TIP PROJECT: B-3818

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3818	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

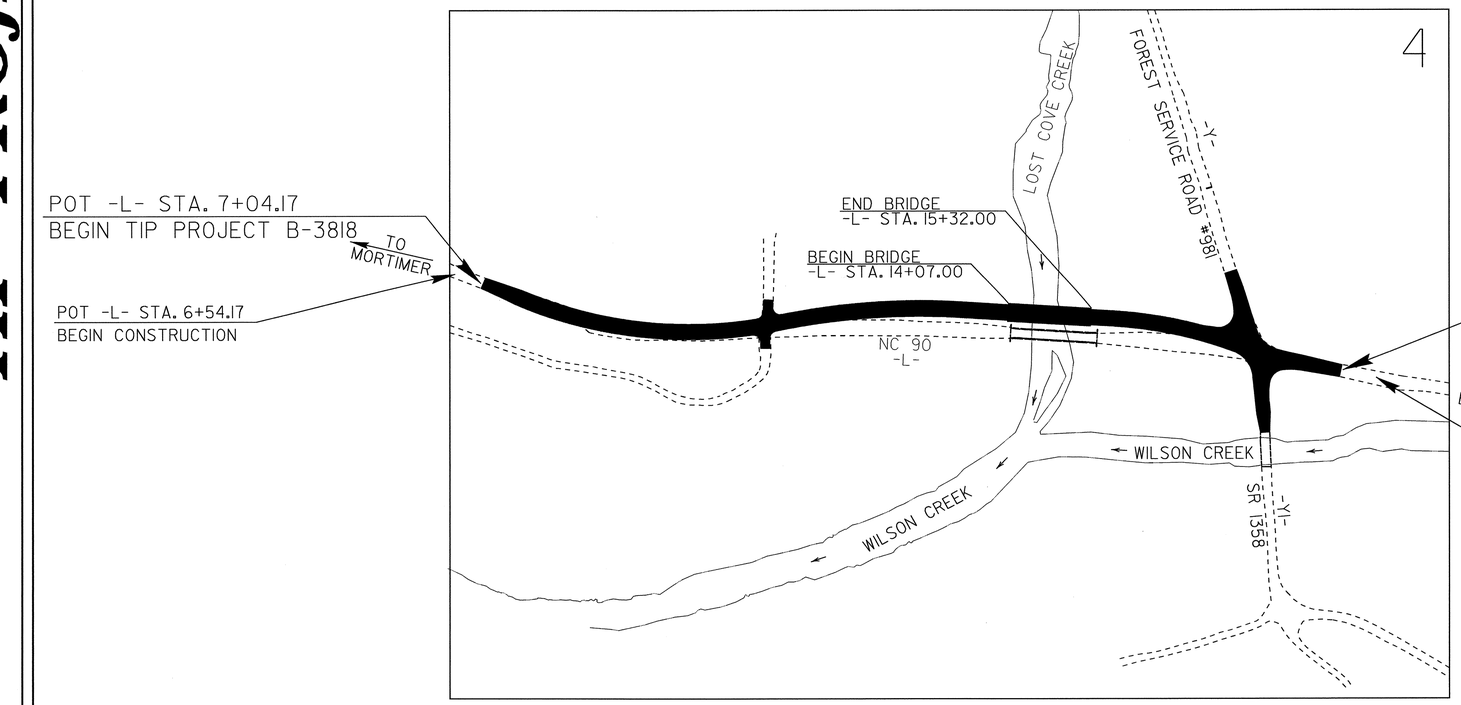
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

CALDWELL COUNTY

LOCATION: BRIDGE NO. 3 OVER LOST COVE CREEK ON NC 90

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURES

NC GRID NAD '83



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Streambank Reforestation	
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
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	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	
	Tiered Skimmer Basin	

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

HIGH QUALITY WATER(S) EXIST ON THIS PROJECT

High Quality Water Zone(s) Exist
From Sta. 7+04
to Sta. 18+58
Refer To E. C. Special Provisions for Special Considerations.

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

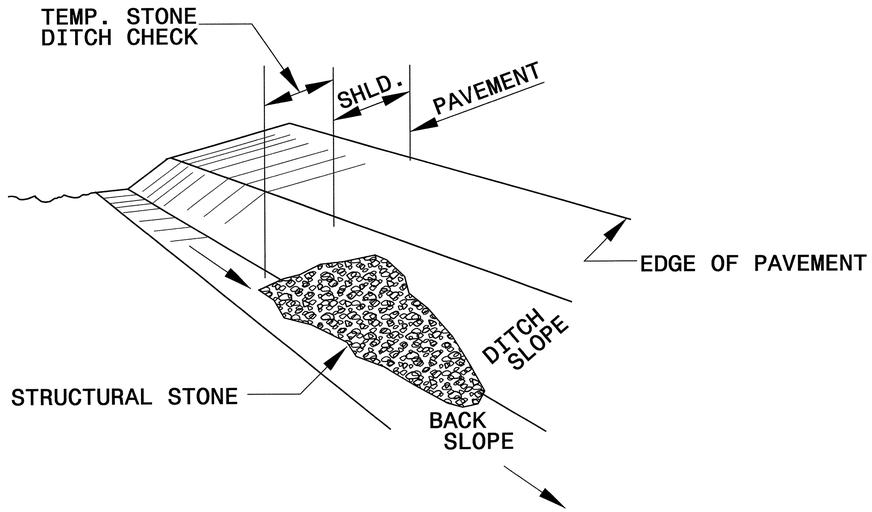
Roadway Standard Drawings

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 revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

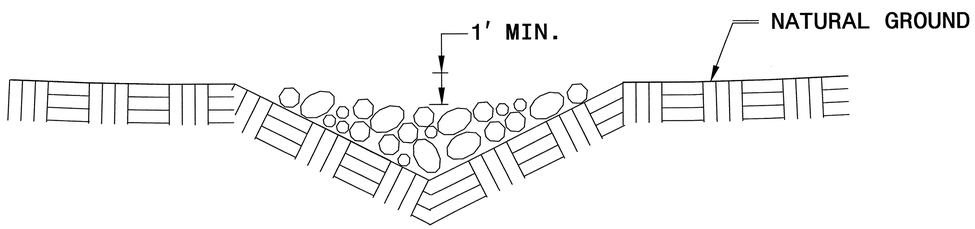
1605.01 Temporary Silt Fence
1607.01 Gravel Construction Entrance
1630.03 Temporary Silt Ditch
1630.05 Temporary Diversion
1632.03 Rock Inlet Sediment Trap Type C
1633.01 Temporary Rock Silt Check Type A
1635.02 Rock Pipe Inlet Sediment Trap Type B

PROJECT REFERENCE NO.	SHEET NO.
B-3818	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

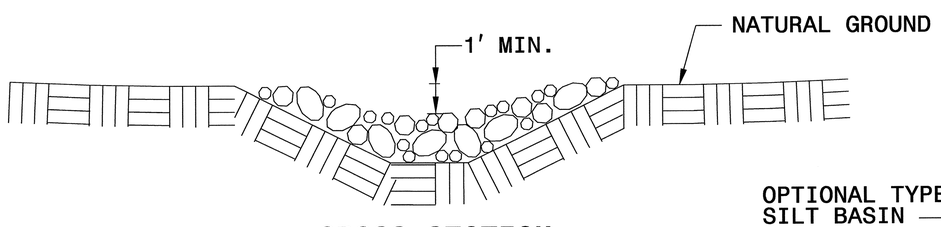
TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH

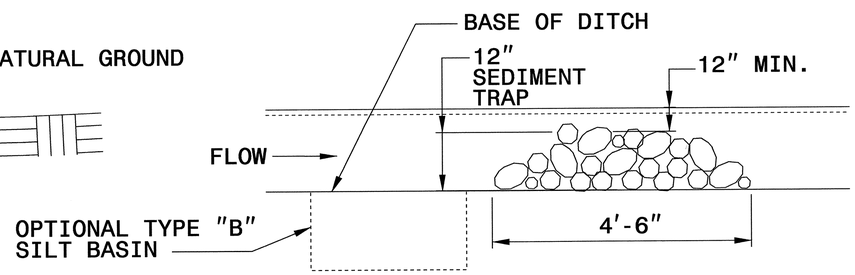


CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

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

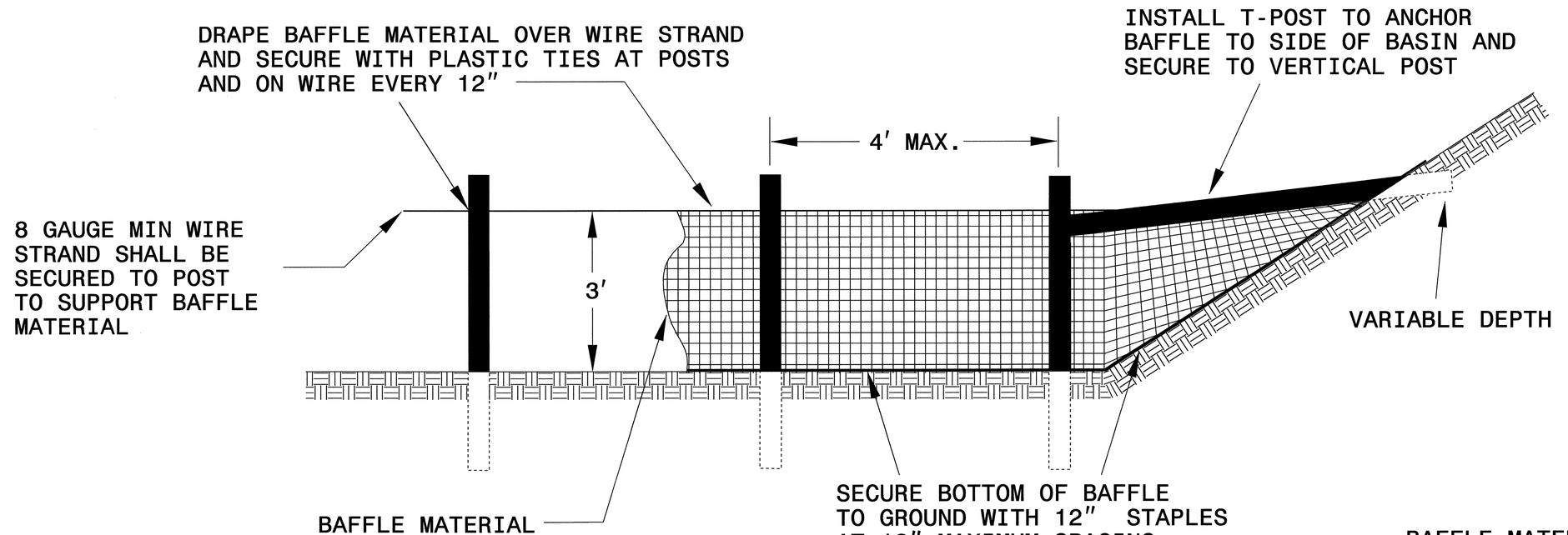
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.

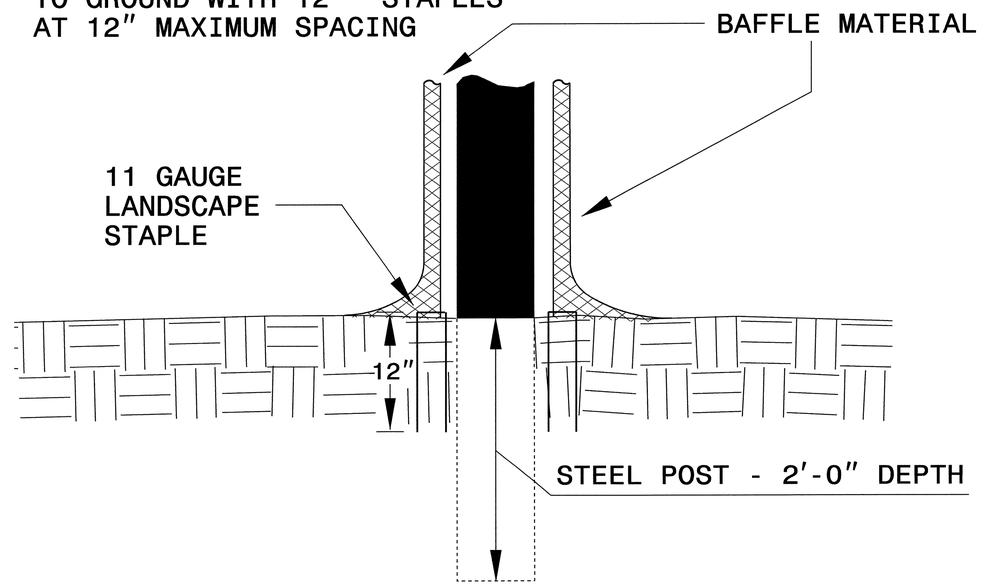


ELEVATION VIEW

PROJECT REFERENCE NO.	SHEET NO.
B-3818	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL



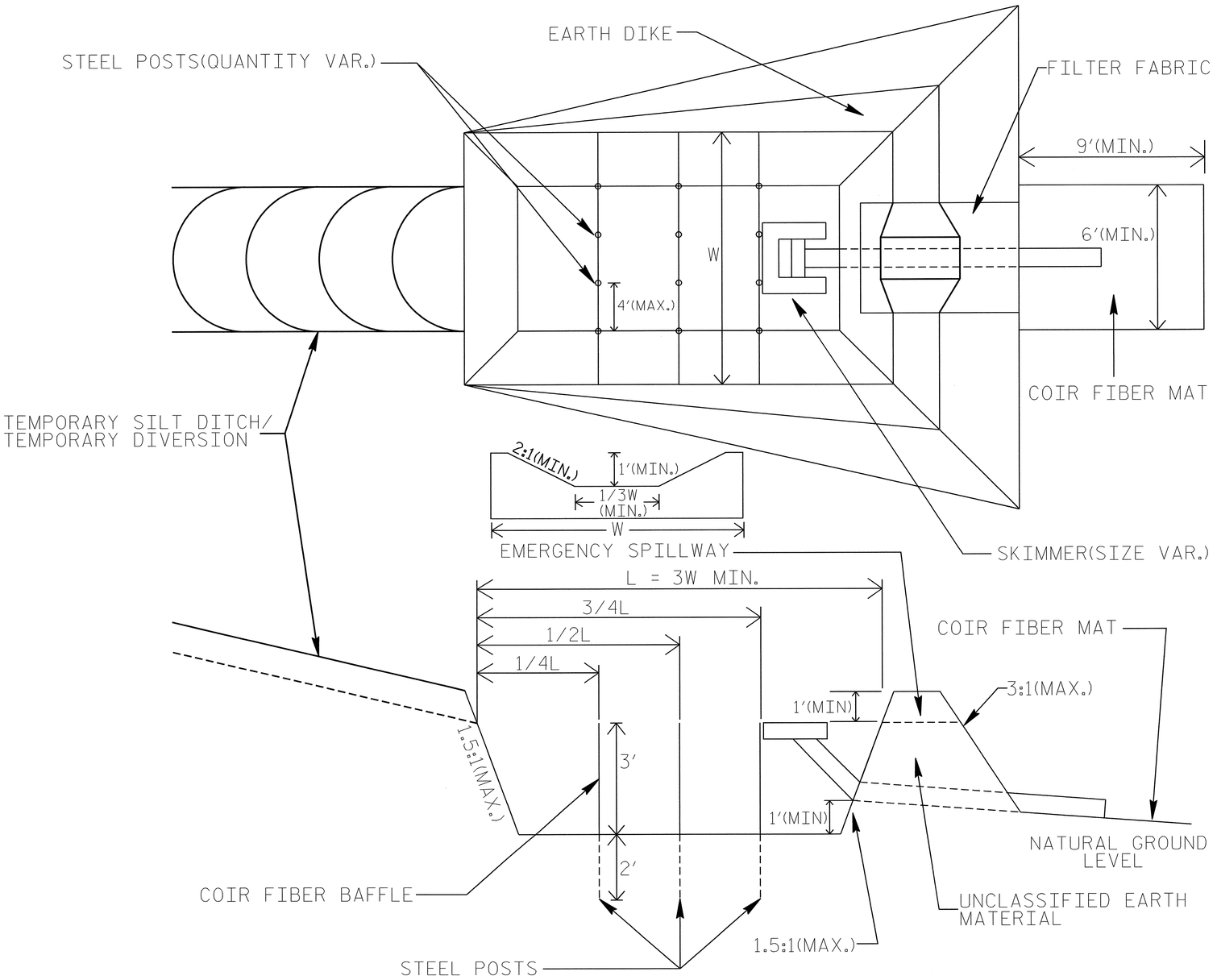


BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12″ LANDSCAPE STAPLES

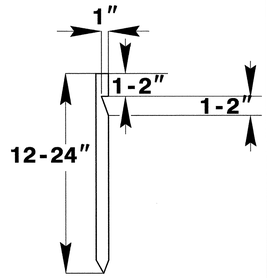
NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF ¼ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF 1/3 THE BASIN LENGTH.

PROJECT REFERENCE NO.	SHEET NO.
B-3818	EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

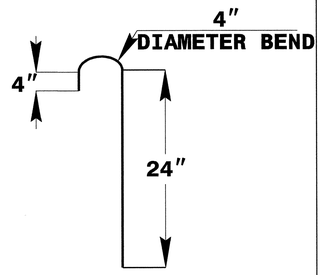
SKIMMER BASIN WITH BAFFLES DETAIL



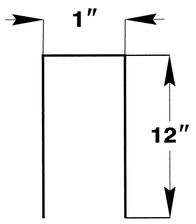
2" x 2" (nominal)
WOODEN STAKE



#10 STEEL
REINFORCEMENT BAR



1" (nominal)
STAPLE



COIR FIBER MAT ANCHOR OPTIONS

PROJECT REFERENCE NO.	SHEET NO.
B-3818	EC-3

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L-	7+50	8+80	LT	185
4	-L-	9+20	12+00	LT	395
4	-L-	11+00	14+00	RT	210
4	-L-	17+50	18+50	LT	140
4	-L-	11+40	11+65	RT	30
4	-L-	10+42	10+70	LT	30
4	-L-	8+80	9+20	LT	70
4	-L-	16+00	16+85	LT	105
			SUBTOTAL		1165
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					715
				TOTAL	1880
				SAY	2000

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)

8/17/99

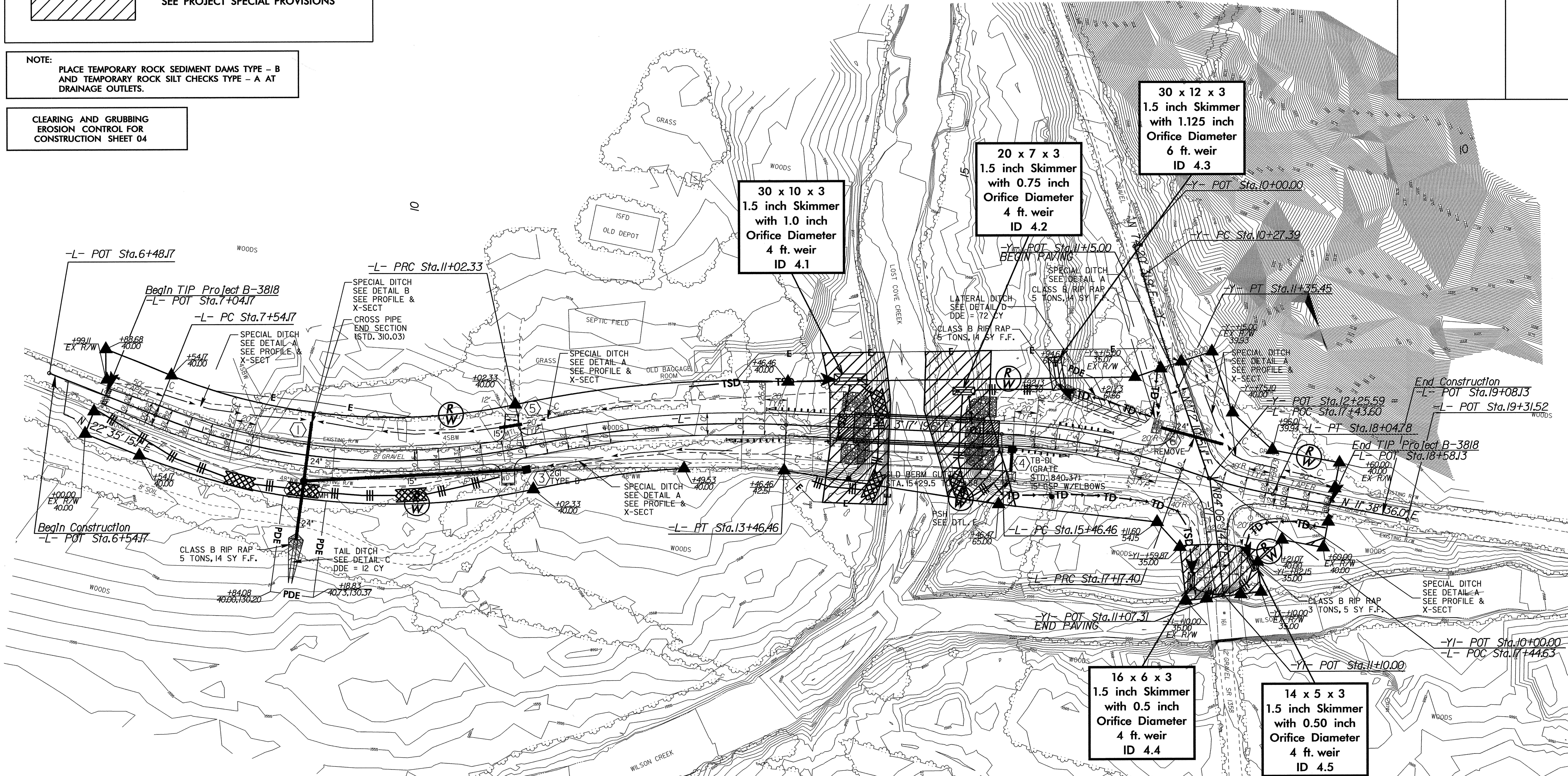
PROJECT REFERENCE NO.	SHEET NO.
B-3818	EC-04/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

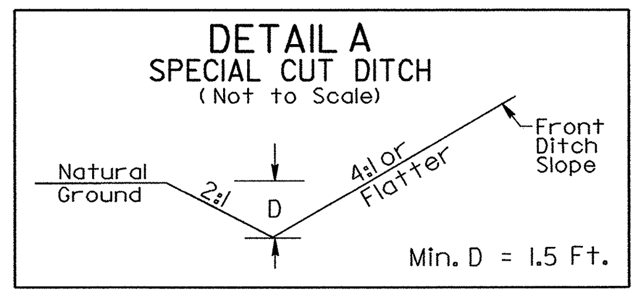
▨ ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

NOTE:
UTILIZE SKIMMER BASIN AS STILLING BASIN WHERE APPLICABLE.

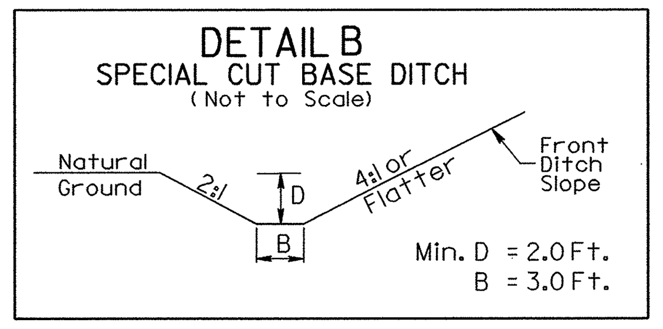
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04

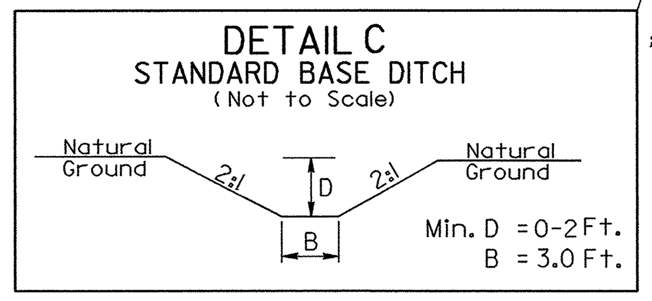




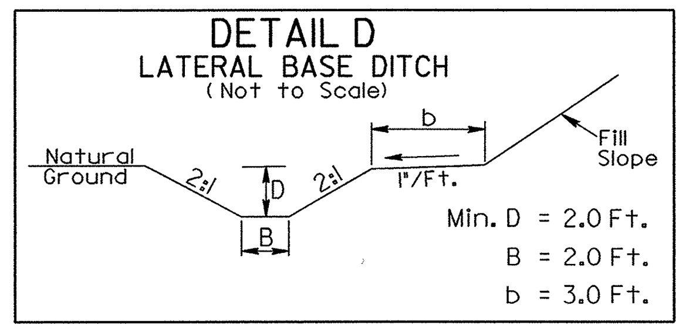
FROM -L- STA. 7+50 TO 8+80 LT
FROM -L STA. 9+20 TO 12+00 LT
FROM -L- STA. 11+00 TO 12+50 RT.
FROM -Y- STA. 11+50 TO 12+00 LT.
FROM -Y- STA. 11+40 TO 11+65 RT.
FROM -L- STA. 17+50 TO 18+50 LT.
FROM -L- STA. 17+85 TO 18+50 RT.
FROM -YI- STA. 10+22 TO 10+50 RT.
FROM -YI- STA. 10+42 TO 10+70 LT.



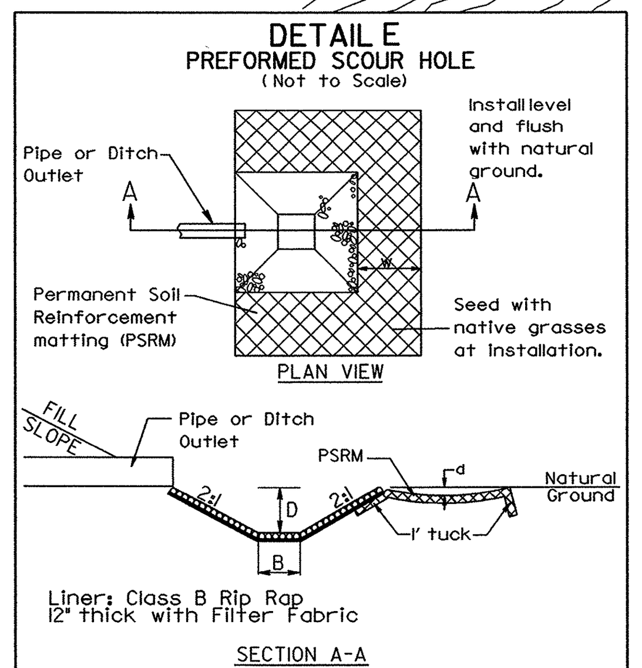
FROM -L- STA. 8+80 TO 9+20 LT



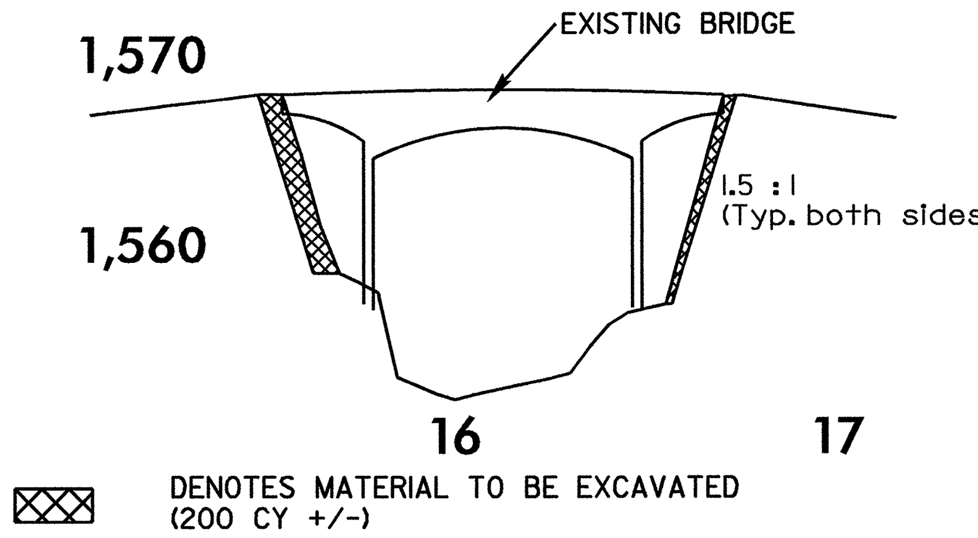
-L- STA. 9+00 RT



FROM -L- STA. 16+00 TO 16+85 LT



STATION	B	D	d	W	STONE	FF
15+60 RT	3.75'	1.25'	0.5'	4.0'	3.5 TONS	8 SY



▩ DENOTES MATERIAL TO BE EXCAVATED (200 CY +/-)

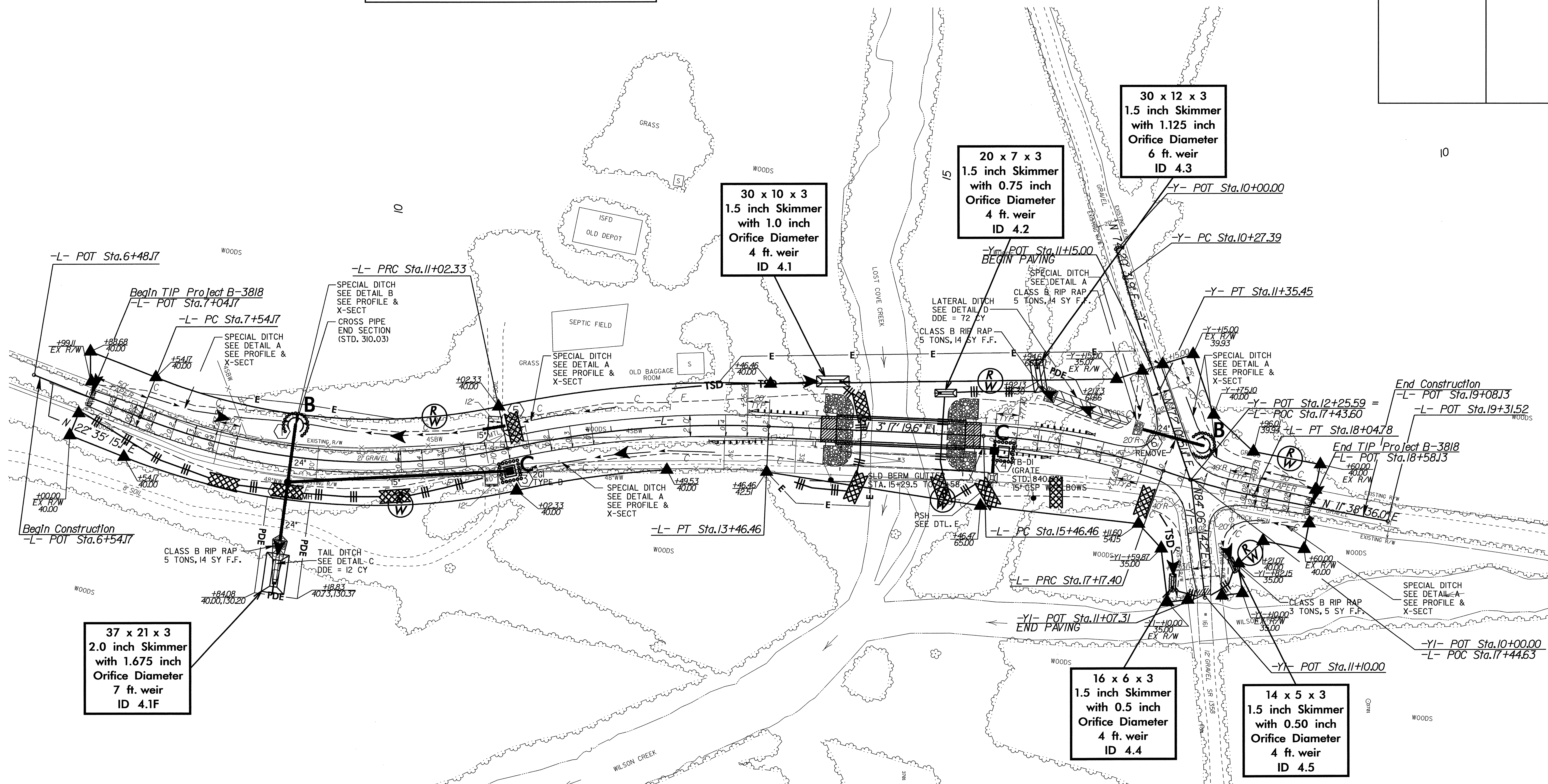
NOTE: GRADING OF EXISTING ROAD MAY BE NECESSARY TO PROPERLY TIE TO PAVEMENT.

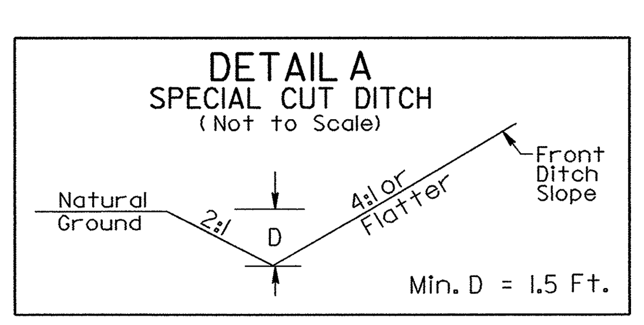
SEE SHEET 5 FOR -L-, -Y-, & -YI- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
B-3818	EC-05/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

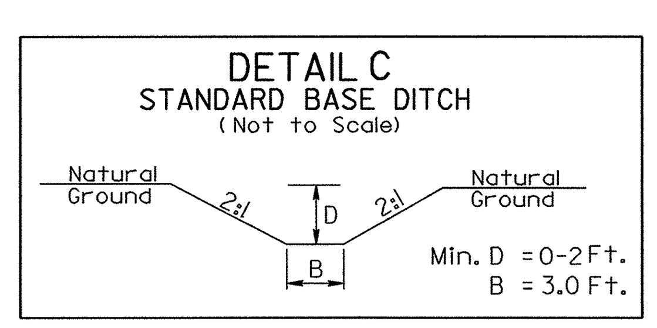
8/17/99

NOTE:
UTILIZE SKIMMER BASIN AS STILLING BASIN WHERE APPLICABLE.

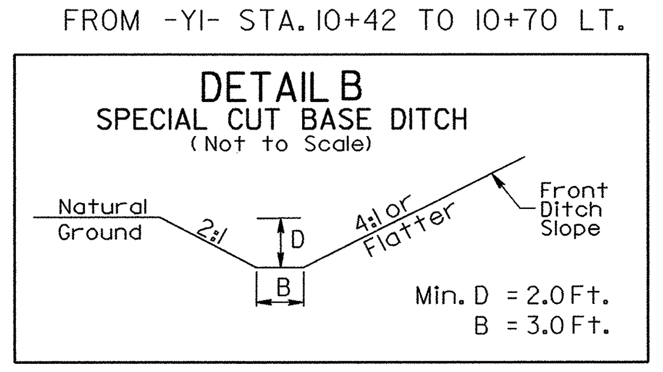




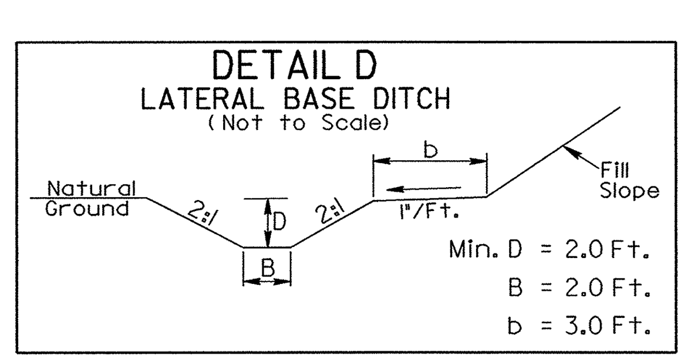
FROM -L- STA. 7+50 TO 8+80 LT
FROM -L STA. 9+20 TO 12+00 LT
FROM -L- STA. 11+00 TO 12+50 RT.
FROM -Y- STA. 11+50 TO 12+00 LT.
FROM -Y- STA. 11+40 TO 11+65 RT.
FROM -L- STA. 17+50 TO 18+50 LT.
FROM -L- STA. 17+85 TO 18+50 RT.
FROM -YI- STA. 10+22 TO 10+50 RT.
FROM -YI- STA. 10+42 TO 10+70 LT.



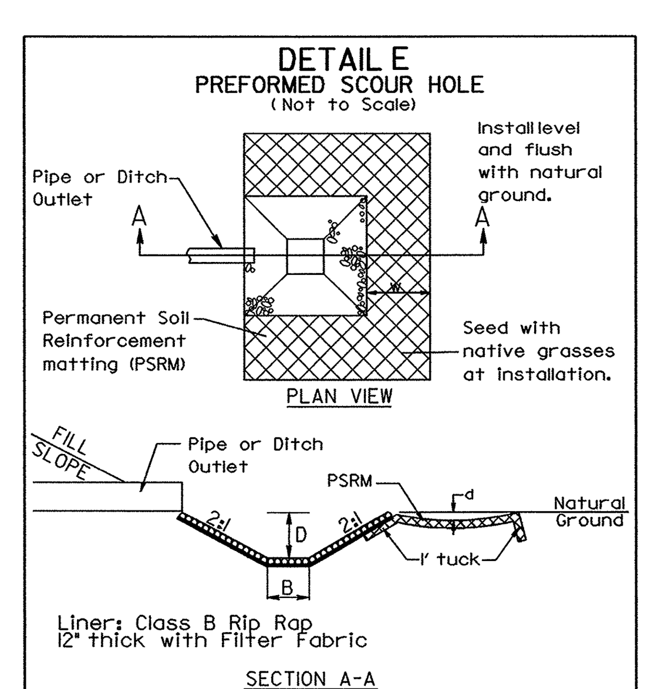
-L- STA. 9+00 RT



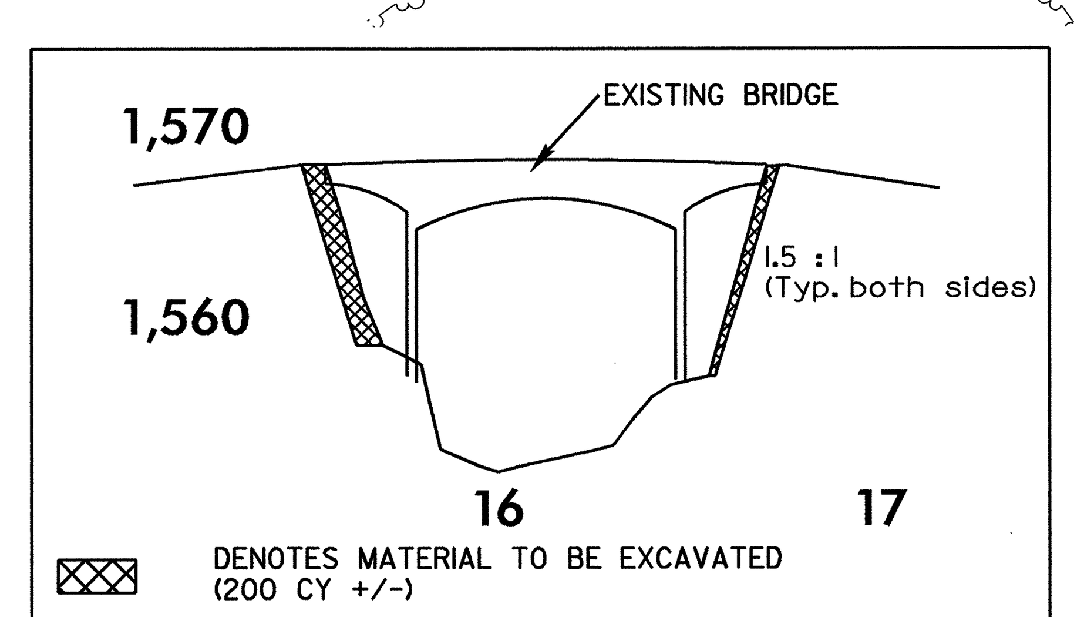
FROM -L- STA. 8+80 TO 9+20 LT



FROM -L- STA. 16+00 TO 16+85 LT



STATION	B	D	d	W	STONE	FF
15+60 RT	3.75'	1.25'	0.5'	4.0'	3.5 TONS	8 SY



NOTE: GRADING OF EXISTING ROAD MAY BE NECESSARY TO PROPERLY TIE TO PAVEMENT.

SEE SHEET 5 FOR -L-, -Y-, & -YI- PROFILE