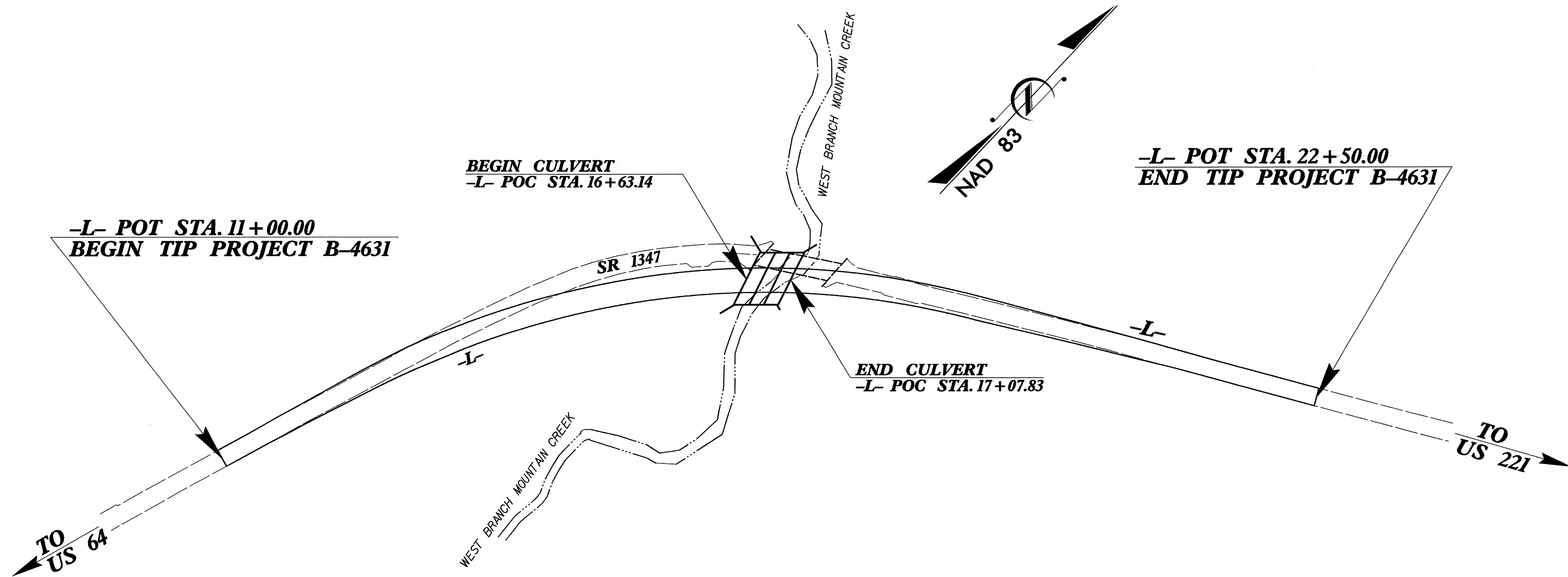


TIP PROJECT: B-4631

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

**LOCATION: REPLACE BRIDGE NO. 526 ON SR 1347 (PARRIS ROAD)
 OVER WEST BRANCH MOUNTAIN CREEK.**

**TYPE OF WORK: GRADING, DRAINAGE, PAVEMENT, AND
 CULVERT**



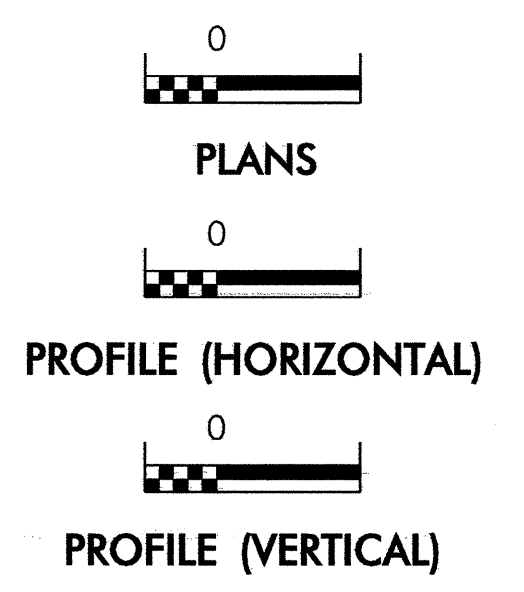
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4631	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

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	III III III
1622.01	Temporary Berms and Slope Drains	TBD
1630.01	Riser Basin	⊙
	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	▭
1630.06	Special 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.**

GRAPHIC SCALE



ROADSIDE ENVIRONMENTAL UNIT
 DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

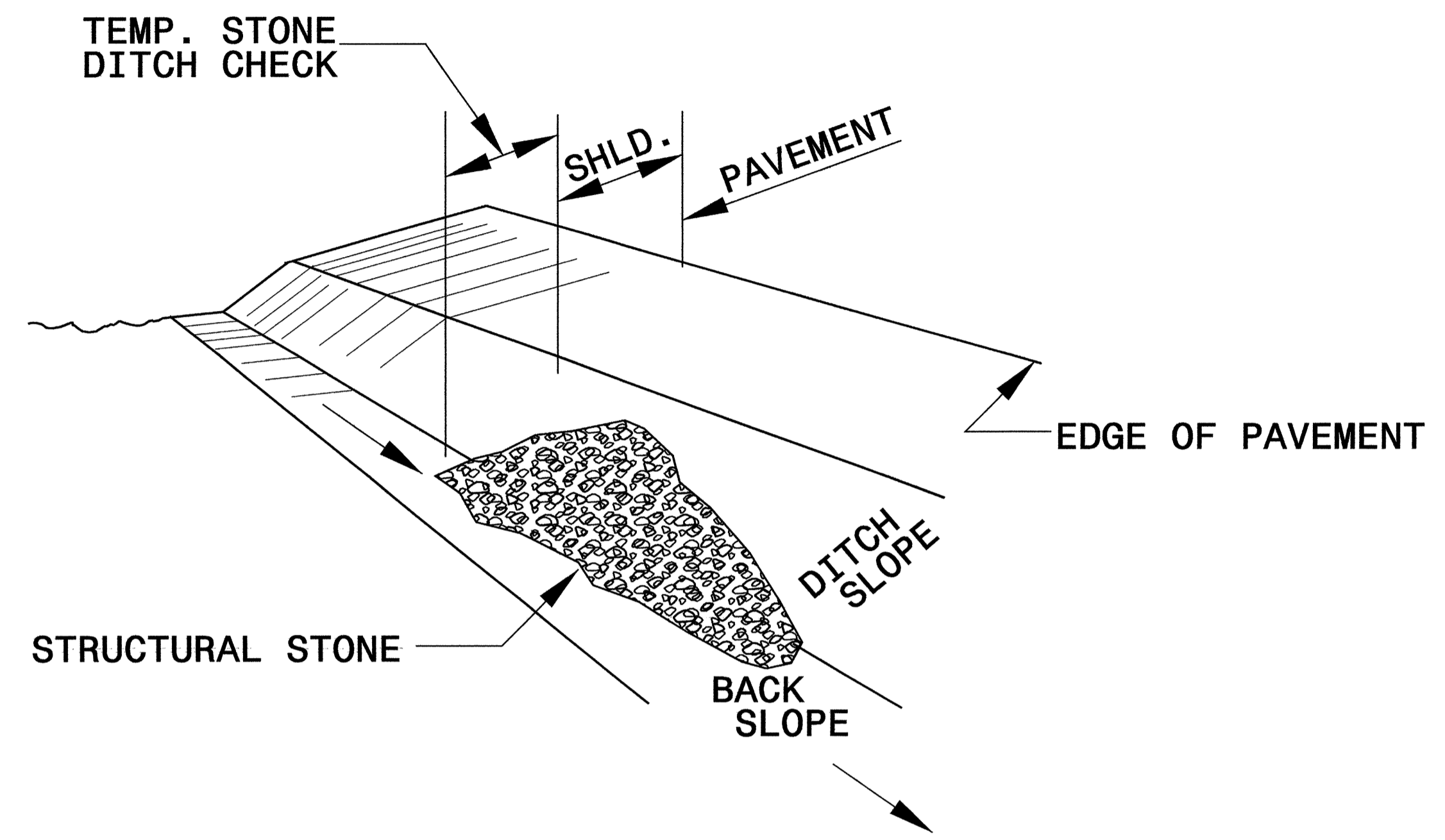
Prepared in the Office of:
ROADSIDE ENVIRONMENTAL UNIT
 1 South Wilmington St.
 Raleigh, NC 27611
2006 STANDARD SPECIFICATIONS

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	1633.01 Temporary Rock Silt Check Type A
1607.01 Gravel Construction Entrance	1634.02 Temporary Rock Sediment Dam Type B
1622.01 Temporary Berms and Slope Drains	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.04 Stilling Basin	
1630.05 Temporary Diversion	

PROJECT REFERENCE NO. <i>B-4631</i>	SHEET NO. <i>EC-2</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

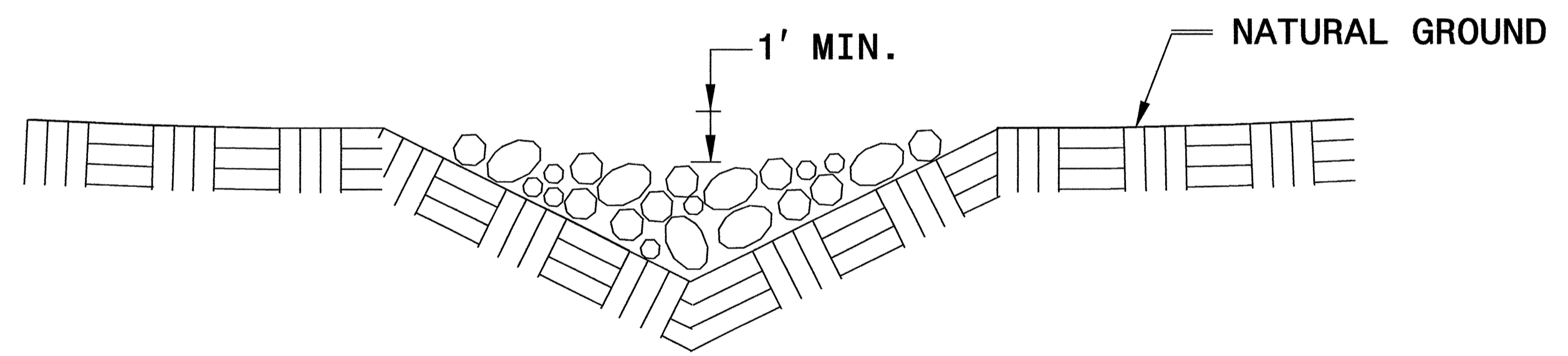


ISOMETRIC VIEW

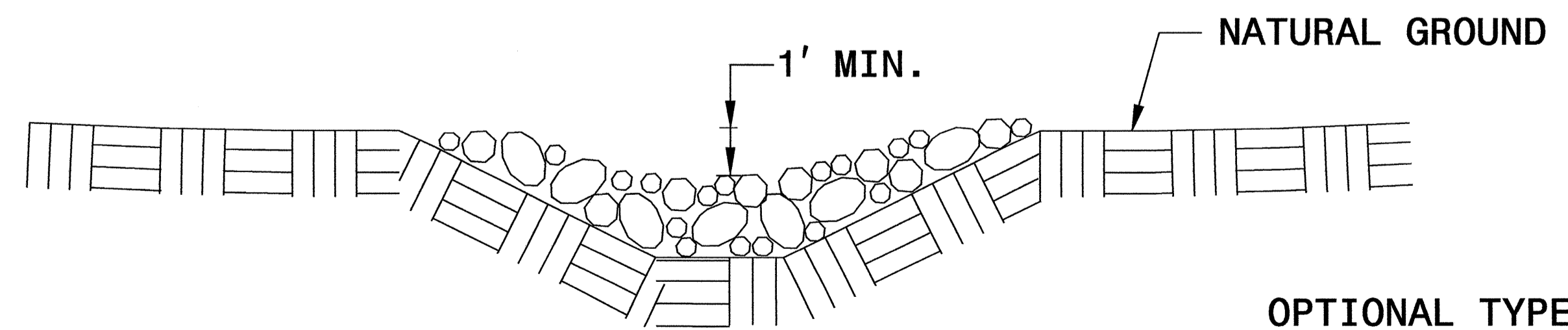
NOTES:

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

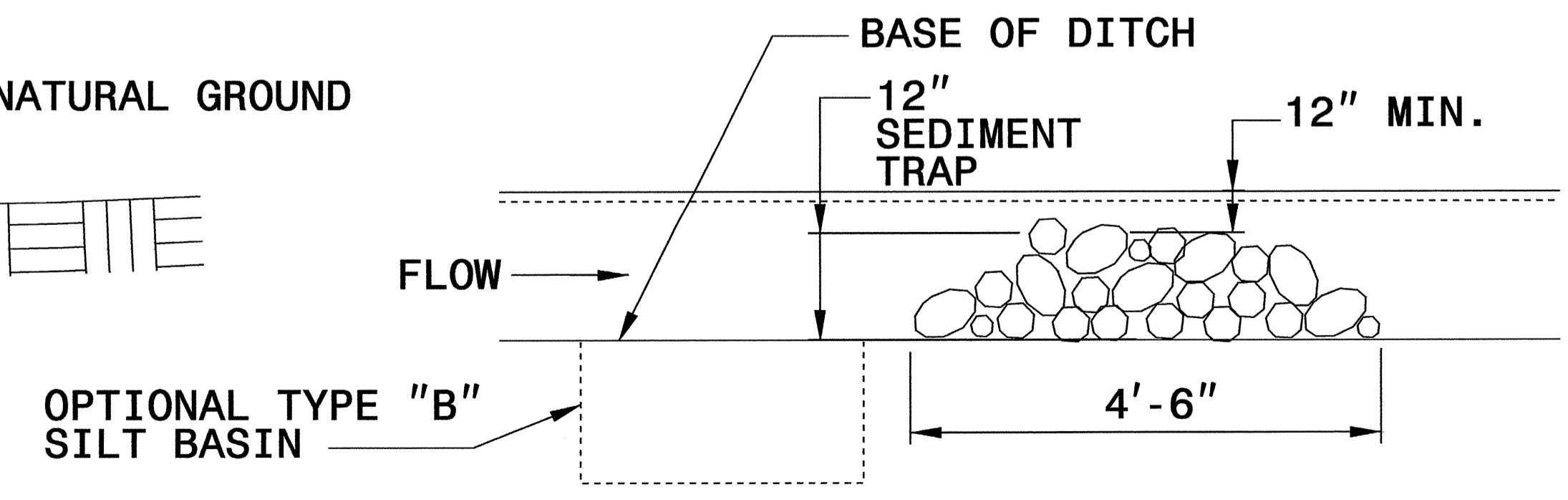
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



CROSS SECTION VEE DITCH



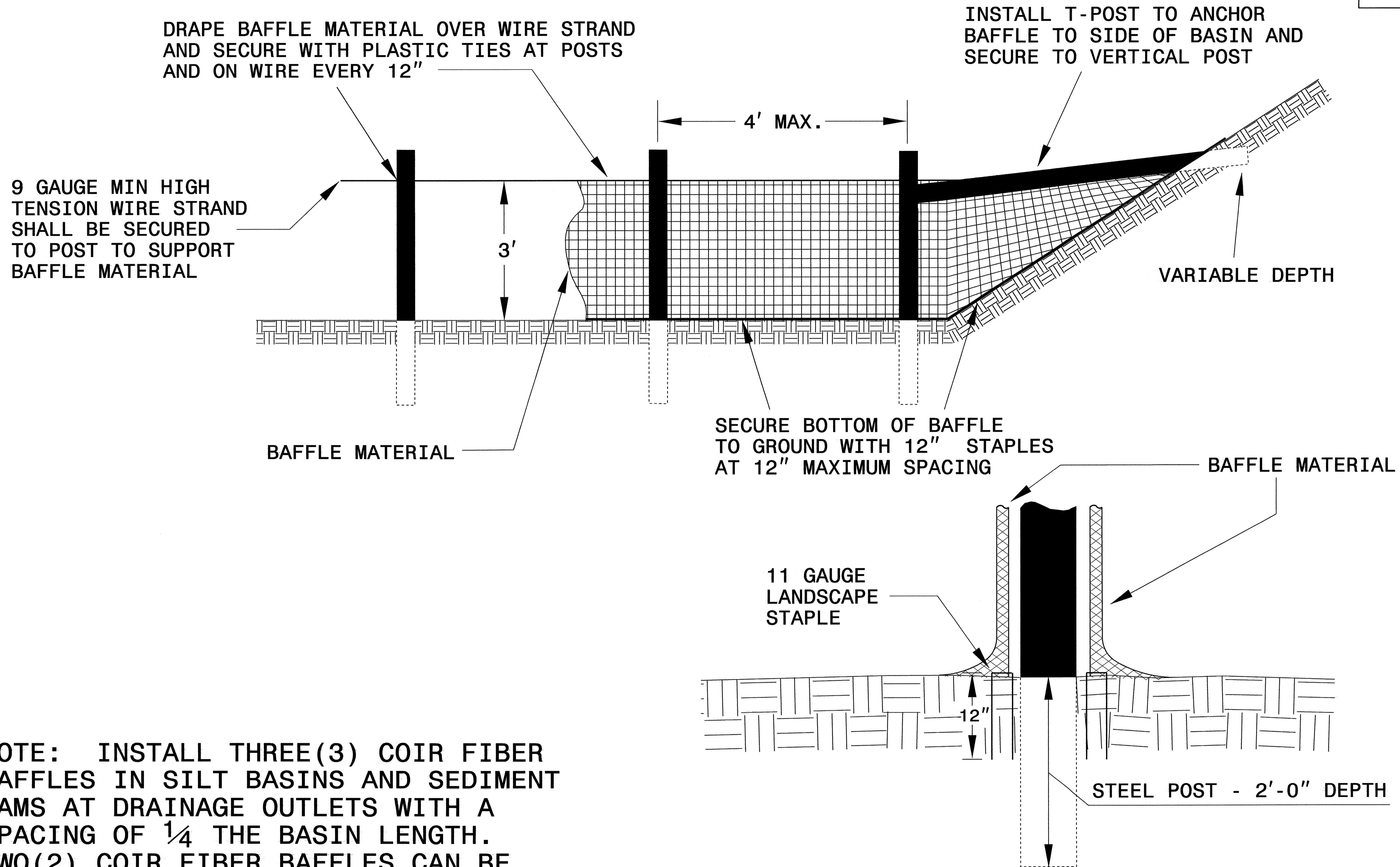
CROSS SECTION TRAPEZOIDAL DITCH



ELEVATION VIEW

PROJECT REFERENCE NO. B-4631	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

DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED

PROJECT REFERENCE NO.	SHEET NO.
B-4631	EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

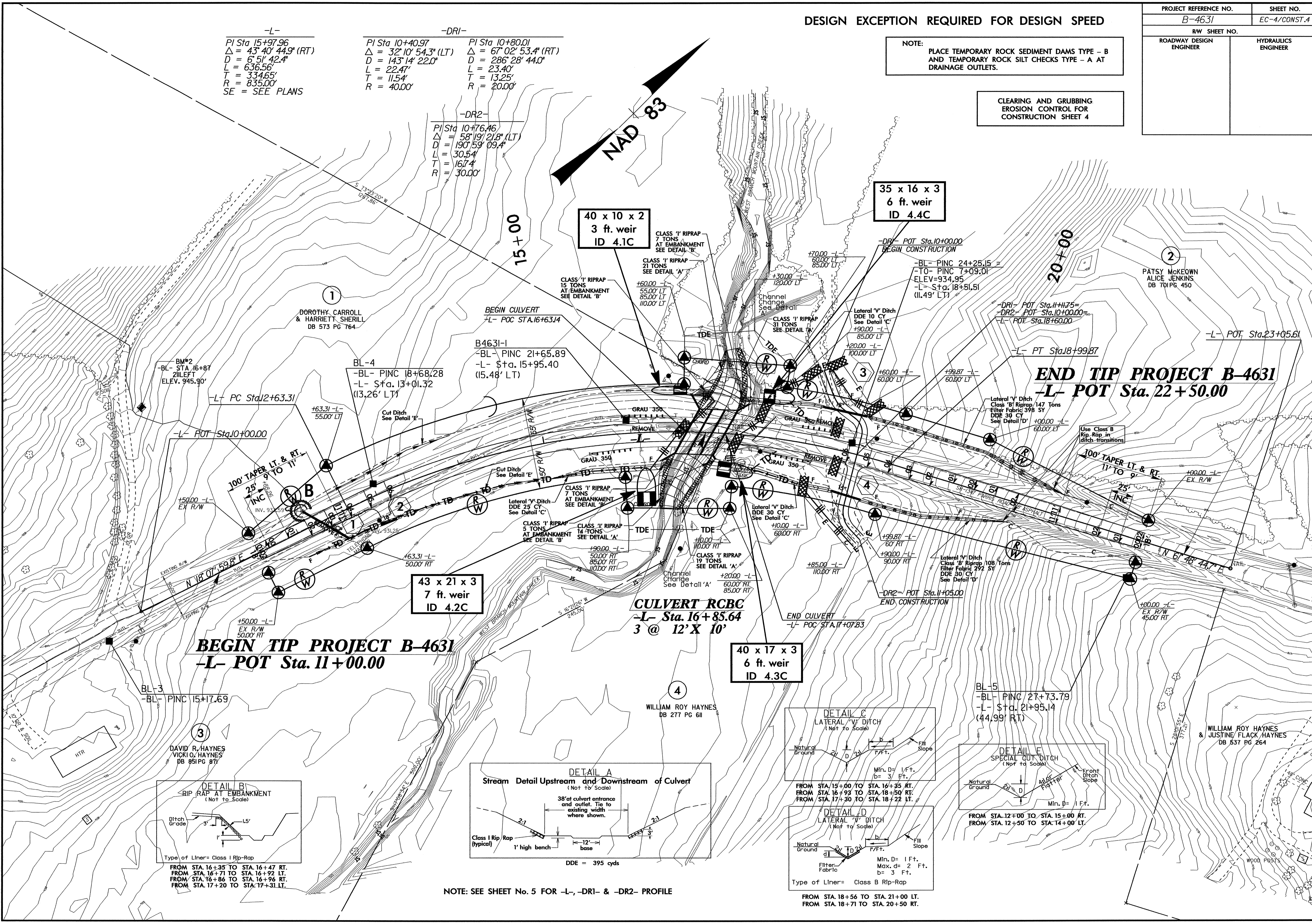
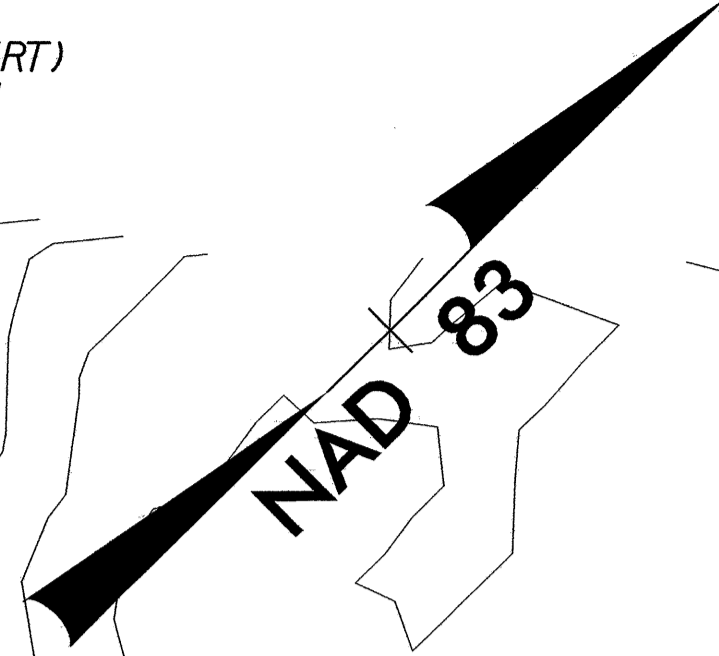
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

-L-
 PI Sta 15+97.96
 $\Delta = 43^{\circ}40'44.9"$ (RT)
 $D = 6^{\circ}51'42.4"$
 $L = 636.56'$
 $T = 334.65'$
 $R = 835.00'$
 SE = SEE PLANS

-DRI-
 PI Sta 10+40.97
 $\Delta = 32^{\circ}10'54.3"$ (LT)
 $D = 143^{\circ}14'22.0"$
 $L = 22.47'$
 $T = 11.54'$
 $R = 40.00'$

PI Sta 10+80.01
 $\Delta = 67^{\circ}02'53.4"$ (RT)
 $D = 286^{\circ}28'44.0"$
 $L = 23.40'$
 $T = 13.25'$
 $R = 20.00'$

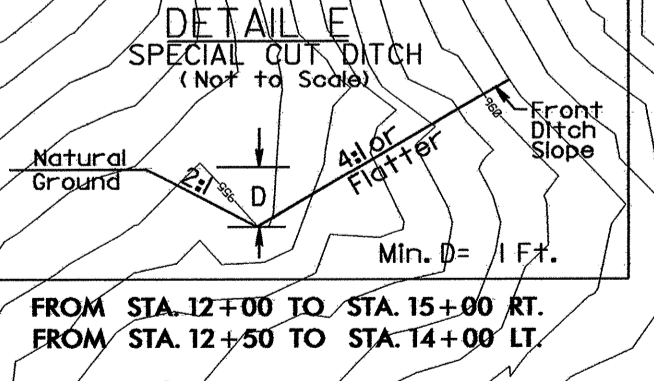
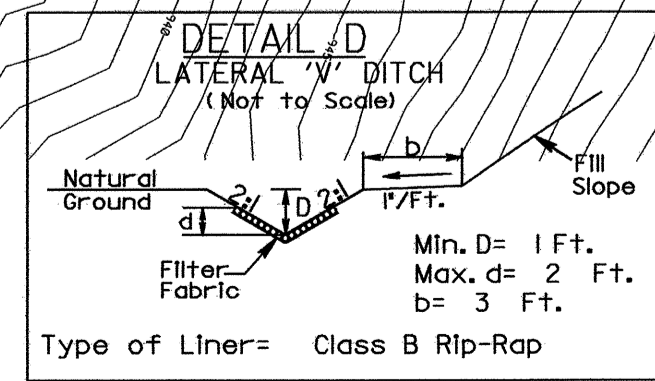
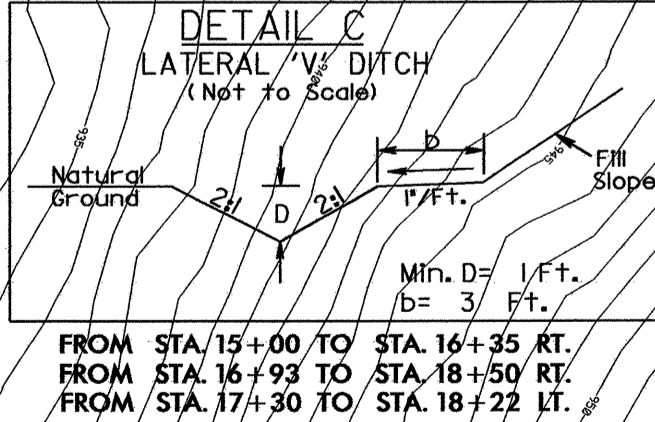
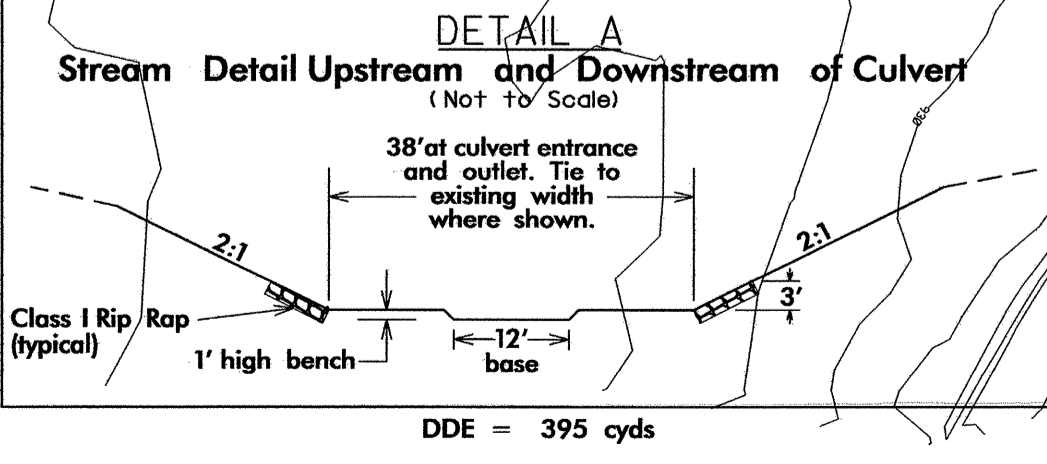
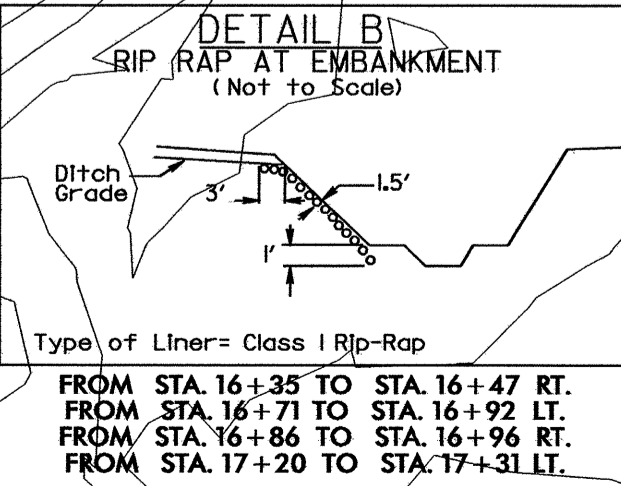
-DR2-
 PI Sta 10+76.46
 $\Delta = 58^{\circ}19'21.8"$ (LT)
 $D = 190^{\circ}59'09.4"$
 $L = 30.54'$
 $T = 16.74'$
 $R = 30.00'$



BEGIN TIP PROJECT B-4631
-L- POT Sta. 11+00.00

CULVERT RCBC
-L- Sta. 16+85.64
3 @ 12' X 10'

END TIP PROJECT B-4631
-L- POT Sta. 22+50.00



NOTE: SEE SHEET No. 5 FOR -L-, -DRI- & -DR2- PROFILE

FROM STA. 16+35 TO STA. 16+47 RT.
 FROM STA. 16+71 TO STA. 16+92 LT.
 FROM STA. 16+86 TO STA. 16+96 RT.
 FROM STA. 17+20 TO STA. 17+31 LT.

FROM STA. 15+00 TO STA. 16+35 RT.
 FROM STA. 16+93 TO STA. 18+50 RT.
 FROM STA. 17+30 TO STA. 18+22 LT.

FROM STA. 12+00 TO STA. 15+00 RT.
 FROM STA. 12+50 TO STA. 14+00 LT.

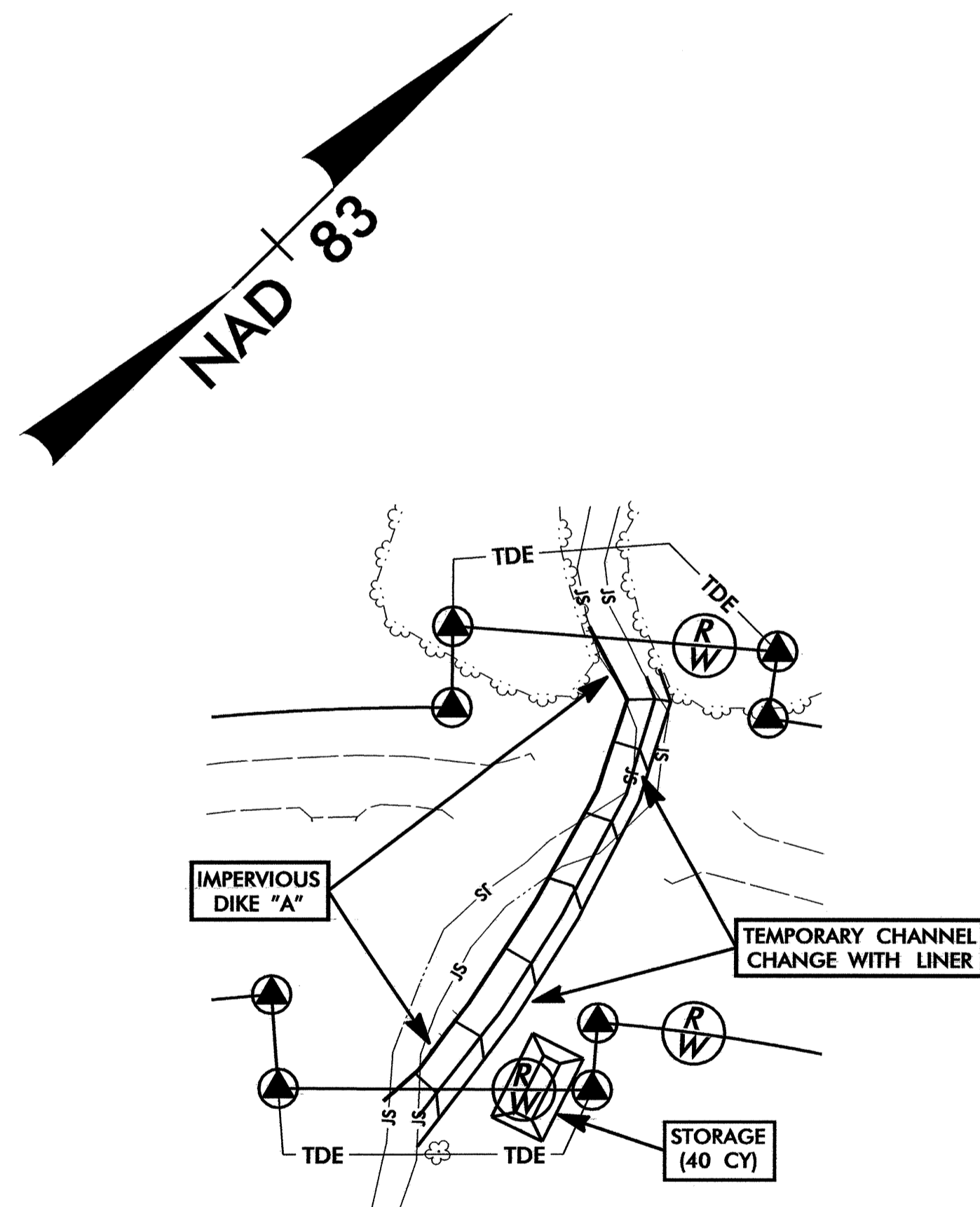
FROM STA. 18+56 TO STA. 21+00 LT.
 FROM STA. 18+71 TO STA. 20+50 RT.

CULVERT CONSTRUCTION SEQUENCE STA. 16+85 -L-

PROJECT REFERENCE NO. B-4631	SHEET NO. EC-5/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

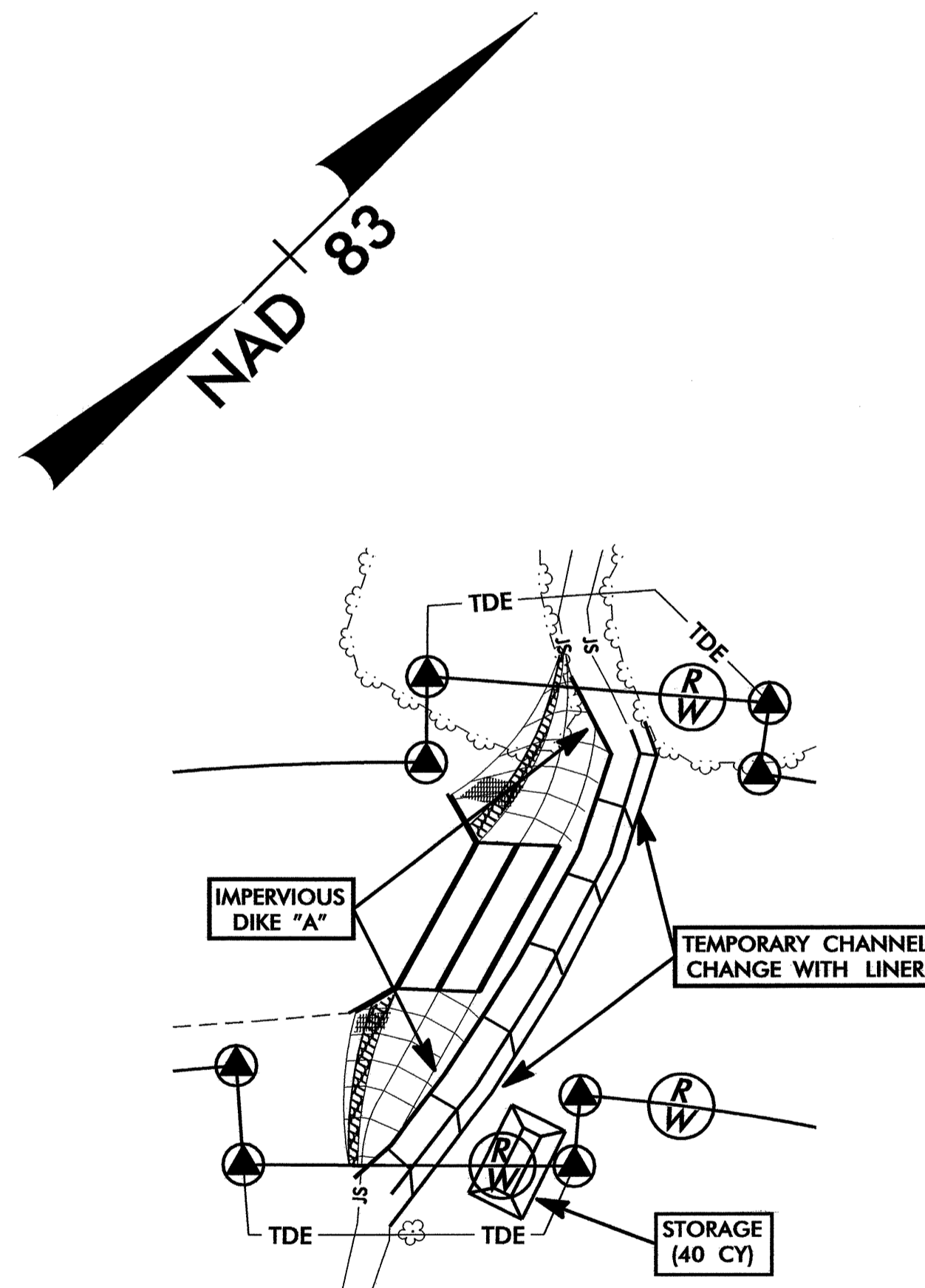
PHASE I

1. CONSTRUCT STILLING BASIN (40CY)
2. CONSTRUCT IMPERVIOUS DIKE "A" AND TEMPORARY CHANNEL CHANGE WITH LINER (9FT BASE, 3FT DEEP, 2:1 SIDE SLOPES) UTILIZING IMPERVIOUS DIKE "A" AS ONE SIDE.



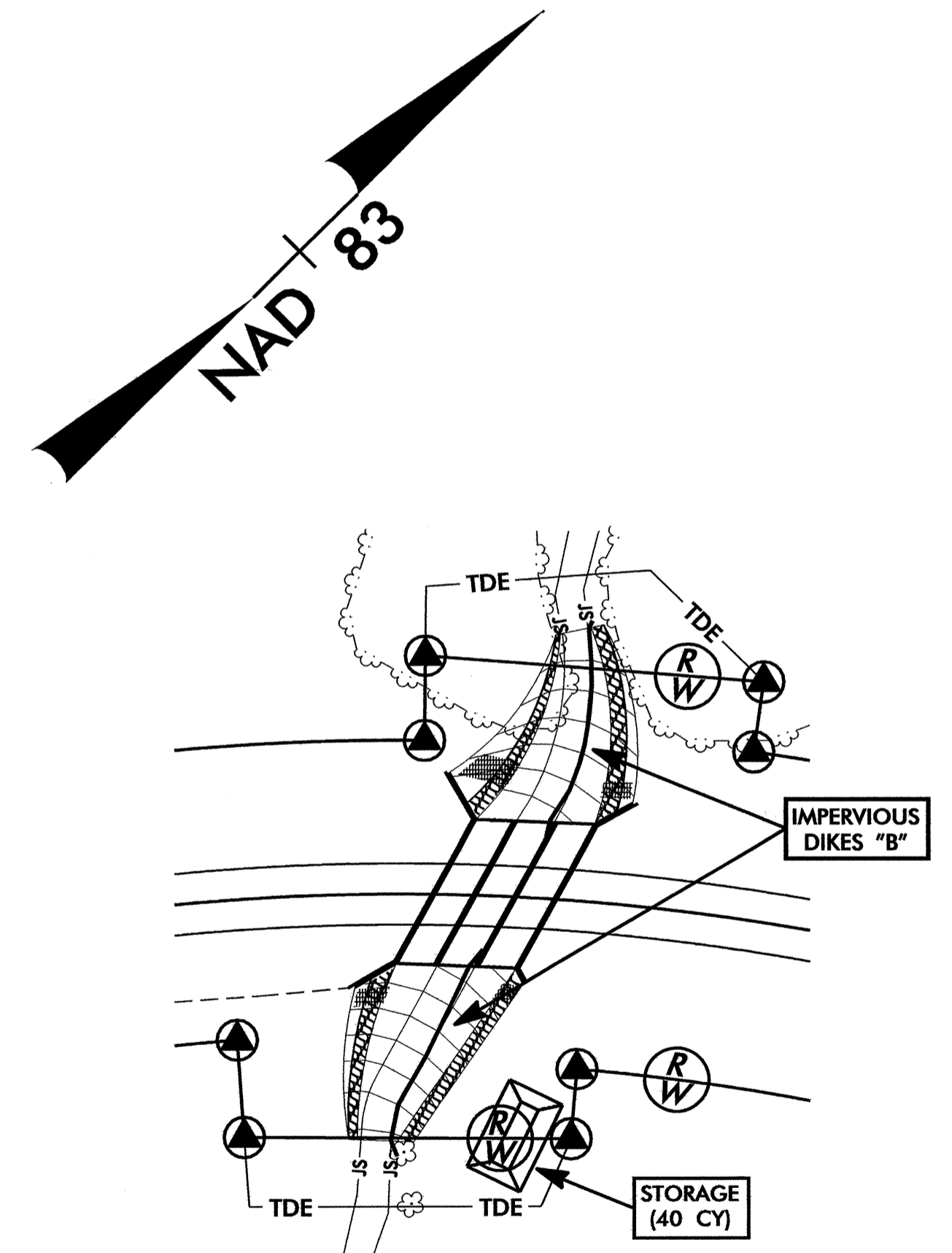
PHASE II

3. CONSTRUCT THE CENTER AND WESTERMOST BARRELS.
4. CONSTRUCT PORTION OF CHANNEL CHANGES UPSTREAM AND DOWNSTREAM OF THE CULVERT.



PHASE III

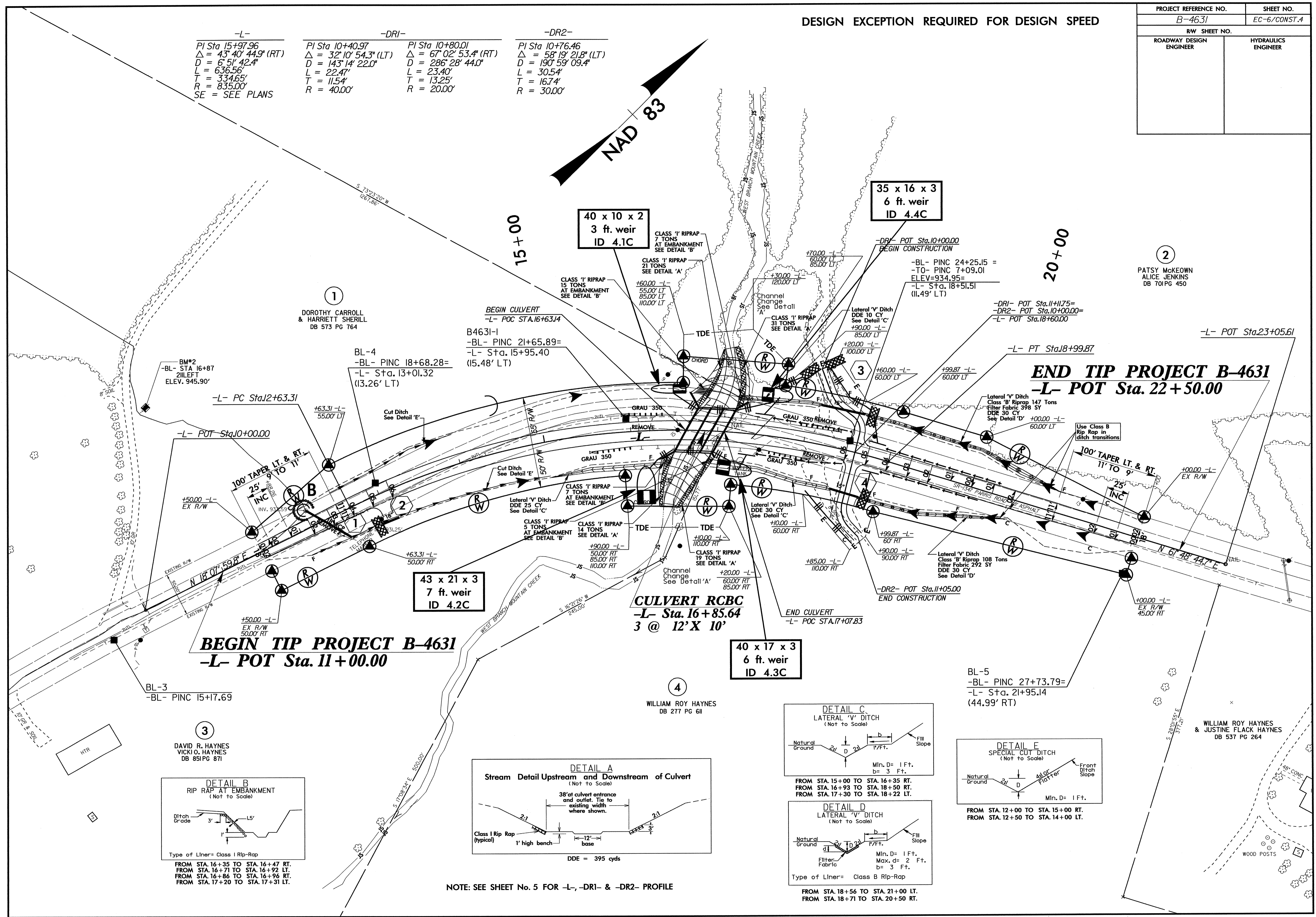
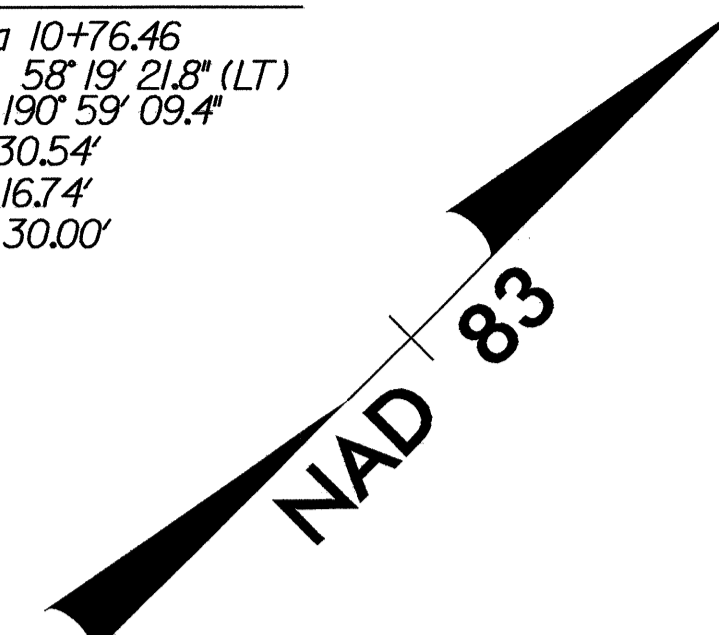
5. INSTALL IMPERVIOUS DIKES "B", DIVERTING WATER THROUGH CENTER AND WESTERMOST BARREL.
6. REMOVE TEMPORARY CHANNEL CHANGE AND IMPERVIOUS DIKE "A".
7. CONSTRUCT EASTERN MOST BARREL AND REMAINING PORTION OF CHANNEL CHANGES.
8. REMOVE IMPERVIOUS DIKES "B".
9. COMPLETE ROADWAY.



DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED

PROJECT REFERENCE NO. B-4631	SHEET NO. EC-6/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

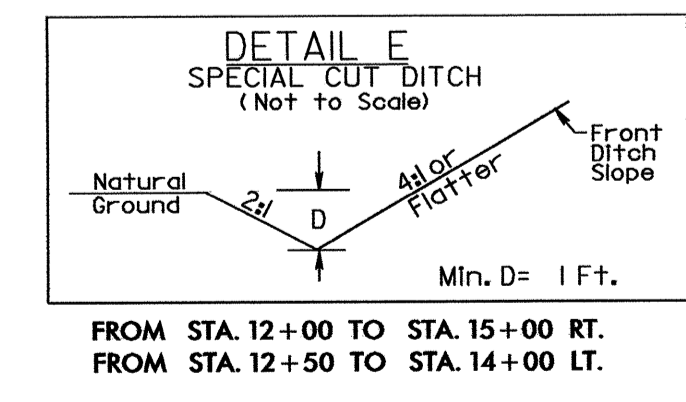
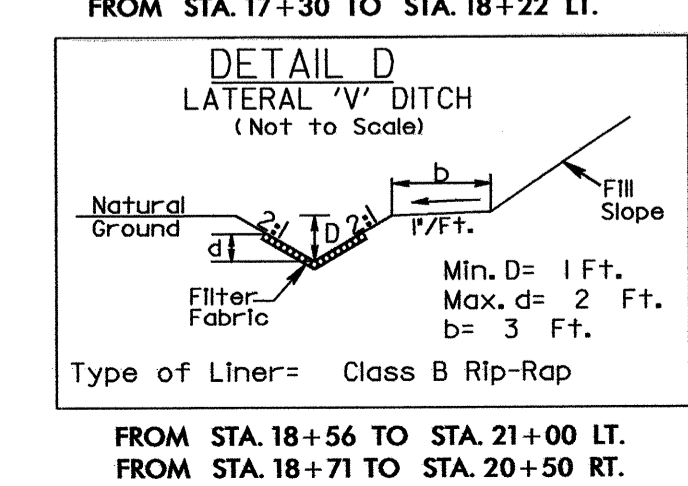
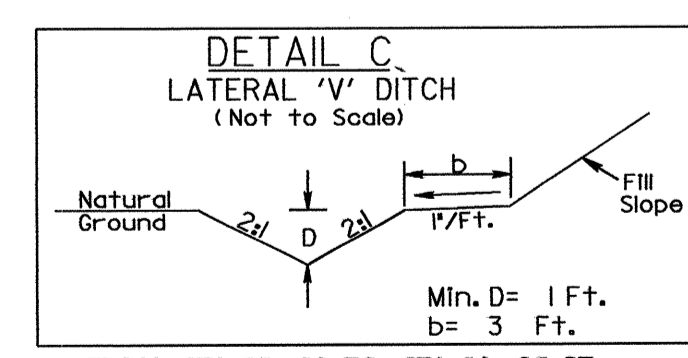
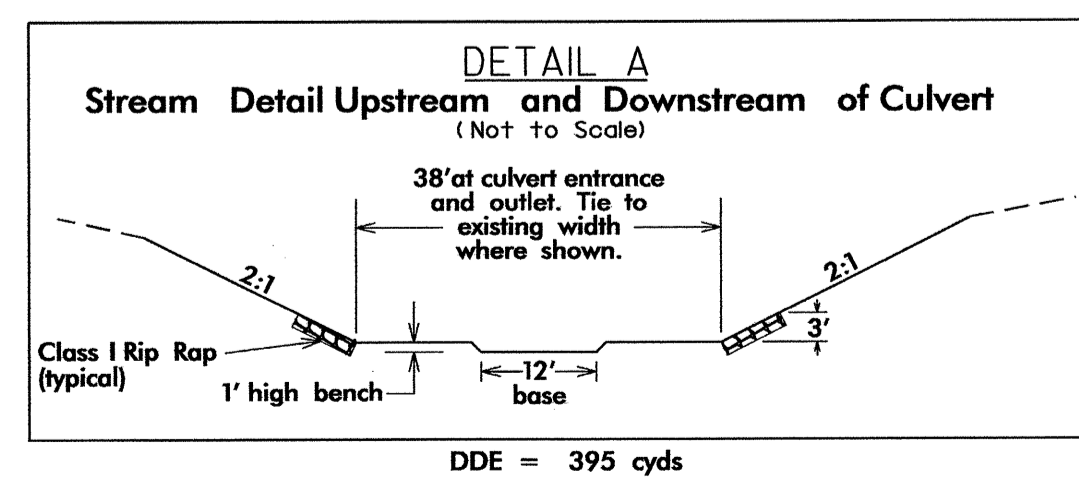
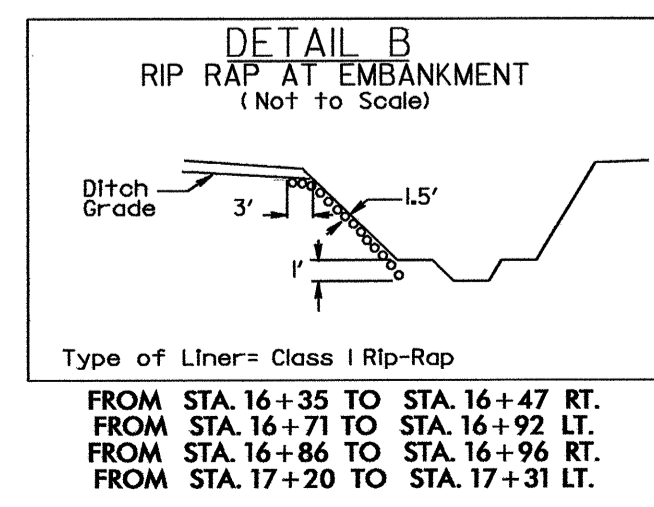
-L-	-DRI-	-DR2-
PI Sta 15+97.96 Δ = 43° 40' 44.9" (RT) D = 6' 51' 42.4" L = 636.56' T = 334.65' R = 835.00' SE = SEE PLANS	PI Sta 10+40.97 Δ = 32° 10' 54.3" (LT) D = 143' 14' 22.0" L = 22.47' T = 11.54' R = 40.00'	PI Sta 10+80.01 Δ = 67° 02' 53.4" (RT) D = 286' 28' 44.0" L = 23.40' T = 13.25' R = 20.00'
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BEGIN TIP PROJECT B-4631
-L- POT Sta. 11+00.00

END TIP PROJECT B-4631
-L- POT Sta. 22+50.00

CULVERT RCBC
-L- Sta. 16+85.64
3 @ 12' X 10'



NOTE: SEE SHEET No. 5 FOR -L-, -DRI- & -DR2- PROFILE

2
PATSY MCKEOWN
ALICE JENKINS
DB TO PG 450

1
DOROTHY CARROLL
& HARRIETT SHERILL
DB 573 PG 764

3
DAVID R. HAYNES
VICKI O. HAYNES
DB 851 PG 871

4
WILLIAM ROY HAYNES
DB 277 PG 611

WILLIAM ROY HAYNES
& JUSTINE FLACK HAYNES
DB 537 PG 264