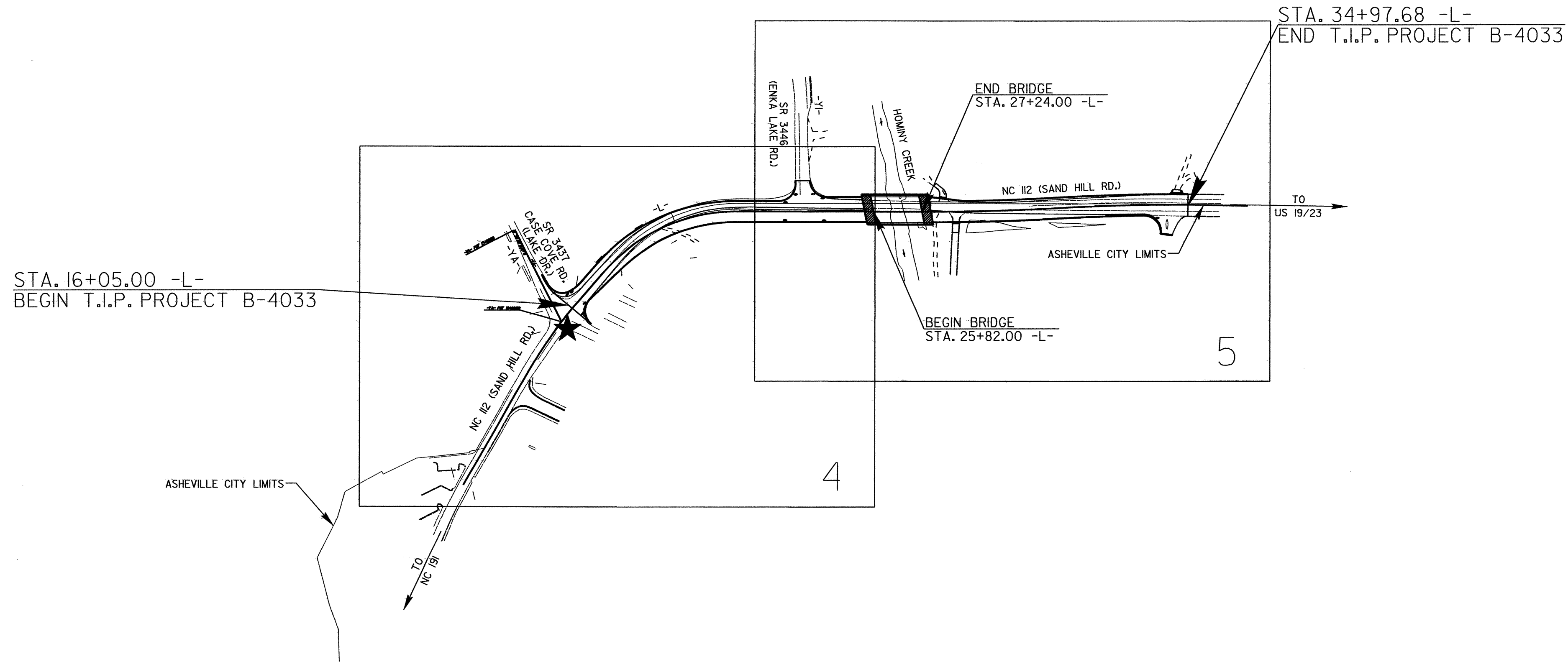
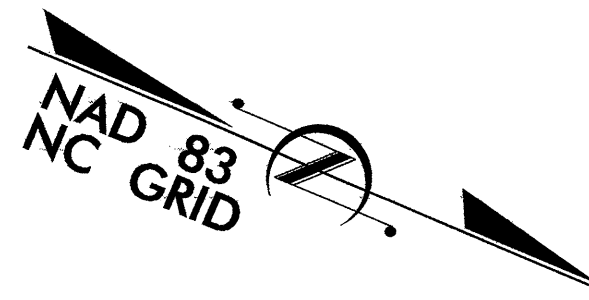


TIP PROJECT: B-4033

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

LOCATION: BRIDGE NO. 85 OVER HOMINY CREEK ON NC 112
**TYPE OF WORK: WIDENING, PAVING, RESURFACING, GRADING,
 DRAINAGE, SIGNALS, AND STRUCTURE**



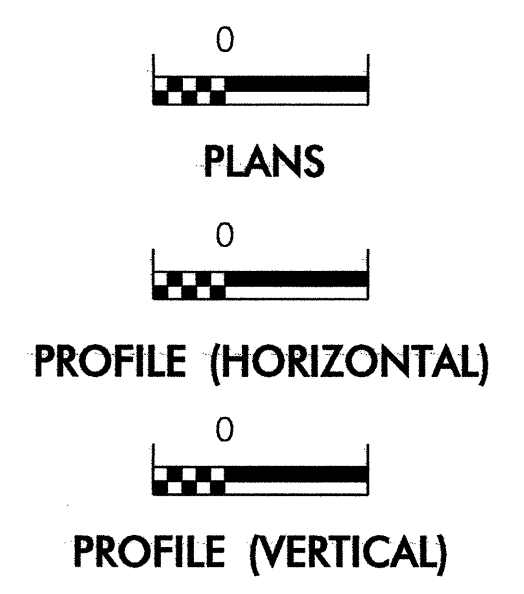
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C. | B-4033 | EC-1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| | | | |
| | | | |
| | | | |
| | | | |

EROSION AND SEDIMENT CONTROL MEASURES

| Std. # | Description | Symbol |
|---------|--------------------------------------|--------|
| 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 | |
| | Silt Basin Type B | |
| 1633.01 | Temporary Rock Silt Check Type-A | |
| | Temporary Rock Silt Check Type-B | |
| | Wattle | |
| 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 | |
| 1630.06 | Special Stilling Basin | |
| | Rock Inlet Sediment Trap: | |
| 1632.01 | Type A | |
| 1632.02 | Type B | |
| 1632.03 | Type C | |
| | Skimmer Basin | |
| | Tiered Skimmer Basin | |
| | Infiltration 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

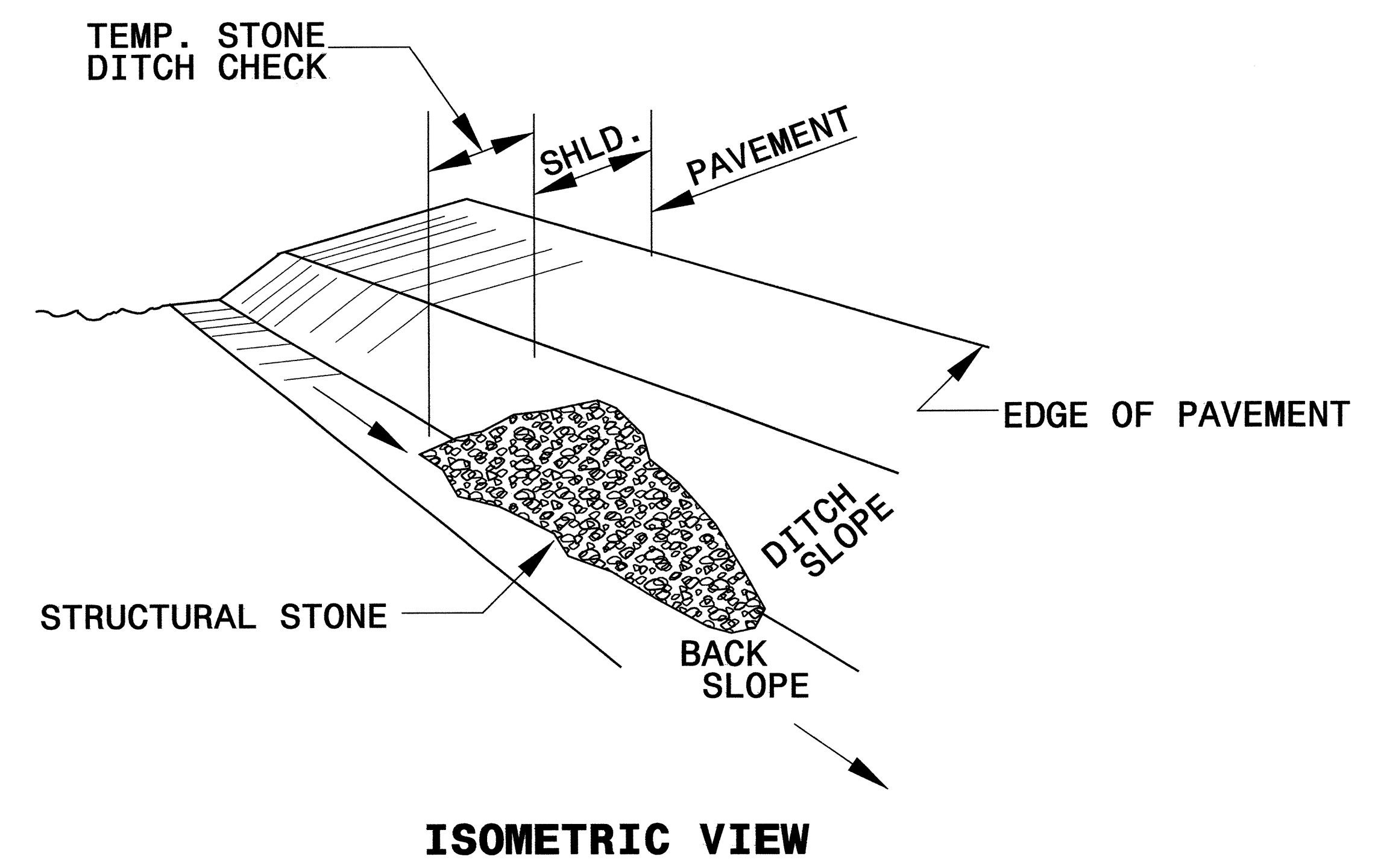
Prepared In the Office of:
ROADSIDE ENVIRONMENTAL UNIT
 1 South Wilmington St.
 Raleigh, NC 27611
2006 STANDARD SPECIFICATIONS

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 |
| 1606.01 Special Sediment Control Fence | 1632.02 Rock Inlet Sediment Trap Type B |
| 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 |
| 1630.05 Temporary Diversion | 1634.02 Temporary Rock Sediment Dam Type B |

| | |
|--|--------------------------|
| PROJECT REFERENCE NO. <i>B-4033</i> | SHEET NO. <i>EC-2</i> |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

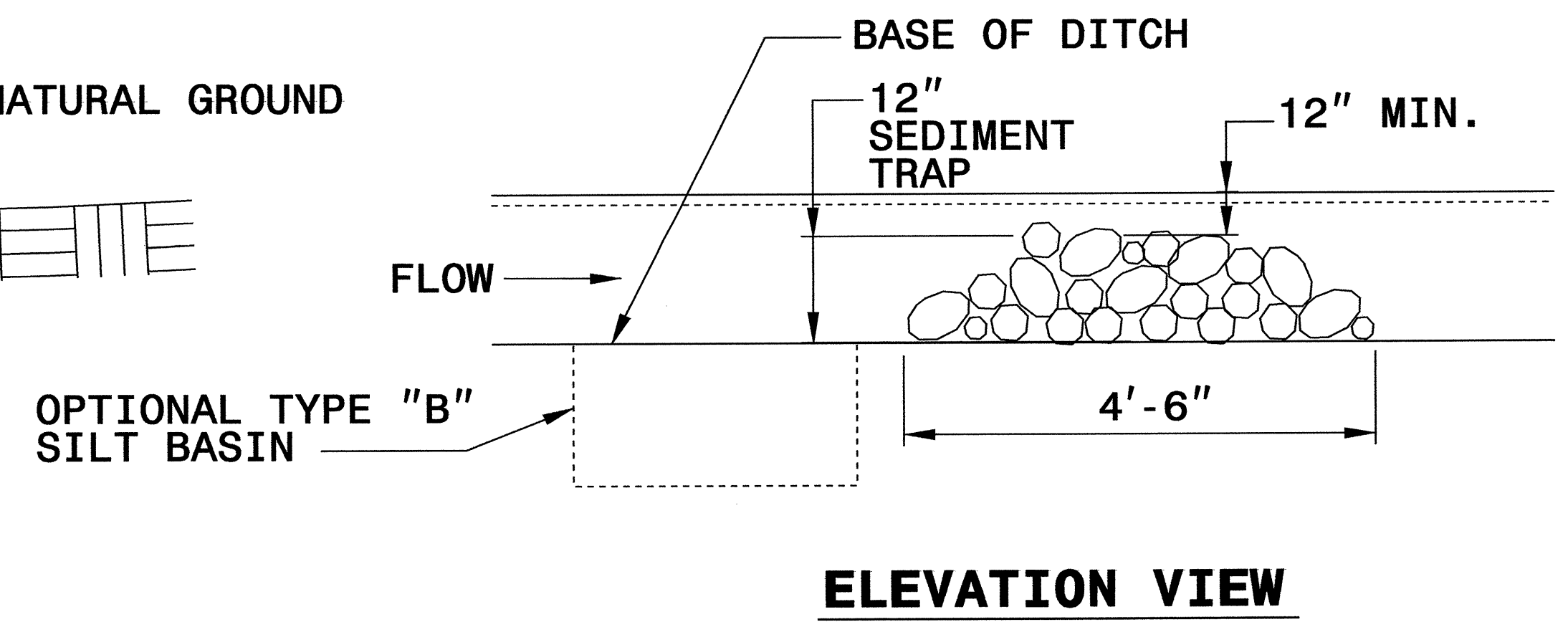
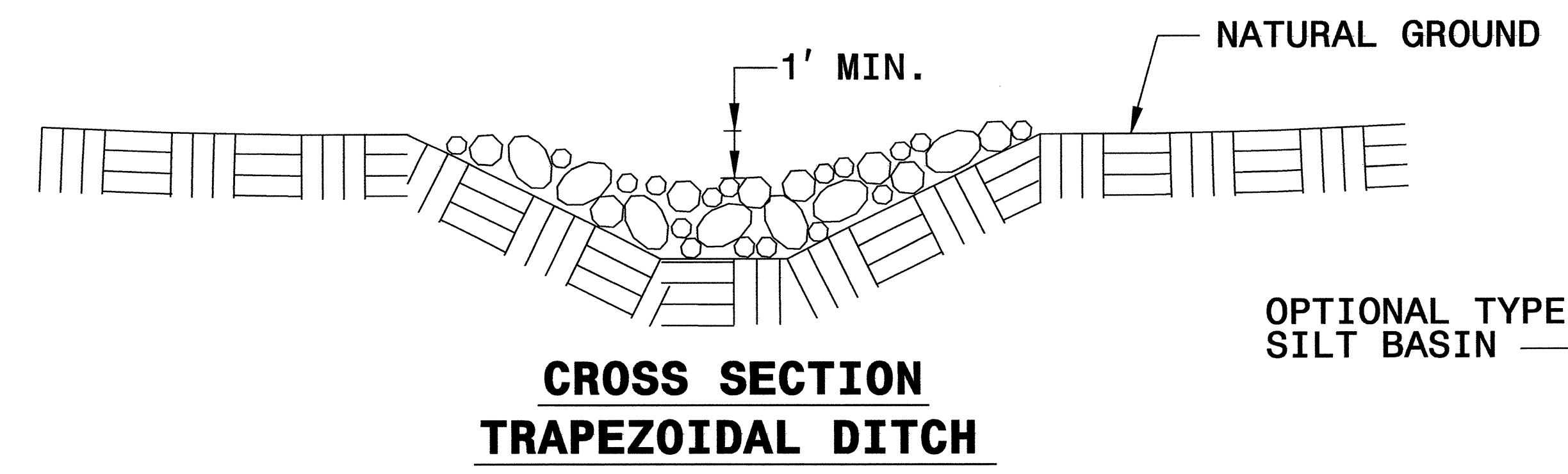
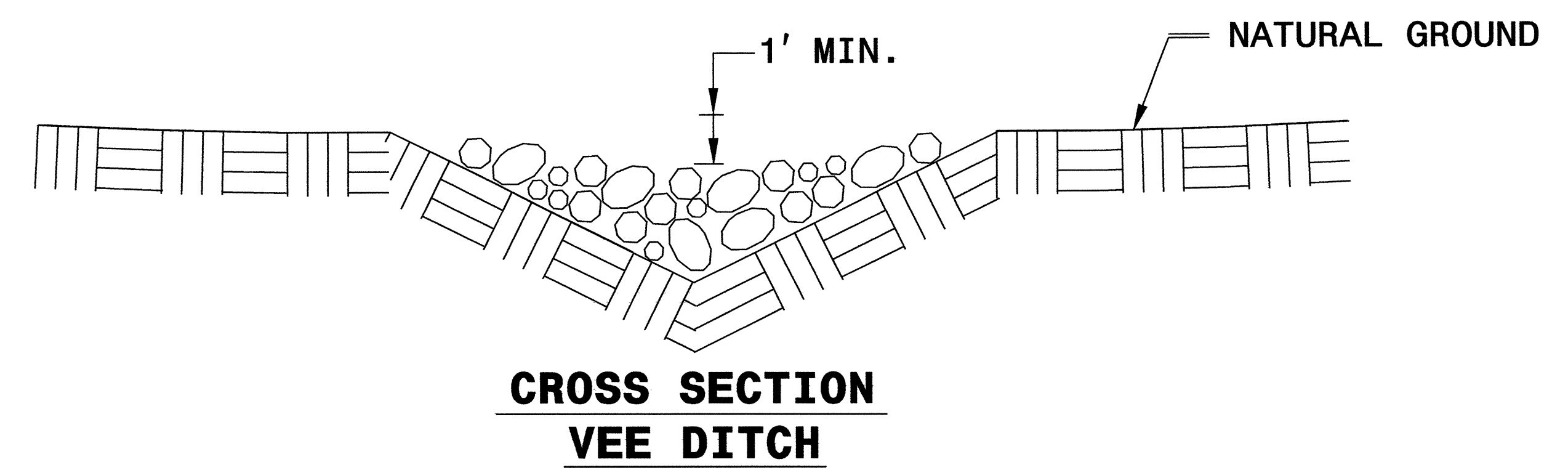
TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL



NOTES:

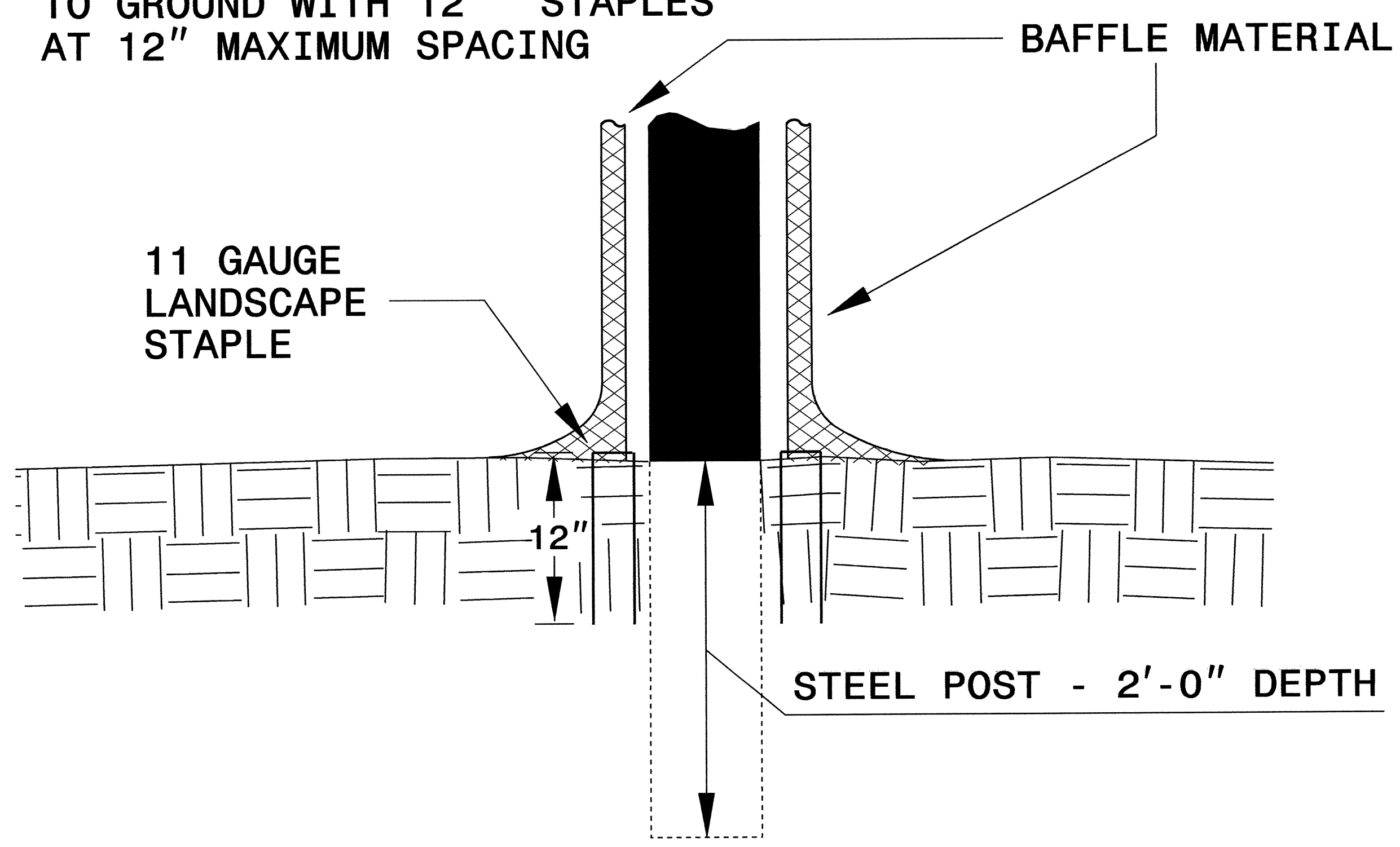
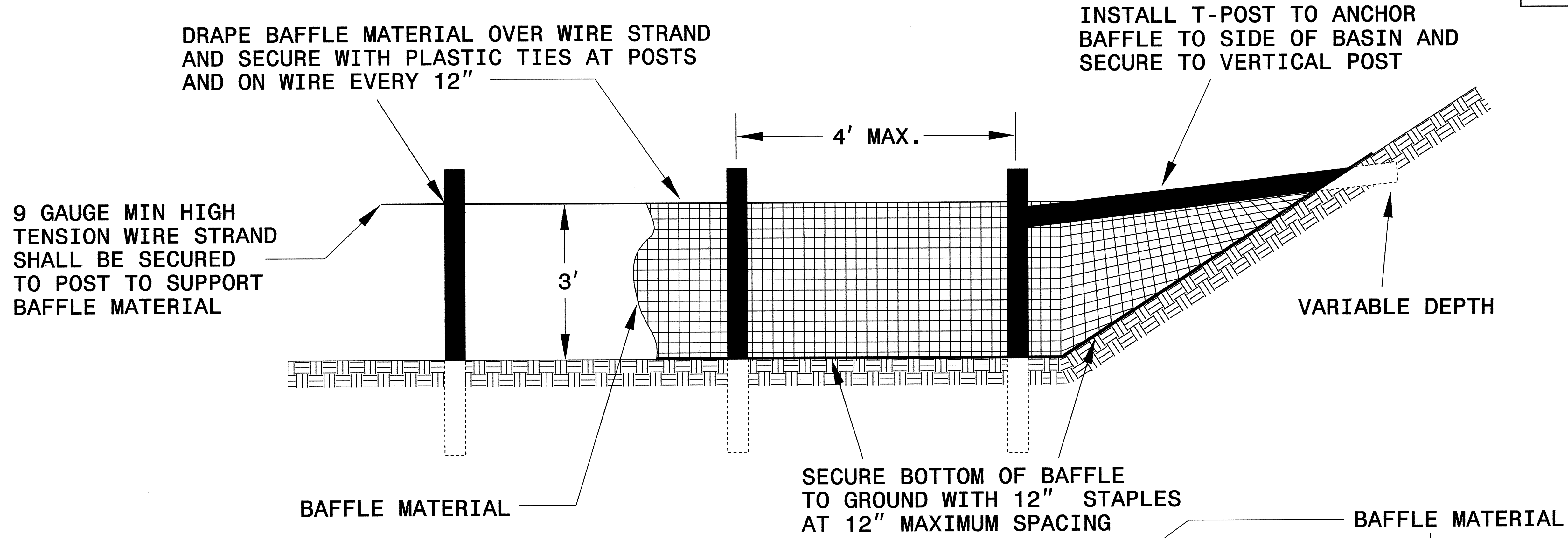
USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

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-4033 | SHEET NO. EC-2A |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

COIR FIBER BAFFLE DETAIL

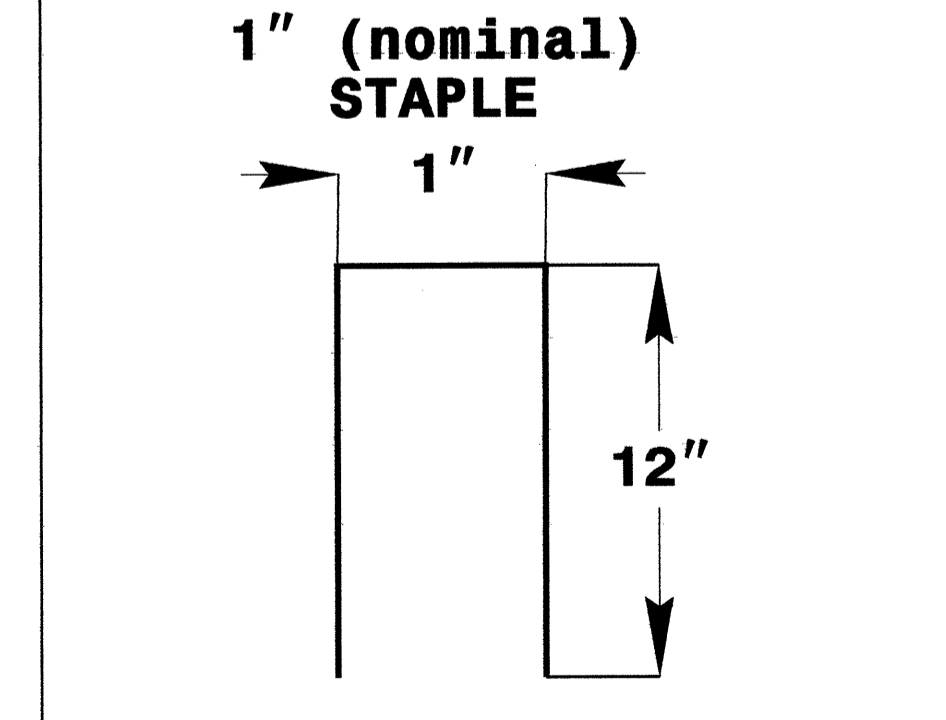
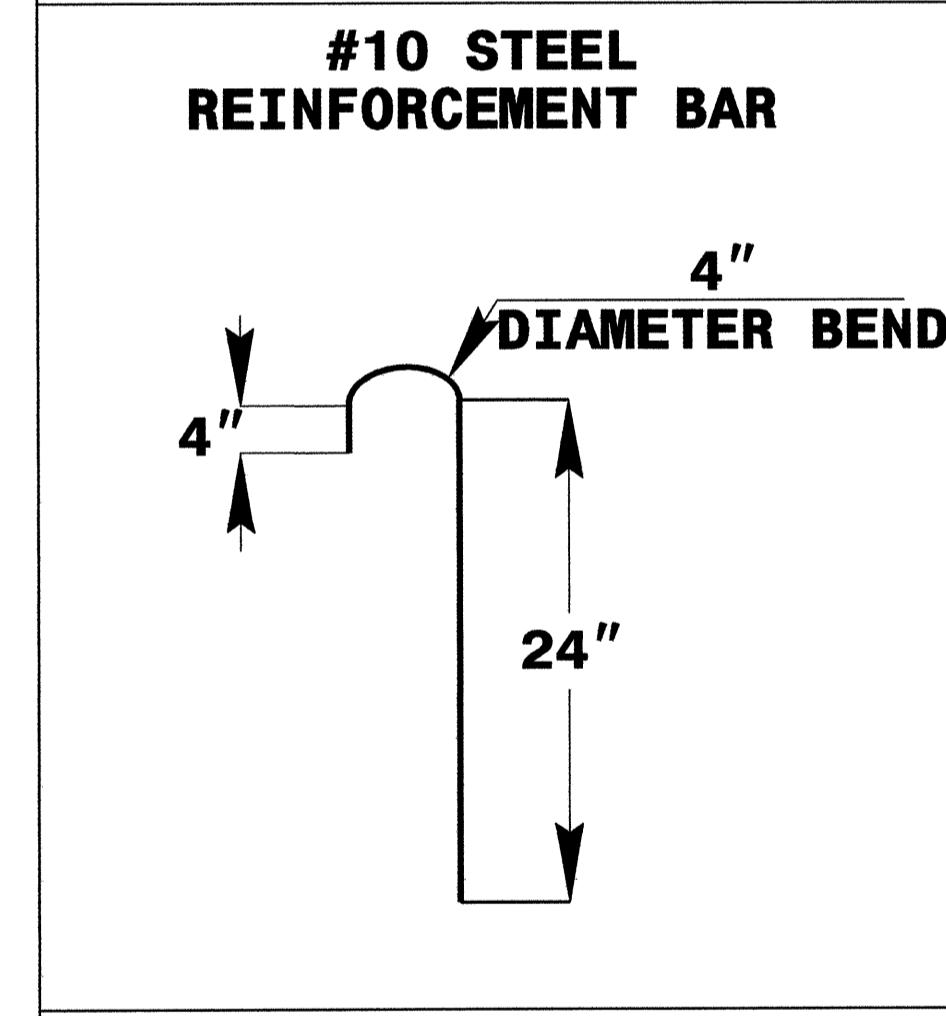
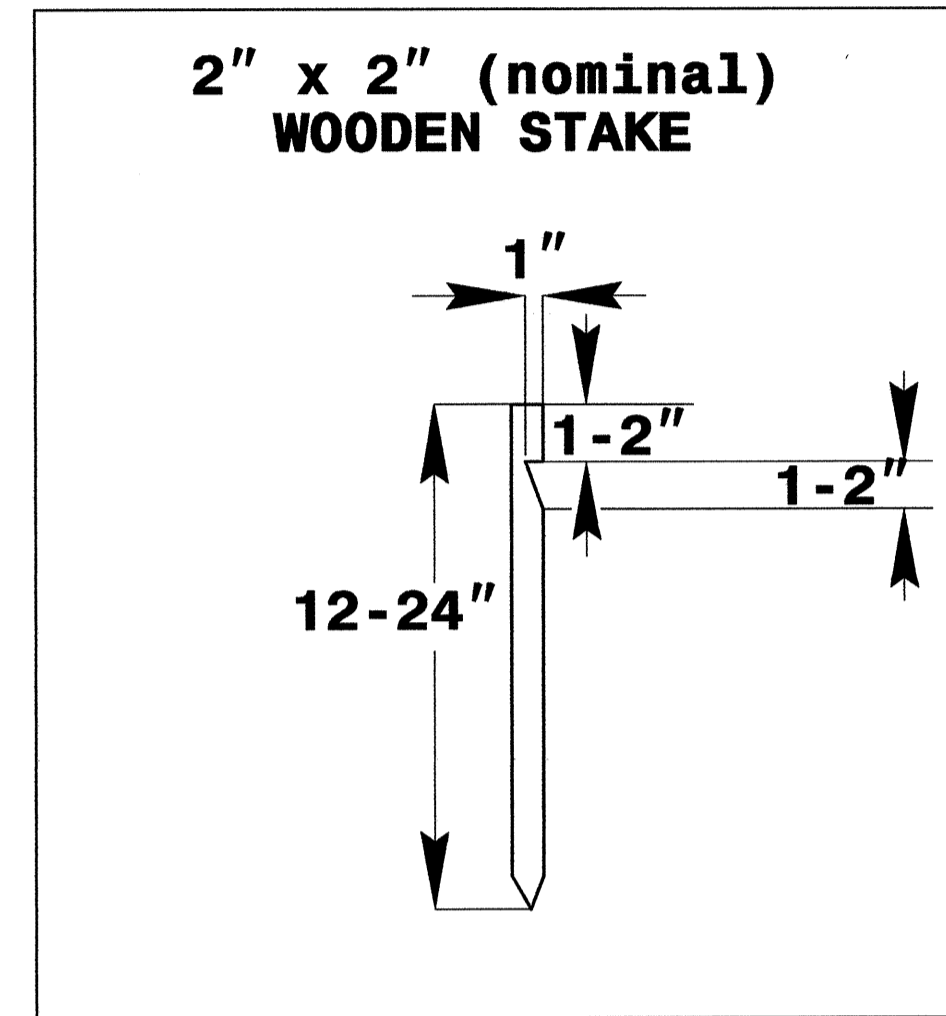
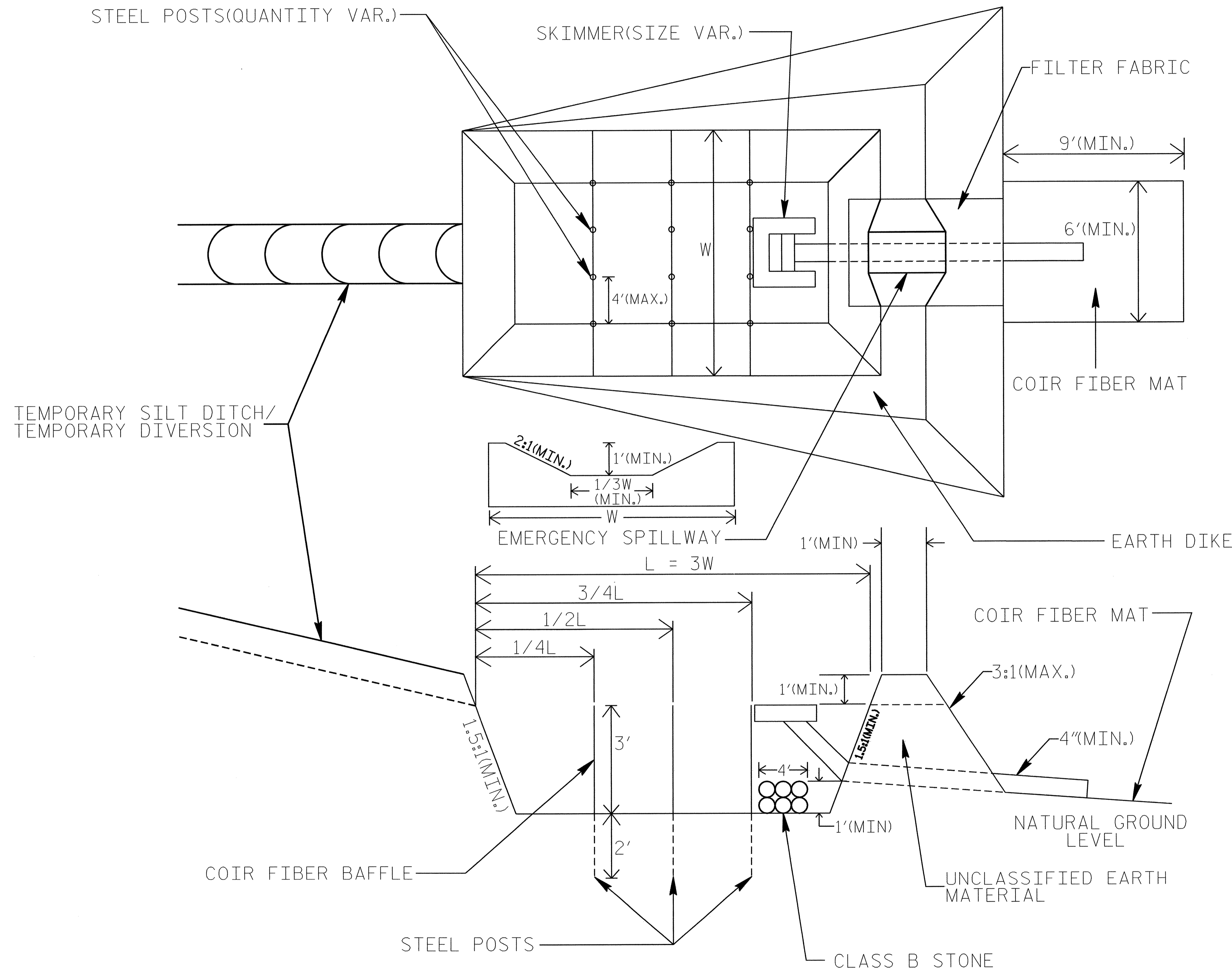


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

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-4033 | SHEET NO. EC-2B |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |



COIR FIBER MAT ANCHOR OPTIONS

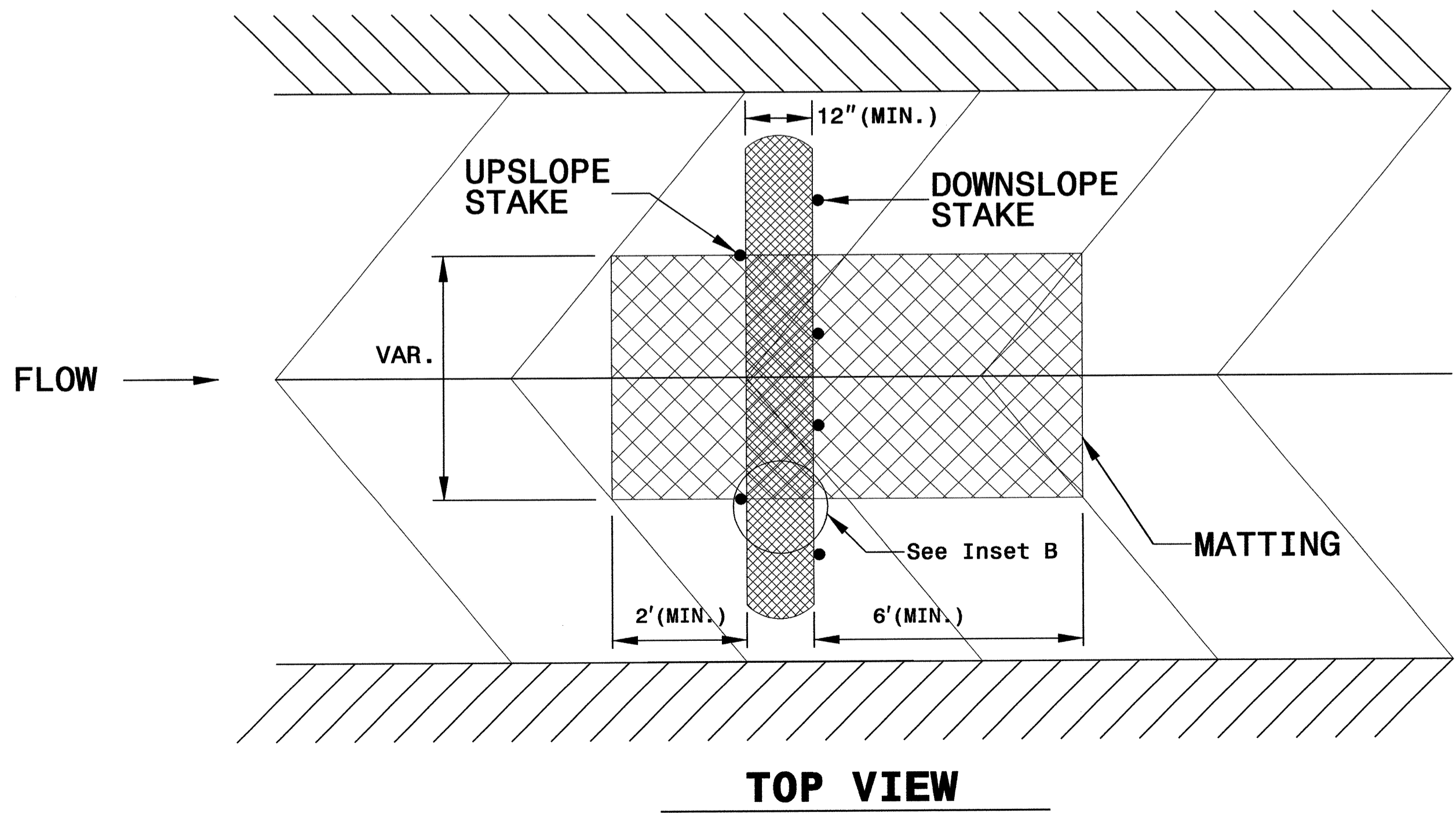
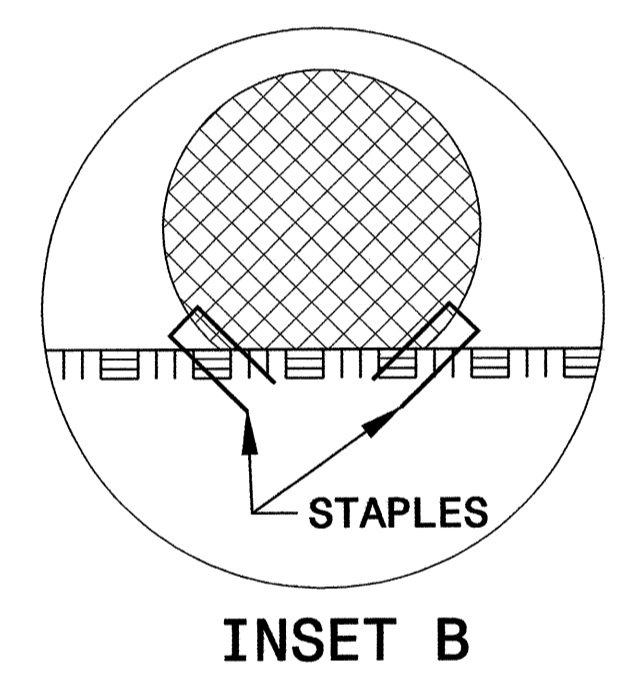
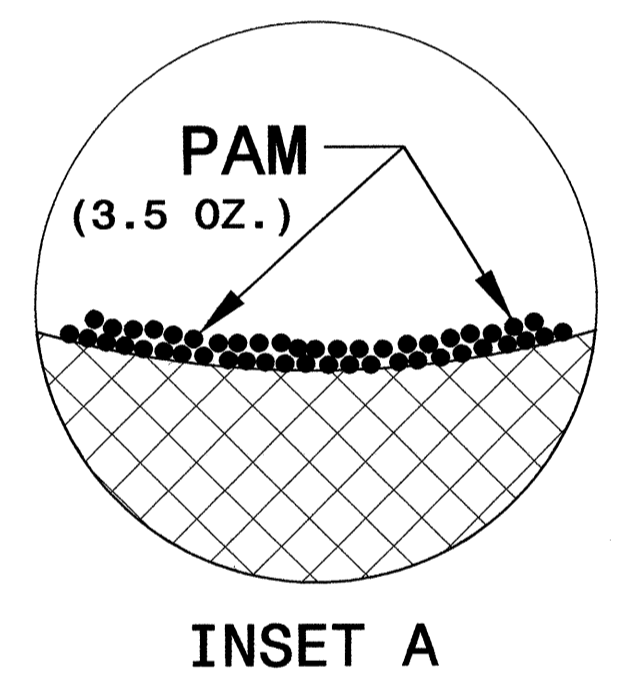
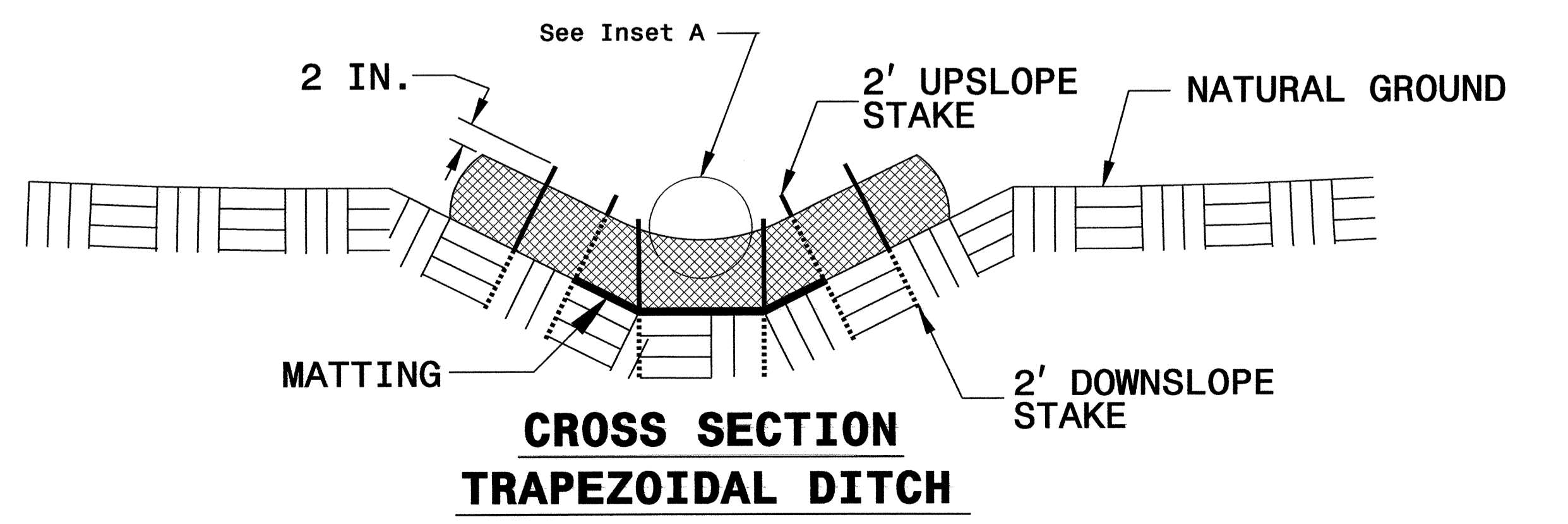
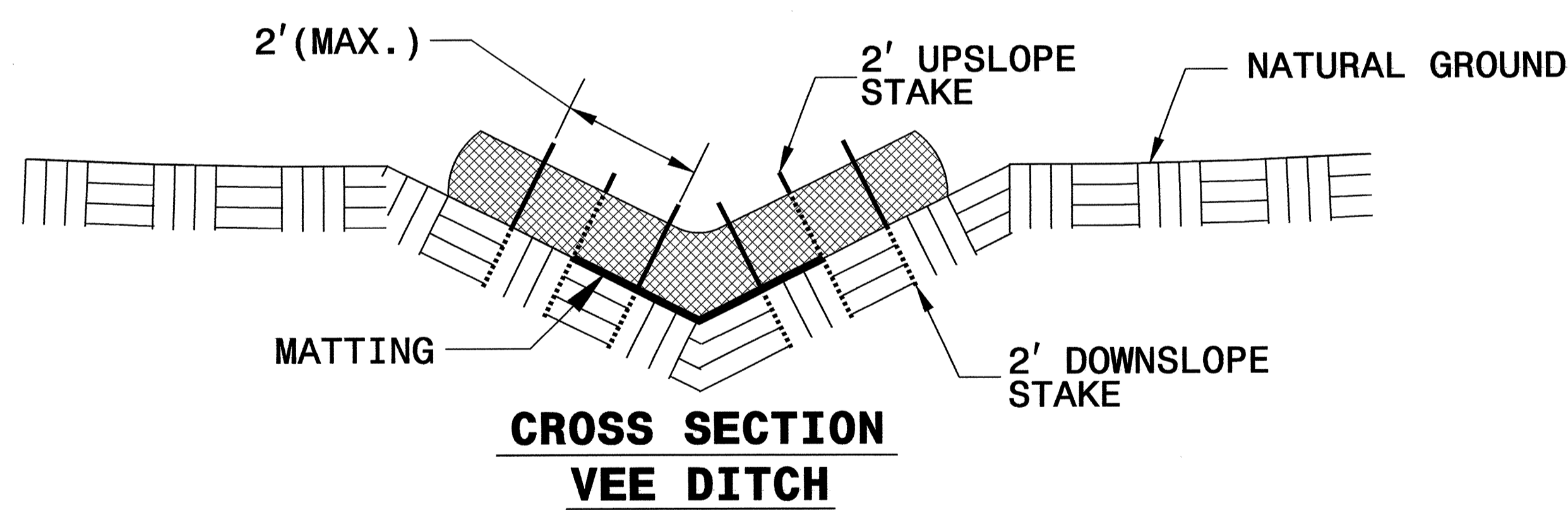
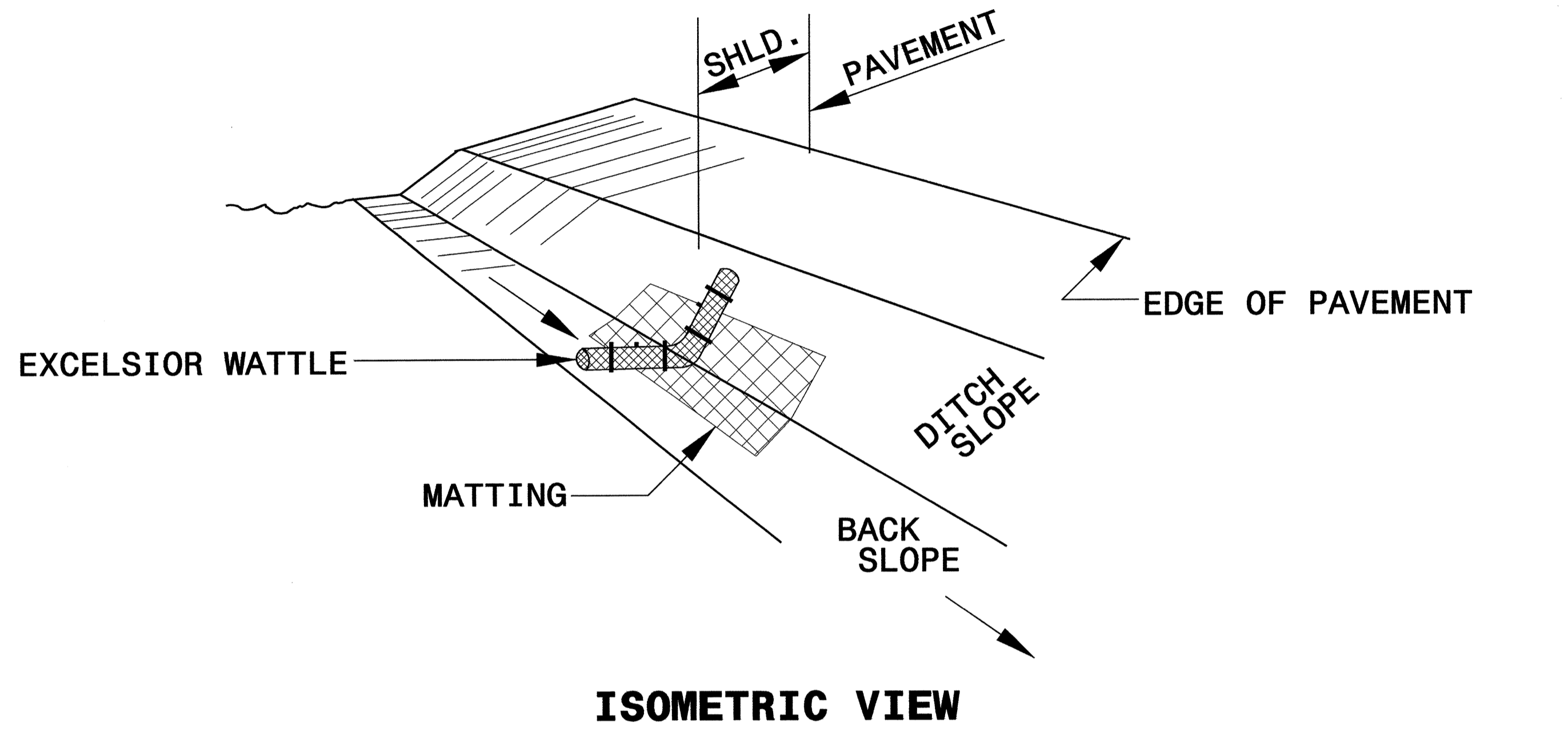
- NOTES:**
1. SEED AND PLACE MATTING FOR EROSION CONTROL ON SIDESLOPES.
 2. LIMIT EARTH DIKE HEIGHT TO 5 FT.

| | |
|---------------------------------|---------------------|
| PROJECT REFERENCE NO. B-4033 | SHEET NO. EC-2C |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

WATTLE WITH POLYACRYLAMIDE DETAIL

NOTES:

- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. CROSS SECTION.
- PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
- INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
- INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
- APPLY 3.5 OUNCES OF ANIONIC OR NEUTRALLY CHARGED POLYACRYLAMIDE (PAM) OVER WATTLE WHERE WATER WILL FLOW.

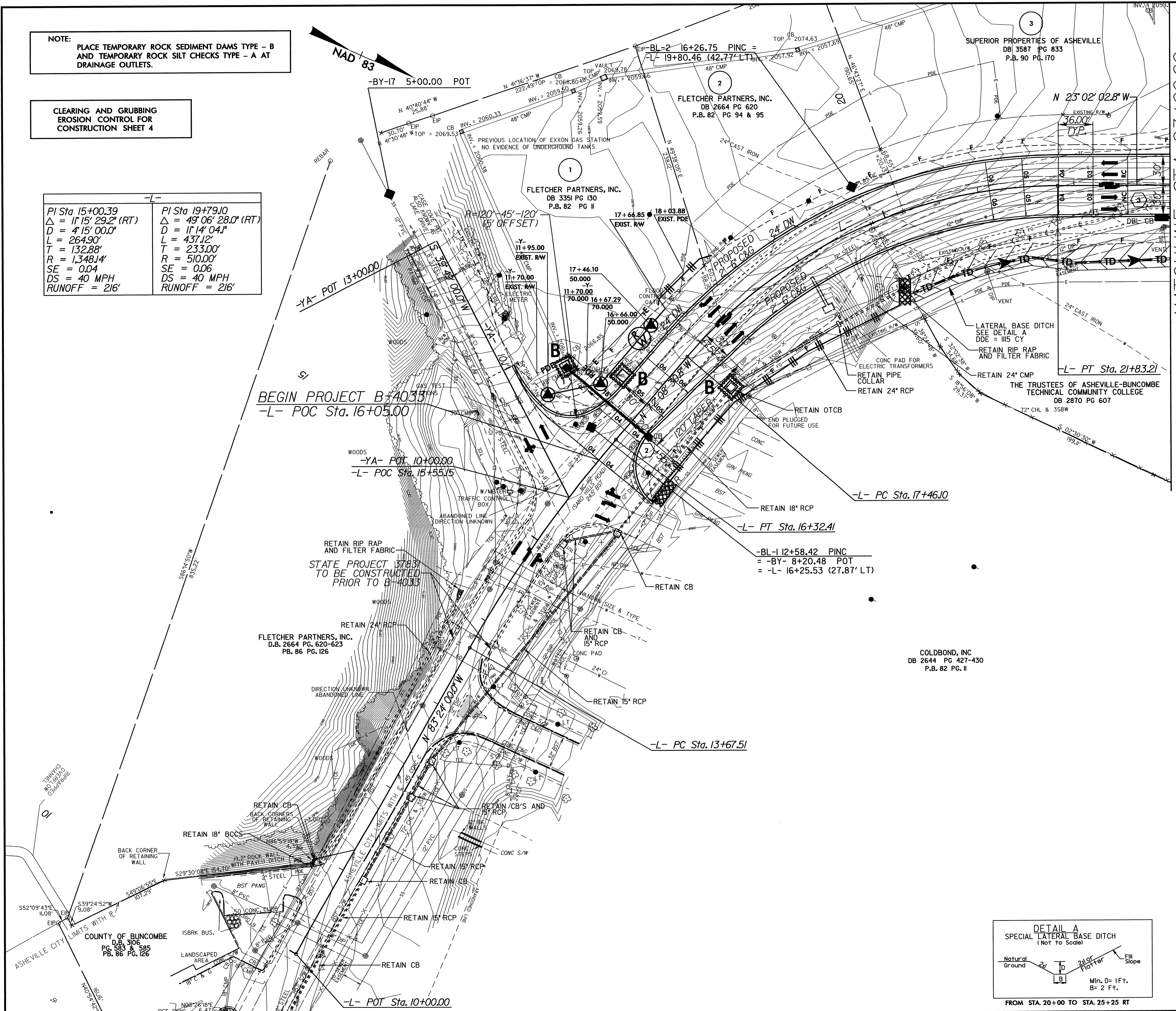


| | |
|-------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| B-4033 | EC-3/CONST.4 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

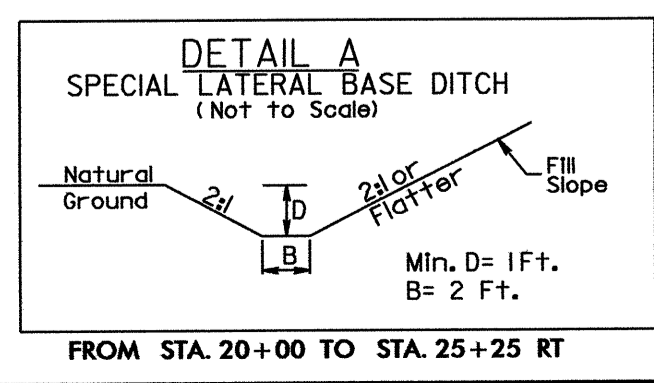
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

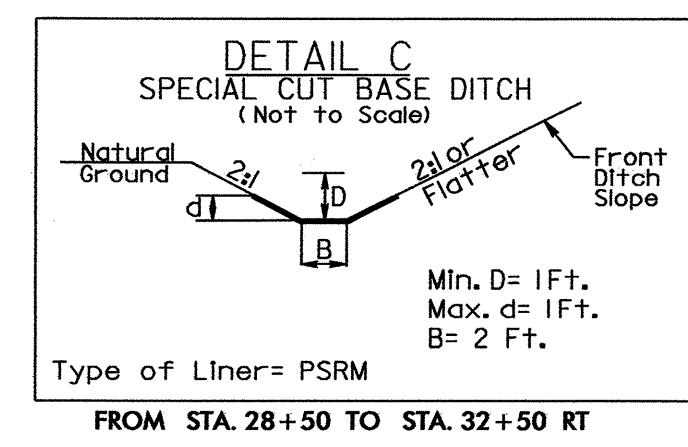
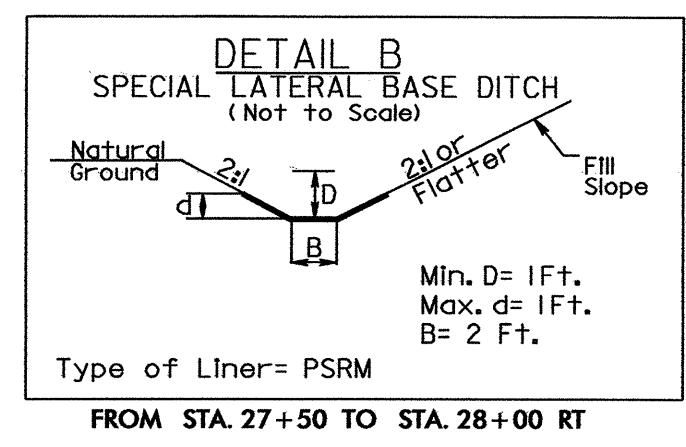
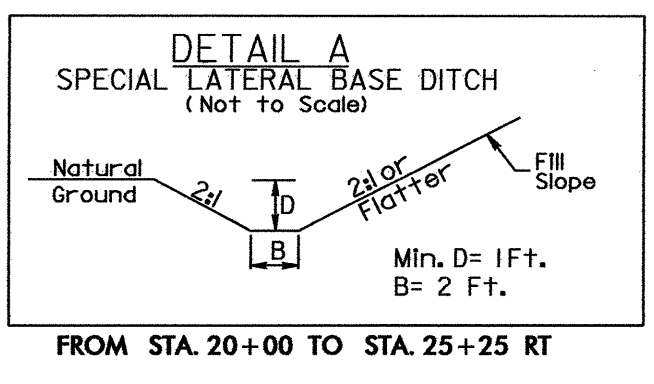
| | |
|--|---|
| PI Sta 15+00.39 Δ = 11°15'29.2" (RT) D = 4'15" 00.0" L = 264.90' T = 132.88' R = 1,348.14' SE = 0.04 DS = 40 MPH RUNOFF = 216' | PI Sta 19+79.10 Δ = 49°06'28.0" (RT) D = 11'14" 04.1" L = 437.12' T = 233.00' R = 510.00' SE = 0.06 DS = 40 MPH RUNOFF = 216' |
|--|---|



MATCHLINE STA. 23+00.00
SEE SHEET NO. 5



FOR -L- PROFILE, SEE SHEET NO. 6



| | |
|---|---|
| <p>PI Sta 29+30.63 $\Delta = 3' 22' 25.9''$ (LT) $D = 0' 57' 17.7''$ $L = 353.31'$ $T = 176.71'$ $R = 6,000.00'$ $SE = \text{NORMAL CROWN}$ $DS = 40 \text{ MPH}$</p> | <p>PI Sta 33+44.06 $\Delta = 4' 31' 14.6''$ (RT) $D = 0' 57' 17.7''$ $L = 473.41'$ $T = 236.83'$ $R = 6,000.00'$ $SE = \text{NORMAL CROWN}$ $DS = 40 \text{ MPH}$</p> |
|---|---|

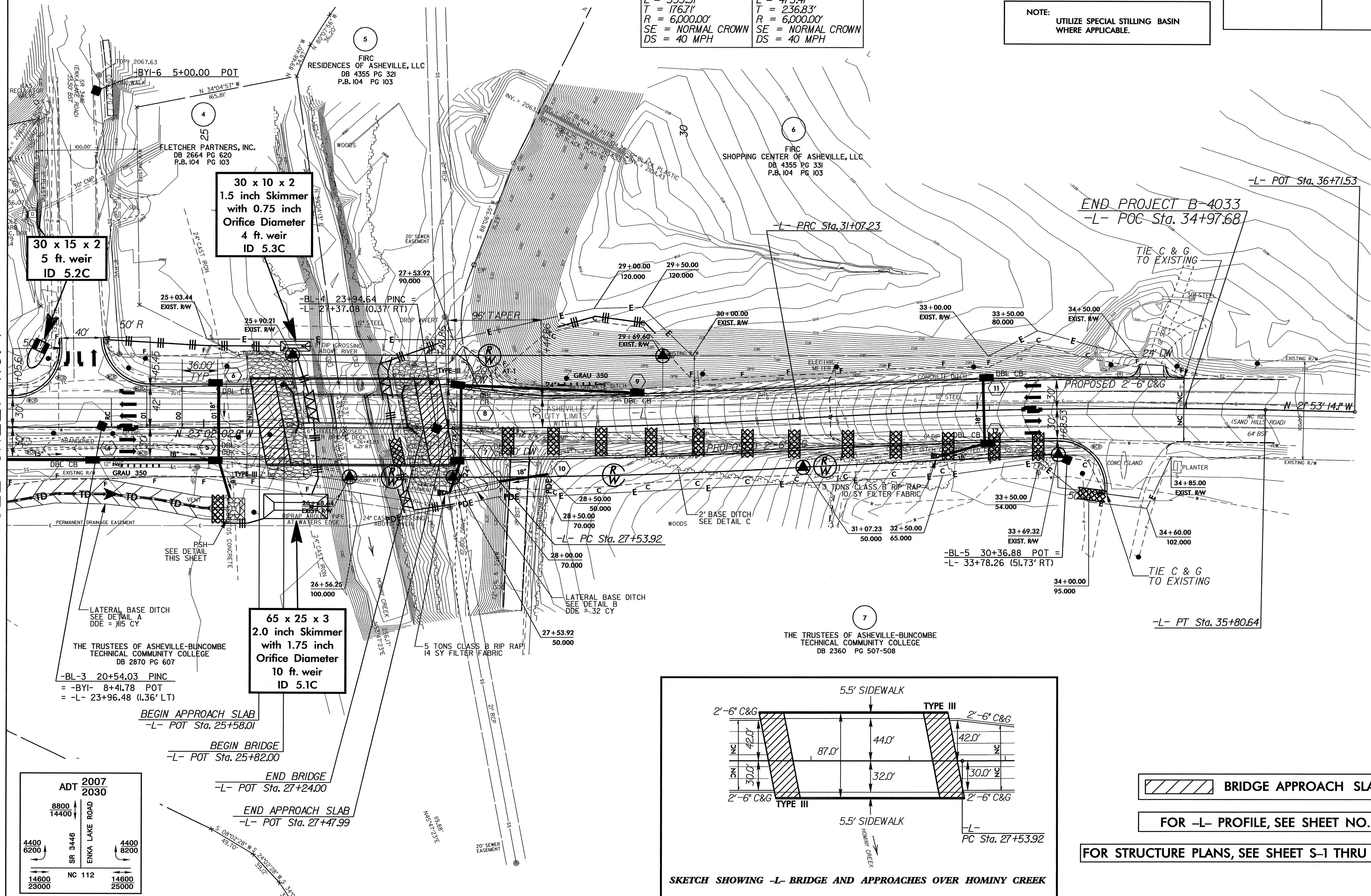
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5

NOTE:
UTILIZE SPECIAL STILLING BASIN WHERE APPLICABLE.

| | |
|---------------------------------|---------------------------|
| PROJECT REFERENCE NO. B-4033 | SHEET NO. EC-4/CONST.5 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

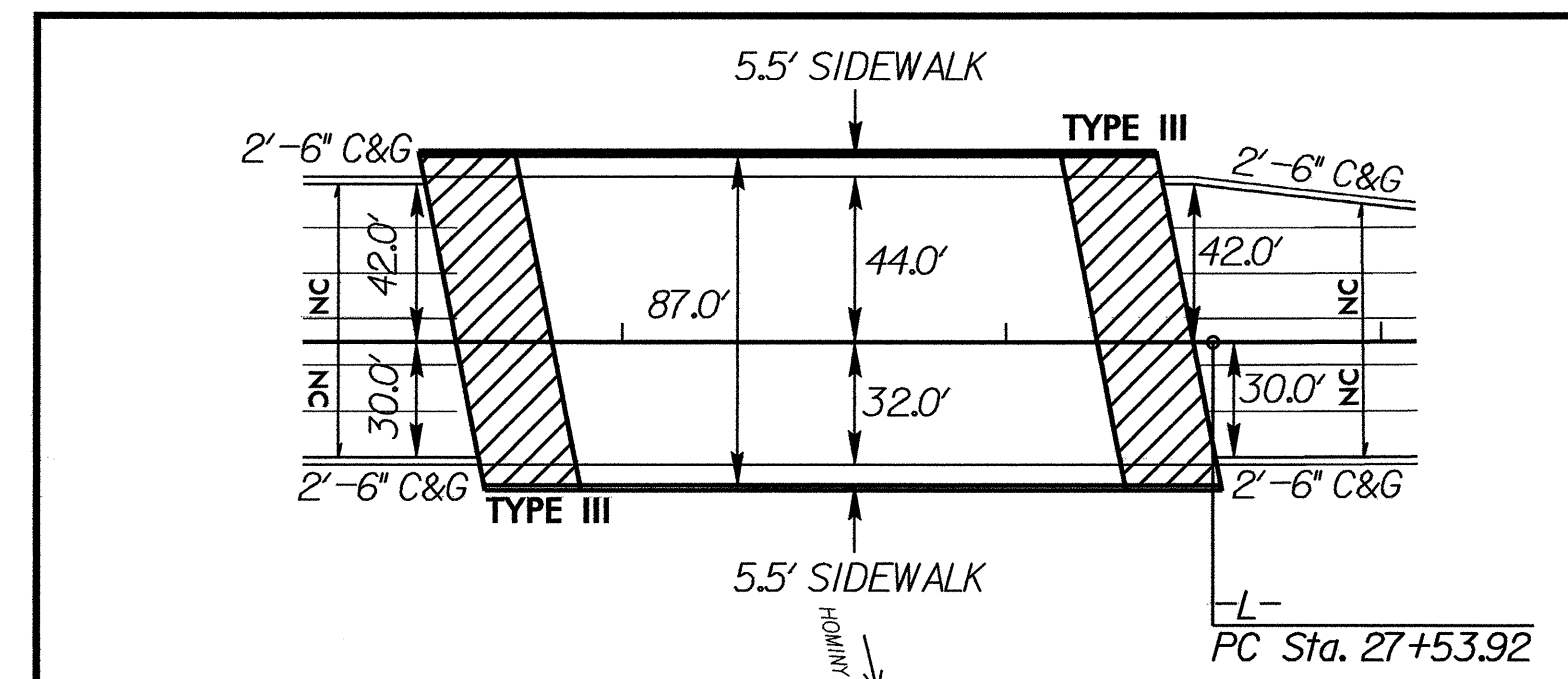
MATCHLINE STA. 23+00.00
SEE SHEET NO. 4



30 x 15 x 2
5 ft. weir
ID 5.2C

30 x 10 x 2
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
4 ft. weir
ID 5.3C

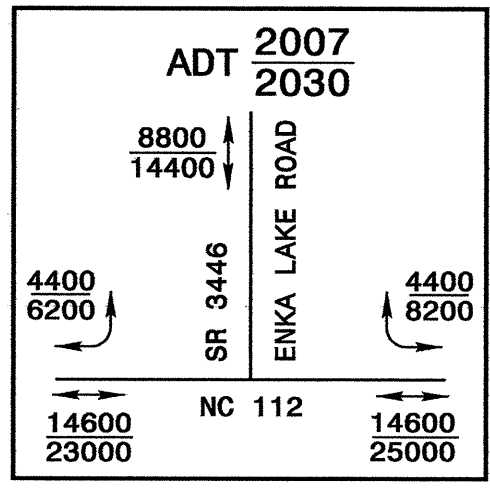
65 x 25 x 3
2.0 inch Skimmer
with 1.75 inch
Orifice Diameter
10 ft. weir
ID 5.1C



BRIDGE APPROACH SLAB

FOR -L- PROFILE, SEE SHEET NO. 6

FOR STRUCTURE PLANS, SEE SHEET S-1 THRU S-XX



BEGIN APPROACH SLAB
-L- POT Sta. 25+58.01

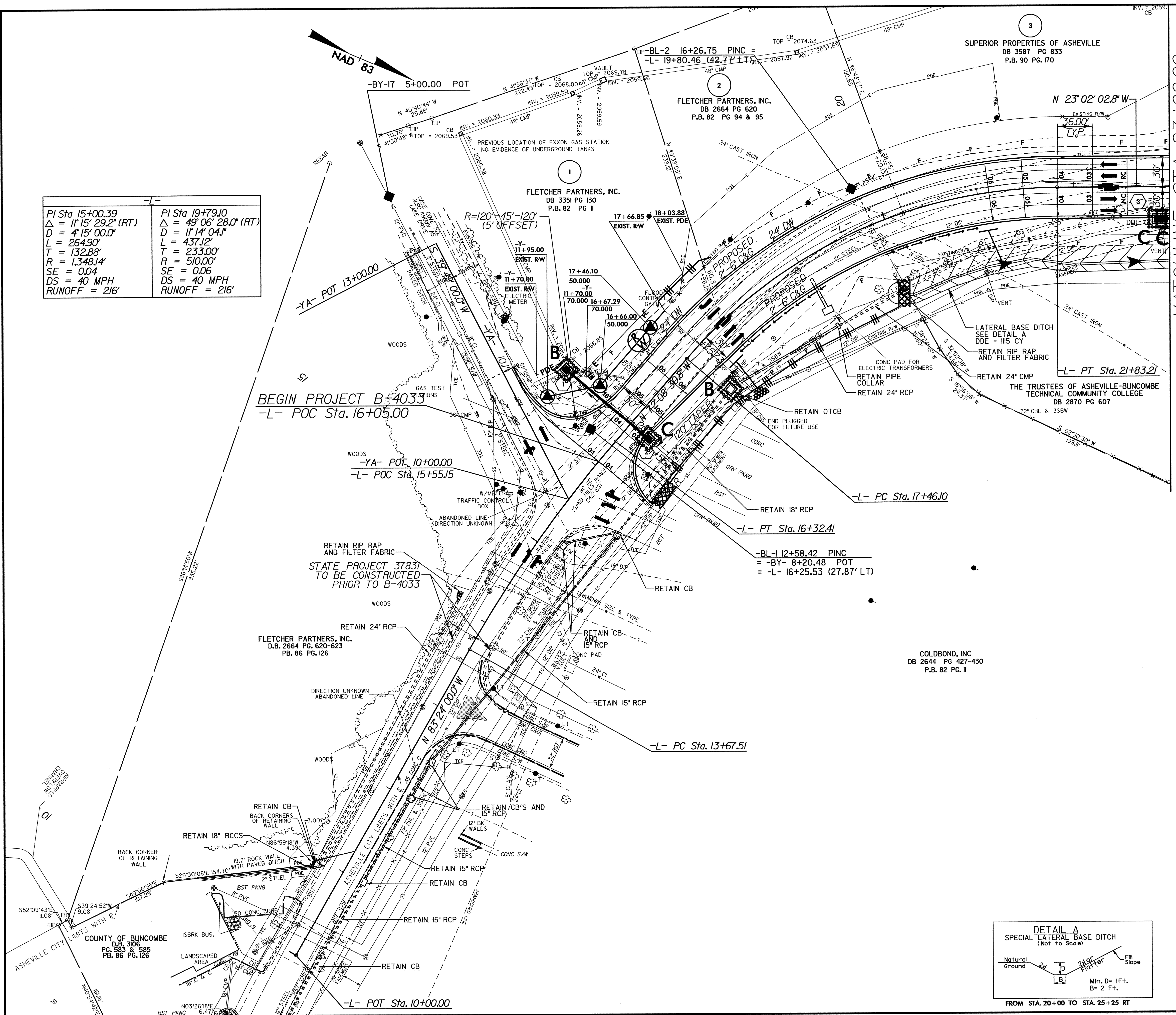
BEGIN BRIDGE
-L- POT Sta. 25+82.00

END BRIDGE
-L- POT Sta. 27+24.00

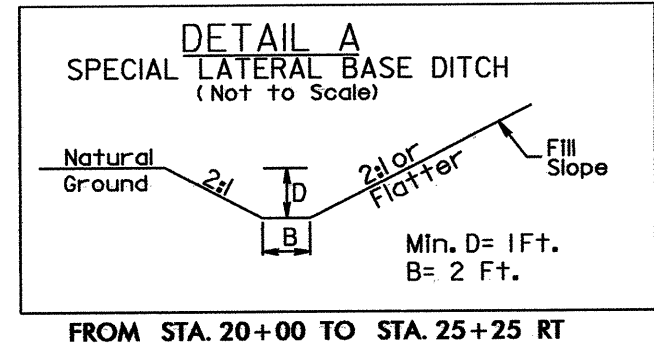
END APPROACH SLAB
-L- POT Sta. 27+47.99

| | |
|-------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| B-4033 | EC-5/CONST.4 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

| | |
|--|---|
| PI Sta 15+00.39 $\Delta = 11' 15" 29.2" (RT)$ $D = 4' 15" 00.0"$ $L = 264.90'$ $T = 132.88'$ $R = 1,348.14'$ $SE = 0.04$ $DS = 40 MPH$ $RUNOFF = 216'$ | PI Sta 19+79.10 $\Delta = 49' 06" 28.0" (RT)$ $D = 11' 14" 04.1"$ $L = 437.12'$ $T = 233.00'$ $R = 510.00'$ $SE = 0.06$ $DS = 40 MPH$ $RUNOFF = 216'$ |
|--|---|

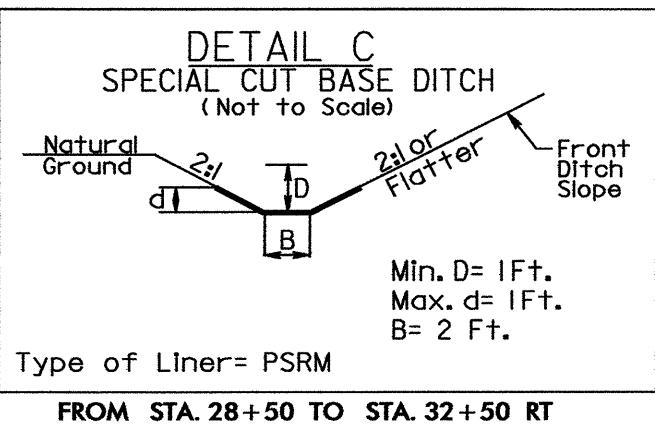
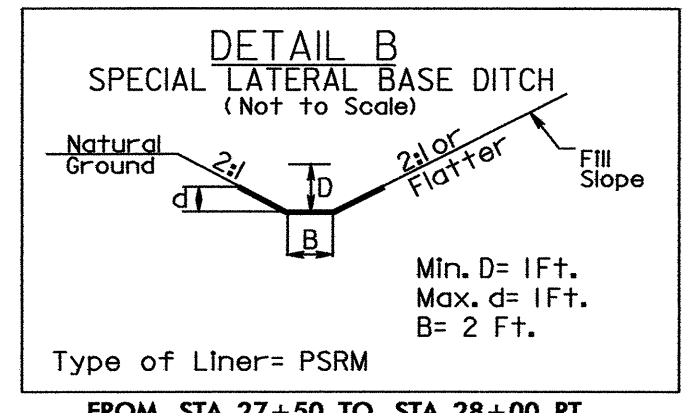
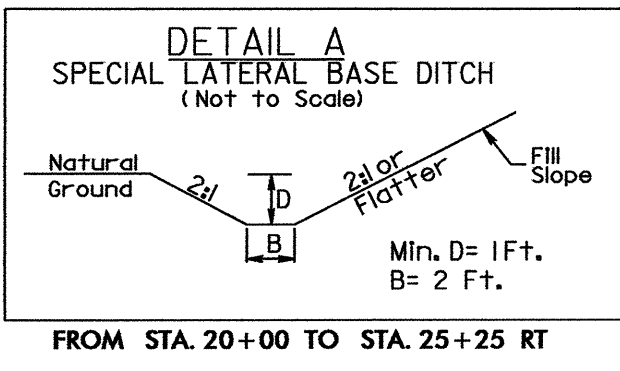


MATCHLINE STA. 23+00.00
SEE SHEET NO. 5



FOR -L- PROFILE, SEE SHEET NO. 6

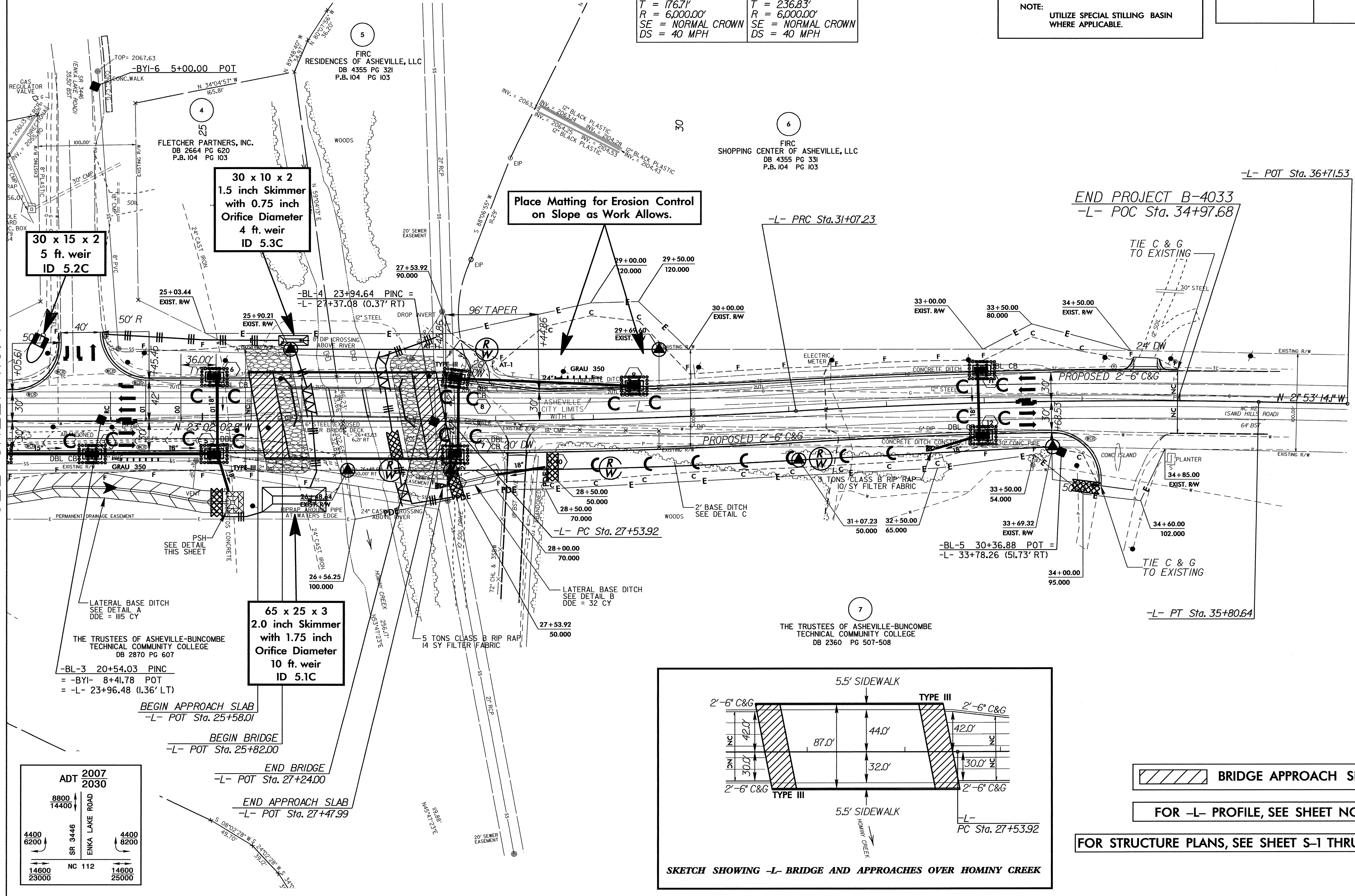
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|---------------------------------|---------------------------|
| PROJECT REFERENCE NO. B-4033 | SHEET NO. EC-6/CONST.5 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |



| | |
|---|---|
| PI Sta 29+30.63 $\Delta = 3' 22' 25.9''$ (LT) $D = 0' 57' 17.7''$ $L = 353.31'$ $T = 176.71'$ $R = 6,000.00'$ $SE = \text{NORMAL CROWN}$ $DS = 40 \text{ MPH}$ | PI Sta 33+44.06 $\Delta = 4' 31' 14.6''$ (RT) $D = 0' 57' 17.7''$ $L = 473.41'$ $T = 236.83'$ $R = 6,000.00'$ $SE = \text{NORMAL CROWN}$ $DS = 40 \text{ MPH}$ |
|---|---|

NOTE: UTILIZE SPECIAL STILLING BASIN WHERE APPLICABLE.

MATCHLINE STA. 23+00.00 SEE SHEET NO. 4

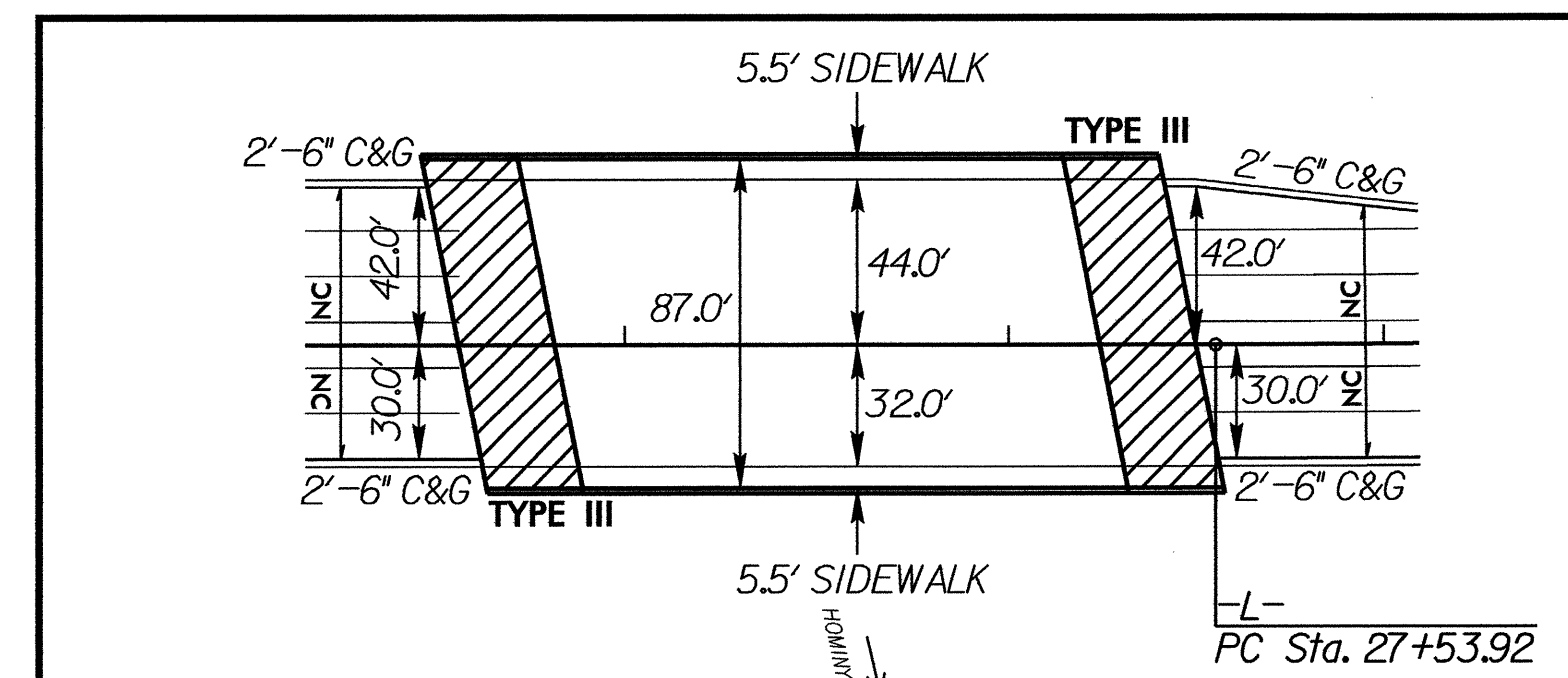


30 x 15 x 2
5 ft. weir
ID 5.2C

30 x 10 x 2
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
4 ft. weir
ID 5.3C

65 x 25 x 3
2.0 inch Skimmer
with 1.75 inch
Orifice Diameter
10 ft. weir
ID 5.1C

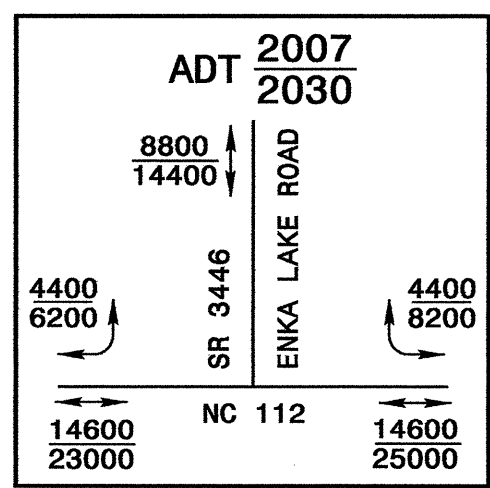
Place Matting for Erosion Control
on Slope as Work Allows.



BRIDGE APPROACH SLAB

FOR -L- PROFILE, SEE SHEET NO. 6

FOR STRUCTURE PLANS, SEE SHEET S-1 THRU S-XX



BEGIN APPROACH SLAB
-L- POT Sta. 25+58.01

BEGIN BRIDGE
-L- POT Sta. 25+82.00

END BRIDGE
-L- POT Sta. 27+24.00

END APPROACH SLAB
-L- POT Sta. 27+47.99

THE TRUSTEES OF ASHEVILLE-BUNCOMBE
TECHNICAL COMMUNITY COLLEGE
DB 2360 PG 507-508

THE TRUSTEES OF ASHEVILLE-BUNCOMBE
TECHNICAL COMMUNITY COLLEGE
DB 2870 PG 607

-BL-3 20+54.03 PINC
= -BYI- 8+41.78 POT
= -L- 23+96.48 (1.36' LT)

-BL-4 23+94.64 PINC =
-L- 27+37.08 (0.37' RT)

-BL-5 30+36.88 POT =
-L- 33+78.26 (51.73' RT)

-L- PT Sta. 35+80.64

END PROJECT B-4033
-L- POC Sta. 34+97.68

-L- POT Sta. 36+71.53

-L- PRC Sta. 31+07.23

-L- PC Sta. 27+53.92

30

6

7

