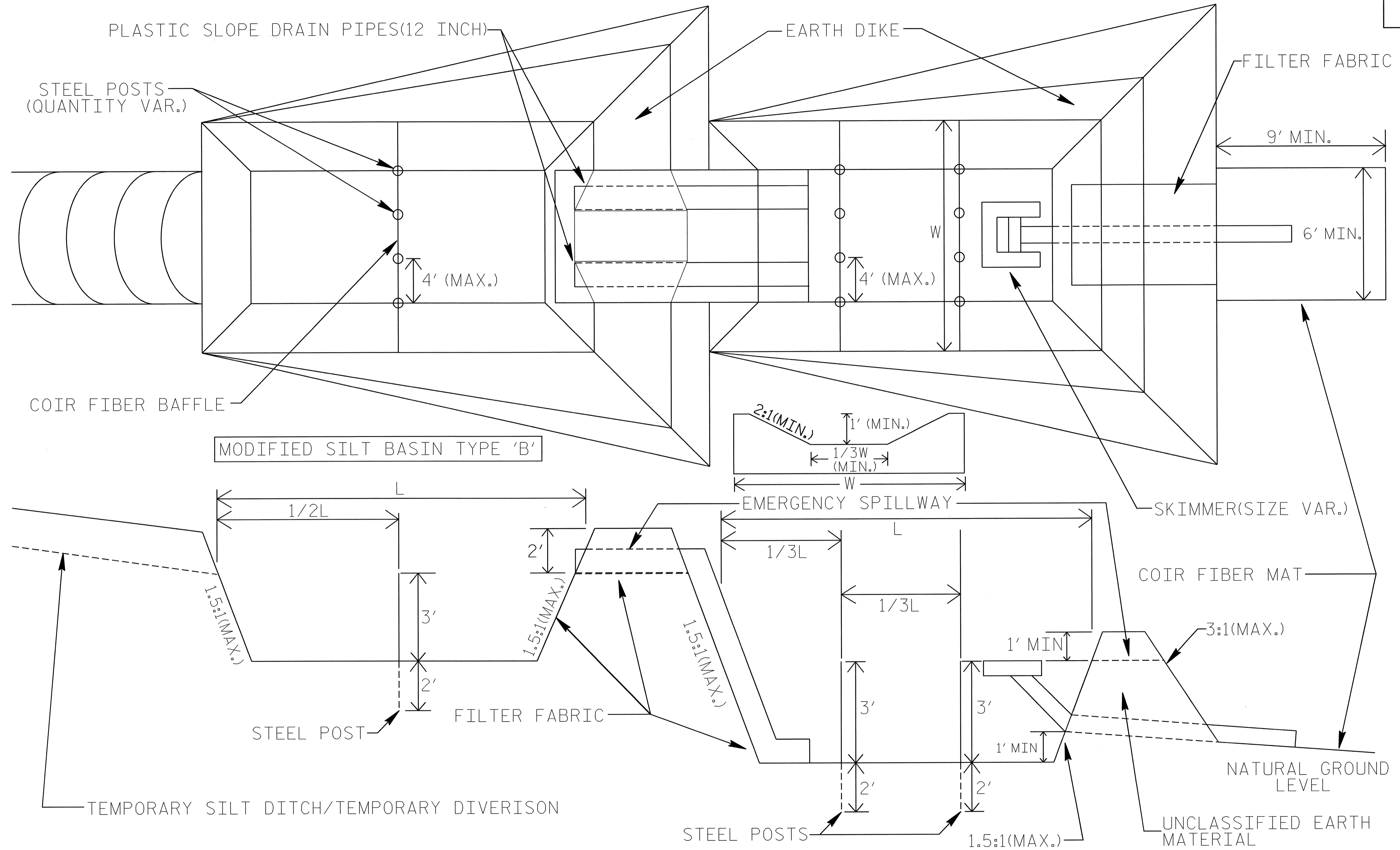
PROJECT REFERENCE NO. B-3852	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



COIR FIBER MAT ANCHOR OPTIONS

TIERED SKIMMER BASIN DETAIL

PROJECT REFERENCE NO. B-3852	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



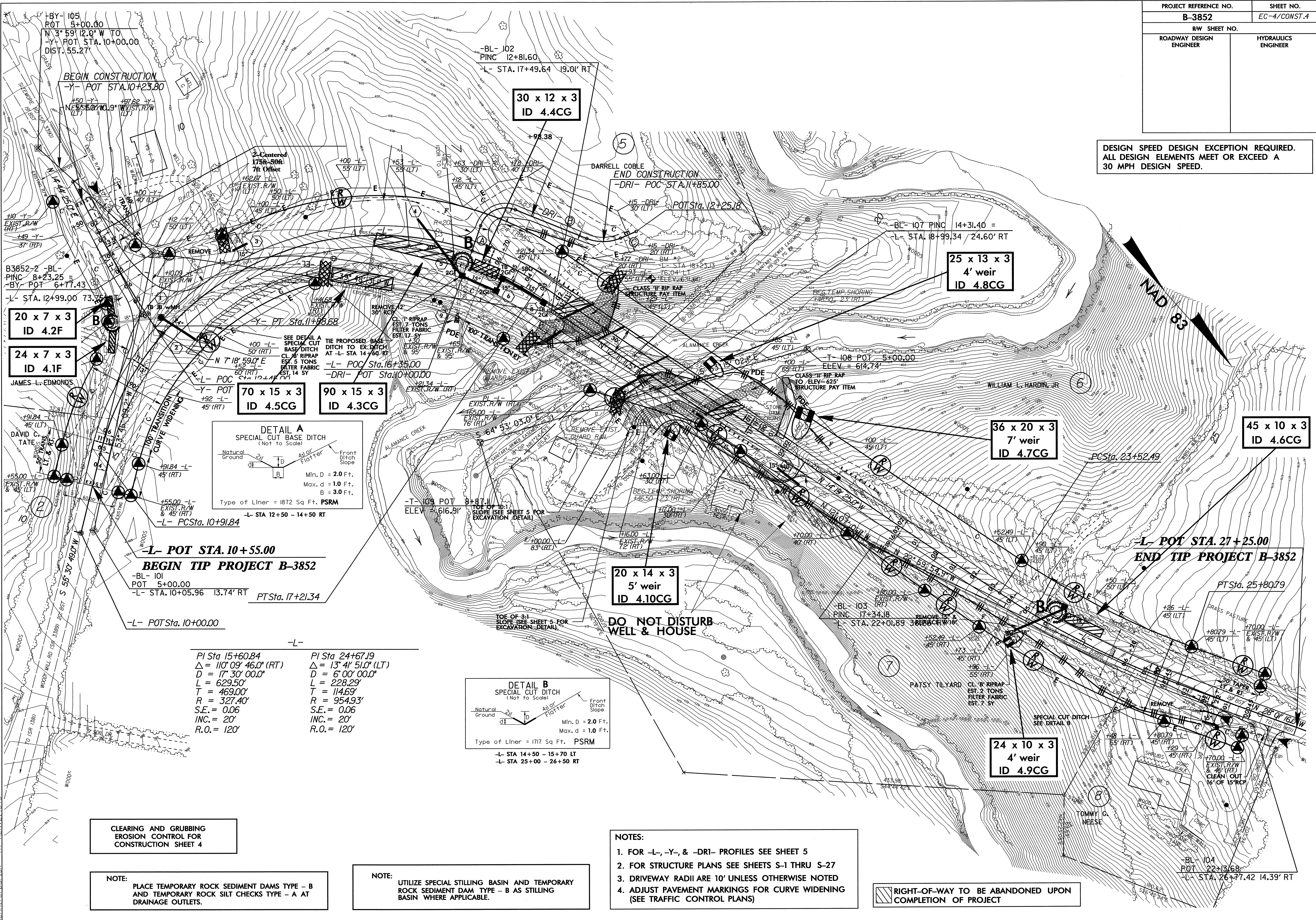
COIR FIBER MAT ANCHOR OPTIONS

NOTE

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

PROJECT REFERENCE NO.	SHEET NO.
B-3852	EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DESIGN SPEED DESIGN EXCEPTION REQUIRED.
ALL DESIGN ELEMENTS MEET OR EXCEED A
30 MPH DESIGN SPEED.



BY-105
POT 5+00.00
N 3° 59' 12.0" W TO
Y- POT STA. 10+00.00
DIST. 55.27'

BEGIN CONSTRUCTION
-Y- POT STA. 10+23.80

30 x 12 x 3
ID 4.4CG

25 x 13 x 3
4' weir
ID 4.8CG

20 x 7 x 3
ID 4.2F

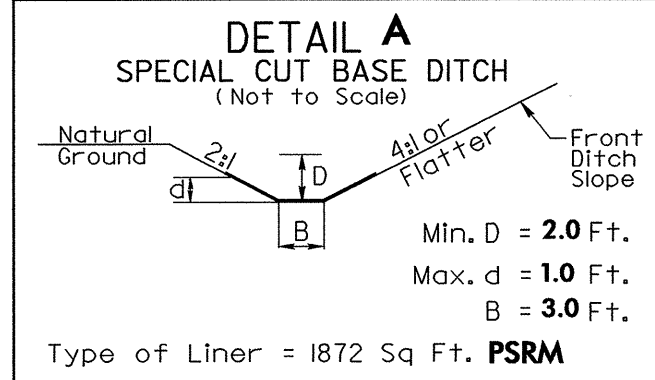
24 x 7 x 3
ID 4.1F

70 x 15 x 3
ID 4.5CG

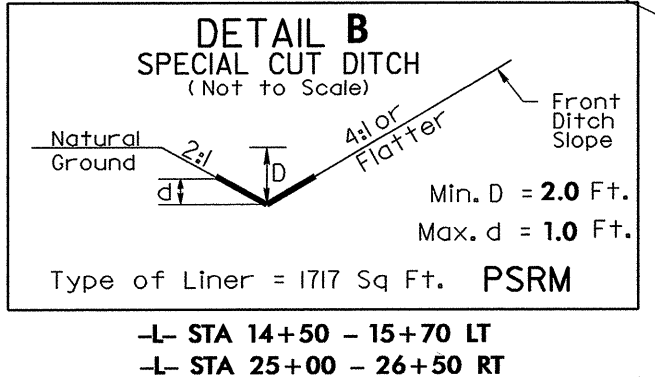
90 x 15 x 3
ID 4.3CG

36 x 20 x 3
7' weir
ID 4.7CG

45 x 10 x 3
ID 4.6CG



20 x 14 x 3
5' weir
ID 4.10CG



PI Sta 15+60.84	PI Sta 24+67.19
Δ = 110° 09' 46.0" (RT)	Δ = 13° 41' 51.0" (LT)
D = 17' 30" 00.0"	D = 6' 00" 00.0"
L = 629.50'	L = 228.29'
T = 469.00'	T = 114.69'
R = 327.40'	R = 954.93'
S.E. = 0.06	S.E. = 0.06
INC. = 20'	INC. = 20'
R.O. = 120'	R.O. = 120'

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.

NOTE:
UTILIZE SPECIAL STILLING BASIN AND TEMPORARY
ROCK SEDIMENT DAM TYPE - B AS STILLING
BASIN WHERE APPLICABLE.

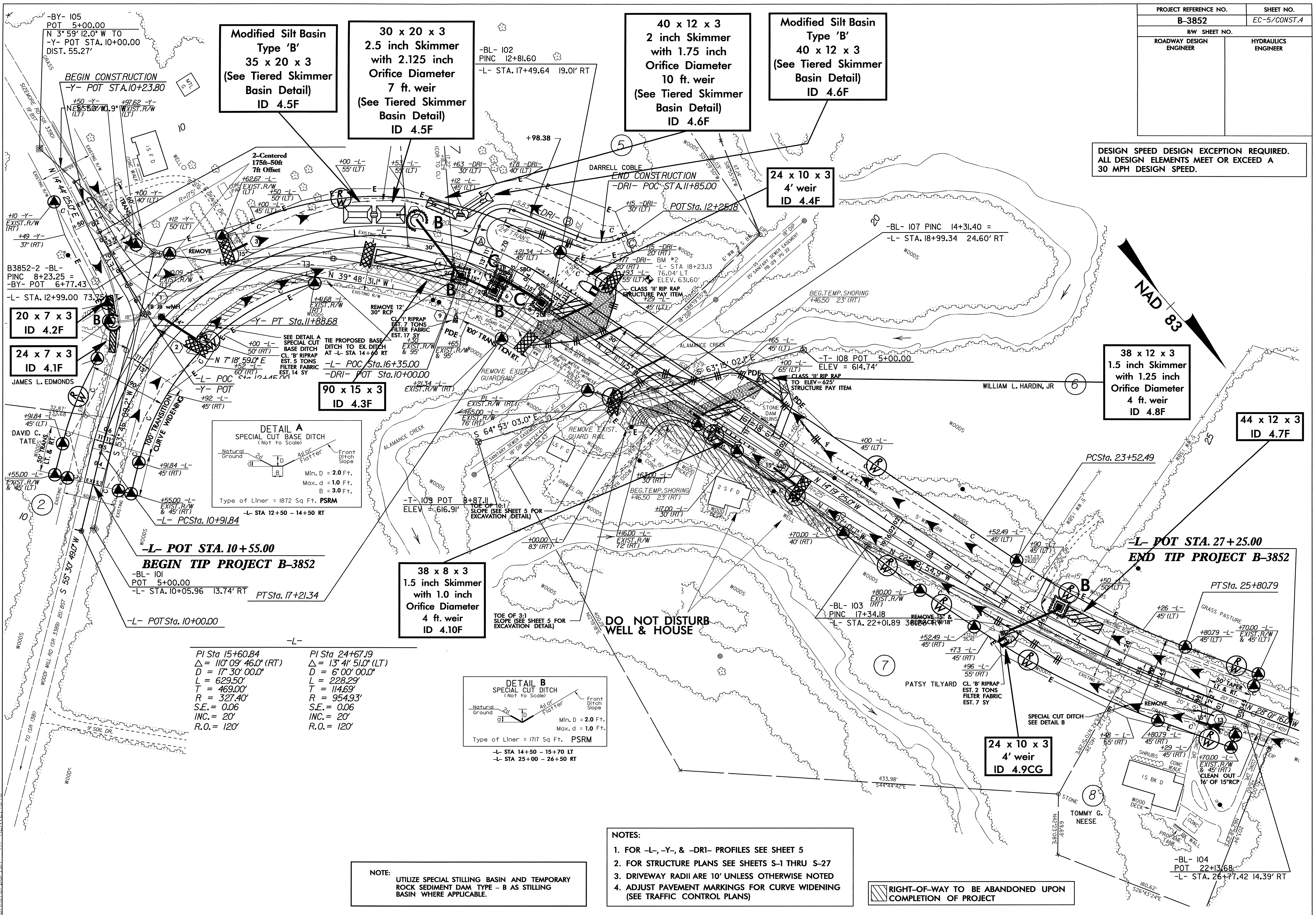
NOTES:
1. FOR -L-, -Y-, & -DRI- PROFILES SEE SHEET 5
2. FOR STRUCTURE PLANS SEE SHEETS S-1 THRU S-27
3. DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
4. ADJUST PAVEMENT MARKINGS FOR CURVE WIDENING
(SEE TRAFFIC CONTROL PLANS)

RIGHT-OF-WAY TO BE ABANDONED UPON
COMPLETION OF PROJECT

02-SEP-2007 11:05
g:\tipr-objects-b\3852\environmental\design\3852.ec-psrh.dgn
jenniferparish AL REV 2/14/06

PROJECT REFERENCE NO.	SHEET NO.
B-3852	EC-5/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DESIGN SPEED DESIGN EXCEPTION REQUIRED. ALL DESIGN ELEMENTS MEET OR EXCEED A 30 MPH DESIGN SPEED.



Modified Silt Basin Type 'B'
35 x 20 x 3
(See Tiered Skimmer Basin Detail)
ID 4.5F

30 x 20 x 3
2.5 inch Skimmer
with 2.125 inch Orifice Diameter
7 ft. weir
(See Tiered Skimmer Basin Detail)
ID 4.5F

40 x 12 x 3
2 inch Skimmer
with 1.75 inch Orifice Diameter
10 ft. weir
(See Tiered Skimmer Basin Detail)
ID 4.6F

Modified Silt Basin Type 'B'
40 x 12 x 3
(See Tiered Skimmer Basin Detail)
ID 4.6F

24 x 10 x 3
4' weir
ID 4.4F

20 x 7 x 3
ID 4.2F

24 x 7 x 3
ID 4.1F

90 x 15 x 3
ID 4.3F

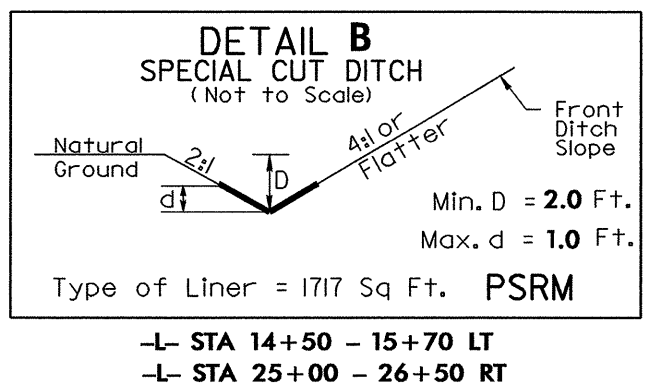
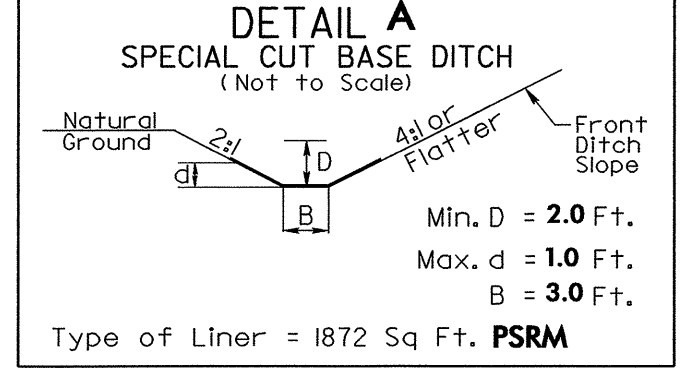
38 x 12 x 3
1.5 inch Skimmer
with 1.25 inch Orifice Diameter
4 ft. weir
ID 4.8F

44 x 12 x 3
ID 4.7F

38 x 8 x 3
1.5 inch Skimmer
with 1.0 inch Orifice Diameter
4 ft. weir
ID 4.10F

24 x 10 x 3
4' weir
ID 4.9CG

PI Sta 15+60.84 PI Sta 24+67.19
 $\Delta = 110^{\circ} 09' 46.0''$ (RT) $\Delta = 13^{\circ} 41' 51.0''$ (LT)
 $D = 17^{\circ} 30' 00.0''$ $D = 6^{\circ} 00' 00.0''$
 $L = 629.50'$ $L = 228.29'$
 $T = 469.00'$ $T = 114.69'$
 $R = 327.40'$ $R = 954.93'$
 $S.E. = 0.06$ $S.E. = 0.06$
 $INC. = 20'$ $INC. = 20'$
 $R.O. = 120'$ $R.O. = 120'$



DO NOT DISTURB WELL & HOUSE

- NOTES:**
- FOR -L-, -Y-, & -DRI- PROFILES SEE SHEET 5
 - FOR STRUCTURE PLANS SEE SHEETS S-1 THRU S-27
 - DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
 - ADJUST PAVEMENT MARKINGS FOR CURVE WIDENING (SEE TRAFFIC CONTROL PLANS)

NOTE: UTILIZE SPECIAL STILLING BASIN AND TEMPORARY ROCK SEDIMENT DAM TYPE - B AS STILLING BASIN WHERE APPLICABLE.

RIGHT-OF-WAY TO BE ABANDONED UPON COMPLETION OF PROJECT

04-SEP-2007 10:18
 g:\tipprojects-b\3852\env\com\mental\design\b3852.ec.psh.dgn
 lenniferbach AT RENY214546