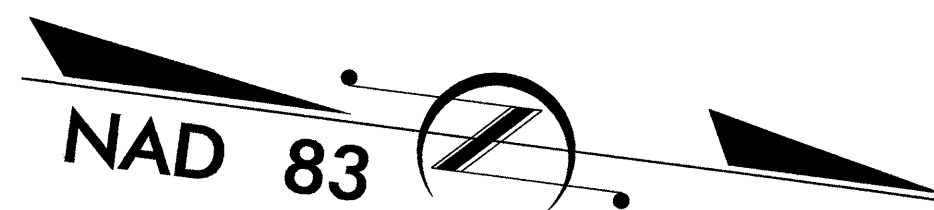


TIP PROJECT: B-4202

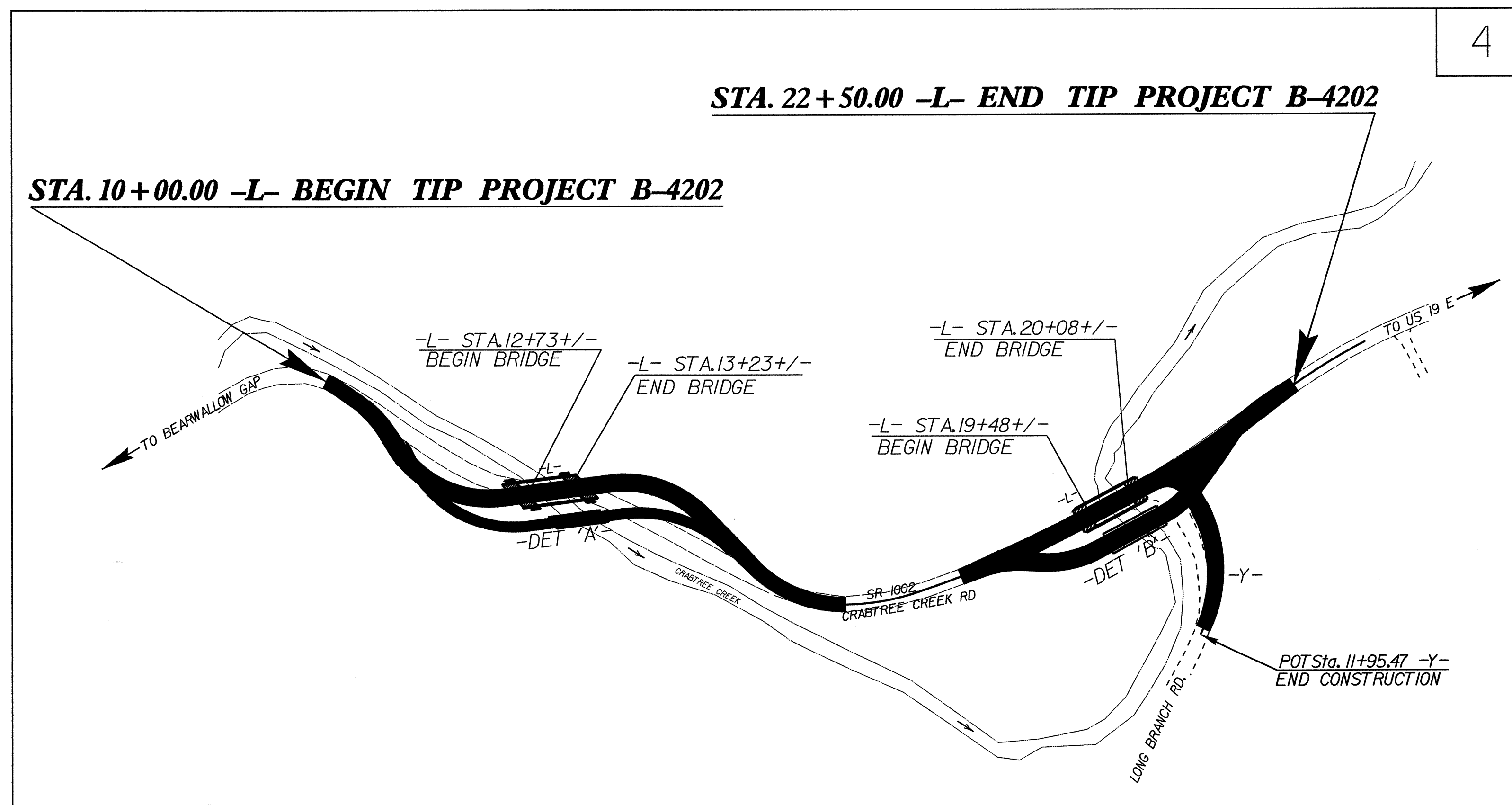
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL



MITCHELL COUNTY

**LOCATION: REPLACEMENT OF BRIDGE NO. 109 AND
BRIDGE NO. 110 ON SR 1002 (CRABTREE
CREEK ROAD) OVER CRABTREE CREEK
TYPE OF WORK: GRADING, PAVING, DRAINAGE
AND STRUCTURES**



4

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4202	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	△△△△△△△△
1622.01	Temporary Berms and Slope Drains	— T —
1630.01	Riser Basin	⊙
1630.02	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	⊗
1633.01	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.*

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

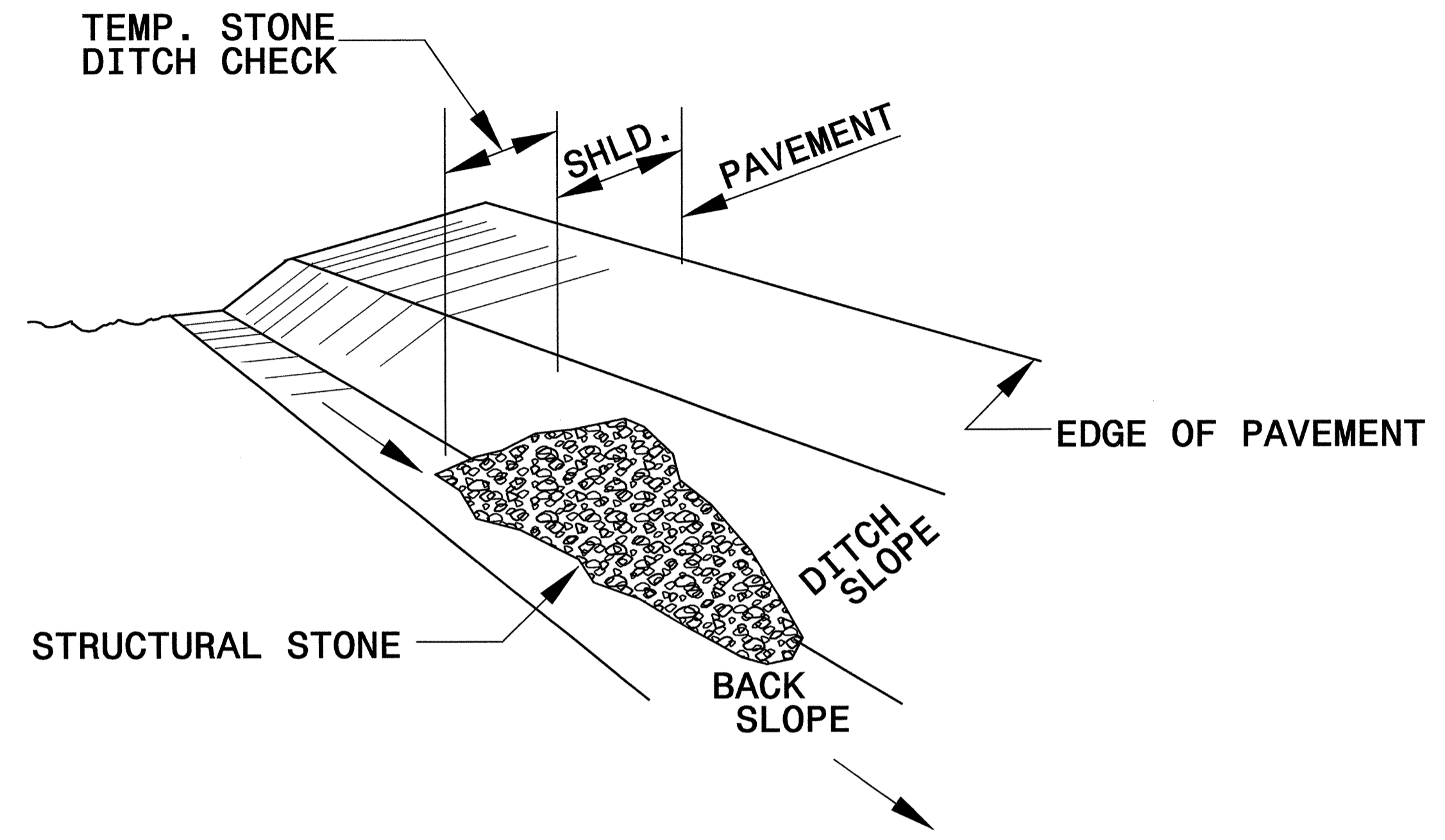
The following roadway english standards as appear in "Roadway Standard Drawings"— Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1607.01 Gravel Construction Entrance	1632.03 Rock Inlet Sediment Trap Type C
1630.02 Silt Basin Type B	1633.01 Temporary Rock Silt Check Type A
1630.03 Temporary Silt Ditch	1634.02 Temporary Rock Sediment Dam Type B
	1635.02 Rock Pipe Inlet Sediment Trap Type B

20-055-2008-0115 Environmental Details\B4202-rdy_tah.dgn
 Project: 20-055-2008-0115 Environmental Details\B4202-rdy_tah.dgn
 15:02:00 11/15/08 AT: RENV231812

PROJECT REFERENCE NO. <i>B-4202</i>	SHEET NO. <i>EC-2</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

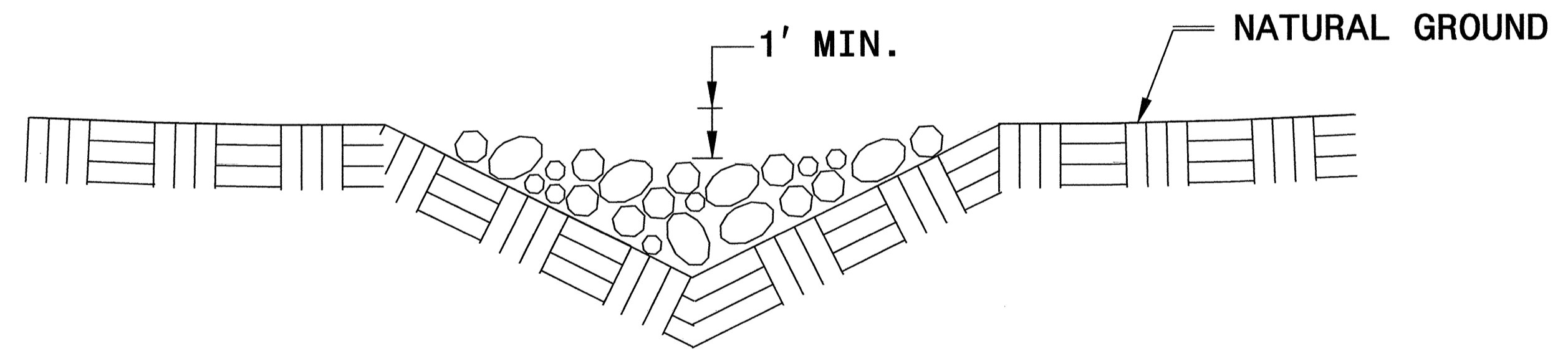


ISOMETRIC VIEW

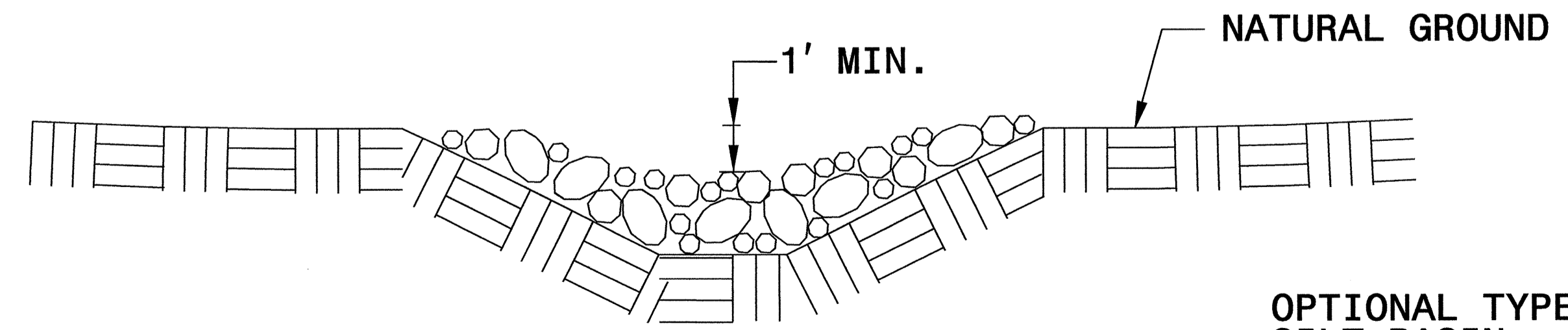
NOTES:

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

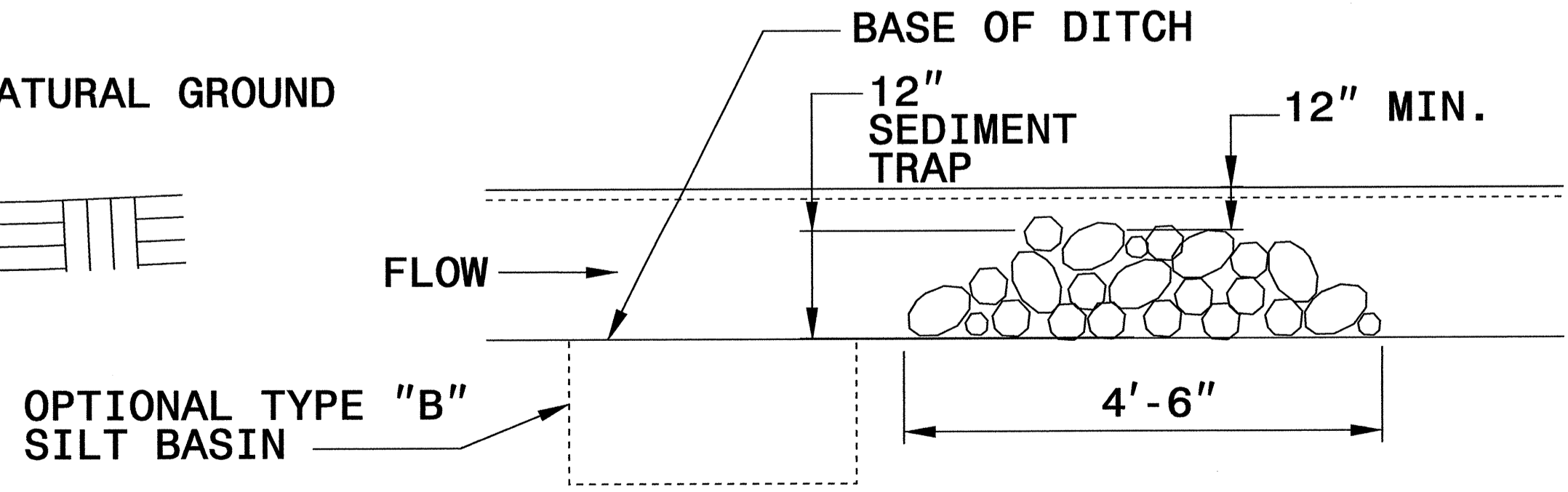
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



CROSS SECTION VEE DITCH



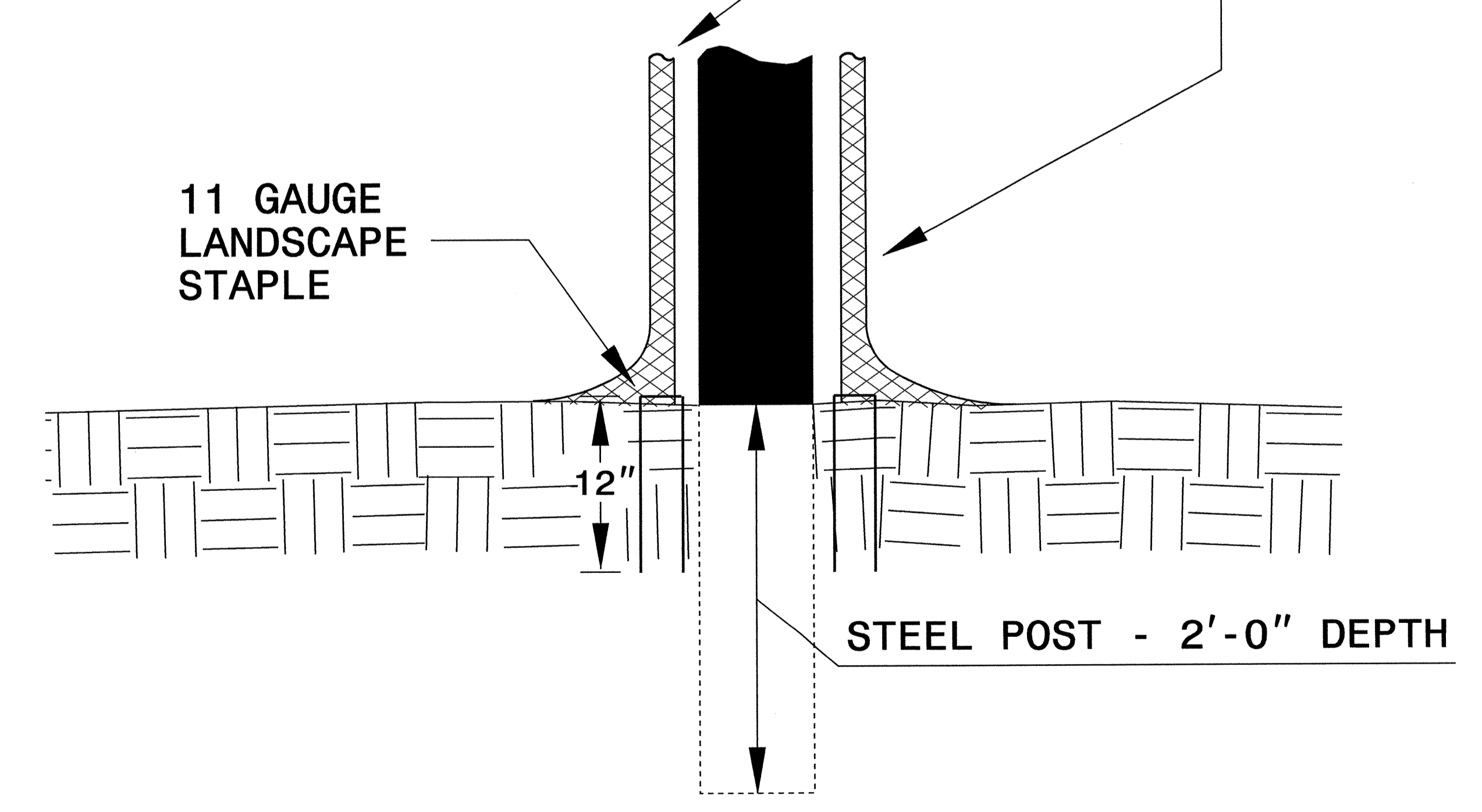
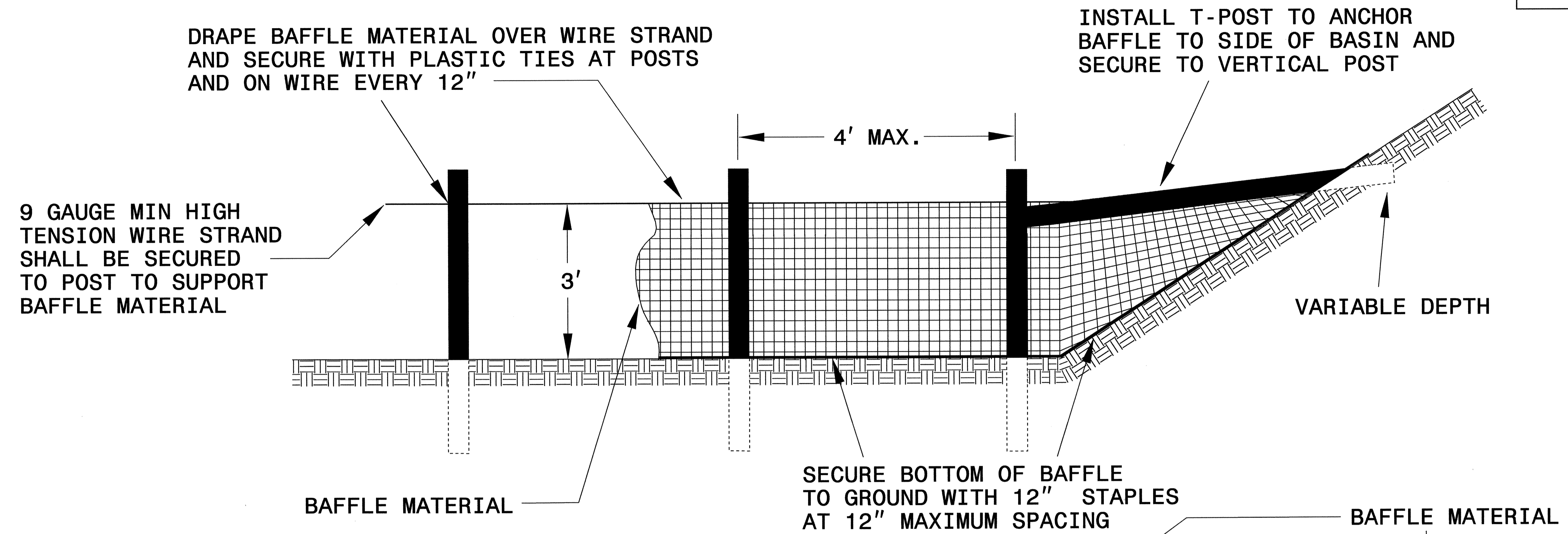
CROSS SECTION TRAPEZOIDAL DITCH



ELEVATION VIEW

PROJECT REFERENCE NO. B-4202	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL

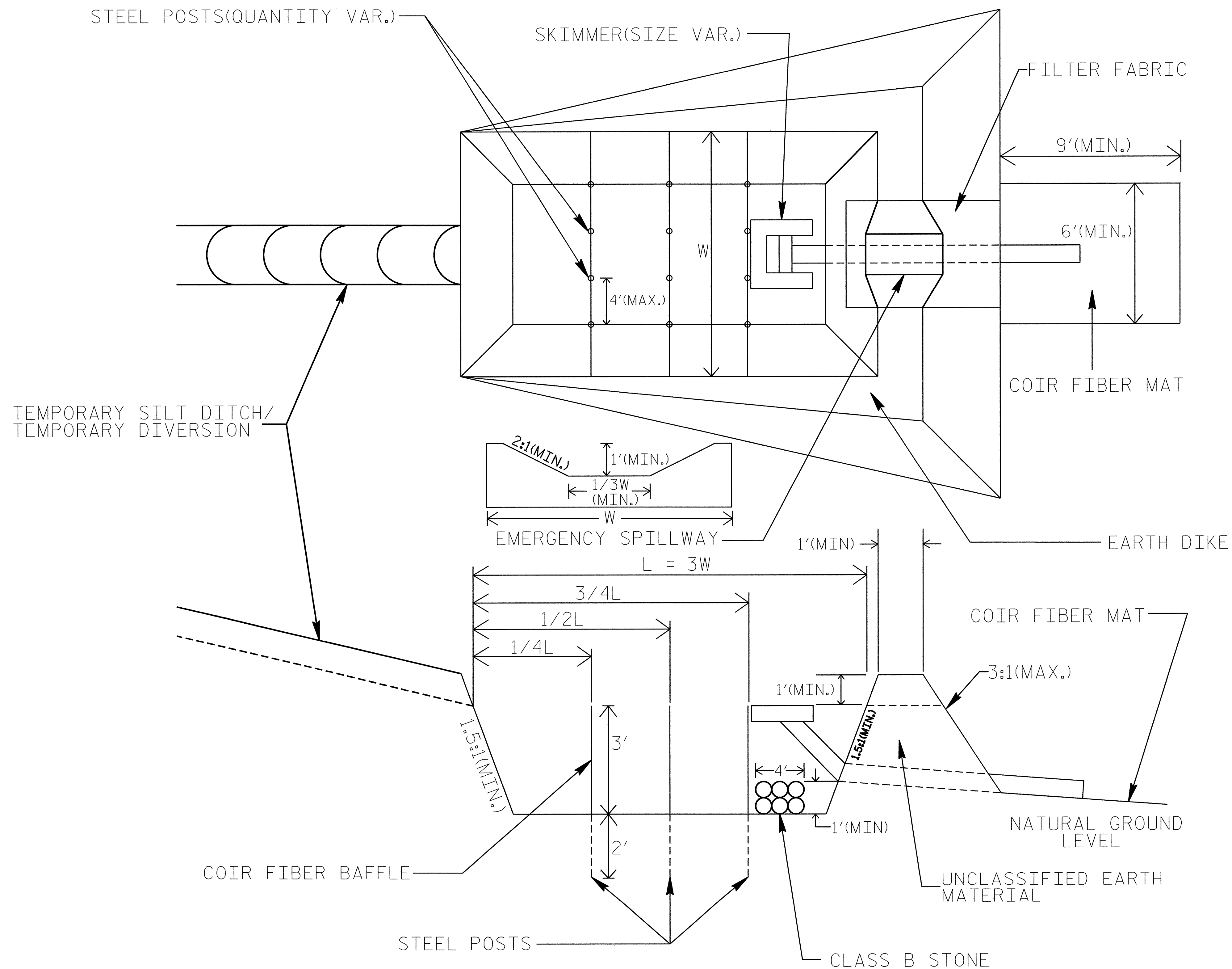


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

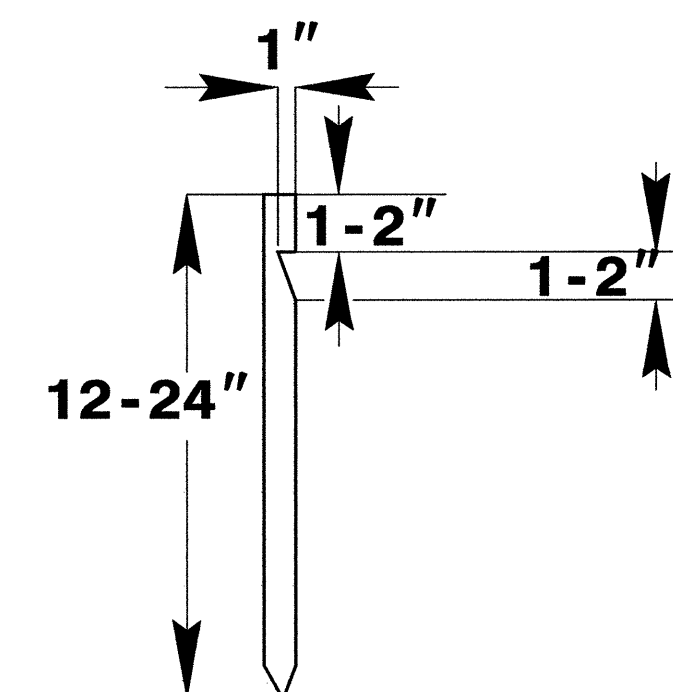
BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12" LANDSCAPE STAPLES

SKIMMER BASIN WITH BAFFLES DETAIL

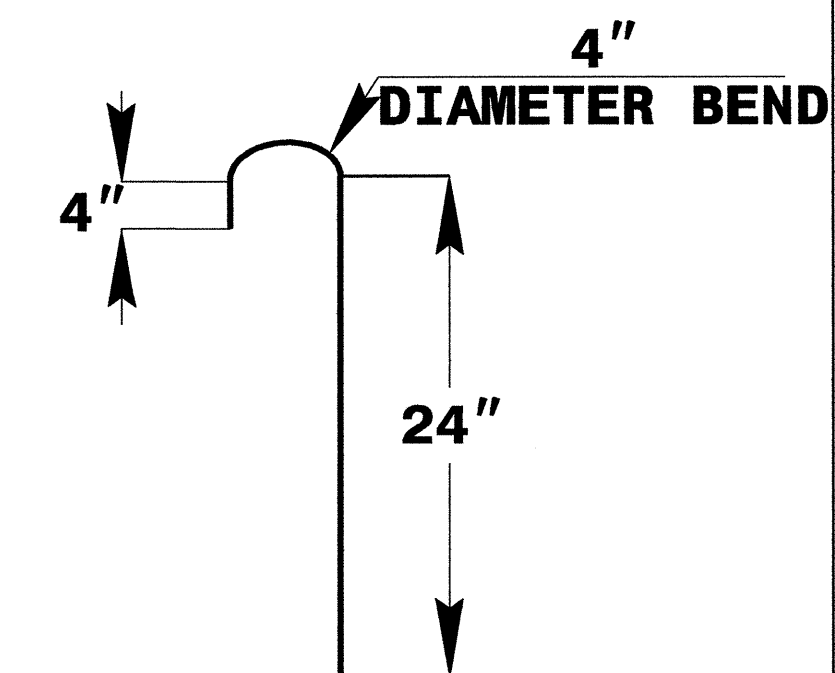
PROJECT REFERENCE NO. B-4202	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



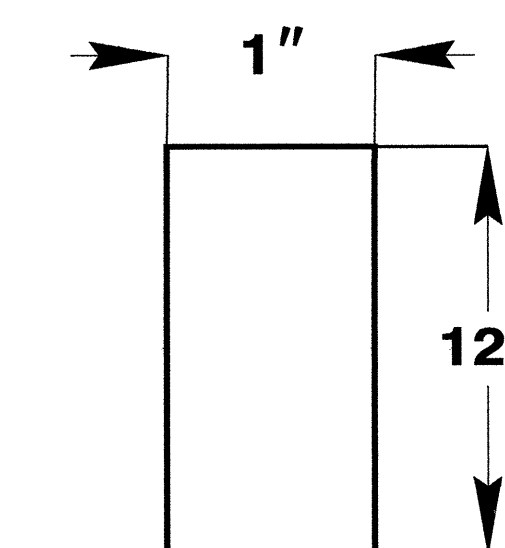
**2" x 2" (nominal)
WOODEN STAKE**



**#10 STEEL
REINFORCEMENT BAR**



**1" (nominal)
STAPLE**

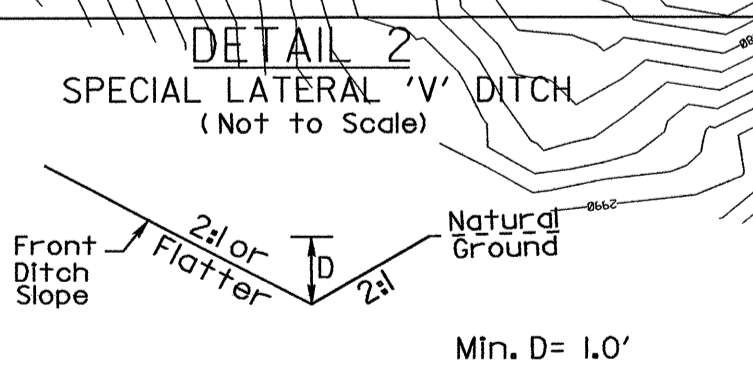
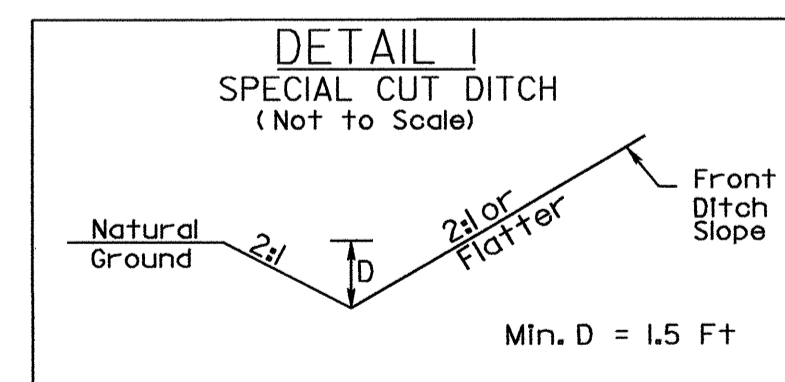
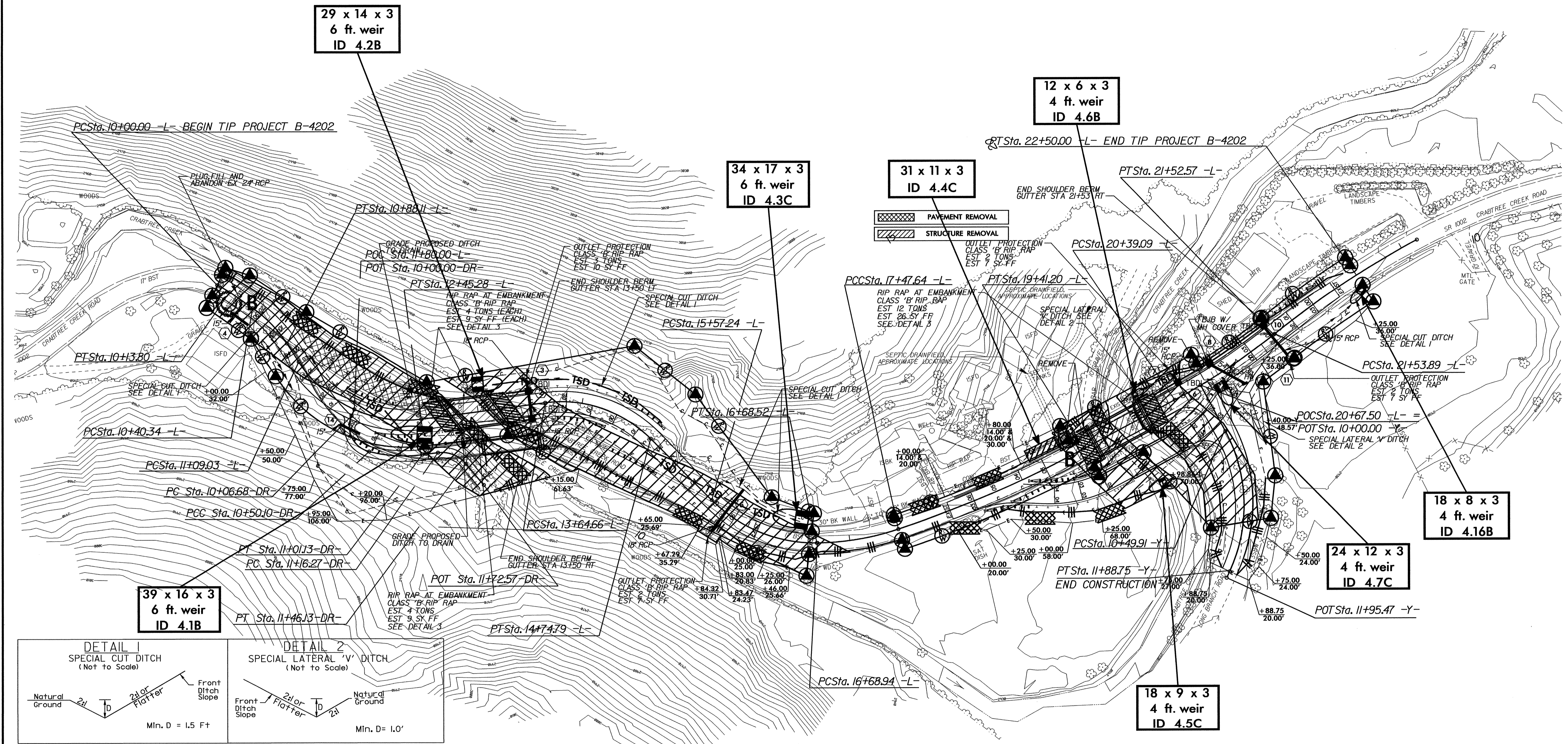
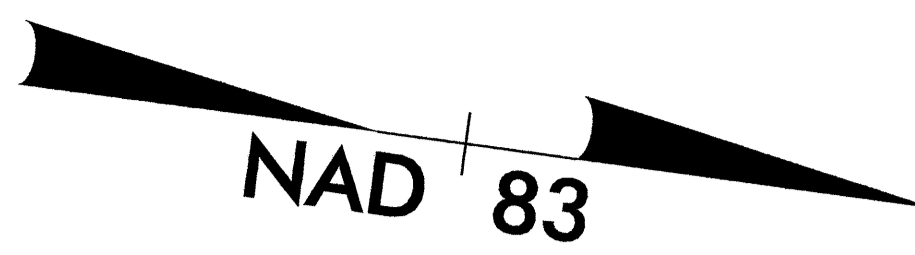


**COIR FIBER MAT
ANCHOR OPTIONS**

NOTES:

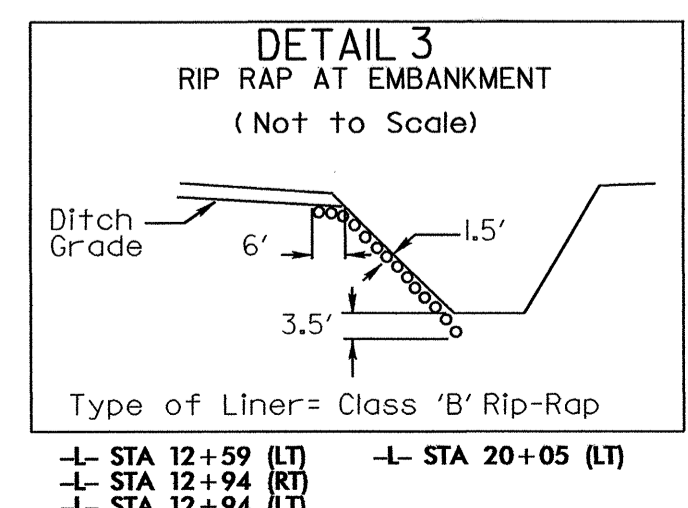
1. SEED AND PLACE MATTING FOR EROSION CONTROL ON SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.

PROJECT REFERENCE NO. B-4202	SHEET NO. EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



- L- STA. 10+00 TO STA. 11+25 (RT)
- L- STA. 12+91 TO STA. 14+50 (LT)
- L- STA. 15+75 TO STA. 16+50 (LT)
- L- STA. 15+50 TO STA. 15+75 (LT)
- L- STA. 21+75 TO STA. 22+50 (RT)

- Y- STA. 10+25 TO STA. 10+75 (LT)
- L- STA. 20+08 TO STA. 20+50 (LT)



**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4**

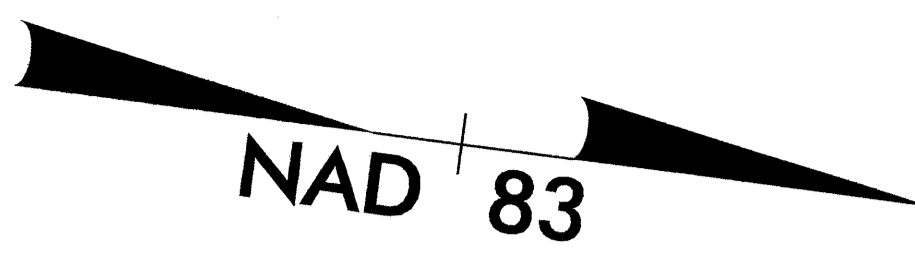
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

**ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS**

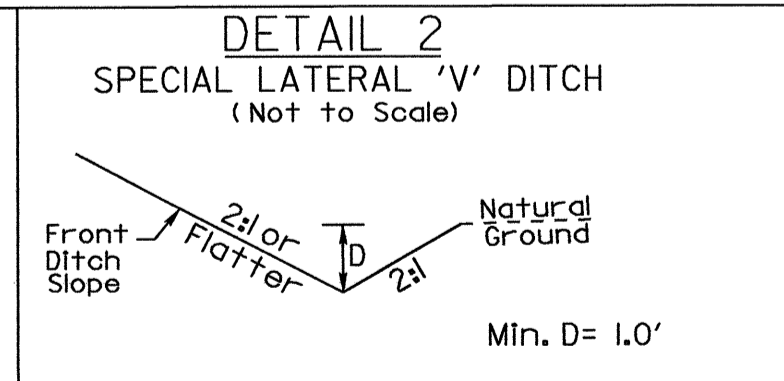
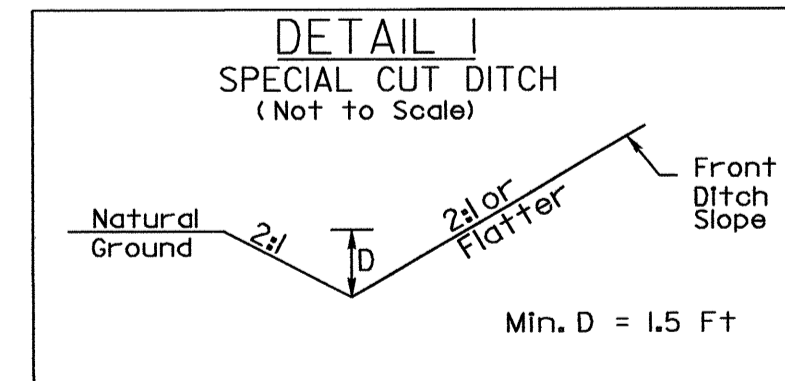
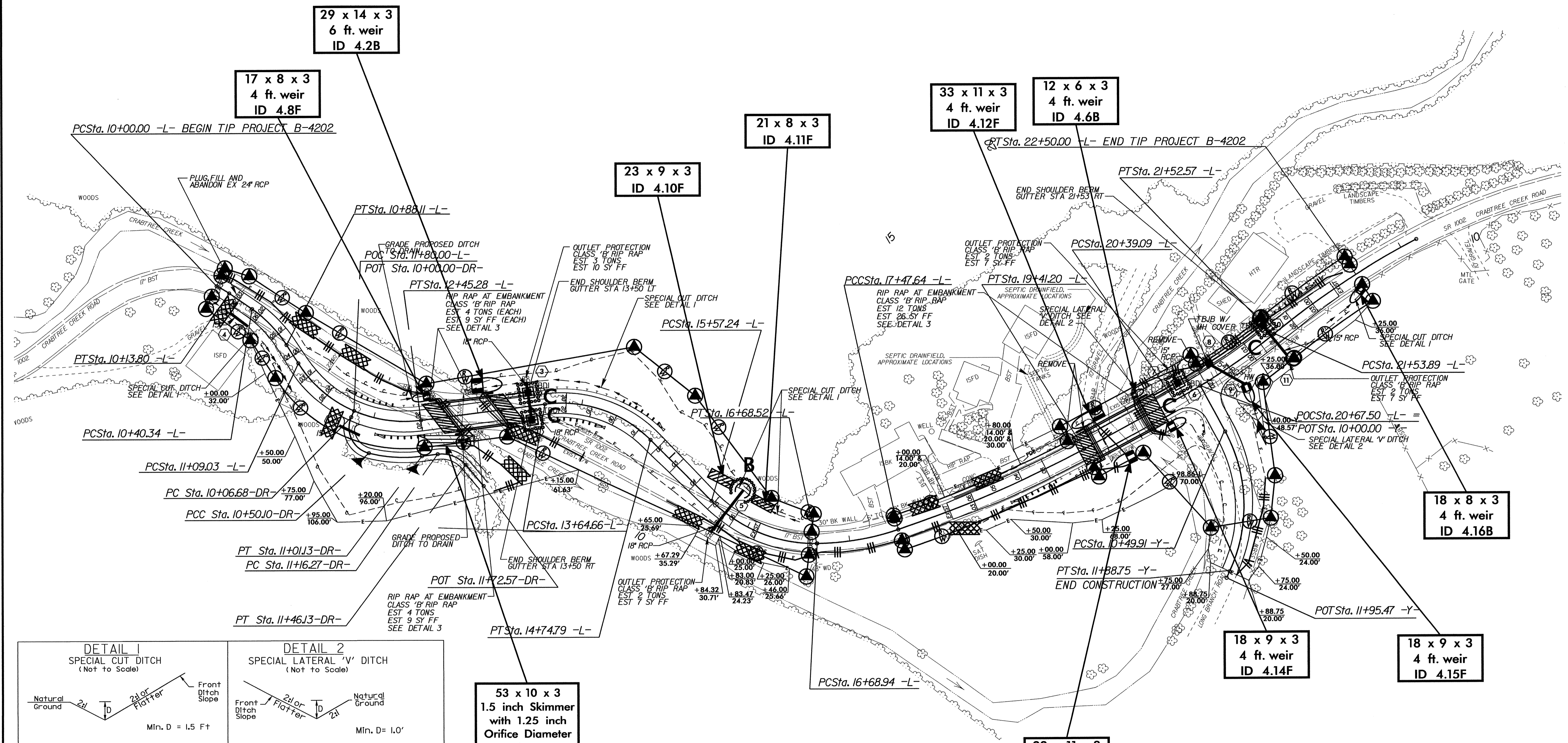
NOTE:
UTILIZE TEMPORARY ROCK SEDIMENT DAM TYPE - B,
TEMPORARY ROCK SILT CHECK TYPE - A
AND SKIMMER BASIN
AS STILLING BASIN WHERE APPLICABLE.

20-FEB-2008 10:45
 9: tippro\jcs\p\4202\environmental\design\b4202_rdy_psh4.dgn
 8/17/99
 REVISED RIGHT OF WAY, PERMANENT AND TEMPORARY CONSTRUCTION EASEMENT ON PARCEL 6. JPM 8/14/07

PROJECT REFERENCE NO. B-4202	SHEET NO. EC-5/CONST.4
RAW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

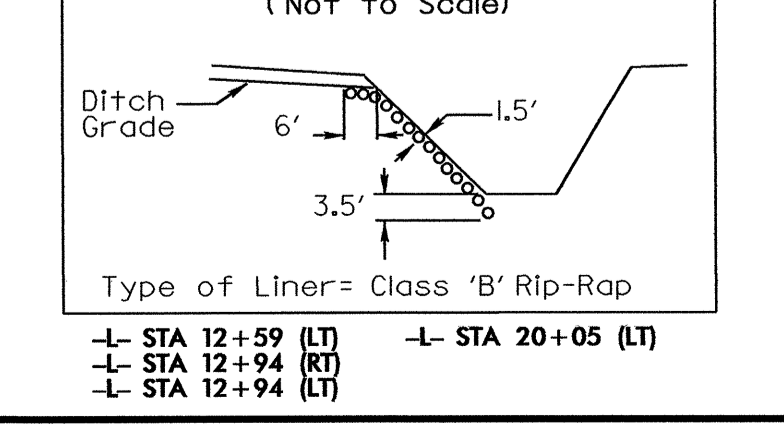


8/17/99
 REVISED RIGHT OF WAY, PERMANENT AND TEMPORARY CONSTRUCTION EASEMENT ON PARCEL 6. JPM 8/14/07
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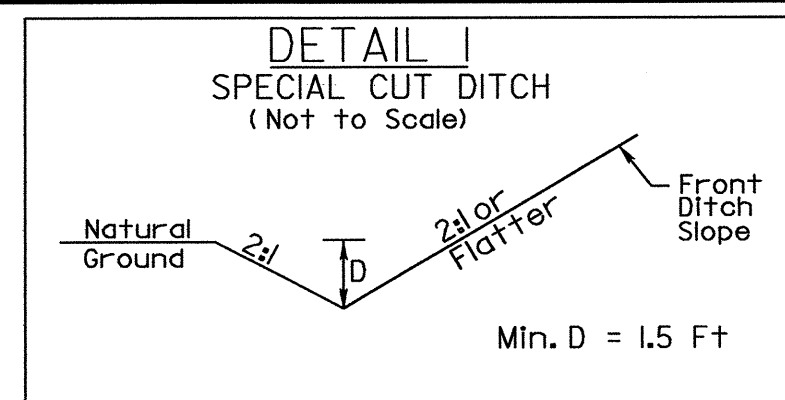
- L- STA. 10+00 TO STA. 11+25 (RT)
- L- STA. 12+91 TO STA. 14+50 (LT)
- L- STA. 15+75 TO STA. 16+50 (LT)
- L- STA. 15+50 TO STA. 15+75 (LT)
- L- STA. 21+75 TO STA. 22+50 (RT)

- Y- STA. 10+25 TO STA. 10+75 (LT)
- L- STA. 20+08 TO STA. 20+50 (LT)

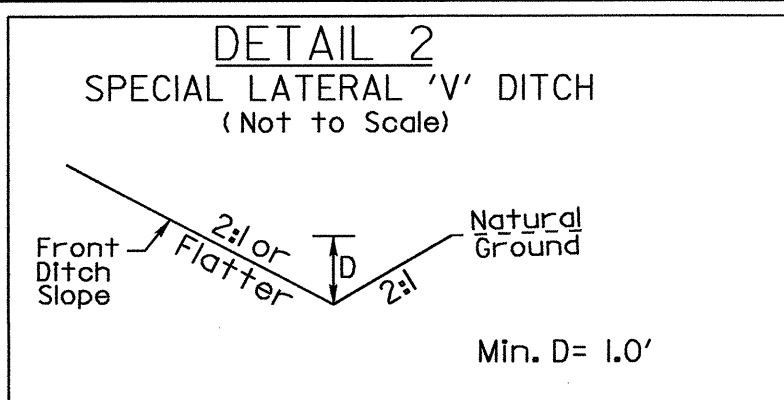


NOTE:
UTILIZE TEMPORARY ROCK SEDIMENT DAM TYPE - B,
TEMPORARY ROCK SILT CHECK TYPE - A
AND SKIMMER BASIN
AS STILLING BASIN WHERE APPLICABLE.

PROJECT REFERENCE NO. B-4202	SHEET NO. EC-6/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

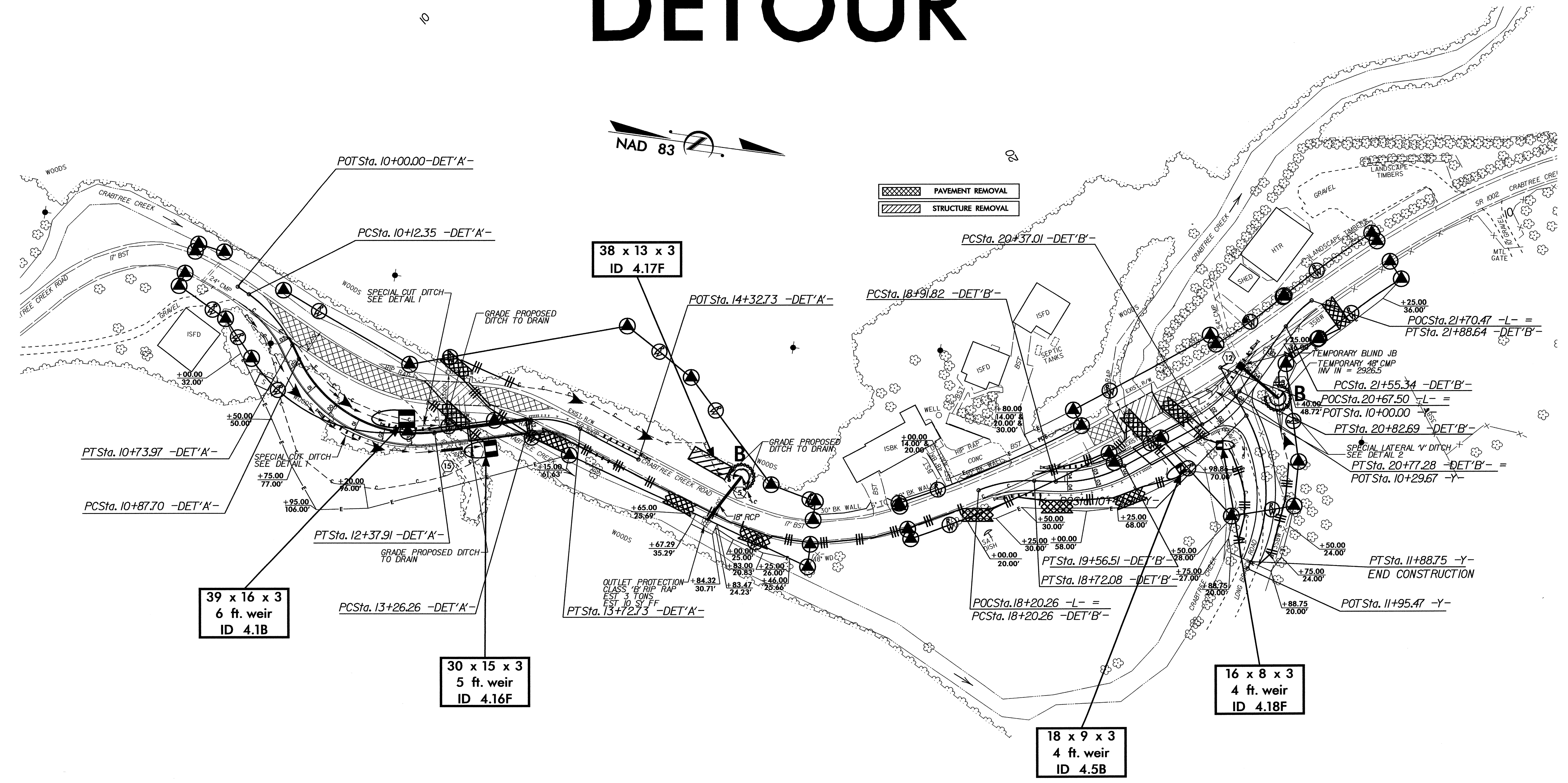


-DET 'A'- STA. 10+24 TO STA. 12+75 (RT)
-DET 'A'- STA. 11+29 TO STA. 12+53 (LT)



-DET 'B'- STA. 20+19 TO STA. 20+94 (LT)
-Y- STA. 10+44 TO STA. 10+75 (LT)

DETOUR



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

8/17/99
20-FEB-2008 10:16
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