

TIP PROJECT: B-4197

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

McDOWELL COUNTY

LOCATION: BRIDGE NO. 73 OVER DALES CREEK ON SR 1552 (LAKE JAMES RD.)

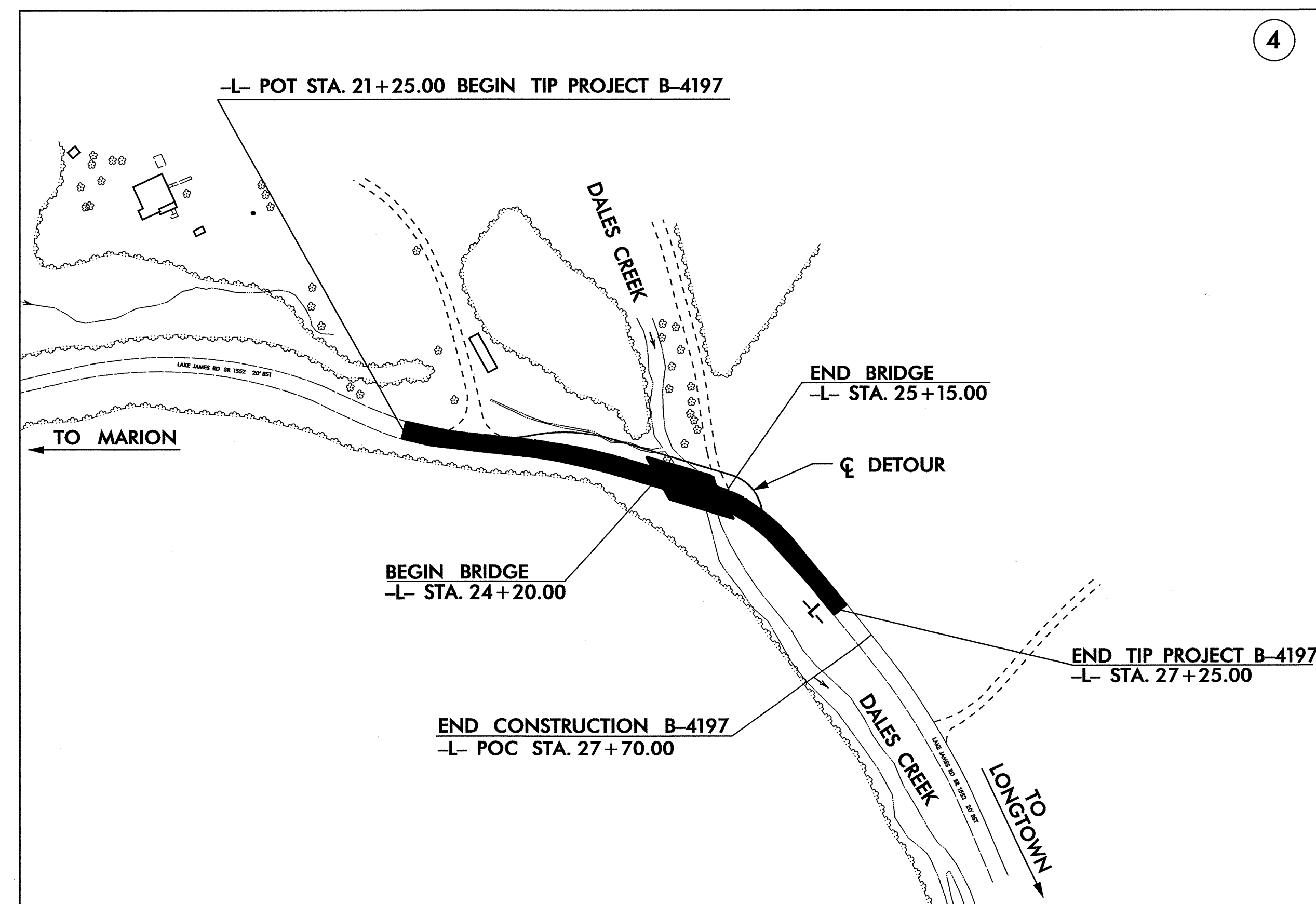
TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4197	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

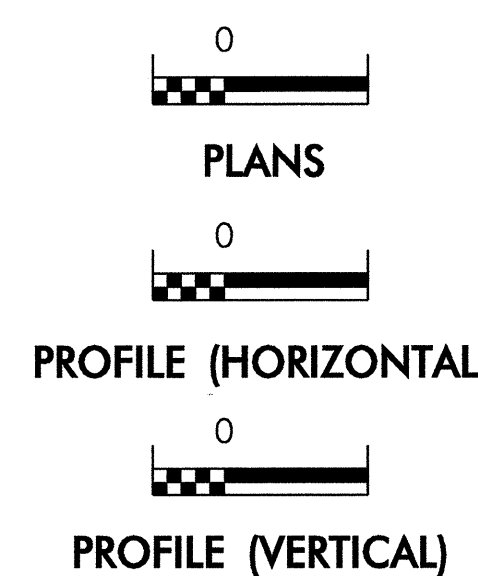
EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Streambank Reforestation	
1630.05	Temporary Silt Ditch	
1630.01	Temporary Diversion	
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	
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

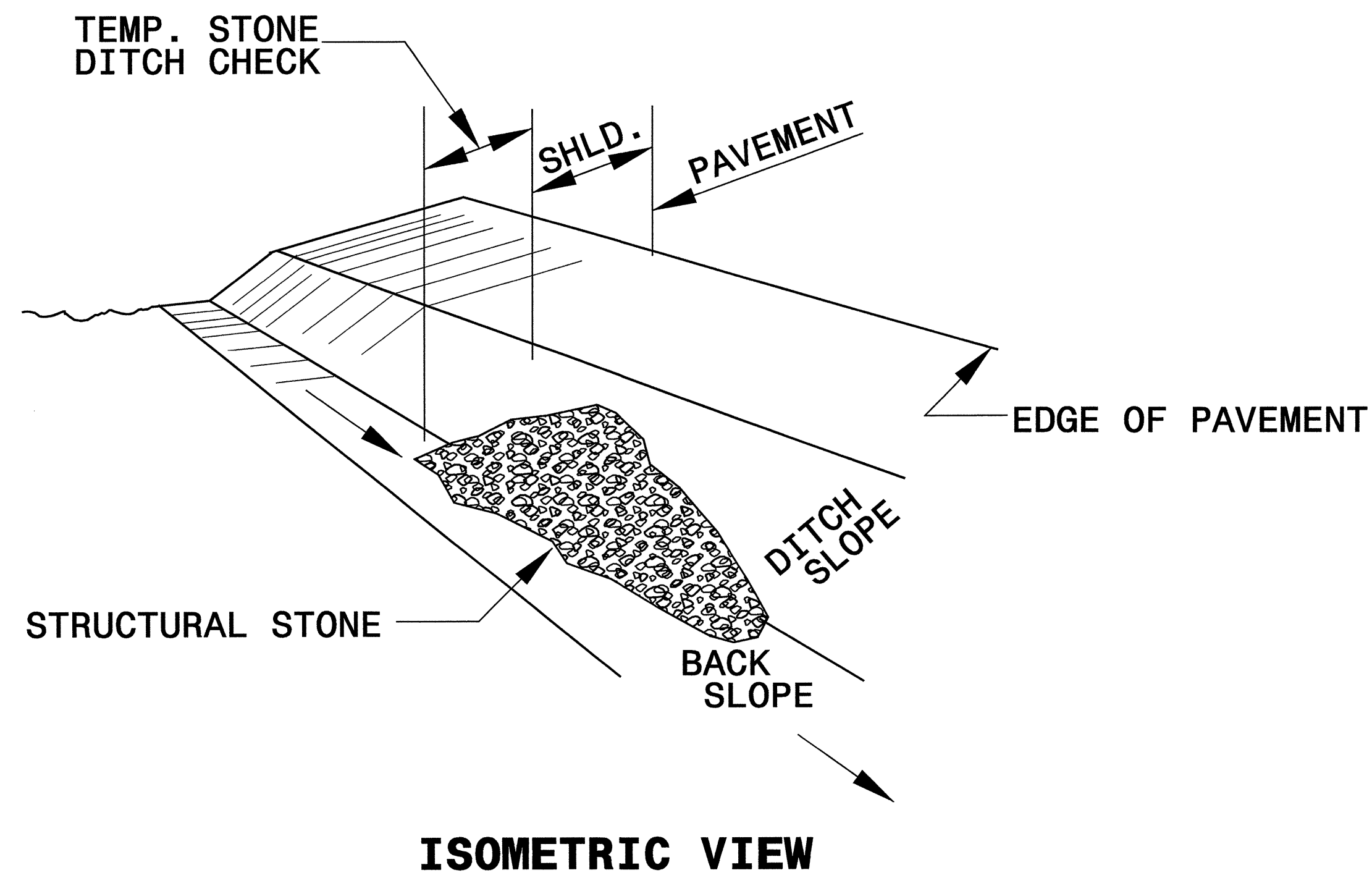
Roadway Standard Drawings

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 |
| 1607.01 Gravel Construction Entrance | 1632.03 Rock Inlet Sediment Trap Type C |
| 1630.03 Temporary Silt Ditch | 1633.01 Temporary Rock Silt Check Type A |
| | 1634.02 Temporary Rock Sediment Dam Type B |

PROJECT REFERENCE NO. B-4197	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

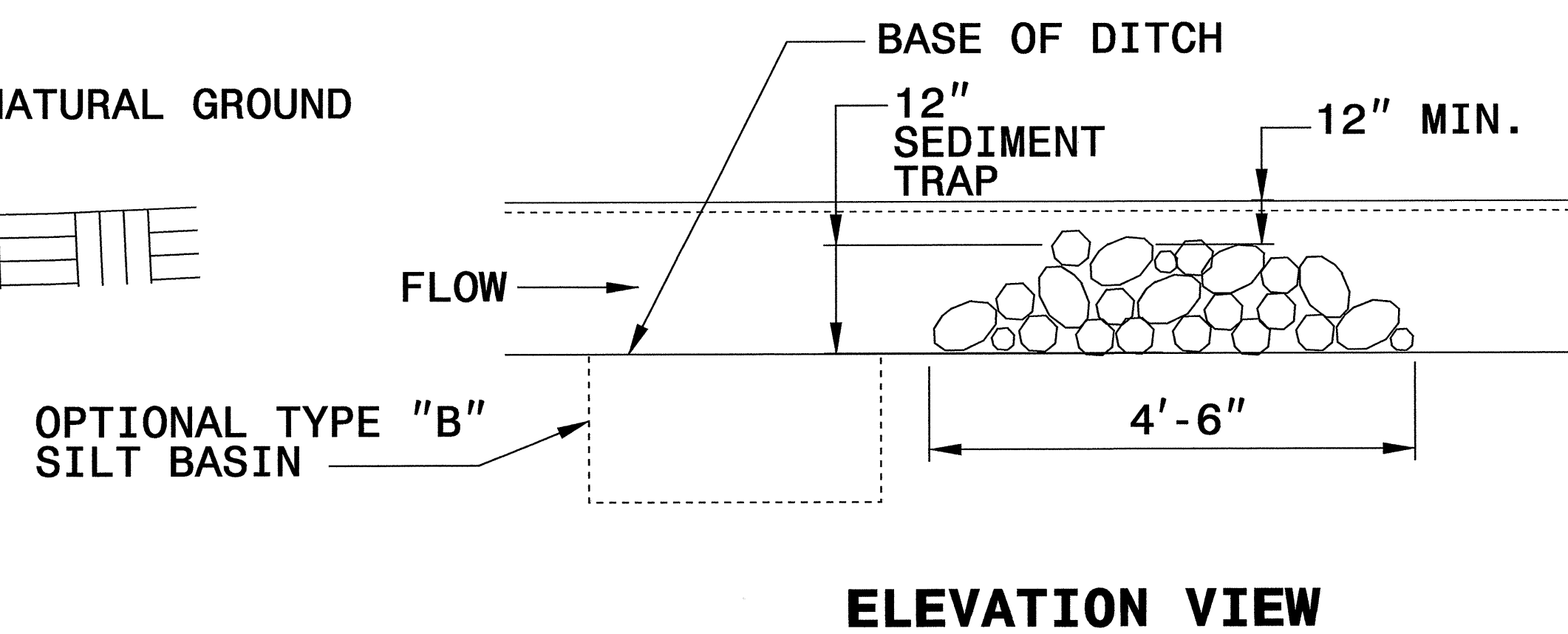
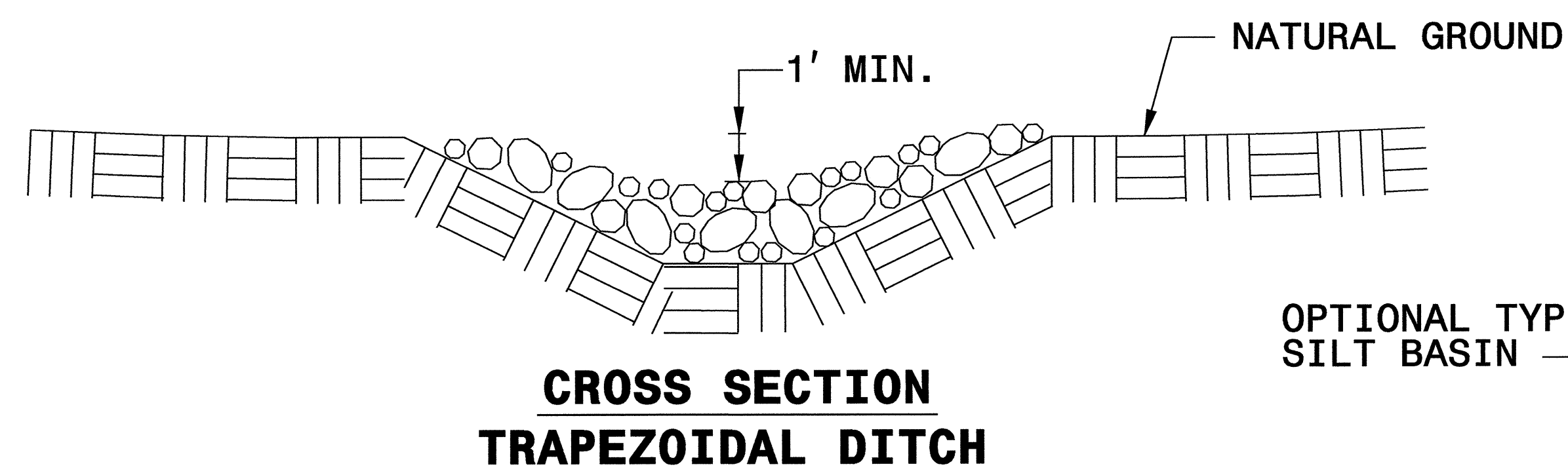
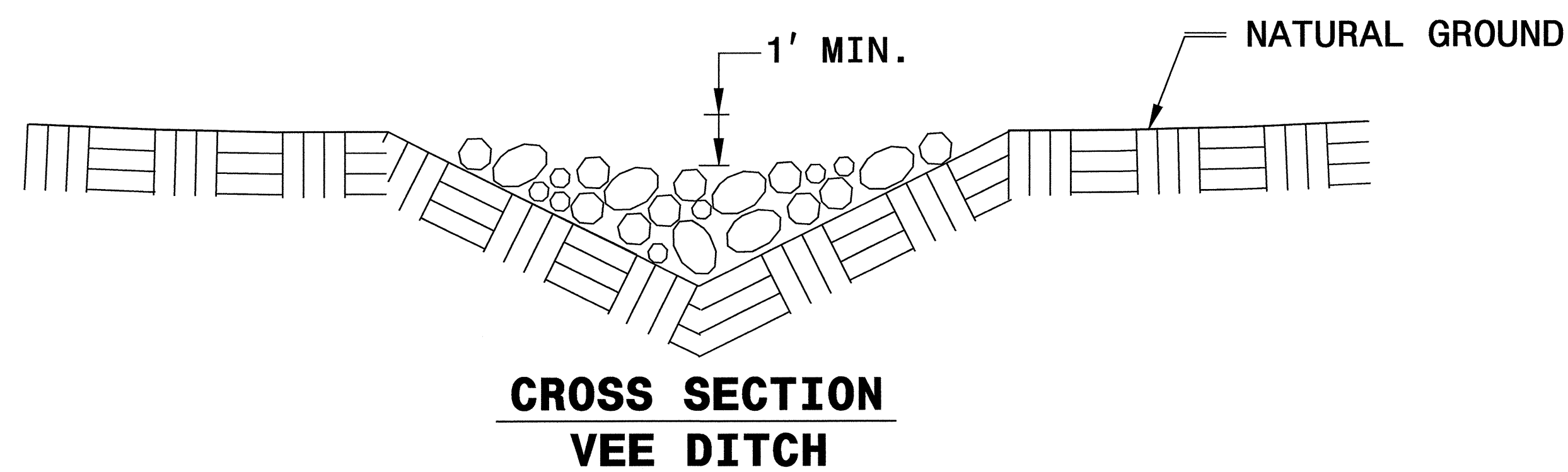
TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL



NOTES:

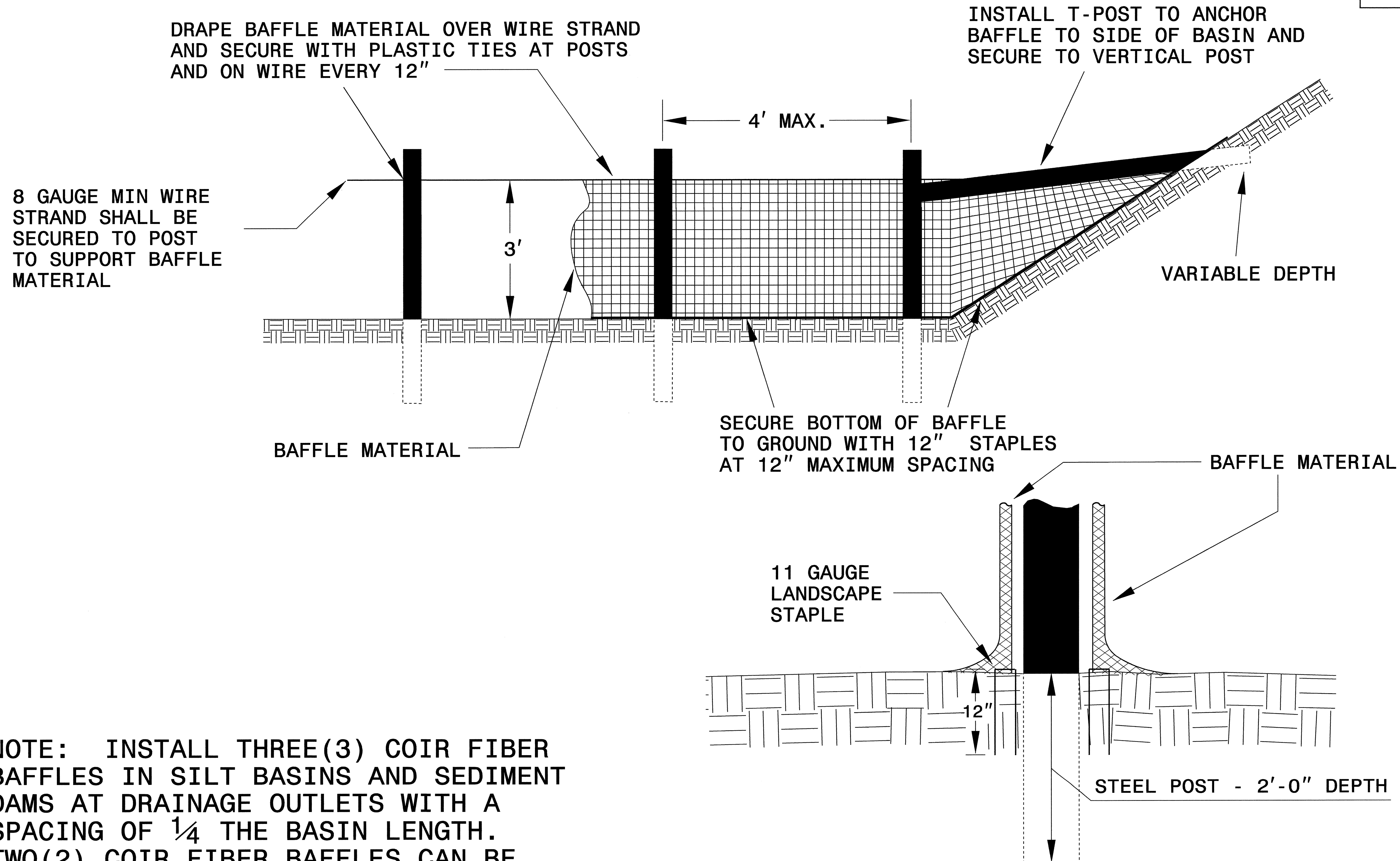
USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

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-4197	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

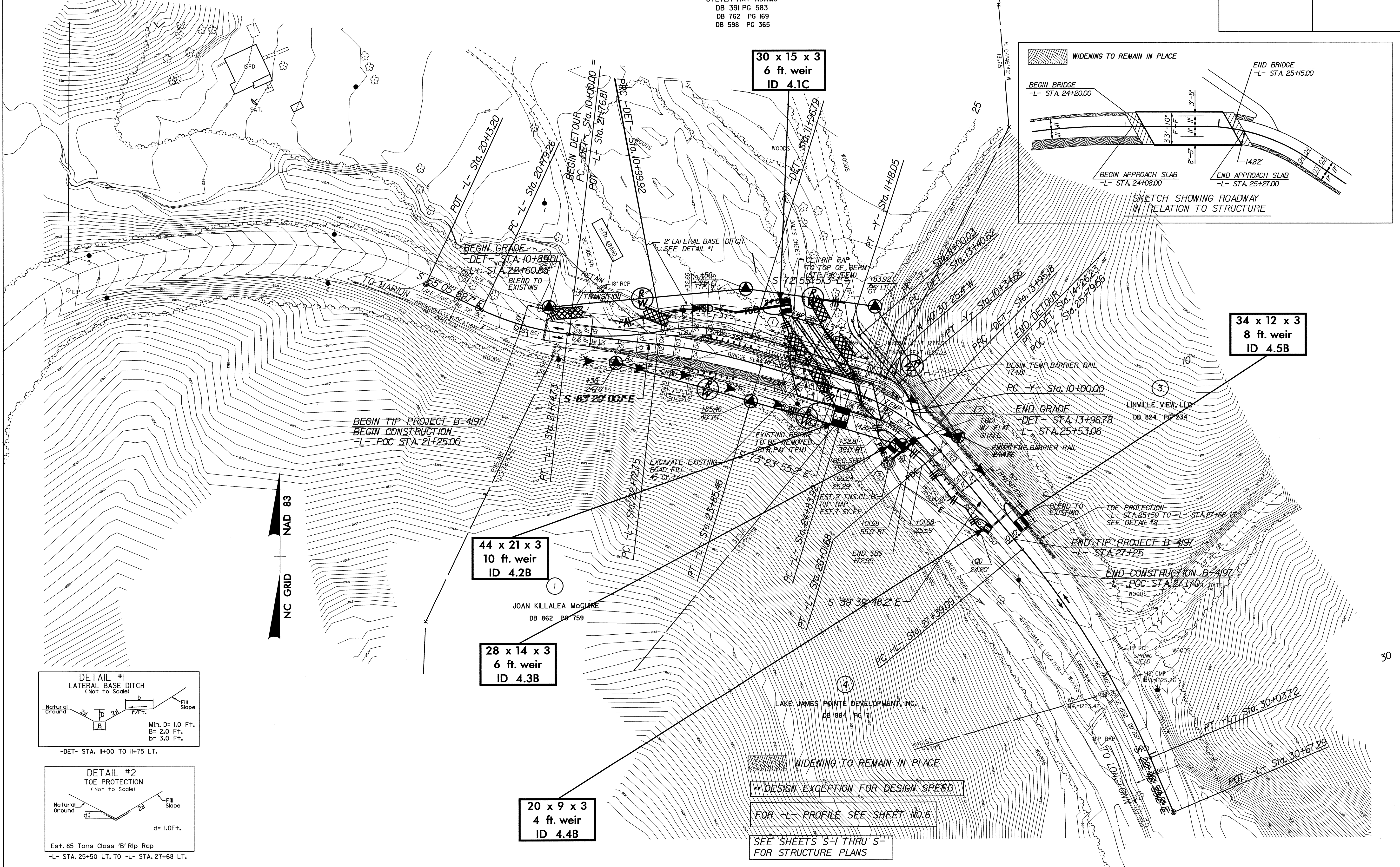
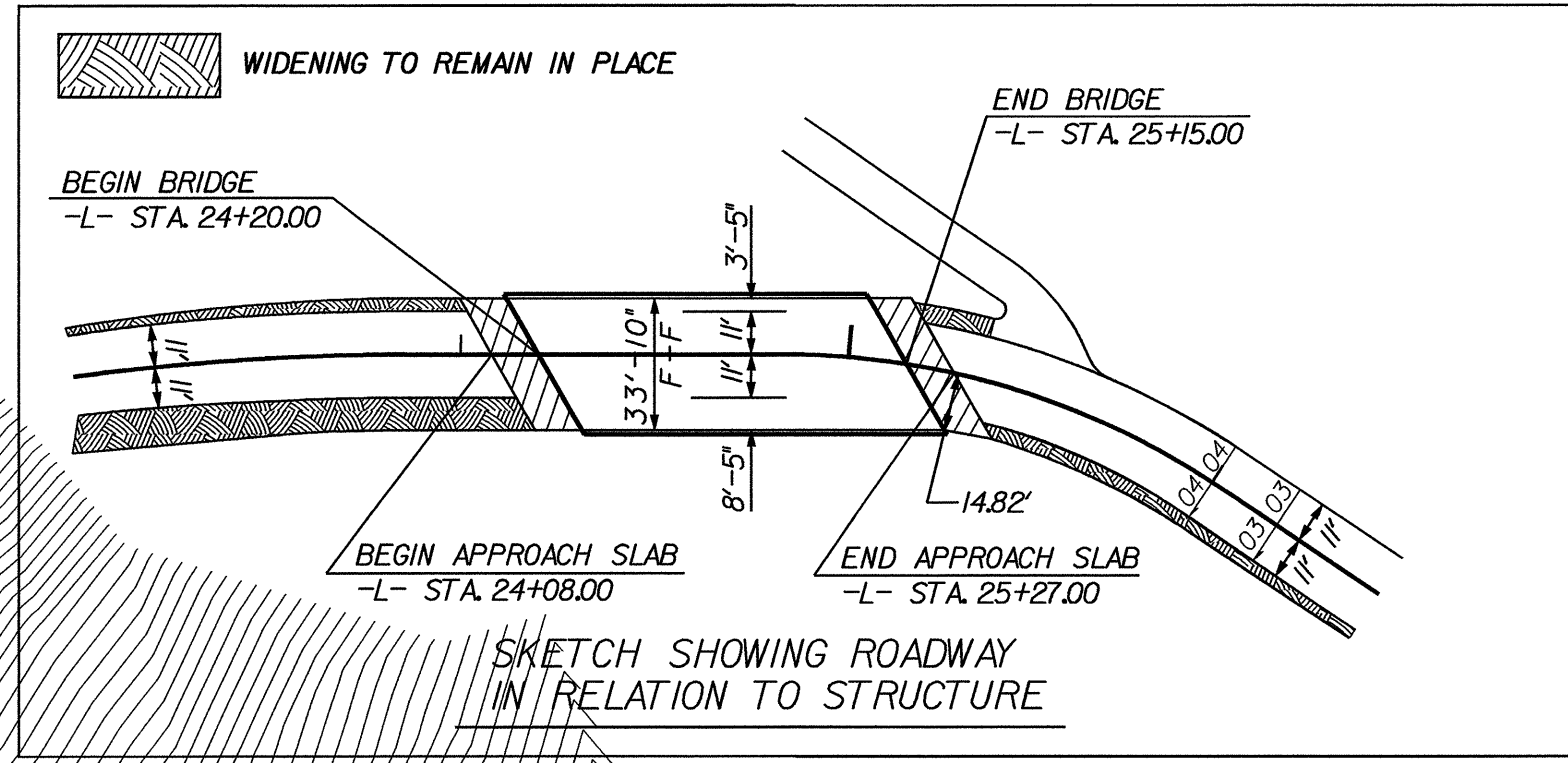
PROJECT REFERENCE NO.	SHEET NO.
B-4197	EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

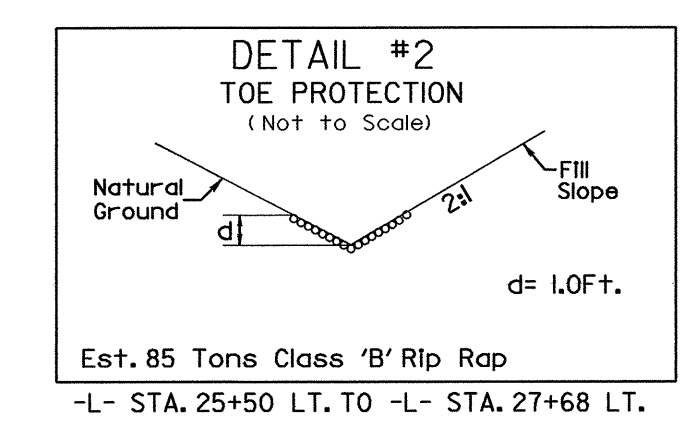
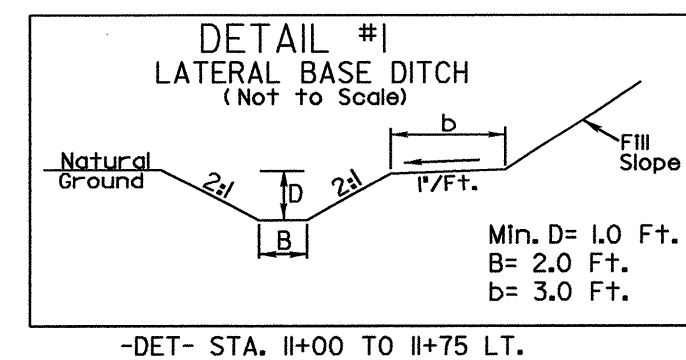
NOTE:
UTILIZE TEMPORARY ROCK SEDIMENT DAM TYPE - B
AS STILLING BASIN WHERE APPLICABLE.

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

2
MARY TEAGUE ADAMS
STEVEN RAY ADAMS
DB 391 PG 583
DB 762 PG 169
DB 598 PG 365



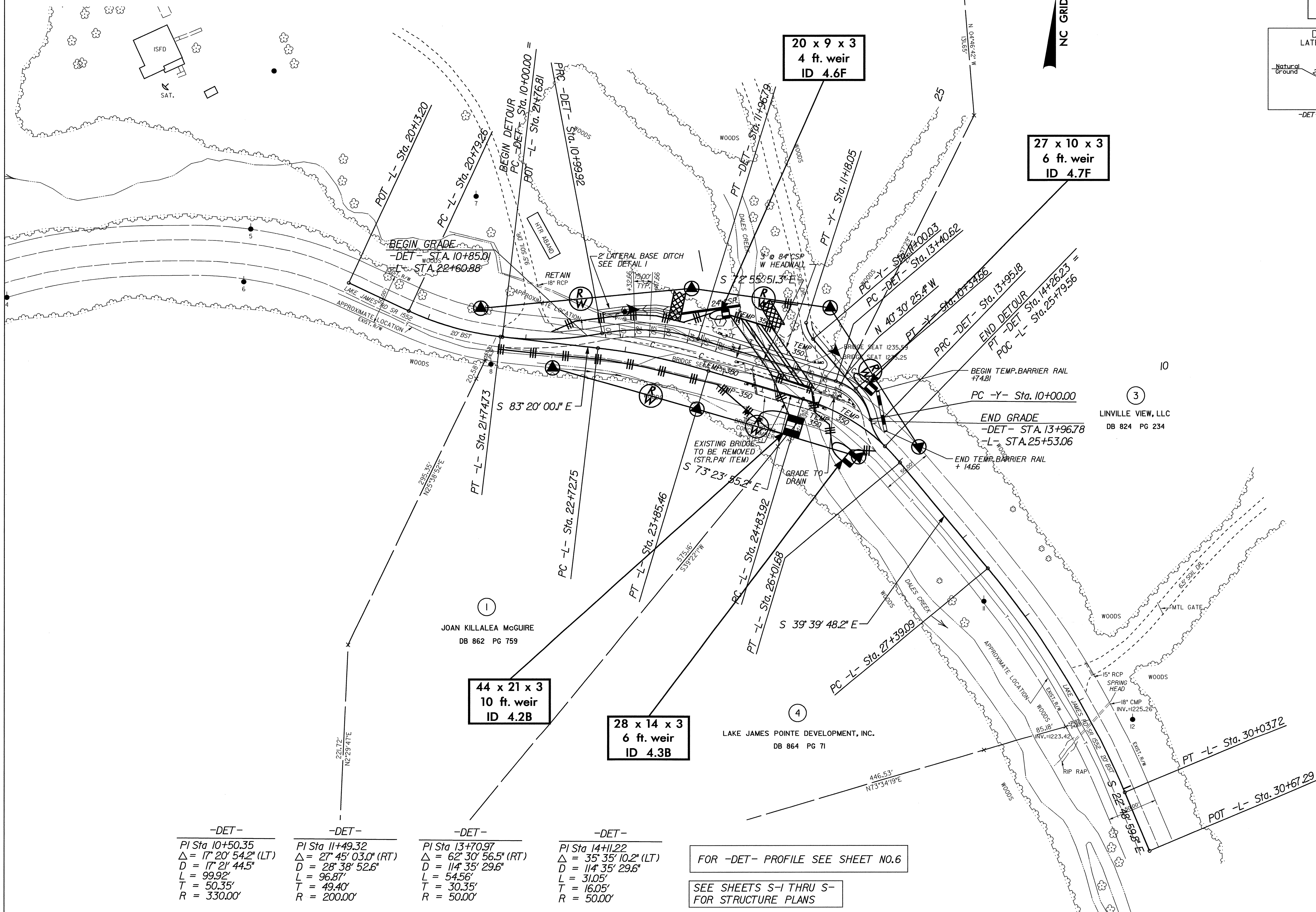
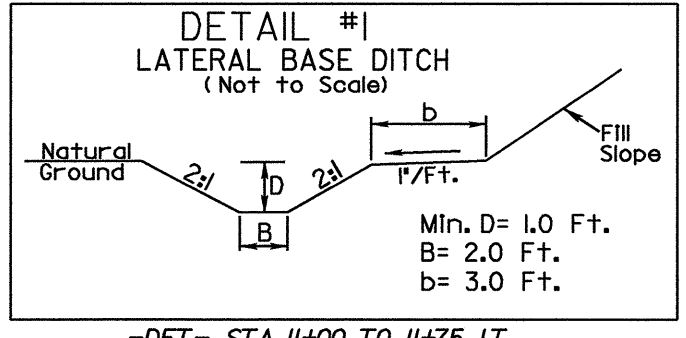
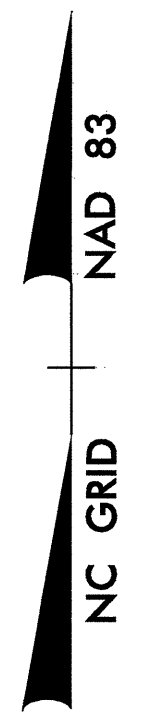
NAD 83
NC GRID



WIDENING TO REMAIN IN PLACE
** DESIGN EXCEPTION FOR DESIGN SPEED
FOR -L- PROFILE SEE SHEET NO. 6
SEE SHEETS S-1 THRU S-5
FOR STRUCTURE PLANS

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

DETOUR



-DET-	-DET-	-DET-	-DET-
PI Sta 10+50.35	PI Sta 11+49.32	PI Sta 13+70.97	PI Sta 14+11.22
Δ = 17° 20' 54.2" (LT)	Δ = 27° 45' 03.0" (RT)	Δ = 62° 30' 56.5" (RT)	Δ = 35° 35' 10.2" (LT)
D = 17' 21' 44.5"	D = 28' 38' 52.6"	D = 114' 35' 29.6"	D = 114' 35' 29.6"
L = 99.92'	L = 96.87'	L = 54.56'	L = 31.05'
T = 50.35'	T = 49.40'	T = 30.35'	T = 16.05'
R = 330.00'	R = 200.00'	R = 50.00'	R = 50.00'

FOR -DET- PROFILE SEE SHEET NO.6
SEE SHEETS S-1 THRU S-4 FOR STRUCTURE PLANS

10
3
LINVILLE VIEW, LLC
DB 824 PG 234

30

PROJECT REFERENCE NO.	SHEET NO.
B-4197	EC-7/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 12 + 60 -DETOUR-

PHASE I

1. UTILIZE SPECIAL STILLING BASIN TO DEWATER CONSTRUCTION SITE AS DIRECTIONED BY THE ENGINEER
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.

