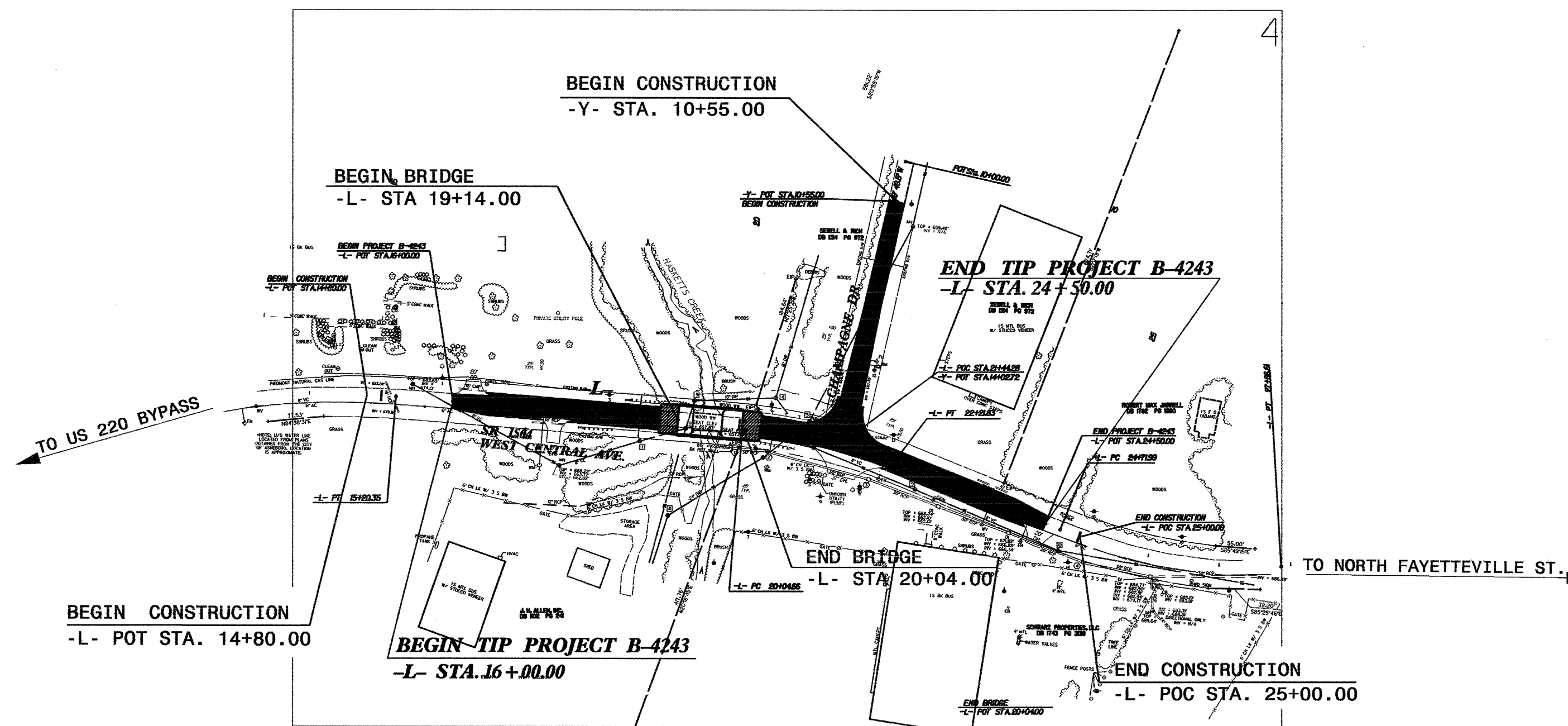


TIP PROJECT: B-4243

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

RANDOLPH COUNTY

**LOCATION: BRIDGE NO. 71 OVER HASKETTS CREEK
ON SR 1504 IN ASHEBORO
TYPE OF WORK: GRADING, DRAINAGE, PAVING, & STRUCTURE**



| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C. | B-4243 | 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

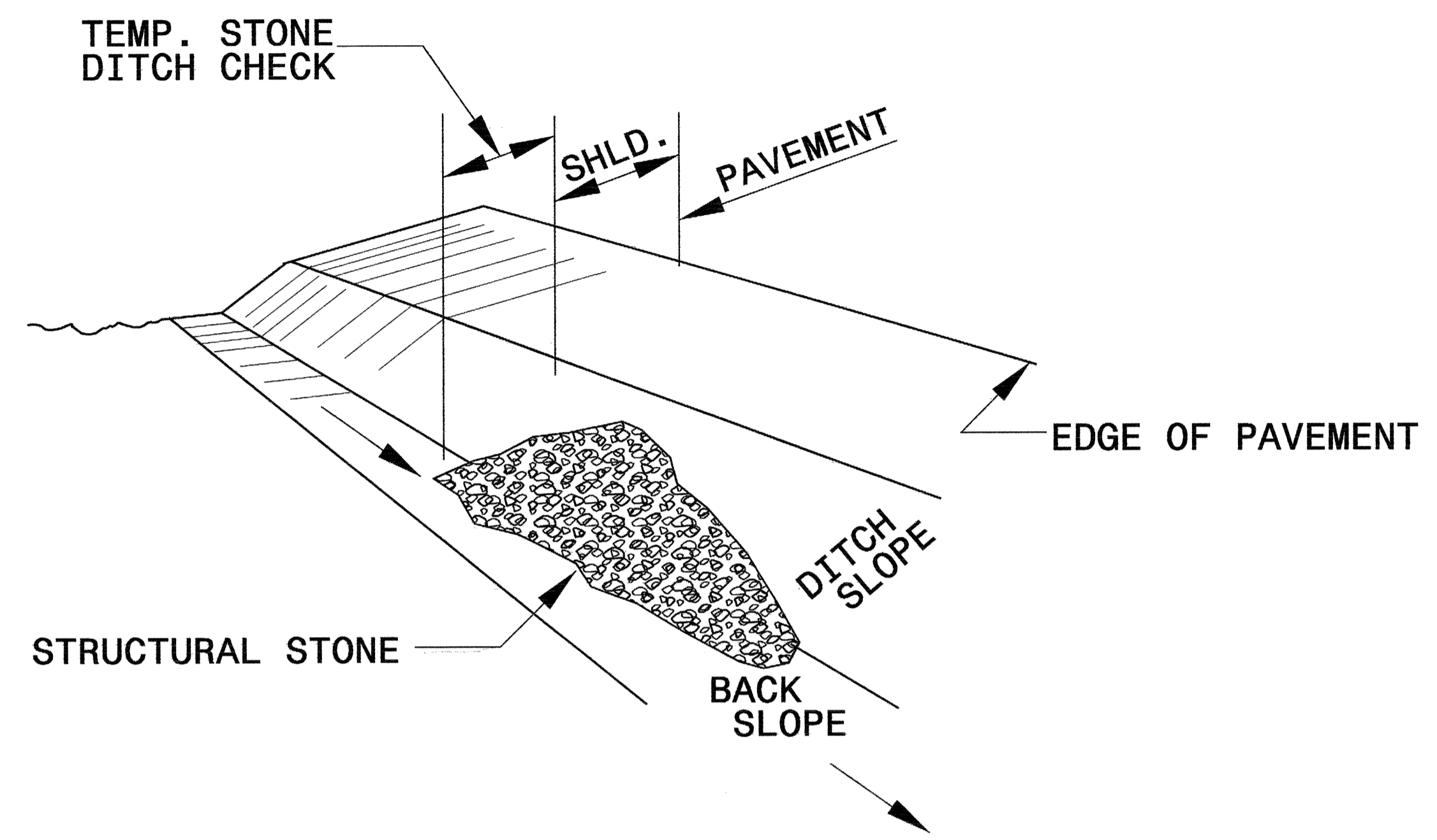
Roadway Standard Drawings

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 | 1632.02 Rock Inlet Sediment Trap Type B |
| 1607.01 Gravel Construction Entrance | 1633.01 Temporary Rock Silt Check Type A |
| 1630.02 Silt Basin Type B | 1635.01 Rock Pipe Inlet Sediment Trap Type A |
| 1630.05 Temporary Diversion | 1635.02 Rock Pipe Inlet Sediment Trap Type B |

| | |
|---------------------------------|------------------------|
| PROJECT REFERENCE NO. B-4243 | SHEET NO. EC-2 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

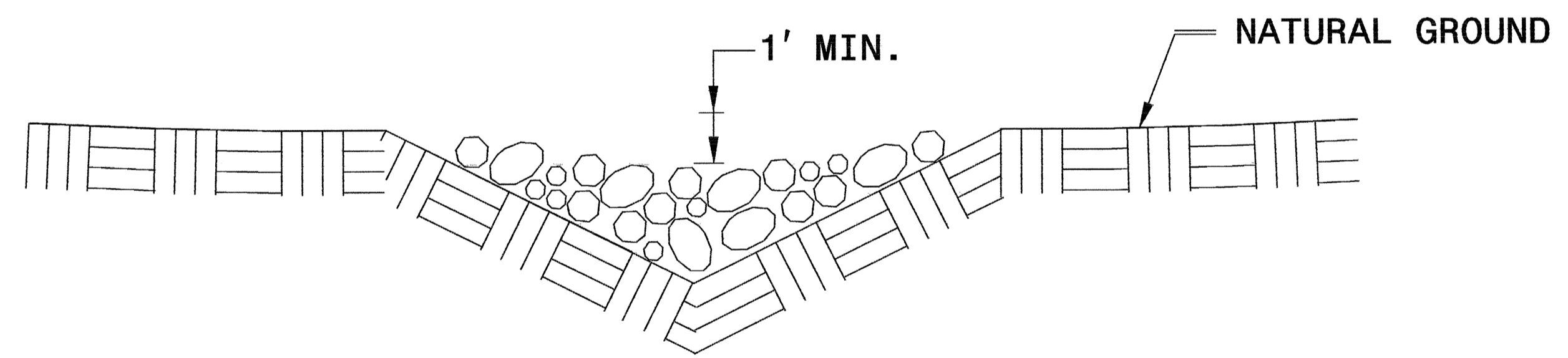


ISOMETRIC VIEW

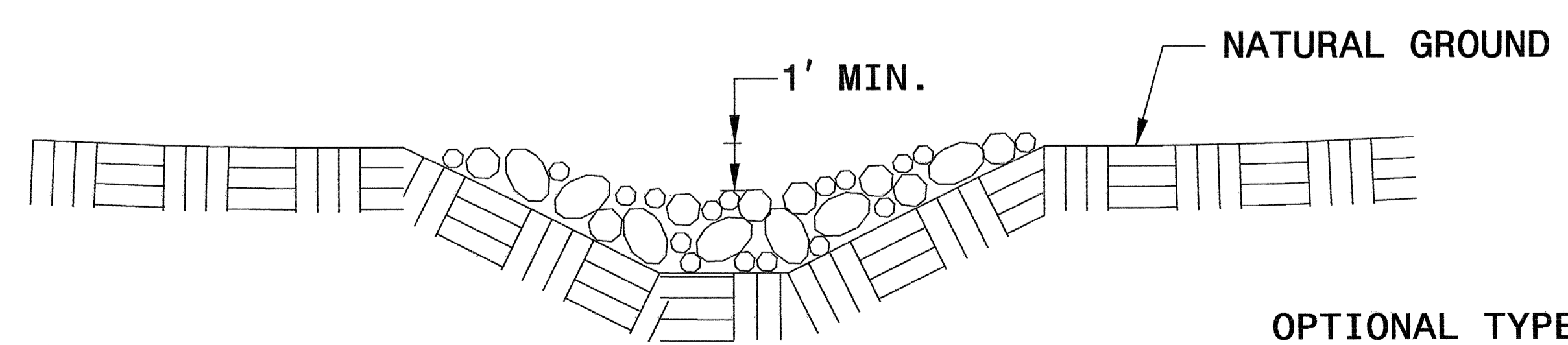
NOTES:

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

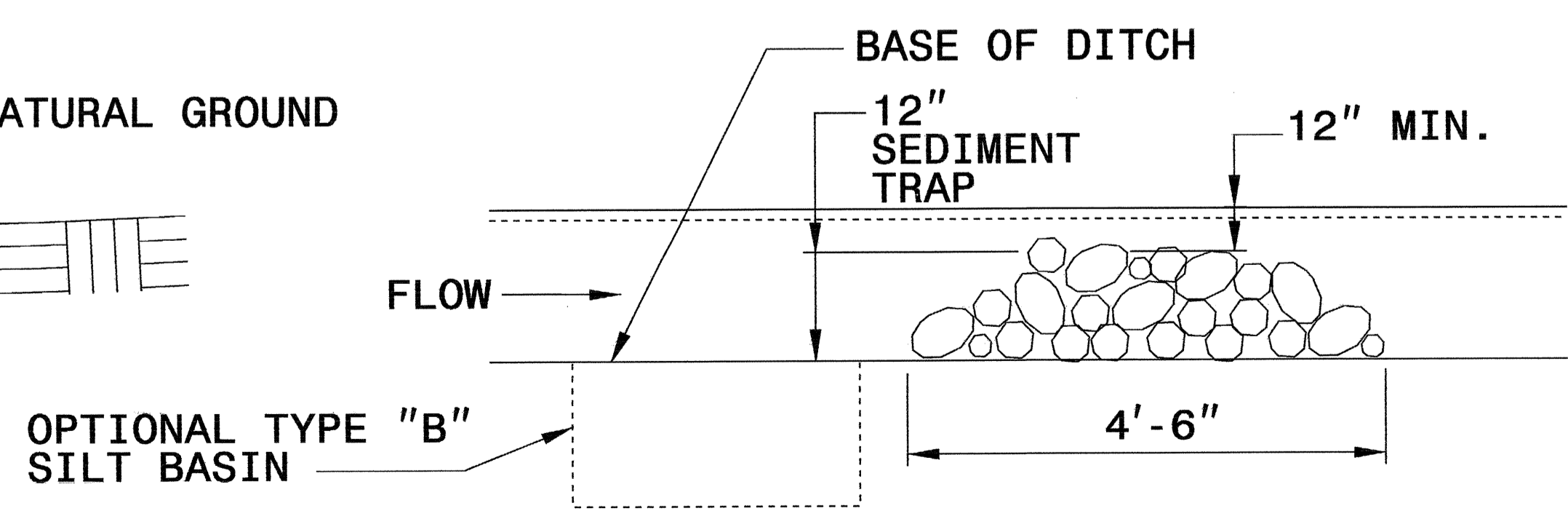
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



**CROSS SECTION
VEE DITCH**



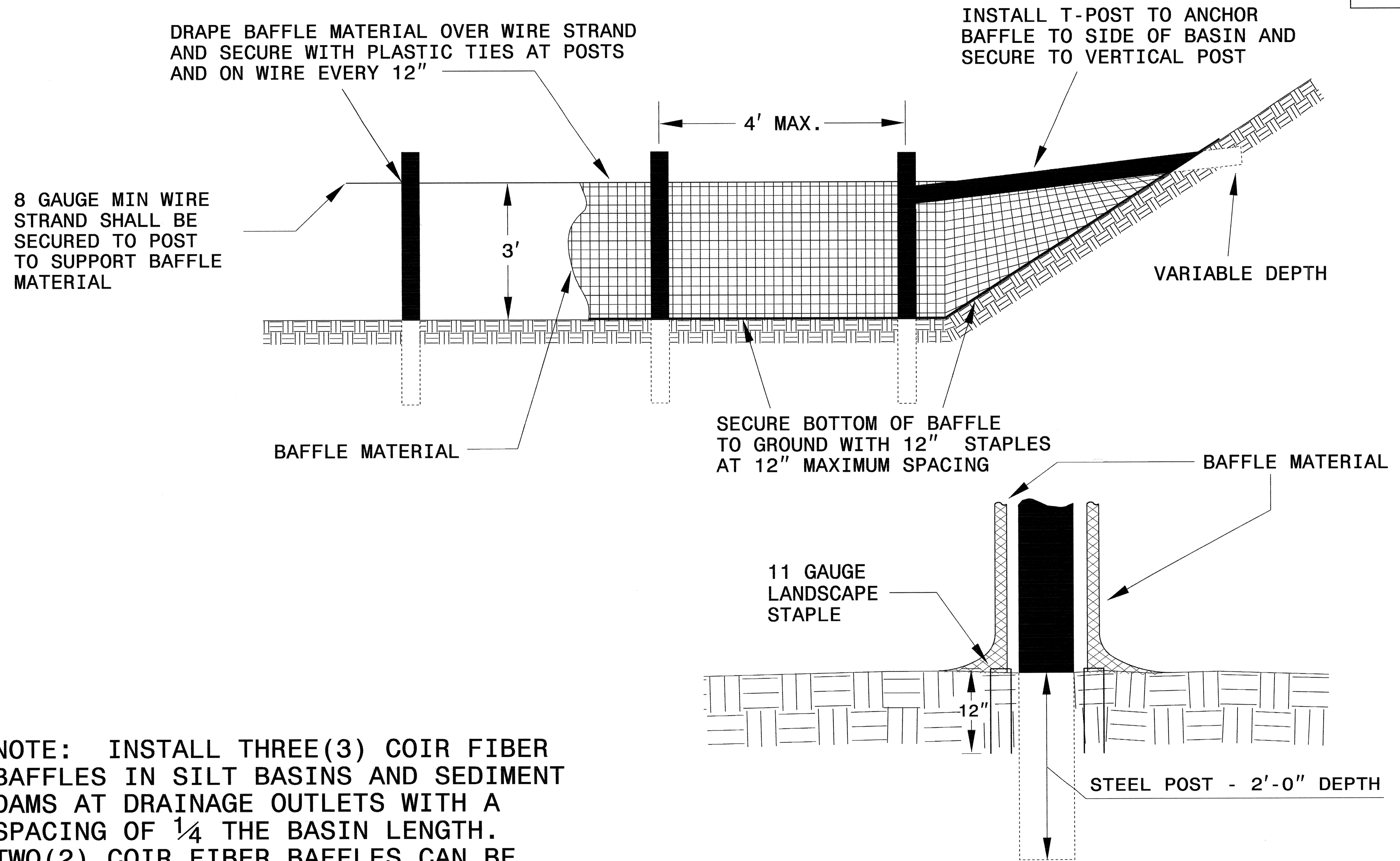
**CROSS SECTION
TRAPEZOIDAL DITCH**



ELEVATION VIEW

| | |
|--|---------------------------|
| PROJECT REFERENCE NO. <i>B-4243</i> | SHEET NO. <i>EC-2A</i> |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

COIR FIBER BAFFLE DETAIL

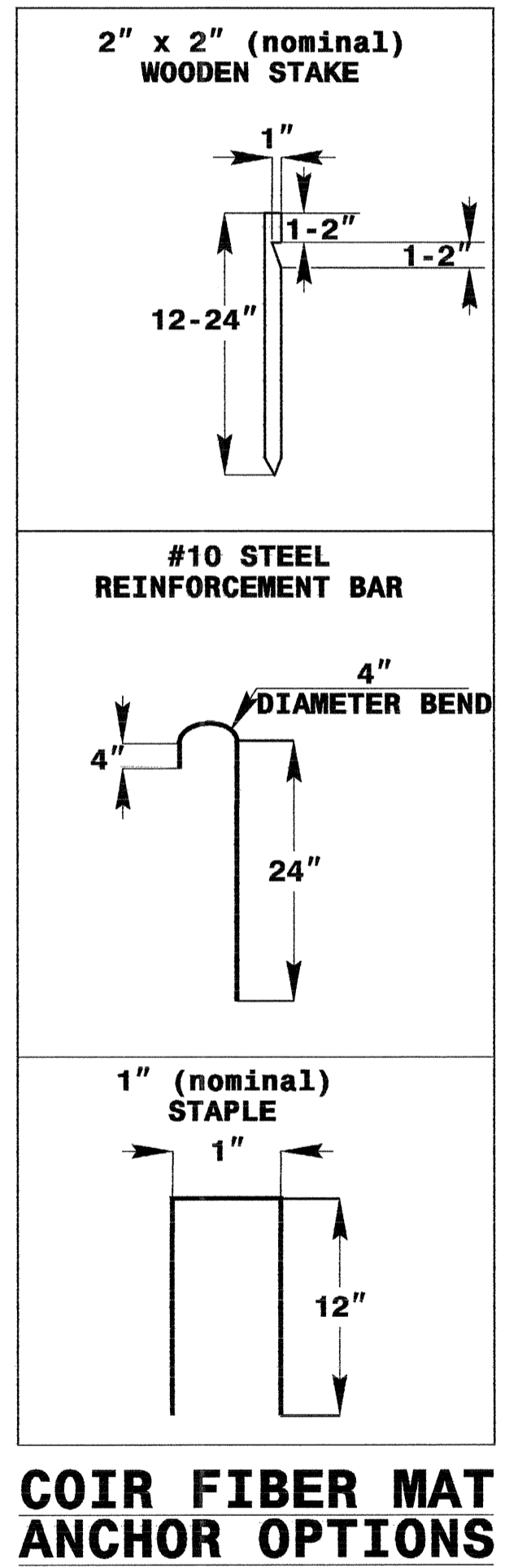
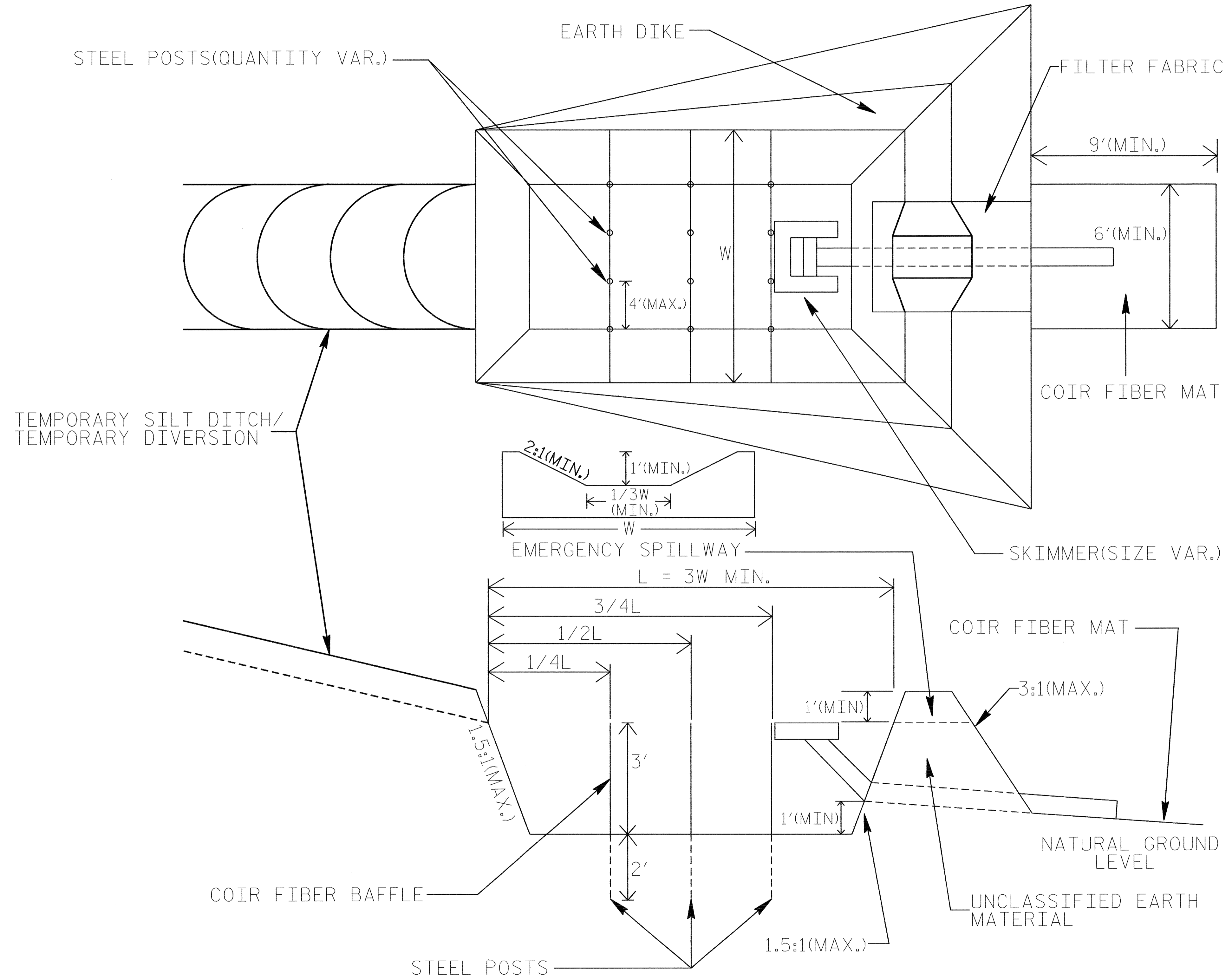


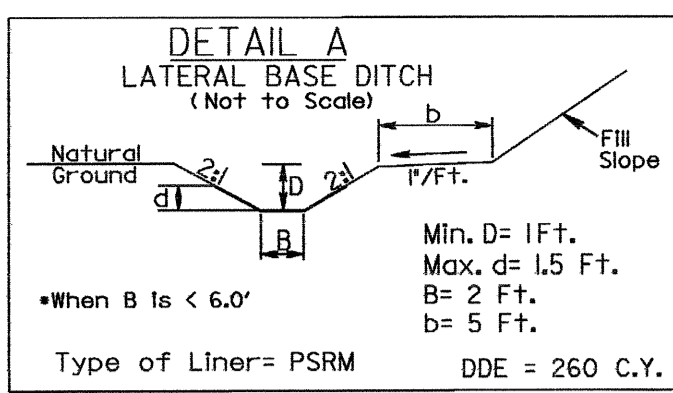
NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

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-4243 | SHEET NO. EC-2B |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |





FROM -L- STA. 18+00 TO STA. 19+43 LT
 FROM -L- STA. 19+60 TO STA. 20+92 LT
 FROM -L- STA. 17+60 TO STA. 19+55 RT

ENERGIZER BATTERY MANUFACTURING, INC.
 DB 1883 PG 2238

48 x 10 x 3
 1.5 inch Skimmer
 with 1.375 inch
 Orifice Diameter
 6 ft. weir
 ID 4.10 CG

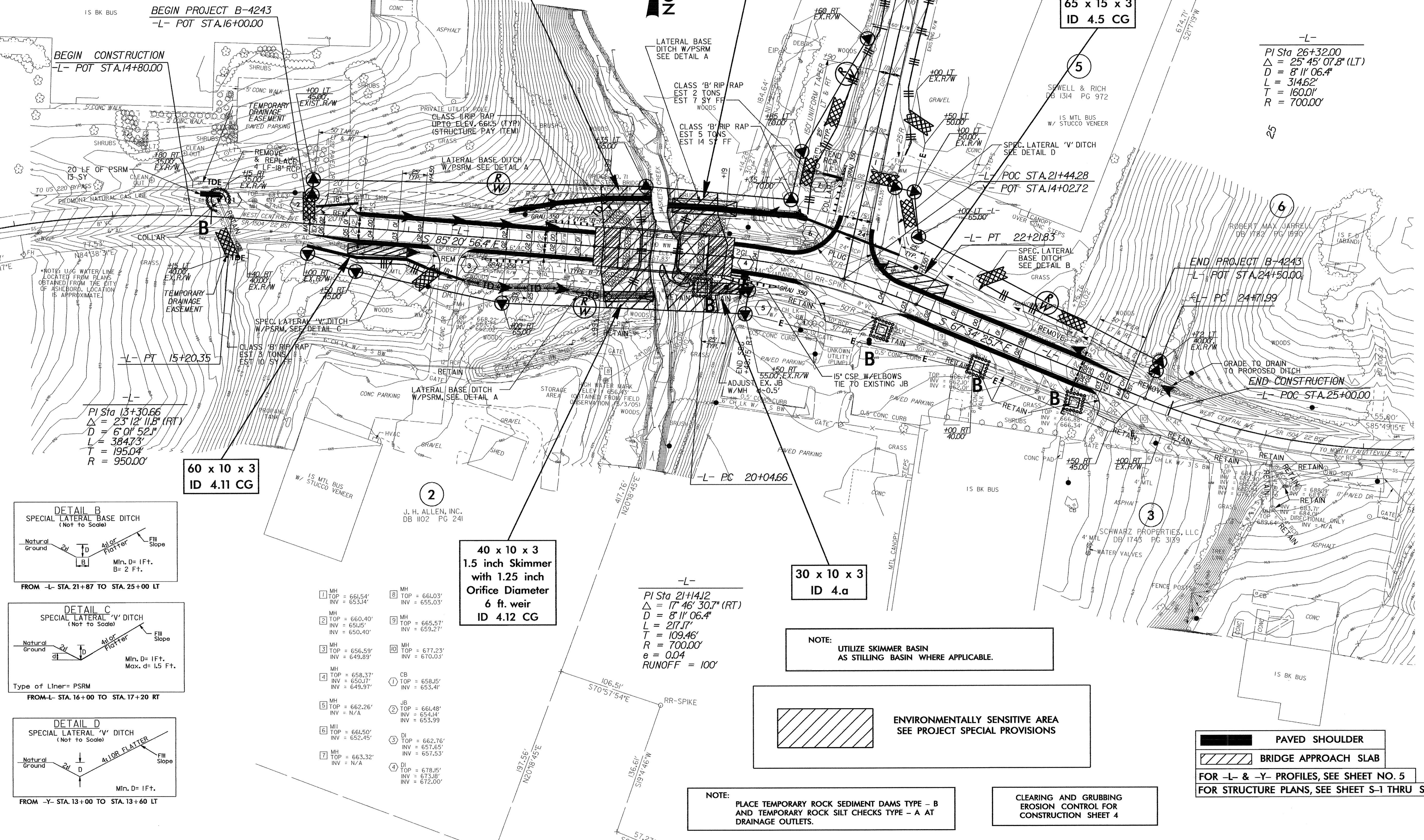
65 x 12 x 3
 1.5 inch Skimmer
 with 1.5 inch
 Orifice Diameter
 12 ft. weir
 ID 4.2 F

65 x 15 x 3
 ID 4.5 CG

60 x 10 x 3
 ID 4.11 CG

40 x 10 x 3
 1.5 inch Skimmer
 with 1.25 inch
 Orifice Diameter
 6 ft. weir
 ID 4.12 CG

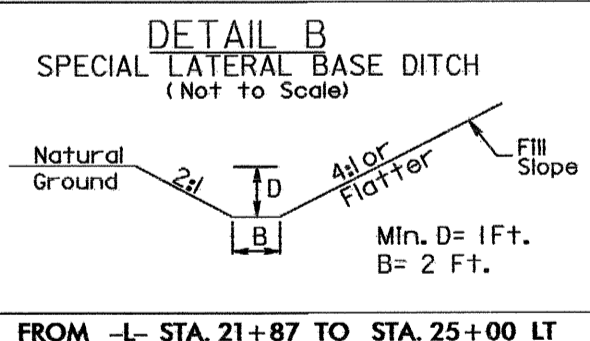
30 x 10 x 3
 ID 4.a



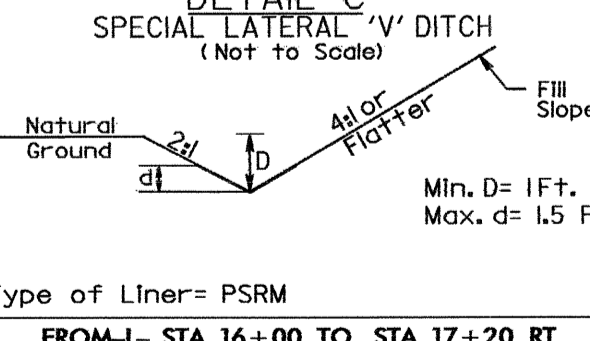
-L-
 PI Sta 26+32.00
 $\Delta = 25' 45" 07.8" (LT)$
 $D = 8' 11" 06.4"$
 $L = 314.62'$
 $T = 160.01'$
 $R = 700.00'$

-L-
 PI Sta 13+30.66
 $\Delta = 23' 12" 11.8" (RT)$
 $D = 6' 01" 52.1"$
 $L = 384.73'$
 $T = 195.04'$
 $R = 950.00'$

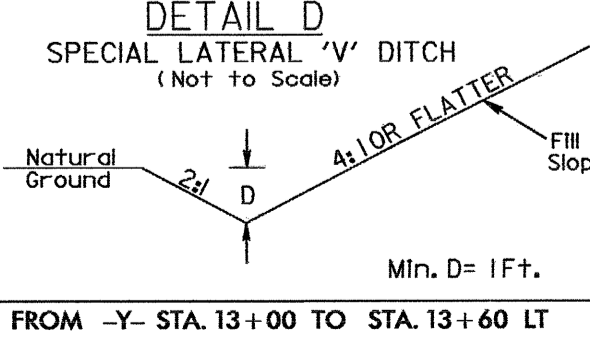
-L-
 PI Sta 21+14.12
 $\Delta = 17' 46' 30.7" (RT)$
 $D = 8' 11" 06.4"$
 $L = 217.17'$
 $T = 109.46'$
 $R = 700.00'$
 $e = 0.04$
 $RUNOFF = 100'$



FROM -L- STA. 21+87 TO STA. 25+00 LT



FROM -L- STA. 16+00 TO STA. 17+20 RT



FROM -Y- STA. 13+00 TO STA. 13+60 LT

- | | |
|-------------------------------------|--------------------------------------|
| 1 MH TOP = 661.54' INV = 653.14' | 8 MH TOP = 661.03' INV = 655.03' |
| 2 MH TOP = 660.40' INV = 651.45' | 9 MH TOP = 665.57' INV = 659.27' |
| 3 MH TOP = 656.59' INV = 649.89' | 10 MH TOP = 677.23' INV = 670.03' |
| 4 MH TOP = 658.37' INV = 650.17' | 1 CB TOP = 658.15' INV = 653.41' |
| 5 MH TOP = 662.26' INV = N/A | 2 JB TOP = 661.48' INV = 654.99' |
| 6 MH TOP = 661.50' INV = 652.45' | 3 DI TOP = 662.76' INV = 657.65' |
| 7 MH TOP = 663.32' INV = N/A | 4 DI TOP = 678.15' INV = 673.18' |
| | 5 DI TOP = 678.15' INV = 673.18' |
| | 6 DI TOP = 678.15' INV = 673.18' |

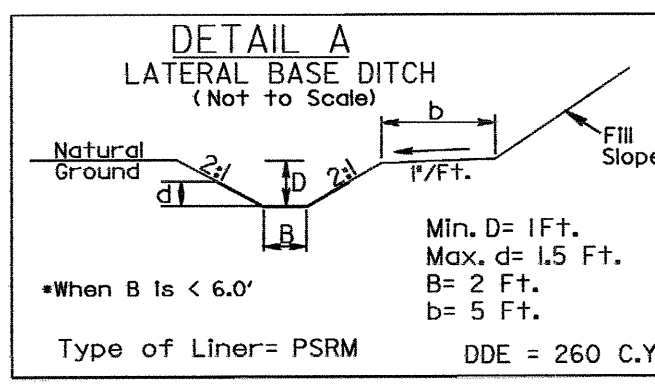
NOTE:
 UTILIZE SKIMMER BASIN
 AS STILLING BASIN WHERE APPLICABLE.

ENVIRONMENTALLY SENSITIVE AREA
 SEE PROJECT SPECIAL PROVISIONS

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

PAVED SHOULDER
 BRIDGE APPROACH SLAB
 FOR -L- & -Y- PROFILES, SEE SHEET NO. 5
 FOR STRUCTURE PLANS, SEE SHEET S-1 THRU S-??



FROM -L- STA. 18+00 TO STA. 19+43 LT
FROM -L- STA. 19+60 TO STA. 20+92 LT
FROM -L- STA. 17+60 TO STA. 19+55 RT

48 x 10 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
6 ft. weir
ID 4.10 CG

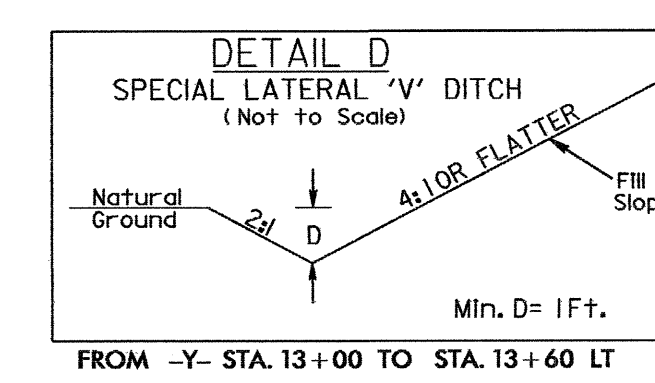
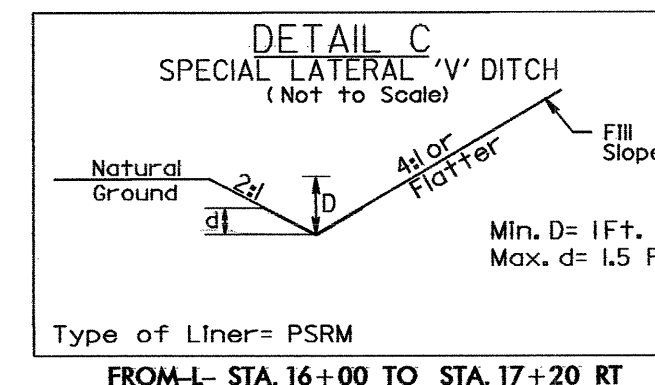
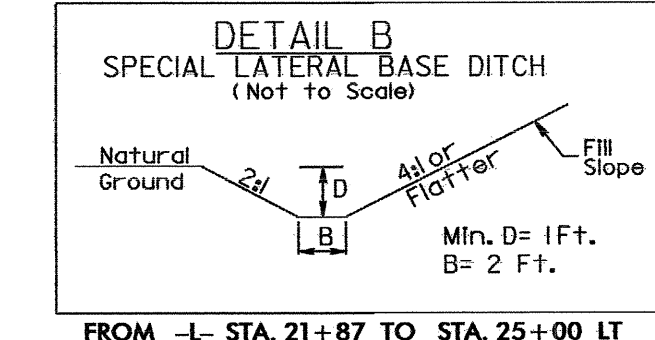
65 x 12 x 3
1.5 inch Skimmer
with 1.5 inch
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12 ft. weir
ID 4.2 F

65 x 15 x 3
ID 4.1 F

40 x 10 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
6 ft. weir
ID 4.12 CG

30 x 10 x 3
ID 4.a

28 x 4 x 3
ID 4.4 F



-L-
PI Sta 13+30.66
Δ = 23°12'11.8" (RT)
D = 6'01" 52.1"
L = 384.73'
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R = 950.00'

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PI Sta 26+32.00
Δ = 25°45'07.8" (LT)
D = 8'11" 06.4"
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T = 160.01'
R = 700.00'

- | | |
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| 7 MH TOP = 663.32' INV = N/A | 14 DI TOP = 678.15' INV = 673.15' INV = 672.00' |

-L-
PI Sta 21+14.12
Δ = 17°46'30.7" (RT)
D = 8'11" 06.4"
L = 217.17'
T = 109.46'
R = 700.00'
e = 0.04
RUNOFF = 100'

NOTE:
UTILIZE SKIMMER BASIN
AS STILLING BASIN WHERE APPLICABLE.

PAVED SHOULDER
BRIDGE APPROACH SLAB
FOR -L- & -Y- PROFILES, SEE SHEET NO. 5
FOR STRUCTURE PLANS, SEE SHEET S-1 THRU S-??

