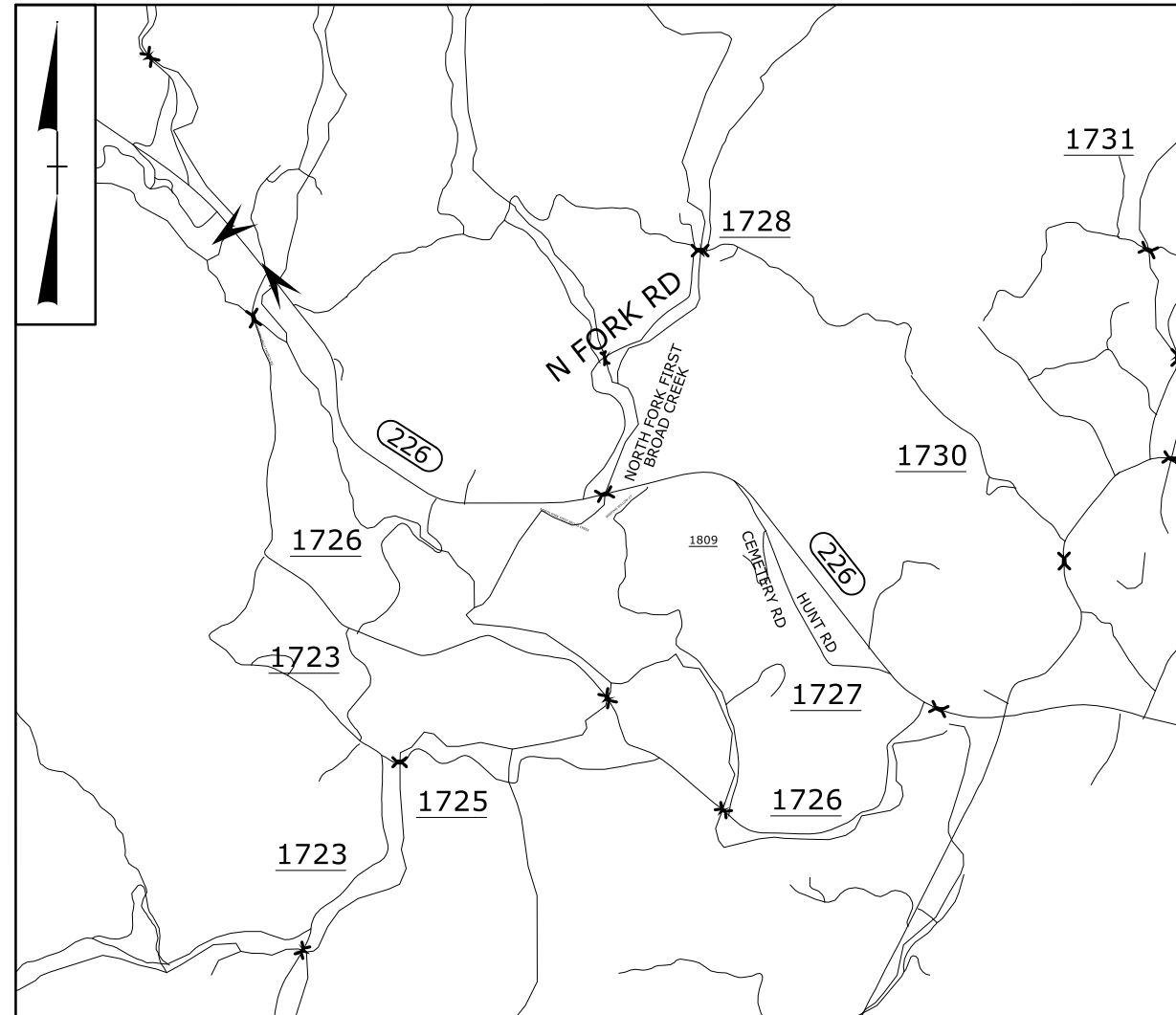


TIP PROJECT: BR-0100

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Plan Sheet Symbols

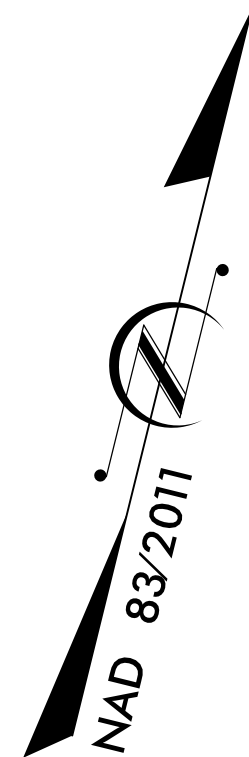


VICINITY MAP
NOT TO SCALE

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

LOCATION: BRIDGE No. 40 ON NC 226 OVER NORTH FORK
FIRST BROAD CREEK

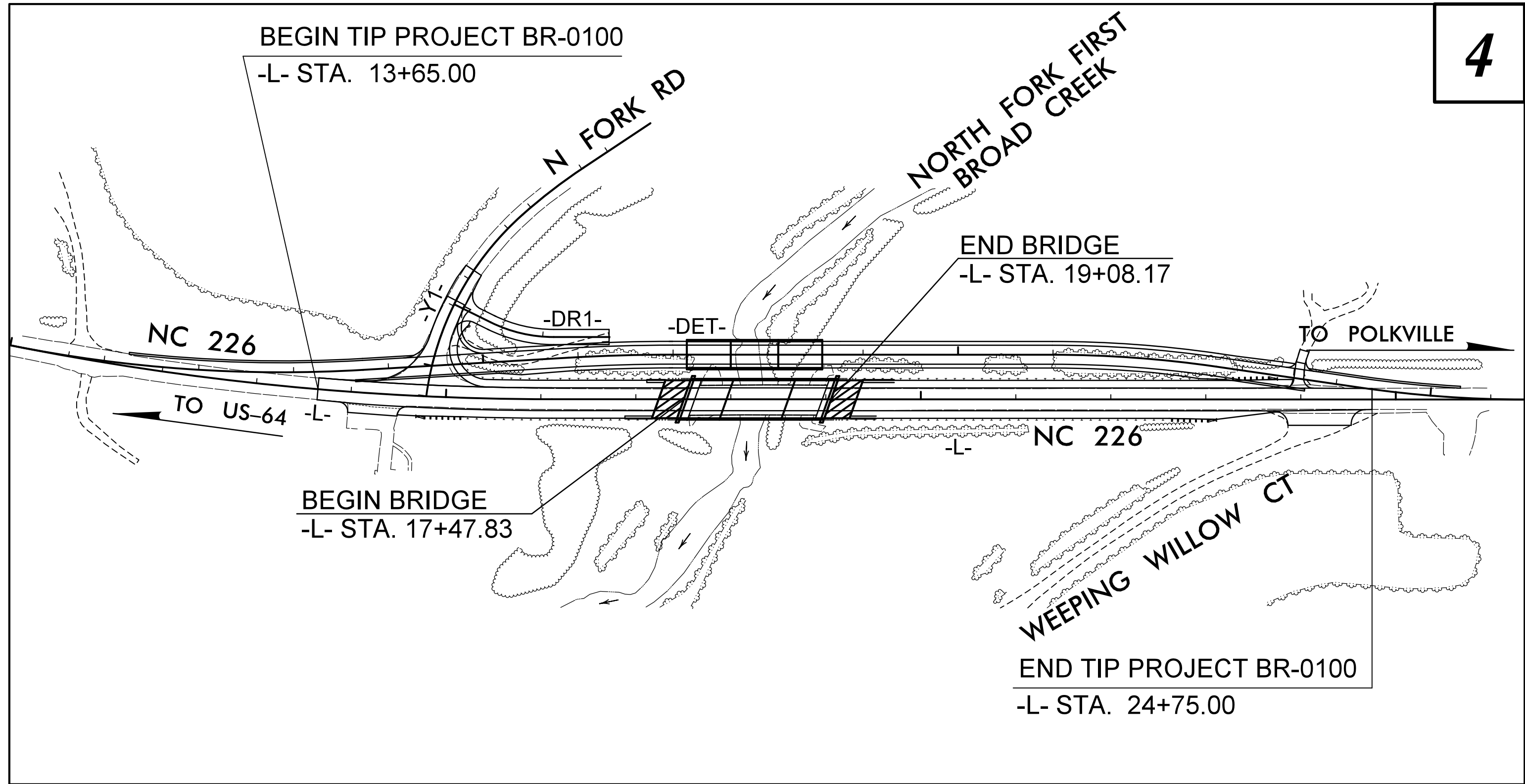
TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0100	EC-1	12
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
67100.1.1	N/A	PE	

HIGH QUALITY WATER(S) EXIST ON THIS PROJECT
High Quality Water Zone(s) Exist From Begin To End
Refer To E. C. Special Provisions for Special Considerations.

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II .



4

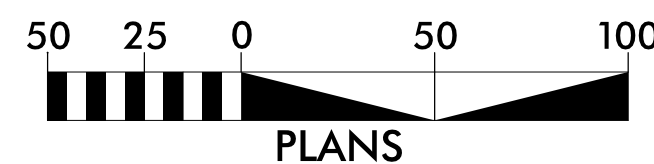
THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT

Refer To E. C. Special Provisions for Special Considerations.

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

GRAPHIC SCALE



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES.



Prepared In the Office of:

WSP

434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601

LICENSE NO. F-0165

Designed by:

Victoria Fyfe

NAME

4319

LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2024 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
BR-0100	EC-02
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

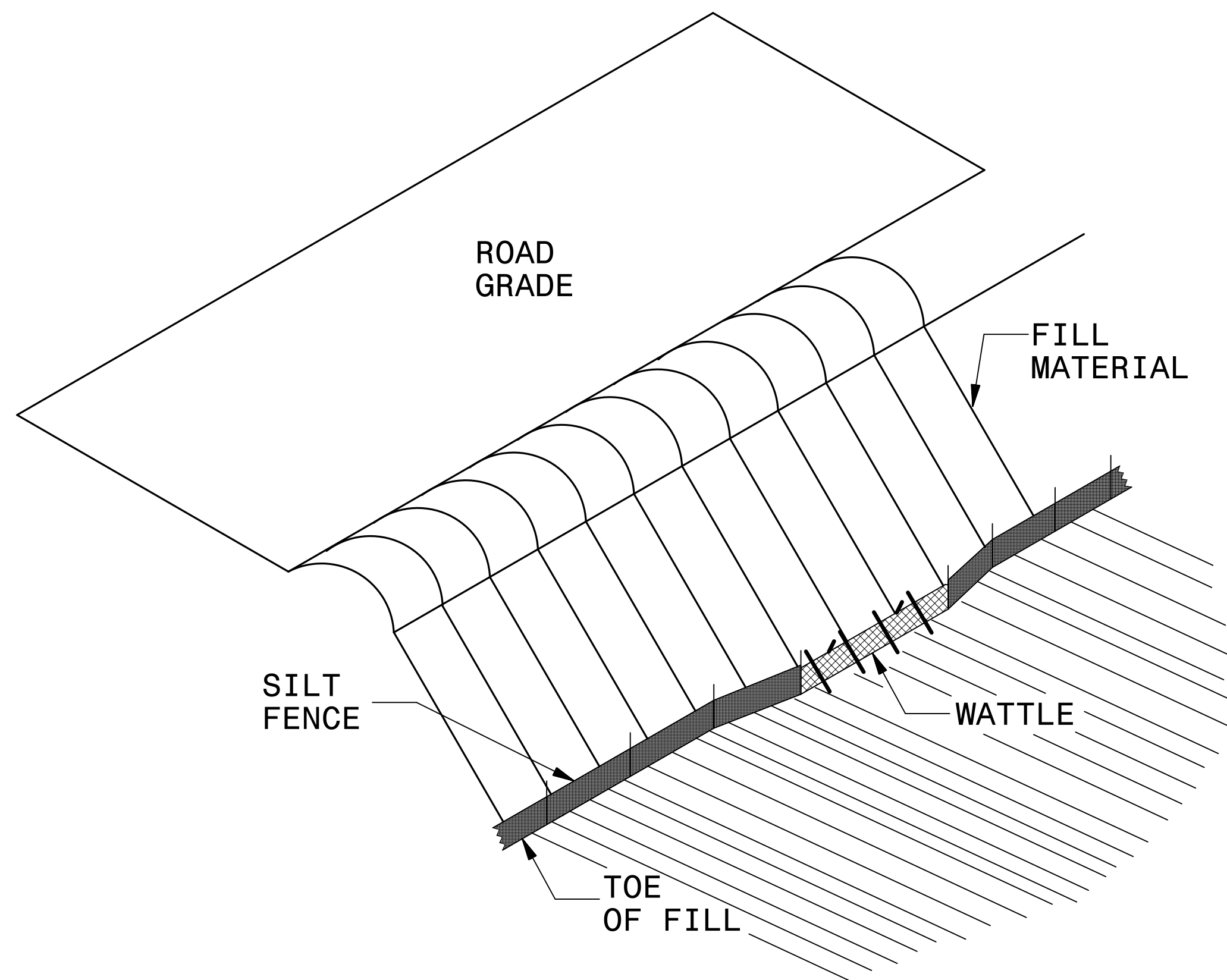
EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	
1630.04	Stilling Basin	
1630.05	Temporary Diversion	
1630.06	Special Stilling Basin	
1630.07	Skimmer Basin	
1630.08	Tiered Skimmer Basin	
1630.09	Earthen Dam with Skimmer	
	Infiltration Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	
1632.02	Type B	
1632.03	Type C	

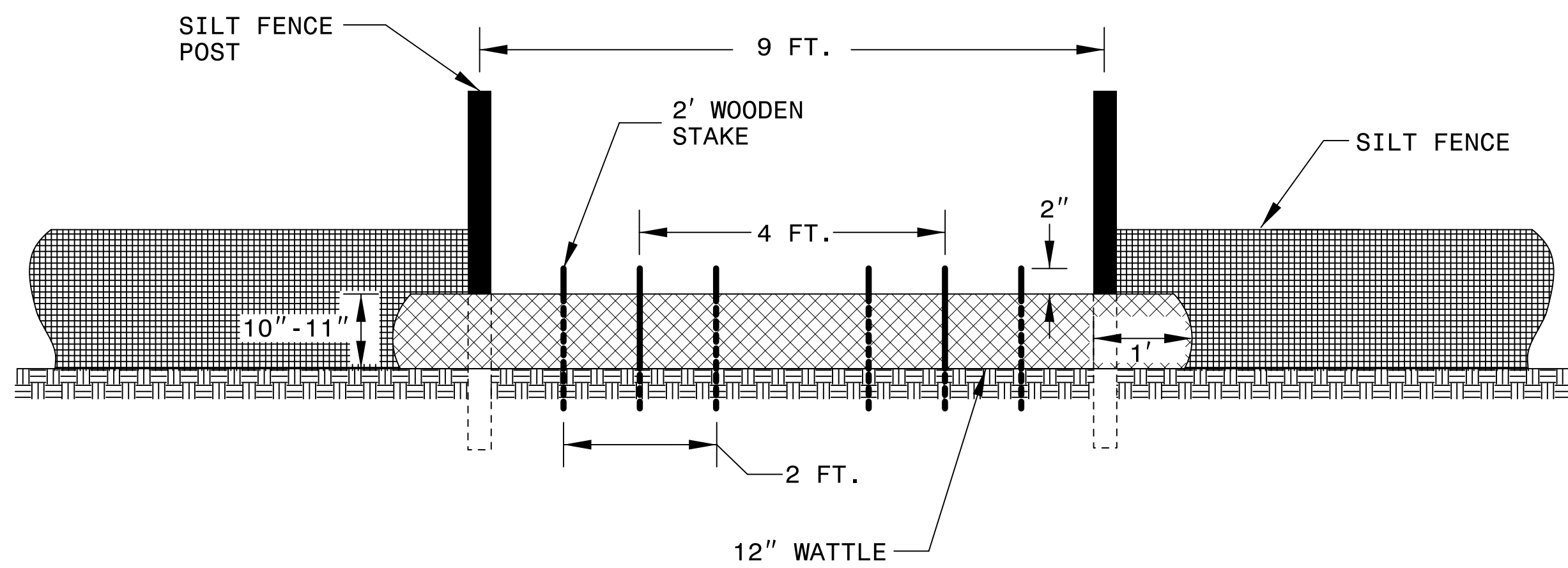
Std. #	Description	Symbol
1633.01	Temporary Rock Silt Check Type A	
1633.02	Temporary Rock Silt Check Type B	
1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1634.01	Temporary Rock Sediment Dam Type A	
1634.02	Temporary Rock Sediment Dam Type B	
1635.01	Rock Pipe Inlet Sediment Trap Type A	
1635.02	Rock Pipe Inlet Sediment Trap Type B	
1636.01	Excelsior Wattle Check	
1636.01	Excelsior Wattle Check with Flocculant	
1636.01	Coir Fiber Wattle Check	
1636.01	Coir Fiber Wattle Check with Flocculant	
1636.02	Silt Fence Excelsior Wattle Break	
	Silt Fence Coir Fiber Wattle Break	
1636.03	Excelsior Wattle Barrier	
1636.03	Coir Fiber Wattle Barrier	

SILT FENCE COIR FIBER WATTLE BREAK DETAIL

PROJECT REFERENCE NO.		SHEET NO.	
BR-0100		EC-2A	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



ISOMETRIC VIEW

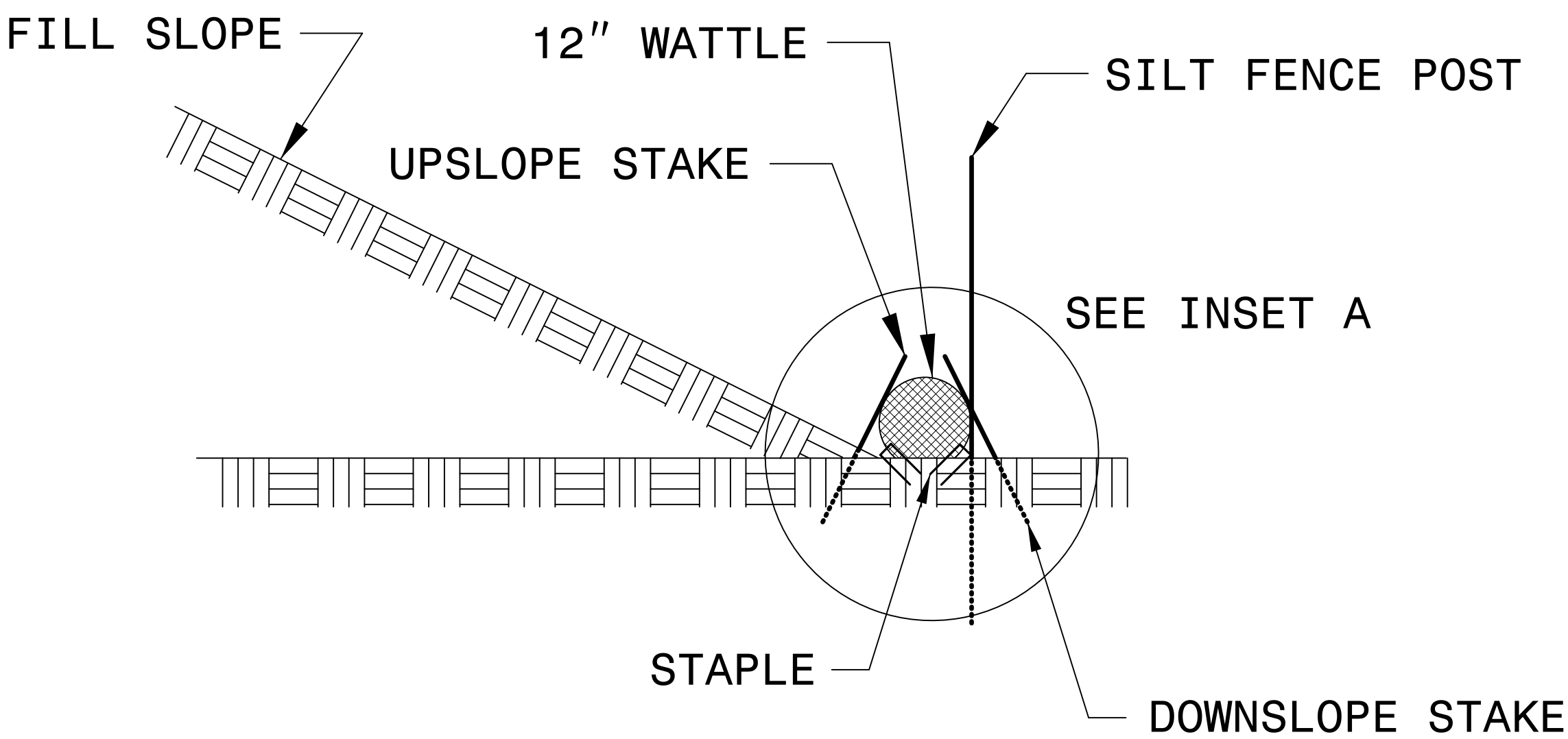
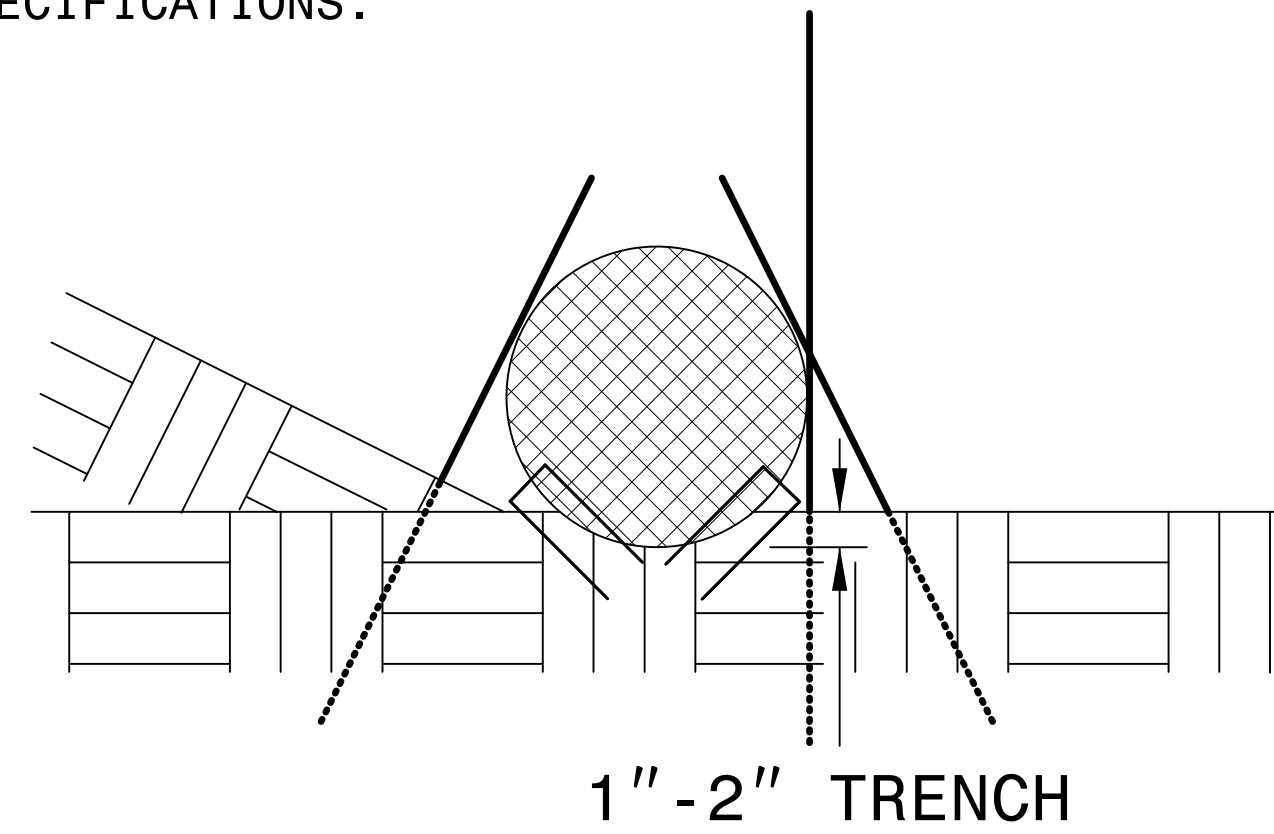


VIEW FROM SLOPE

NOTES:

- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.
- EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.
- DO NOT PLACE WATTLE ON TOE OF SLOPE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.
- 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.
- WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.
- INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

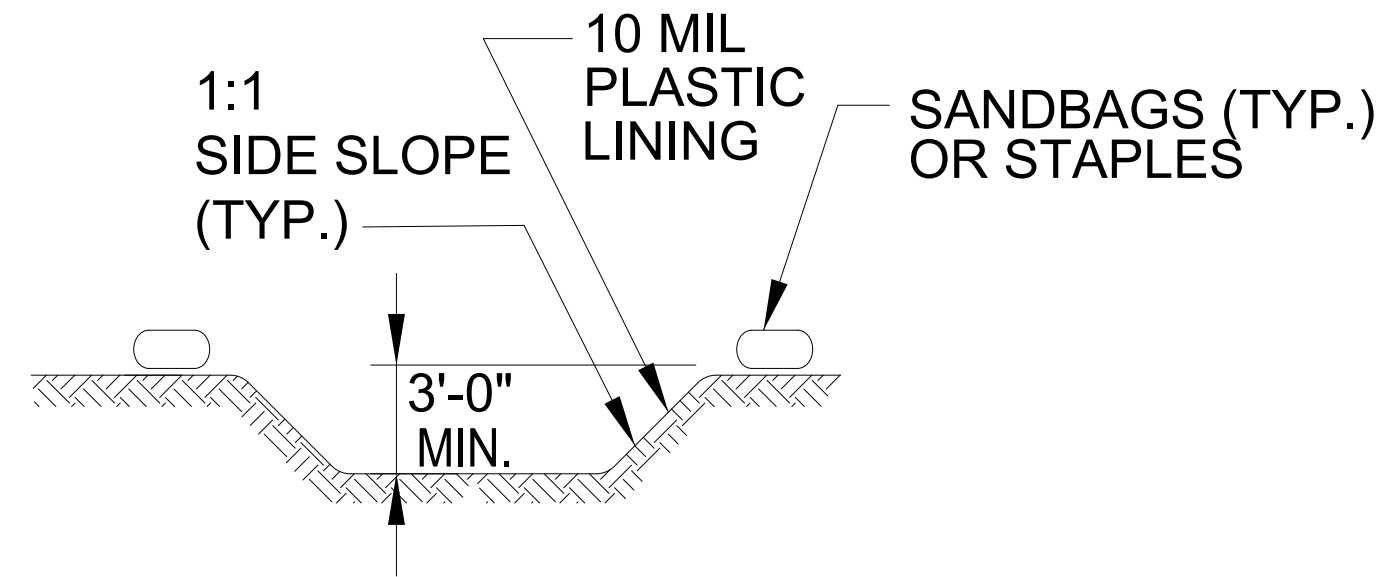
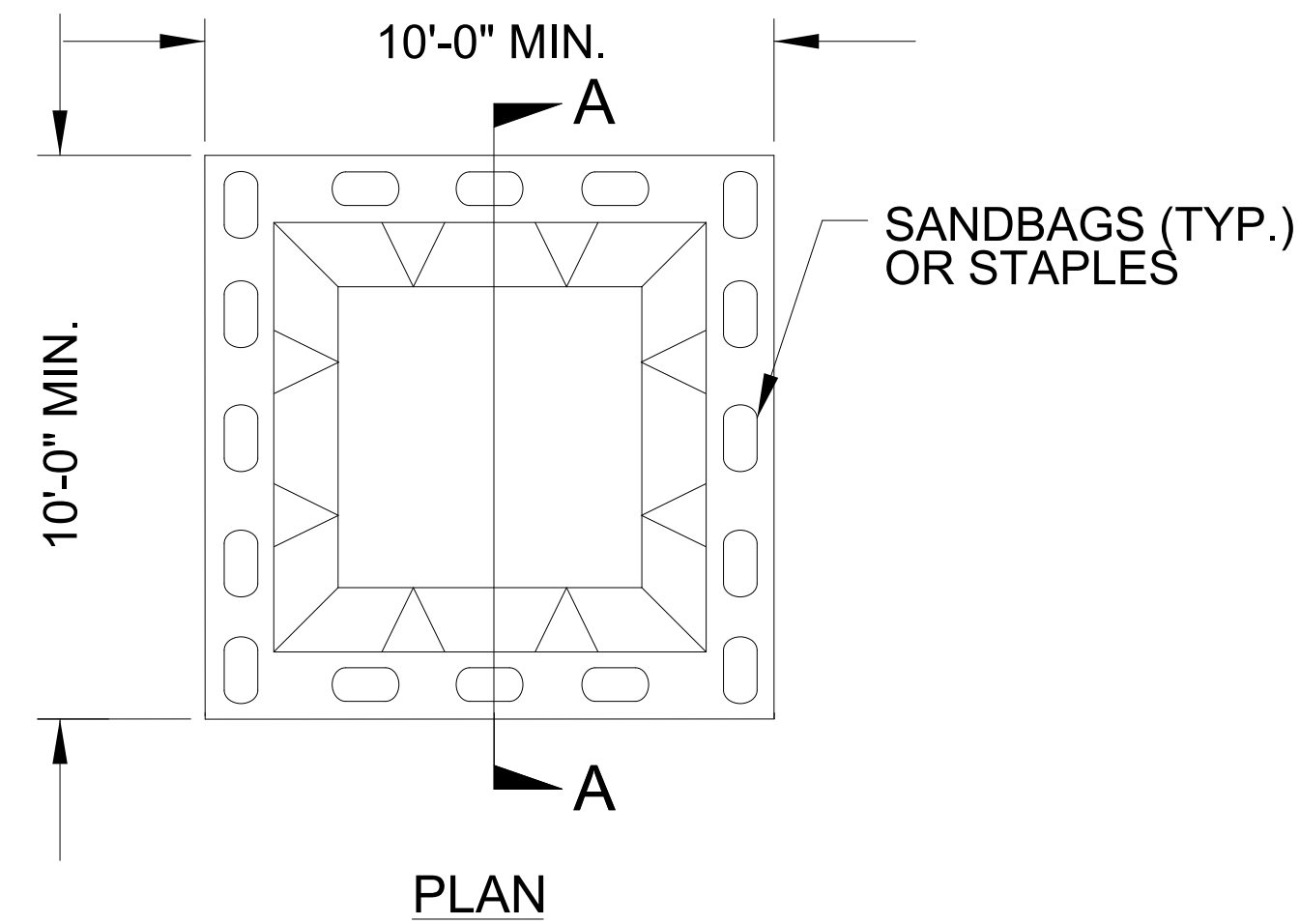
INSET A



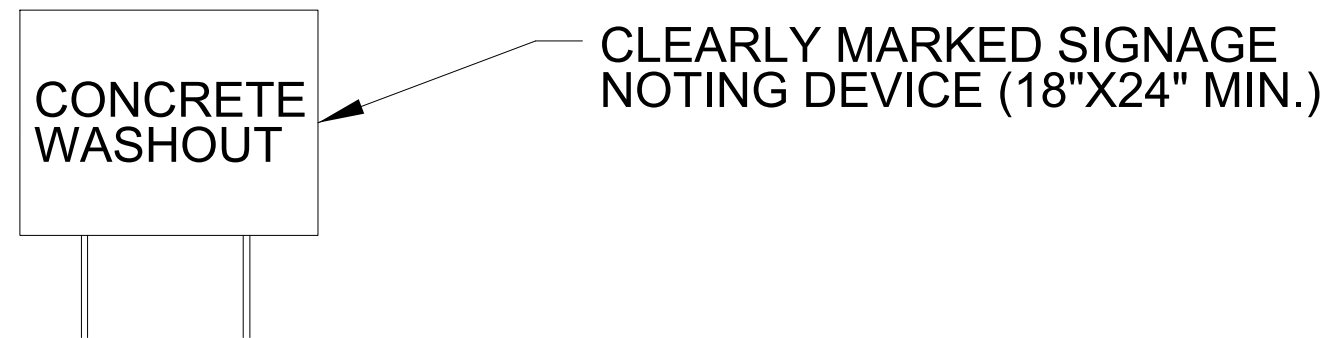
SIDE VIEW

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER

PROJECT REFERENCE NO.	SHEET NO.
BR-0100	EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

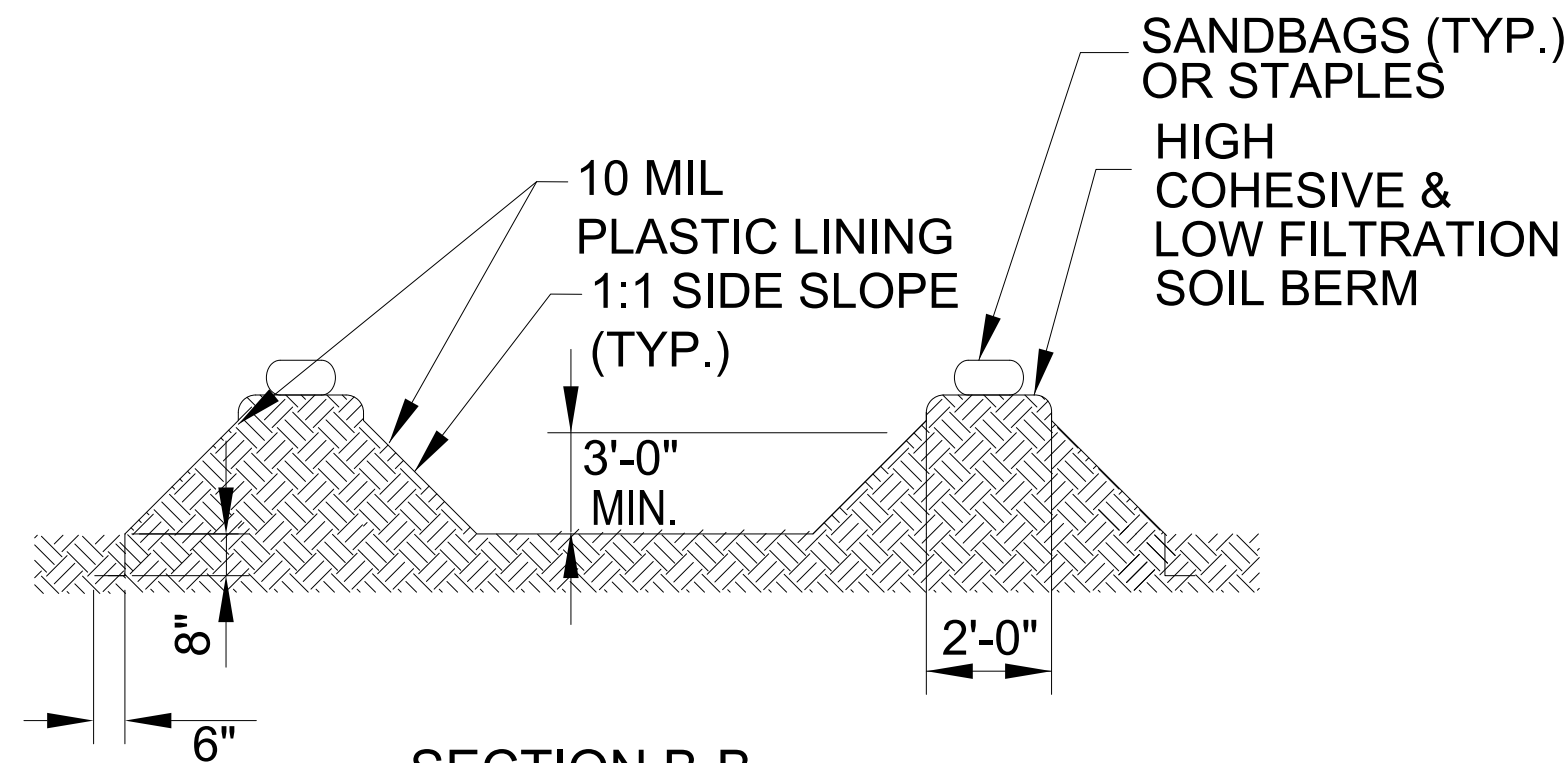
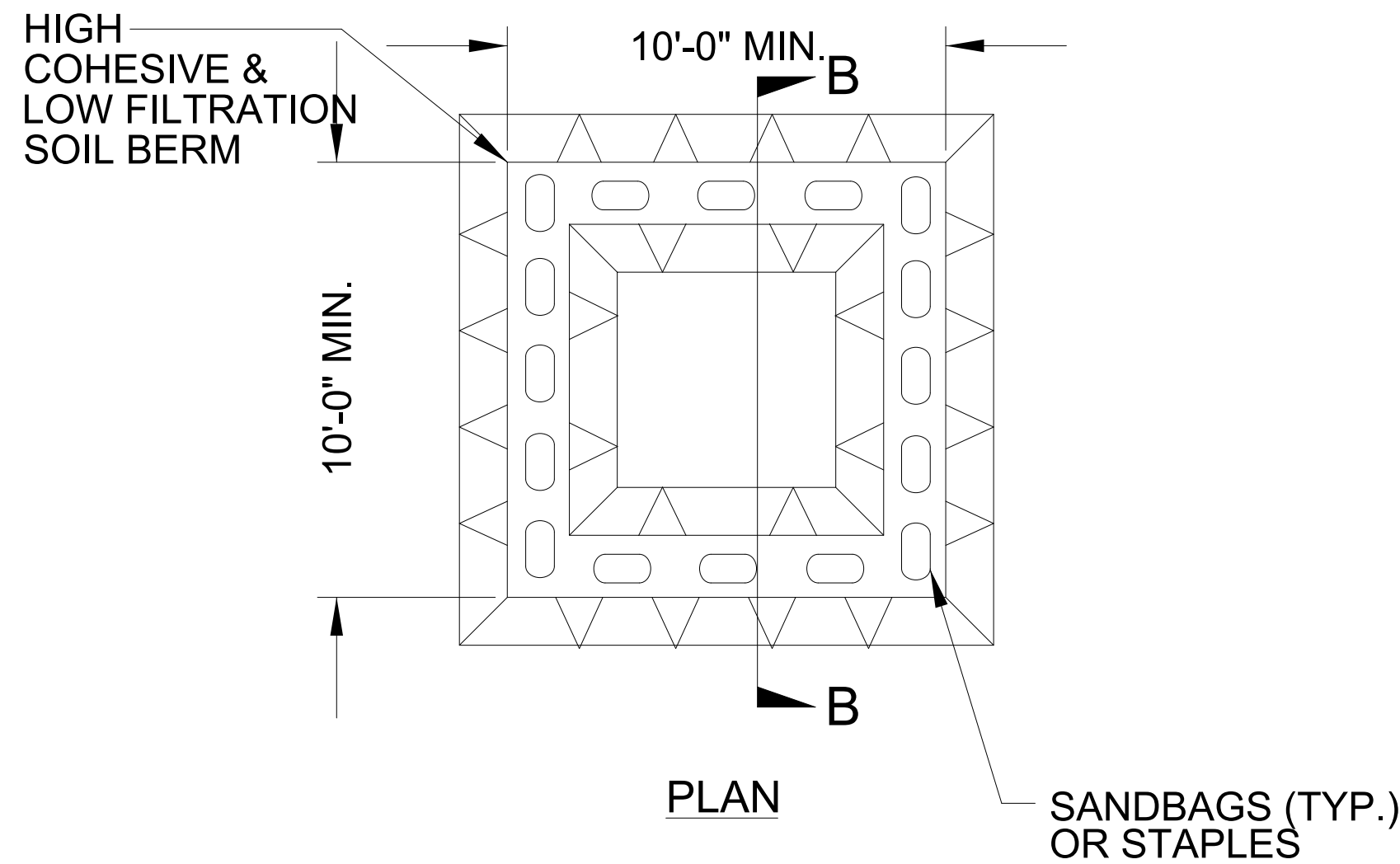


SECTION A-A

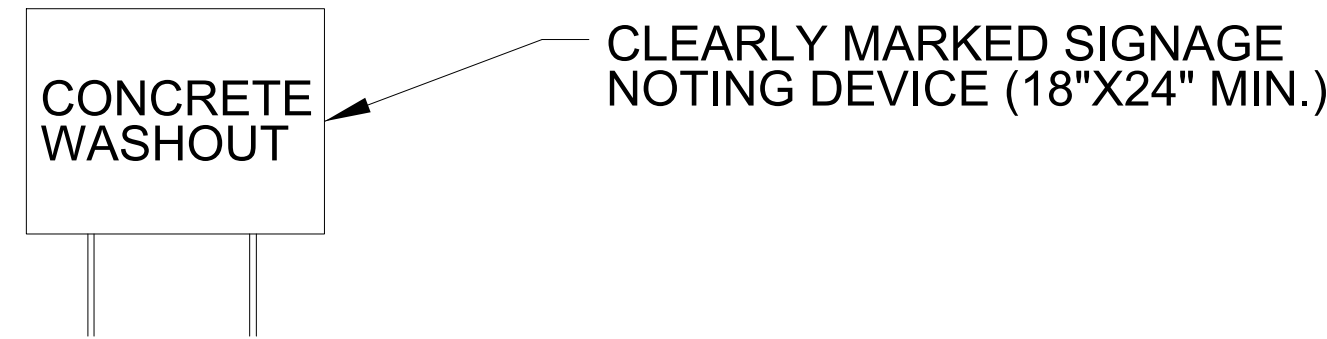


BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



SECTION B-B



ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
BR-0100	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL (DITCHES)- STRAW

MATTING FOR EROSION CONTROL (SLOPES)–STRAW

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	L	16+50	17+95	LT	135
4	L	14+75	15+89	RT	60
4	DET	12+75	14+25	LT	155
4	DET	15+25	17+60	LT	370
4	DET	18+15	22+00	LT	710
4	DET	18+75	21+25	LT	140
4	L PHASING	15+50	17+00	MED	85
4	L PHASING	17+00	17+50	MED	30
4	L PHASING	19+25	21+75	MED	140
4	L PHASING	13+75	14+60	LT	90
4	L PHASING	15+60	17+00	LT	225
4	L PHASING	18+89	22+95	LT	55
			SUBTOTAL		2175
					SUBTOTAL
			MISCELLANEOUS MATTING		
					TOTAL
					SAY

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	L	16+75	17+75	LT	356
4	L	19+05	22+50	LT	1303
4	L	16+50	17+50	RT	422
4	L	19+15	22+00	RT	1045
4	DET	15+20	17+41	RT	762
4	DET	18+29	22+45	LT	1369
			SUBTOTAL		5257
7432					
11216					
18648					
18650					

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 TO 4:1	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH WITH SLOPES STEEPER THAN 4:1. 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES

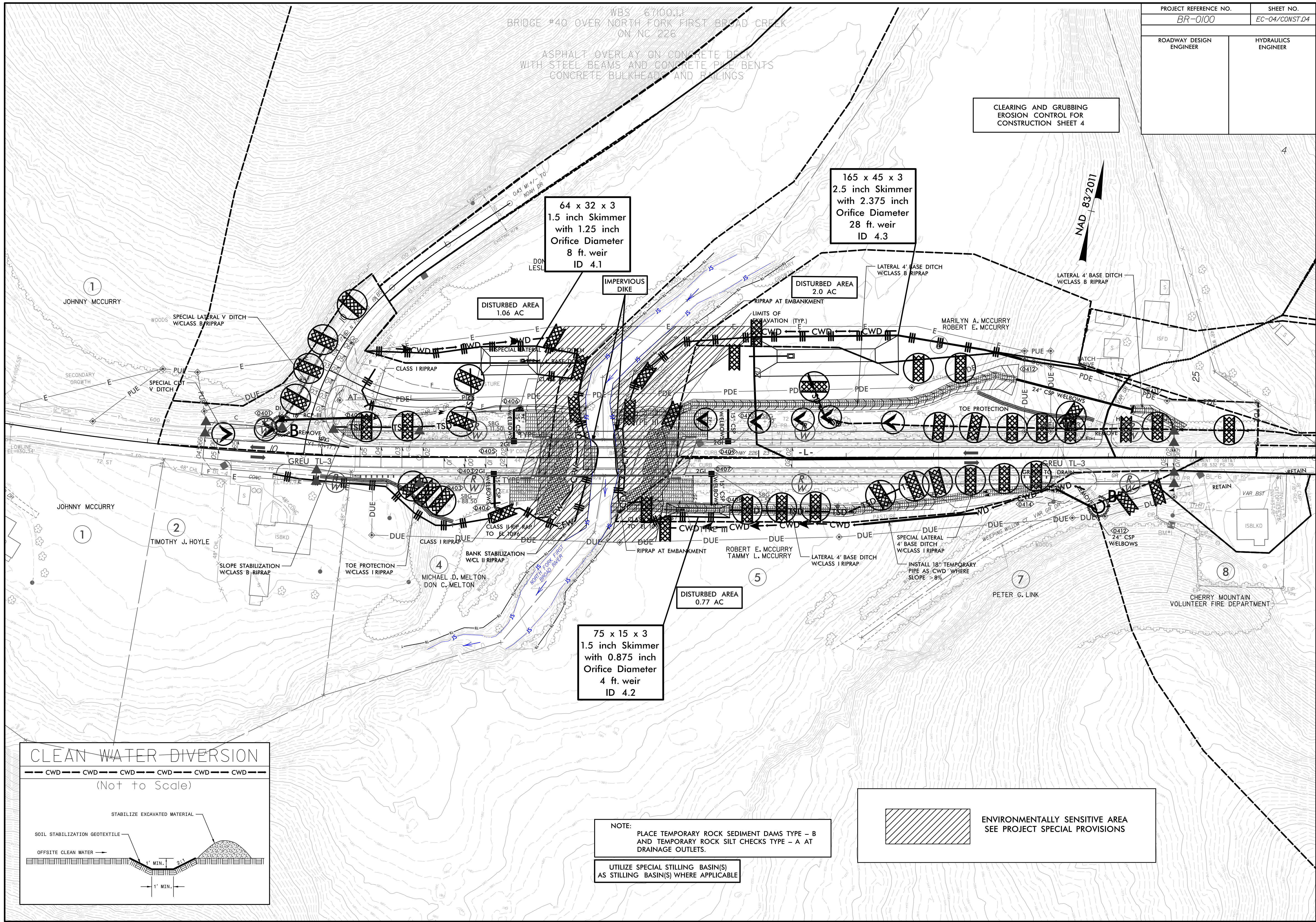
WBS 67100.11
BRIDGE #40 OVER NORTH FORK FIRST BROAD CREEK
ON NC 228

ASPHALT OVERLAY ON CONCRETE DECK
WITH STEEL BEAMS AND CONCRETE PILE BENTS
CONCRETE BULKHEADS AND RAILINGS

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

PROJECT REFERENCE NO.	SHEET NO.
BR-0100	EC-04/CONST.04
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

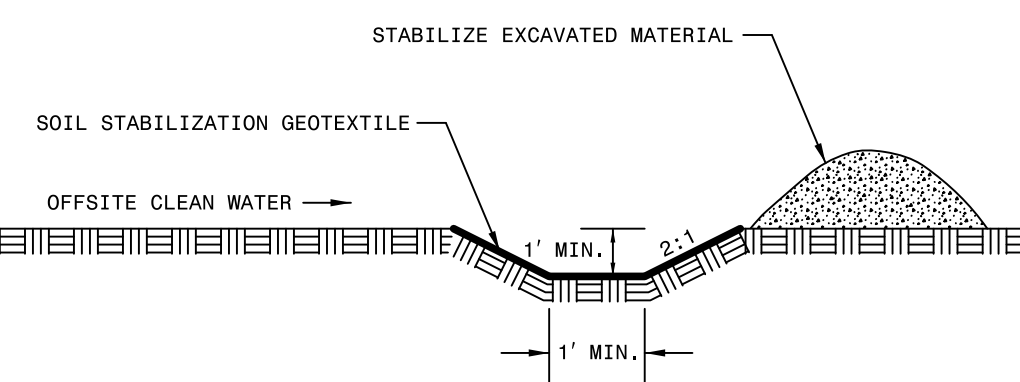
4



CLEAN WATER DIVERSION

--- CWD --- CWD --- CWD --- CWD --- CWD --- CWD ---

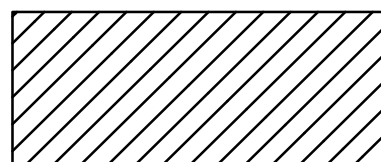
(Not to Scale)



NOTE:

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

UTILIZE SPECIAL STILLING BASIN(S)
AS STILLING BASIN(S) WHERE APPLICABLE



ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

PROJECT REFERENCE NO.	SHEET NO.
<i>BR-0100</i>	<i>EC-05/CONST.2B-1</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

The map illustrates a proposed road project with the following key elements:

- Bridges:** A bridge spanning a waterway, labeled "BEGIN BRIDGE -DET- STA. 10+73.40" and "END BRIDGE -DET- Sta. 18+57.01".
- Ditches and Culverts:** Several ditches are shown, including "SPECIAL LATERAL V DITCH W/CLASS B RIPRAP", "LATERAL 4' BASE DITCH", "MEDIAN V DITCH", and "SLOPE STABILIZATION W/CLASS B RIPRAP". Culverts are indicated by circular symbols.
- Culvert Details:** Three specific culvert details are provided:
 - 64 x 32 x 3 1.5 inch Skimmer with 1.25 inch Orifice Diameter 8 ft. weir ID 4.1
 - 165 x 45 x 3 2.5 inch Skimmer with 2.375 inch Orifice Diameter 28 ft. weir ID 4.3
 - 75 x 15 x 3 1.5 inch Skimmer with 0.875 inch Orifice Diameter 4 ft. weir ID 4.2
- Disturbed Areas:** Two areas are identified as "DISTURBED AREA 2.0 AC" and "DISTURBED AREA 0.77 AC".
- Property Boundaries and Owners:** The map shows several properties with owner names: JOHNNY MCCURRY, TIMOTHY J. HOYLE, MICHAEL D. MELTON, DON C. MELTON, ROBERT E. MCCURRY, TAMMY L. MCCURRY, PETER G. LINK, and CHERRY MOUNTAIN VOLUNTEER FIRE DEPARTMENT.
- Other Features:** The map includes labels for "END CONSTRUCTION", "BEGIN GRADE", "END GRADE", "TEMP GREU TL-2", "TEMP TYPE III", "TEMP AT-I", "TEMP 2GT", "TEMP 3GT", "TEMP 4GT", "TEMP 5GT", "TEMP 6GT", "TEMP 7GT", "TEMP 8GT", "TEMP 9GT", "TEMP 10GT", "TEMP 11GT", "TEMP 12GT", "TEMP 13GT", "TEMP 14GT", "TEMP 15GT", "TEMP 16GT", "TEMP 17GT", "TEMP 18GT", "TEMP 19GT", "TEMP 20GT", "TEMP 21GT", "TEMP 22GT", "TEMP 23GT", "TEMP 24GT", "TEMP 25GT", "TEMP 26GT", "TEMP 27GT", "TEMP 28GT", "TEMP 29GT", "TEMP 30GT", "TEMP 31GT", "TEMP 32GT", "TEMP 33GT", "TEMP 34GT", "TEMP 35GT", "TEMP 36GT", "TEMP 37GT", "TEMP 38GT", "TEMP 39GT", "TEMP 40GT", "TEMP 41GT", "TEMP 42GT", "TEMP 43GT", "TEMP 44GT", "TEMP 45GT", "TEMP 46GT", "TEMP 47GT", "TEMP 48GT", "TEMP 49GT", "TEMP 50GT", "TEMP 51GT", "TEMP 52GT", "TEMP 53GT", "TEMP 54GT", "TEMP 55GT", "TEMP 56GT", "TEMP 57GT", "TEMP 58GT", "TEMP 59GT", "TEMP 60GT", "TEMP 61GT", "TEMP 62GT", "TEMP 63GT", "TEMP 64GT", "TEMP 65GT", "TEMP 66GT", "TEMP 67GT", "TEMP 68GT", "TEMP 69GT", "TEMP 70GT", "TEMP 71GT", "TEMP 72GT", "TEMP 73GT", "TEMP 74GT", "TEMP 75GT", "TEMP 76GT", "TEMP 77GT", "TEMP 78GT", "TEMP 79GT", "TEMP 80GT", "TEMP 81GT", "TEMP 82GT", "TEMP 83GT", "TEMP 84GT", "TEMP 85GT", "TEMP 86GT", "TEMP 87GT", "TEMP 88GT", "TEMP 89GT", "TEMP 90GT", "TEMP 91GT", "TEMP 92GT", "TEMP 93GT", "TEMP 94GT", "TEMP 95GT", "TEMP 96GT", "TEMP 97GT", "TEMP 98GT", "TEMP 99GT", "TEMP 100GT".

CLEAN WATER DIVERSION

— CWD — CWD — CWD — CWD — CWD — CWD — CWD —

(Not to Scale)

SOIL STABILIZATION GEOTEXTILE

OFFSITE CLEAN WATER →

STABILIZE EXCAVATED MATERIAL

1' MIN.

2:1

1' MIN.

165 x 45 x 3
2.5 inch Skimmer
with 2.375 inch
Orifice Diameter
28 ft. weir
ID 4.3

64 x 32 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
8 ft. weir
ID 4.1

IMPERVIOUS
DIKE

~~LATERAL 4' BASE DITCH
W/CLASS B RIPRAP~~

NAD 83/2017

JOHNNY MCCURRY

1

WOODS SPECIAL LATERAL V D
W/CLASS B/RIPRAP

2
TIMOTHY J. HOYLE

SLOPE STABILIZATION
W/CLASS B RIPRAP

TOE PROTECTION
W/CLASS I RIPRAP

4
MICHAEL D. MEYER

5

7

8
EIP® PIPE
CHERRY MOUNTAIN
VOLUNTEER FIRE DEPARTMENT

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. -DET- 15+20 to 17+41 LT

75 x 15 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
4 ft. weir
ID 4.2

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. -DET- 18+29 to Sta. 22+45 LT

Place Coir Fiber Matting for
Erosion Control on bench as Work Allows.
Sta. 17+44 to Sta. 17+85 -L-
Sta. 18+45 to Sta. 18+90 -L-

**INSTALL STRAW MATTING FOR
EROSION CONTROL IN THE
PROPOSED DITCH LINE.**

From -DET- Sta. 18+15 to Sta. 22+00 LT

From -DET- Sta. 18+75 to Sta. 21+25 MED

From -L PHASING- Sta. 15+50 to Sta. 17+00 MED

From -L PHASING- Sta. 17+00 to Sta. 17+50 MED

From -L PHASING- Sta. 19+25 to Sta. 21+75 MED

From -L PHASING- Sta. 13+75 to Sta. 14+60 LT

From -L PHASING- Sta. 15+60 to Sta. 17+00 LT

From -L PHASING- Sta. 18+89 to Sta. 22+95 LT

