

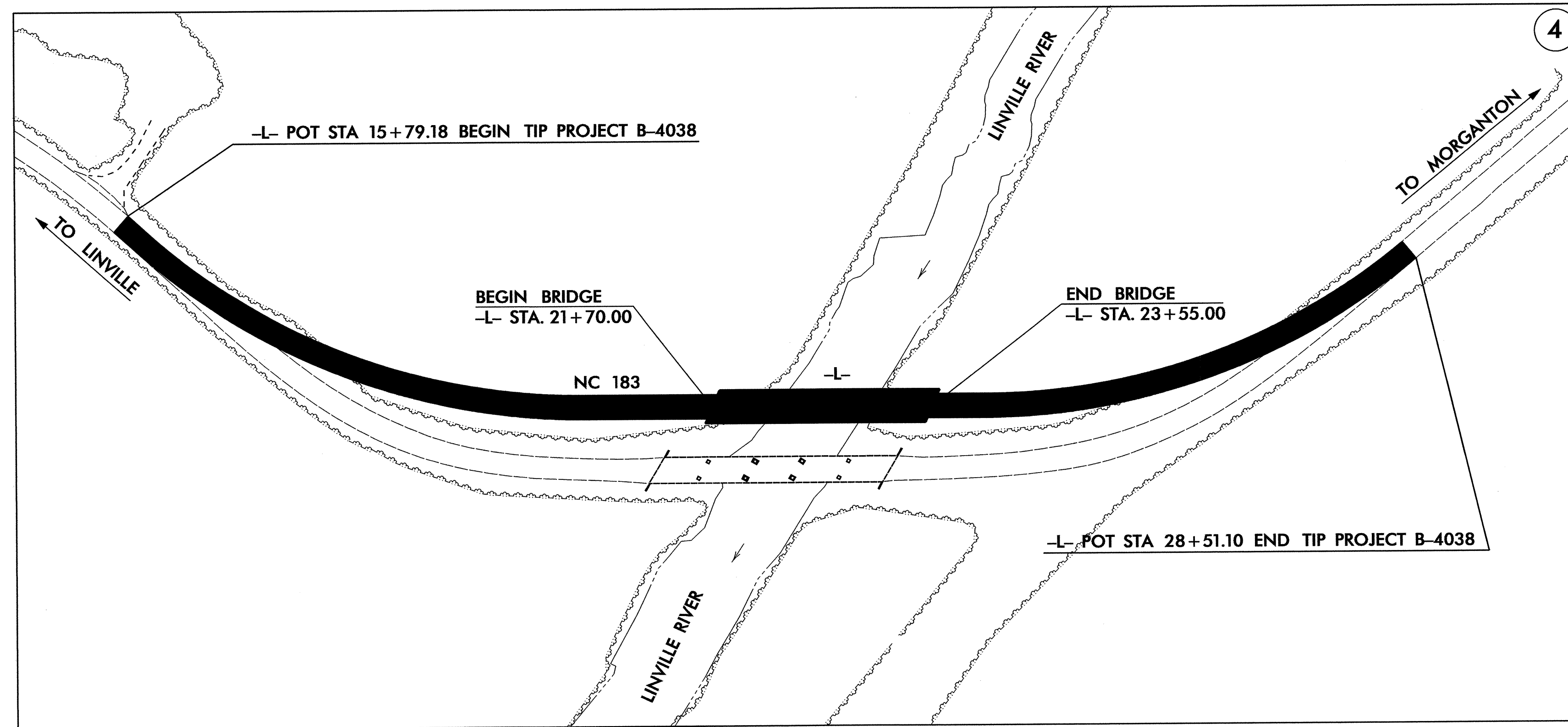
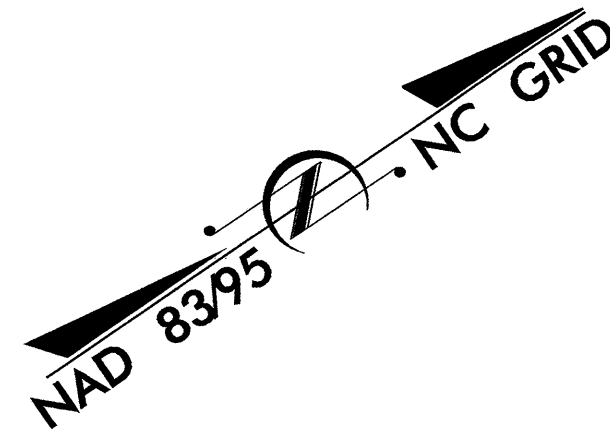
TIP PROJECT: B-4038

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

BURKE COUNTY

LOCATION: BRIDGE NO. 26 OVER LINVILLE RIVER ON NC 183
TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4038	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1650.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
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	▶
	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	▭
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	▭
	Tiered Skimmer Basin	▭
	Infiltration 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.*

**HIGH QUALITY WATER(S) EXIST
ON THIS PROJECT**

*High Quality Water Zone(s) Exist
From Sta. Beginning
to Sta. End
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

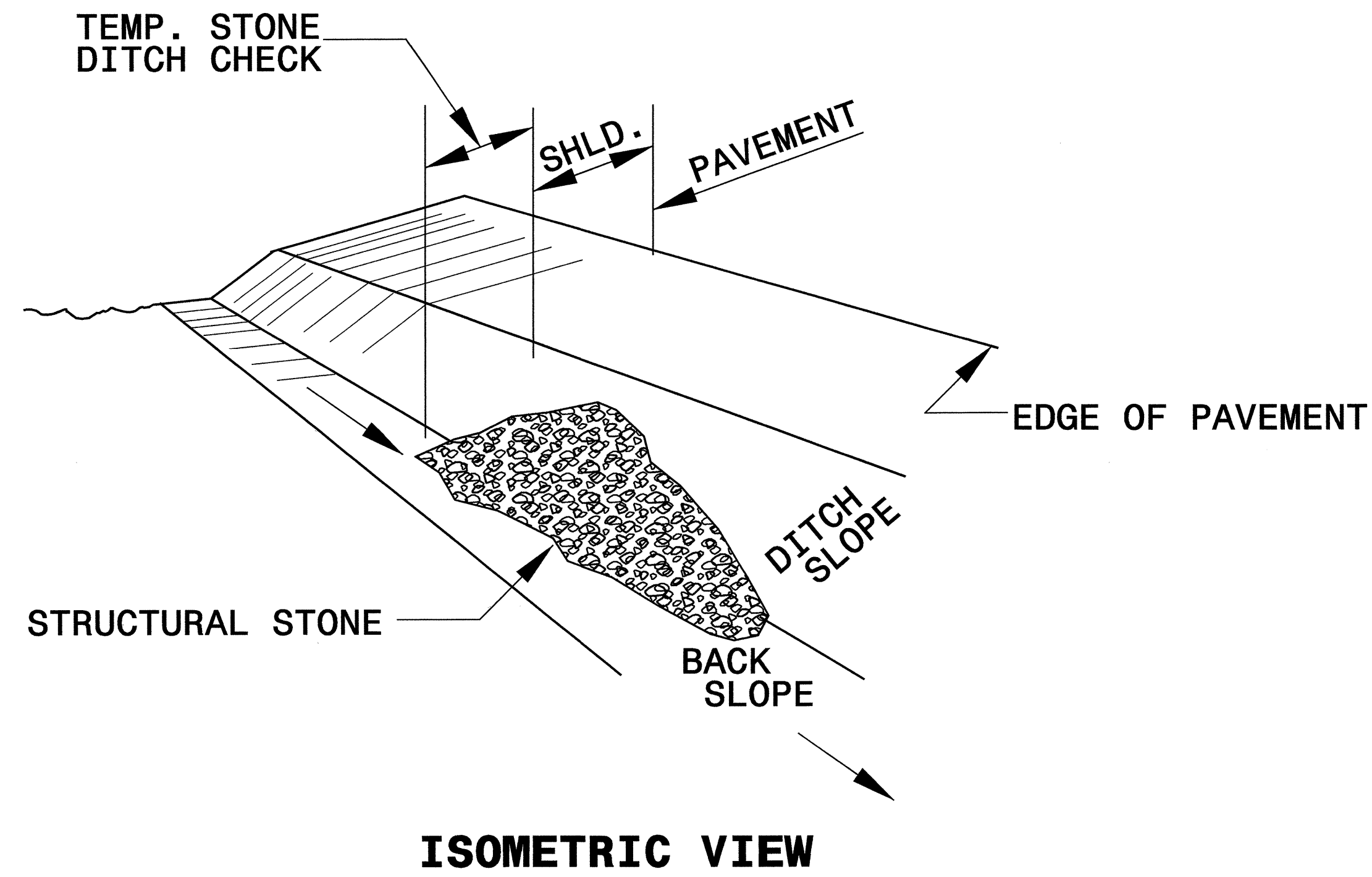
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1630.06 Special Stilling Basin
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	
1630.05 Temporary Diversion	

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66160603.dwg
REV 12/15/07

PROJECT REFERENCE NO. <i>B-4038</i>	SHEET NO. <i>EC-2</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

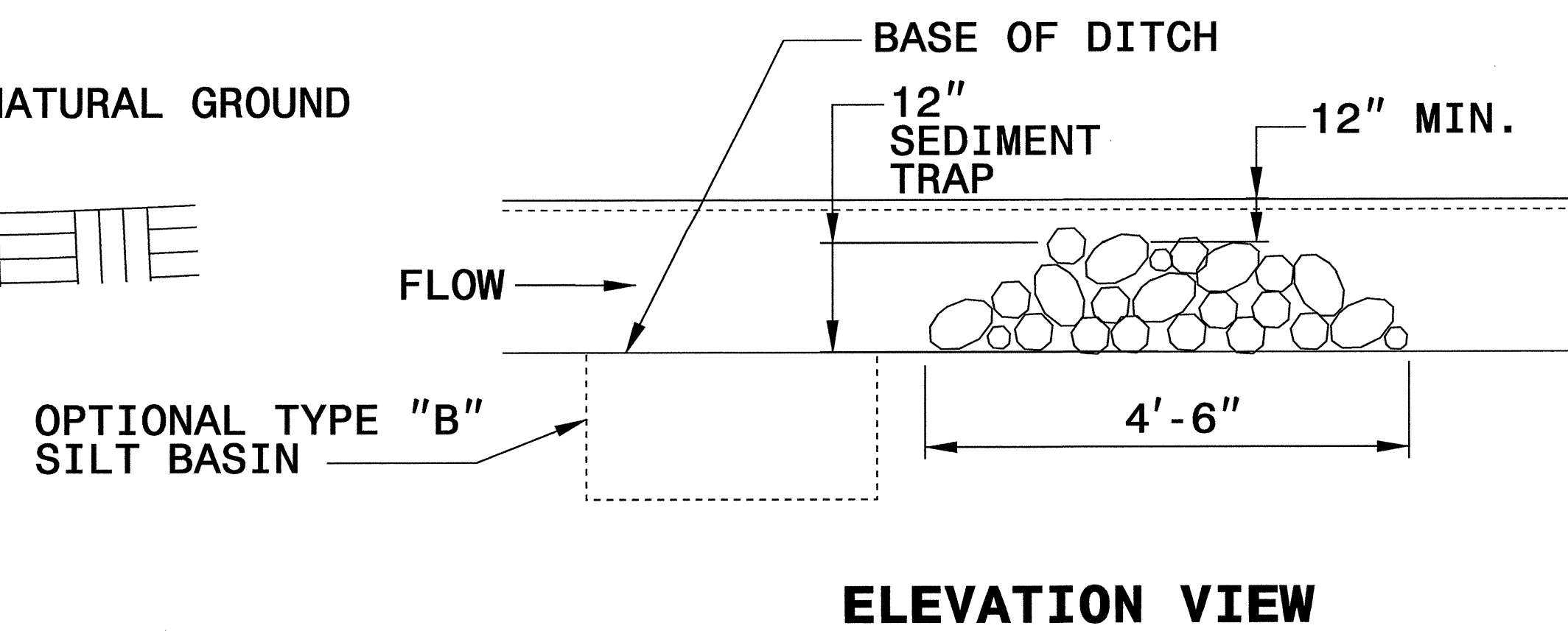
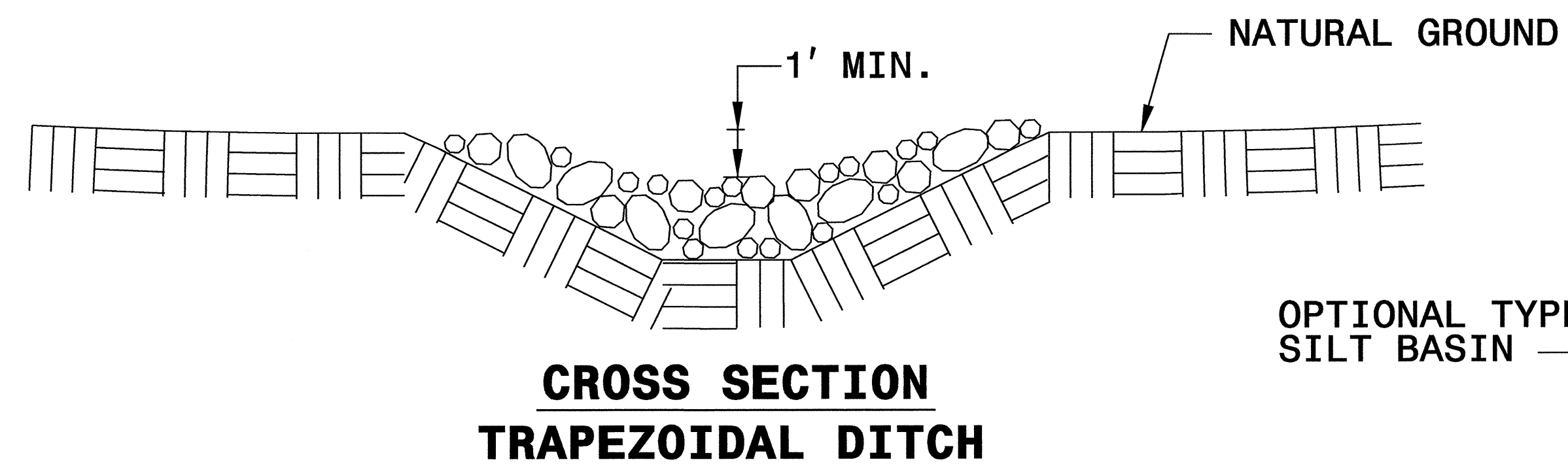
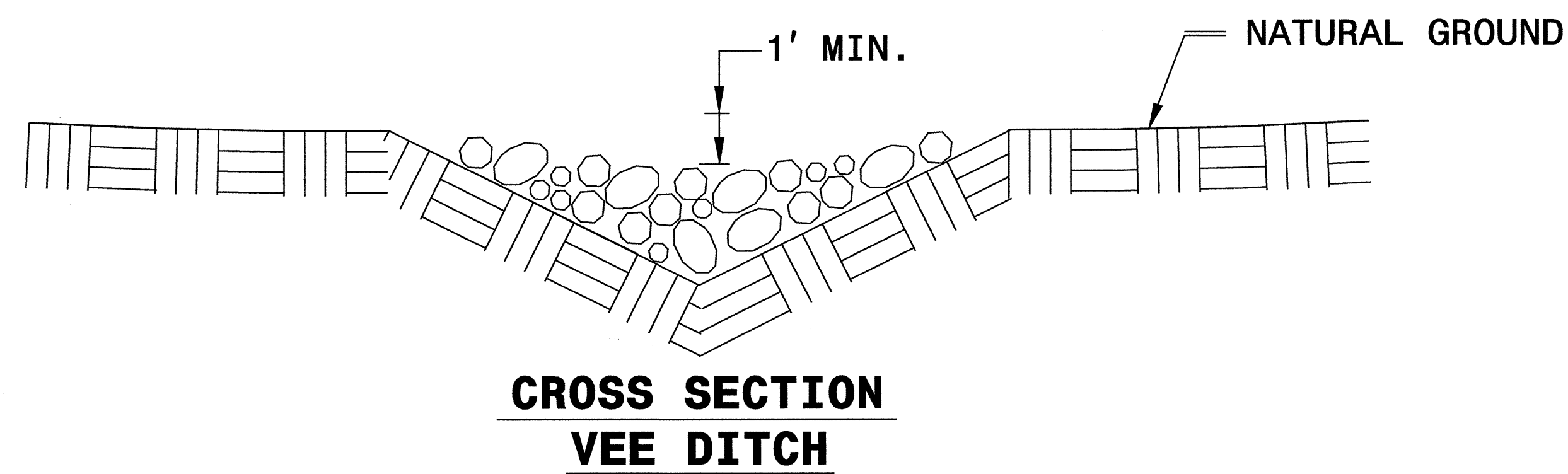
TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL



NOTES:

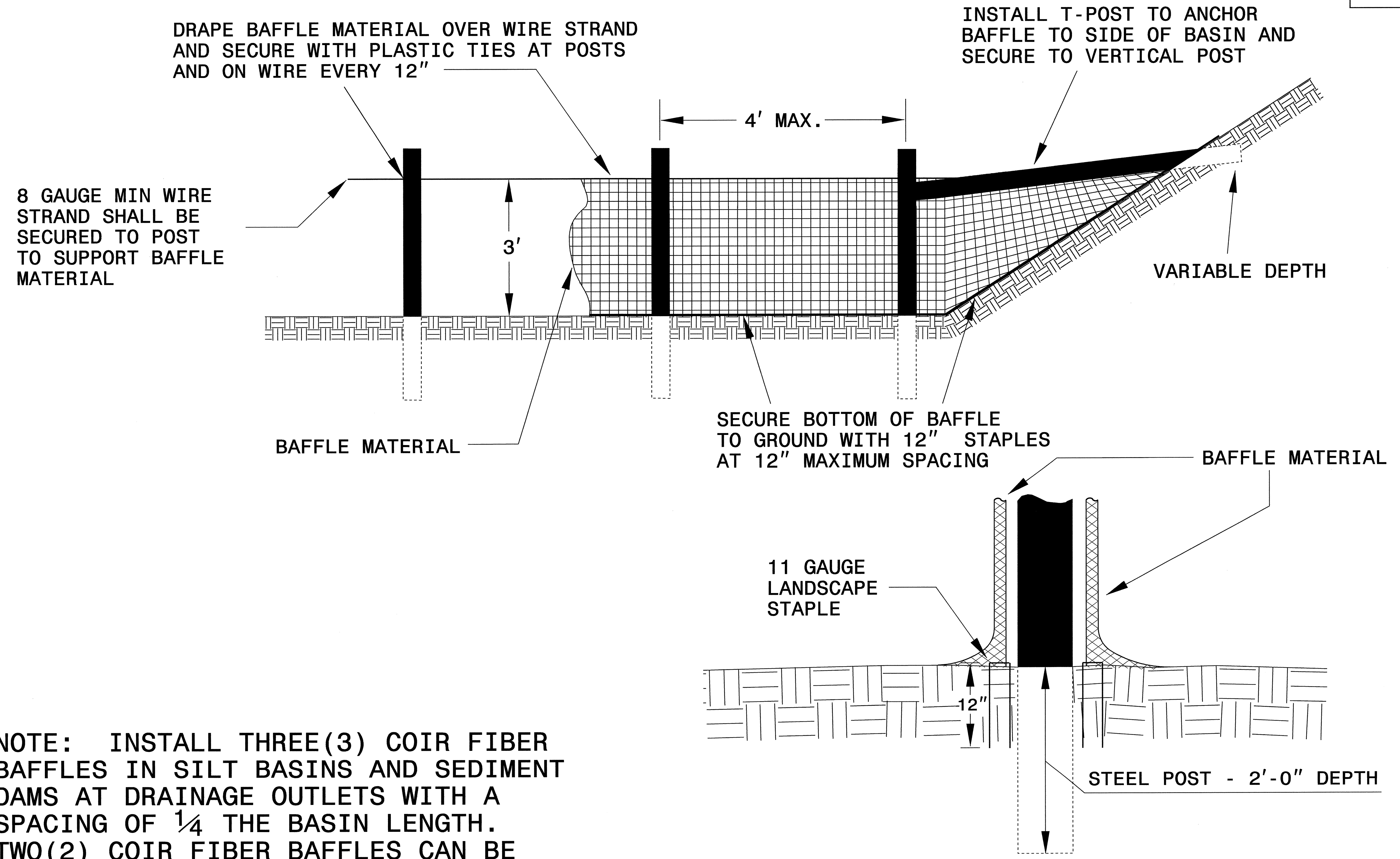
USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

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-4038	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL

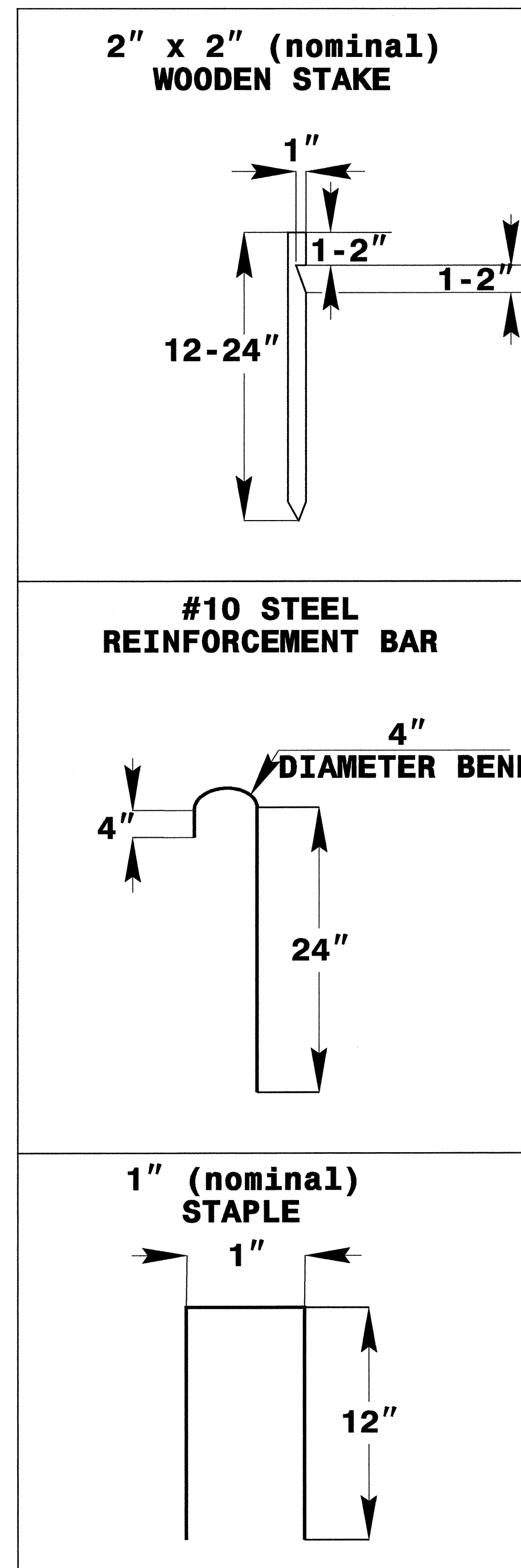
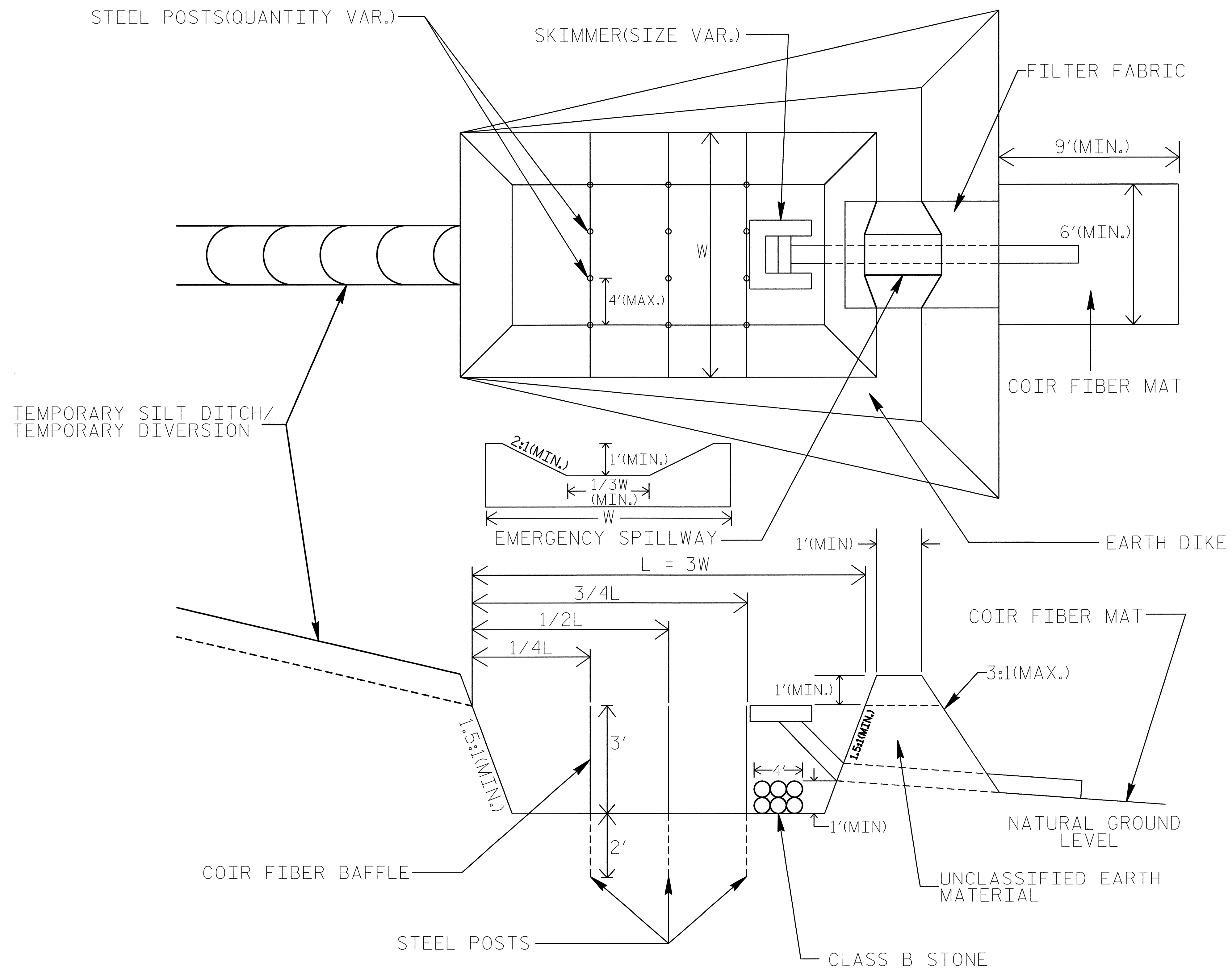


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

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-4038	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



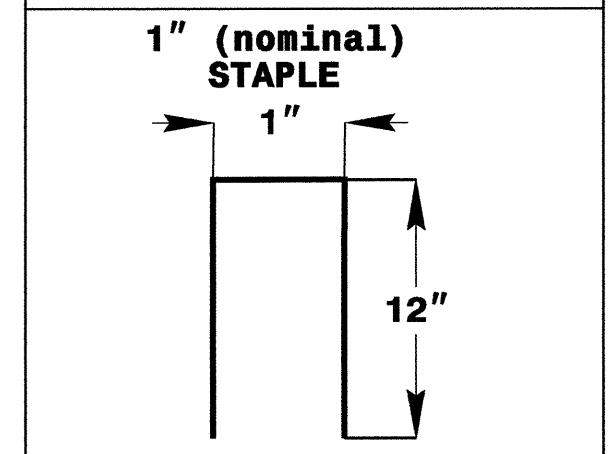
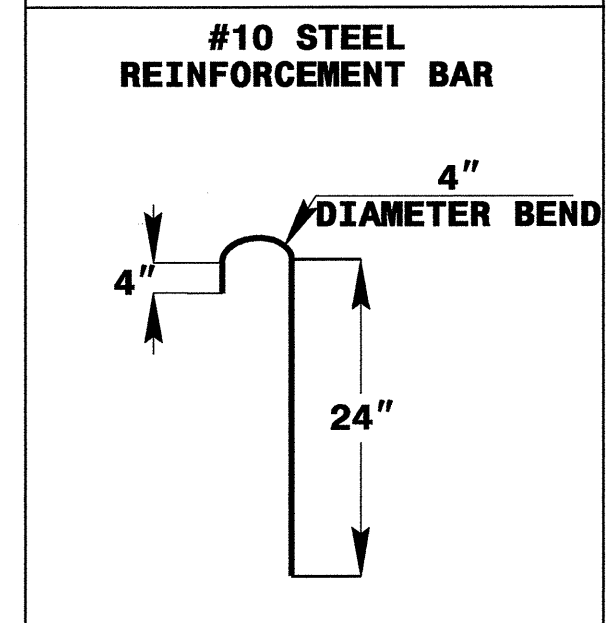
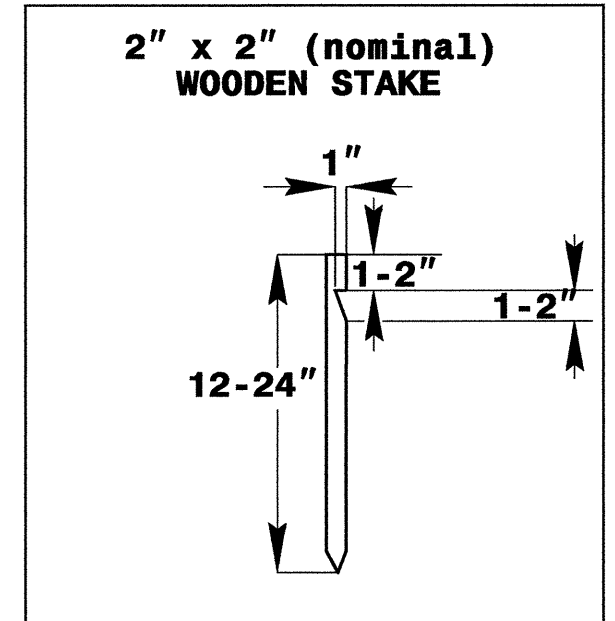
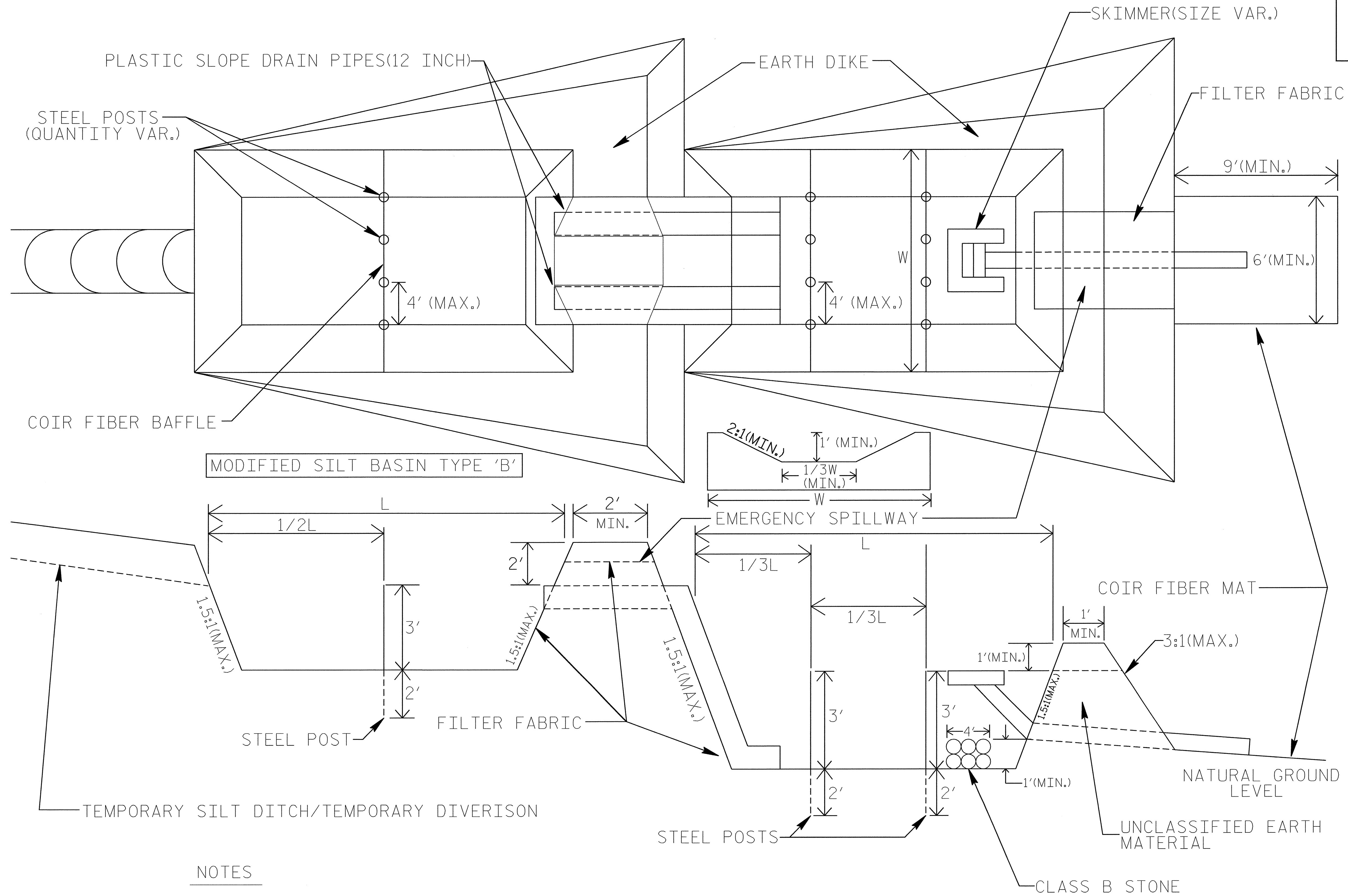
COIR FIBER MAT ANCHOR OPTIONS

NOTES:

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

TIERED SKIMMER BASIN DETAIL

PROJECT REFERENCE NO.		SHEET NO.	
B-4038		EC-2C	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



COIR FIBER MAT ANCHOR OPTIONS

NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON SIDESLOPES OF BASINS.
2. LIMIT HEIGHT OF EARTH DIKES TO 5 FT.
3. ADDITIONAL MODIFIED SILT BASINS TYPE 'B' MAY BE NEEDED DEPENDING ON SLOPE.

PROJECT REFERENCE NO.	SHEET NO.
B-4038	EC-4/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

18 x 7 x 3
1.5 inch Skimmer
with 0.25 inch
Orifice Diameter
4 ft. weir
ID 4.1B

44 x 21 x 3
2.0 inch Skimmer
with 0.625 inch
Orifice Diameter
7 ft. weir
ID 4.5B

23 x 7 x 3
1.5 inch Skimmer
with 0.25 inch
Orifice Diameter
4 ft. weir
ID 4.11B

38 x 14 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
5 ft. weir
ID 4.10B

Modified Silt Basin
Type 'B'
23 x 15 x 3
(See Tiered Skimmer
Basin Detail)
ID 4.6B

23 x 15 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
5 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 4.6B

Modified Silt Basin
Type 'B'
26 x 12 x 3
(See Tiered Skimmer
Basin Detail)
ID 4.2B

36 x 13 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
ID 4.8C

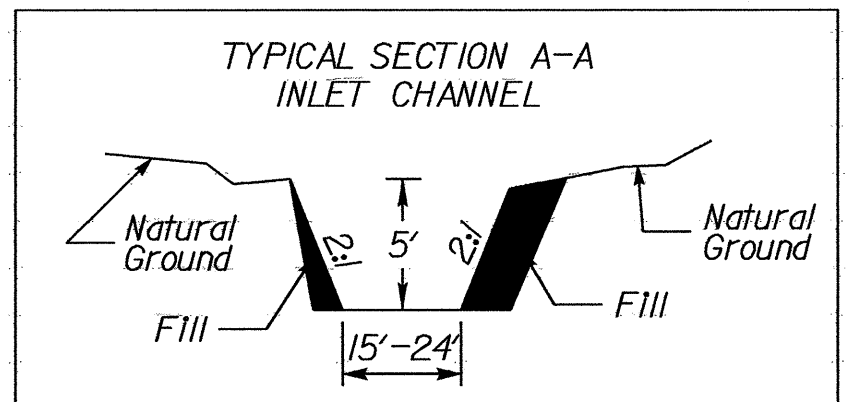
26 x 12 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
6 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 4.2B

31 x 12 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 4.3B

21 x 7 x 3
1.5 inch Skimmer
with 0.25 inch
Orifice Diameter
4 ft. weir
ID 4.7B

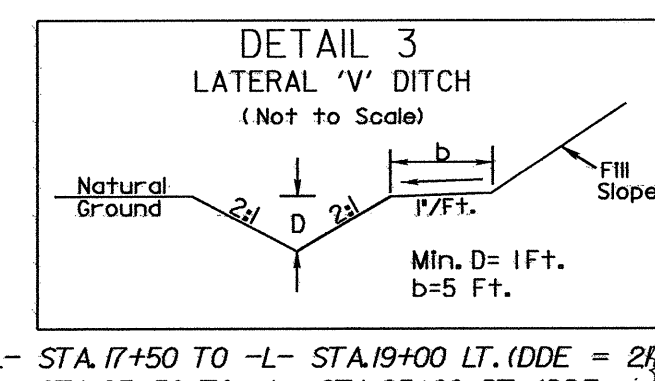
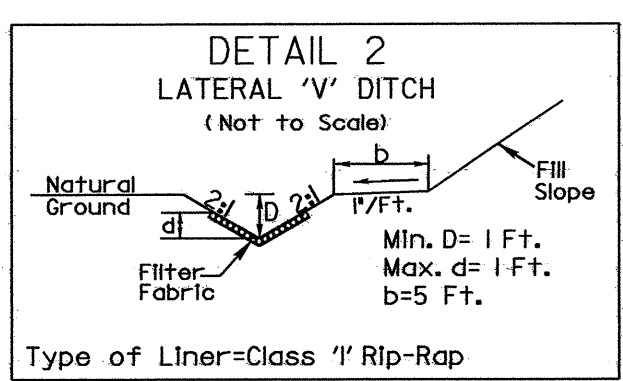
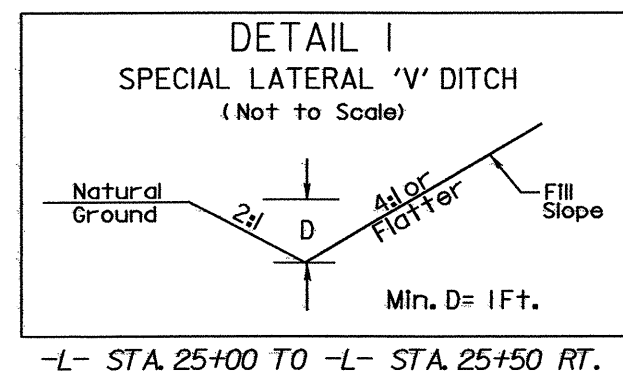
20 x 13 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 4.4B

Modified Silt Basin
Type 'B'
20 x 13 x 3
(See Tiered Skimmer
Basin Detail)
ID 4.4B



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.



** DESIGN EXCEPTION FOR HORIZONTAL ALIGNMENT

END TIP PROJECT B-4038
-L- POC STA. 28+51.10

BEGIN TIP PROJECT B-4038
-L- POT STA. 15+79.18

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

DENOTES PAVED SHOULDER

DENOTES PAVEMENT REMOVAL

DENOTES APPROACH SLAB

FOR -L- PROFILE SEE SHEET NO.5

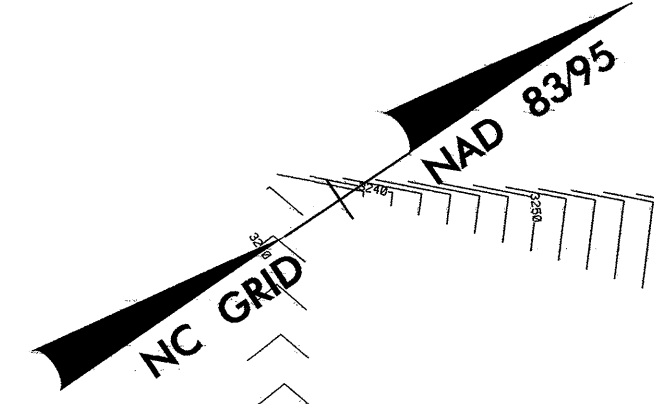
SEE SHEETS S-1 THRU S-
FOR STRUCTURE PLANS

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

UNITED STATES OF AMERICA
NATIONAL PARK SERVICE OF
THE DEPARTMENT OF THE INTERIOR
D.B. 888 PG. 1049
TRACT 46-136

UNITED STATES OF AMERICA
NATIONAL PARK SERVICE OF
THE DEPARTMENT OF THE INTERIOR
D.B. 112 PG. 474
TRACT 46-108

UNITED STATES OF AMERICA
NATIONAL PARK SERVICE OF
THE DEPARTMENT OF THE INTERIOR
D.B. 112 PG. 474
TRACT 46-108



180.55°
N072°06'E

ROY & CAROLYN HALL

DOROTHY C. SHAW

UNIVILLE RIVER

UNITED STATES OF AMERICA
NATIONAL PARK SERVICE OF
THE DEPARTMENT OF THE INTERIOR
D.B. 888 PG. 1049
TRACT 46-136

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TRACT 46-108

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NATIONAL PARK SERVICE OF
THE DEPARTMENT OF THE INTERIOR
D.B. 112 PG. 474
TRACT 46-108

EXISTING BRIDGE
TO BE REMOVED
(STRUCTURE PLAN ITEM)

TO UNIVILLE FALLS
WELCOME CENTER

PROJECT REFERENCE NO.	SHEET NO.
B-4038	EC-5/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

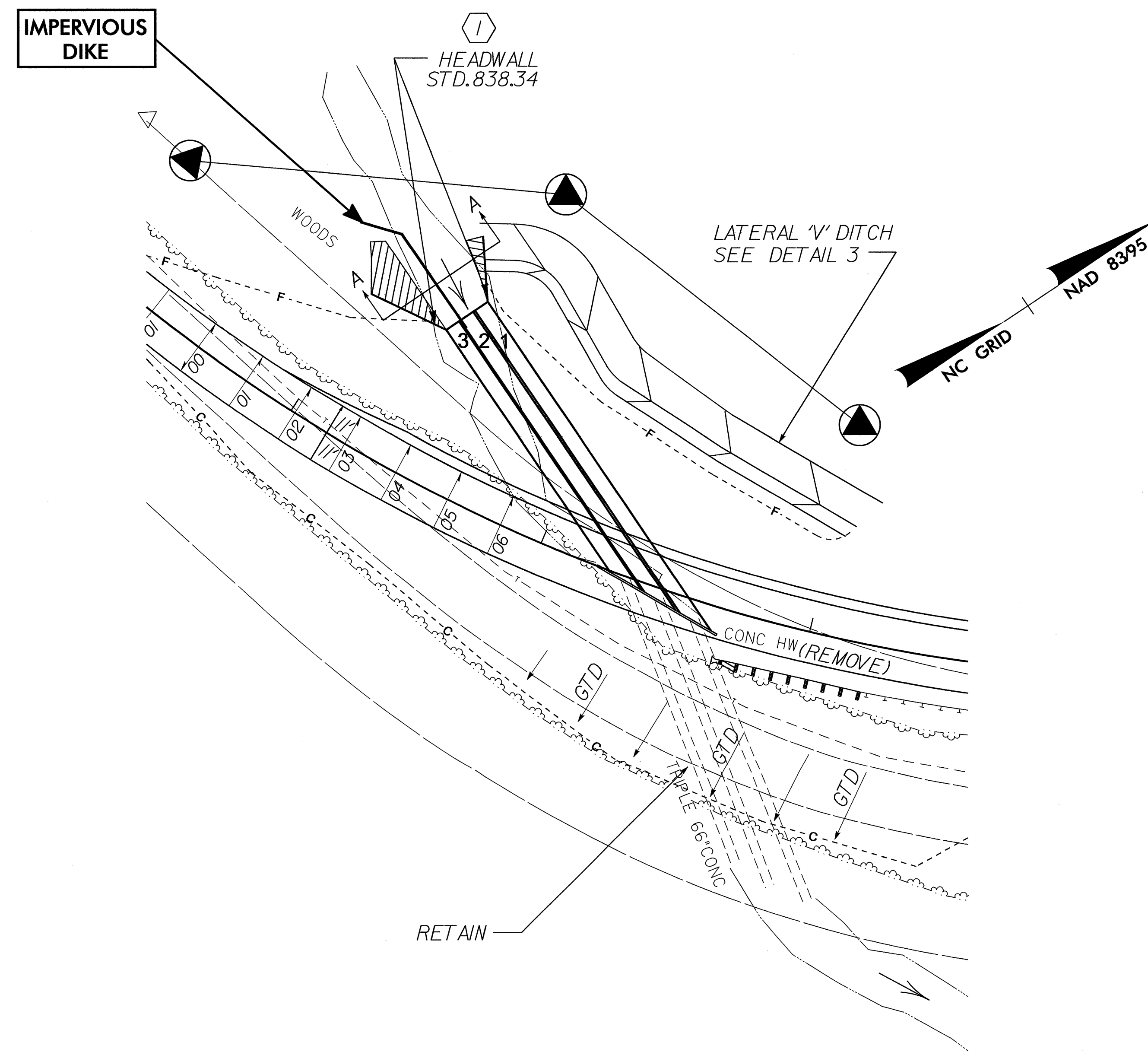
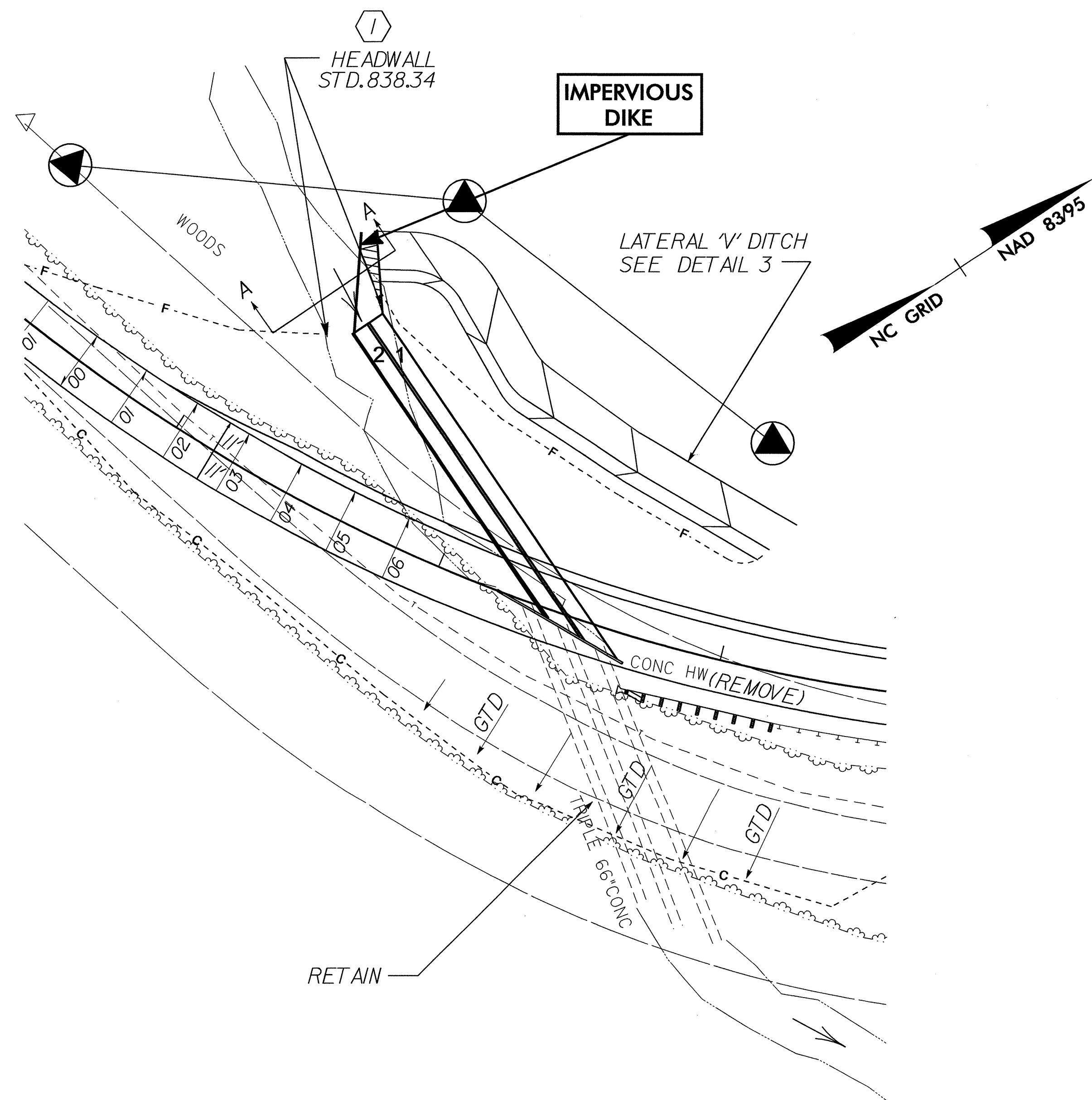
CULVERT CONSTRUCTION SEQUENCE STA. 17+30 -L-

PHASE I

1. UTILIZE SPECIAL STILLING BASIN TO DEWATER CONSTRUCTION SITE AS DIRECTED.
2. INSTALL IMPERVIOUS DIKE A .
3. INSTALL TEMPORARY DETOUR PIPES 1 AND 2.

PHASE II

1. REMOVE IMPERVIOUS DIKE A.
2. INSTALL IMPERVIOUS DIKE B AND DIVERT FLOW THROUGH TEMPORARY DETOUR PIPES 1 AND 2.
3. INSTALL TEMPORARY DETOUR PIPE 3.
4. REMOVE IMPERVIOUS DIKE B AND DIVERT FLOW THROUGH TEMPORARY PIPES 1, 2 AND 3.
5. COMPLETE ROADWAY.



PROJECT REFERENCE NO.	SHEET NO.
B-4038	EC-6/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

18 x 7 x 3
1.5 inch Skimmer
with 0.25 inch
Orifice Diameter
4 ft. weir
ID 4.1B

44 x 21 x 3
2.0 inch Skimmer
with 0.625 inch
Orifice Diameter
7 ft. weir
ID 4.5B

23 x 7 x 3
1.5 inch Skimmer
with 0.25 inch
Orifice Diameter
4 ft. weir
ID 4.11B

38 x 14 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
5 ft. weir
ID 4.10B

Modified Silt Basin
Type 'B'
23 x 15 x 3
(See Tiered Skimmer
Basin Detail)
ID 4.6B

23 x 15 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
5 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 4.6B

Modified Silt Basin
Type 'B'
26 x 12 x 3
(See Tiered Skimmer
Basin Detail)
ID 4.2B

35 x 12 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
ID 4.9F

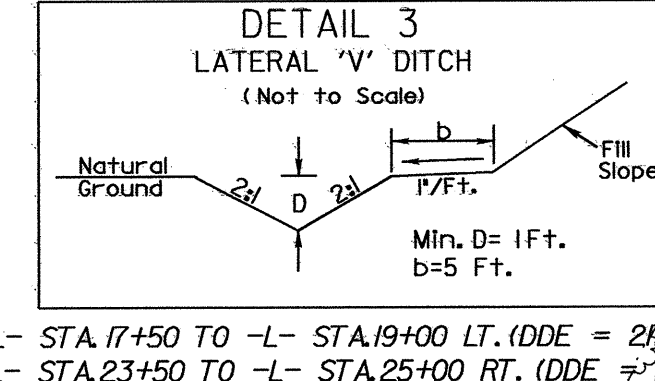
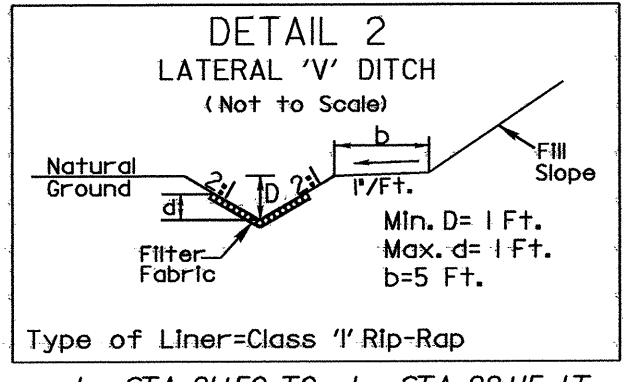
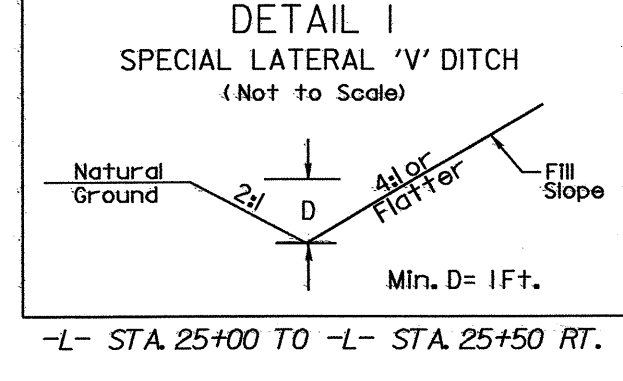
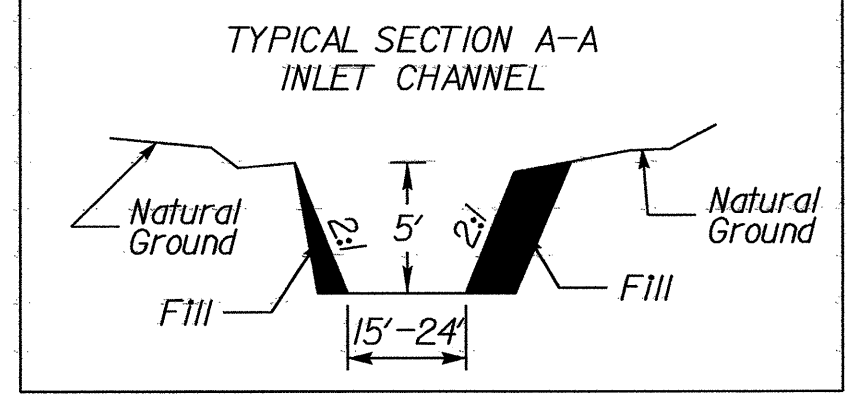
26 x 12 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
6 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 4.2B

31 x 12 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 4.3B

21 x 7 x 3
1.5 inch Skimmer
with 0.25 inch
Orifice Diameter
4 ft. weir
ID 4.7B

20 x 13 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 4.4B

Modified Silt Basin
Type 'B'
20 x 13 x 3
(See Tiered Skimmer
Basin Detail)
ID 4.4B



Place Matting for Erosion Control
on Slope as Work Allows.

** DESIGN EXCEPTION FOR HORIZONTAL ALIGNMENT

END TIP PROJECT B-4038
-L- POC STA.28+51.10

BEGIN TIP PROJECT B-4038
-L- POT STA.15+79.18

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

DENOTES PAVED SHOULDER

DENOTES PAVEMENT REMOVAL

DENOTES APPROACH SLAB

FOR -L- PROFILE SEE SHEET NO.5

SEE SHEETS S-1 THRU S-
FOR STRUCTURE PLANS

UNITED STATES OF AMERICA
NATIONAL PARK SERVICE OF
THE DEPARTMENT OF THE INTERIOR
D.B. 888 PG. 1049
TRACT 46-136

UNITED STATES OF AMERICA
NATIONAL PARK SERVICE OF
THE DEPARTMENT OF THE INTERIOR
BLUE BRIDGE PARKWAY DEED
NO. 427 TRACT 46-108

UNITED STATES OF AMERICA
NATIONAL PARK SERVICE OF
THE DEPARTMENT OF THE INTERIOR
D.B. 12 PG. 474
TRACT 46-108

ROY & CAROLYN HALL

DOROTHY C. SHAW

UNIVILLE RIVER

UNIVILLE RIVER

BLUE RIDGE PARKWAY
20' EX. SURFACE
S&W 20'

TO UNIVILLE CENTER
WELLSVILLE CENTER