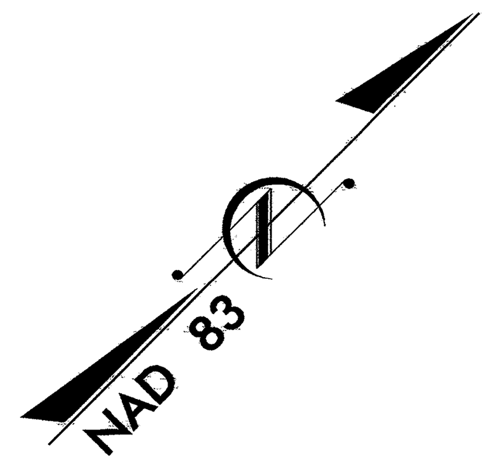
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4613	EC-1	

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

TIP PROJECT: B-4613

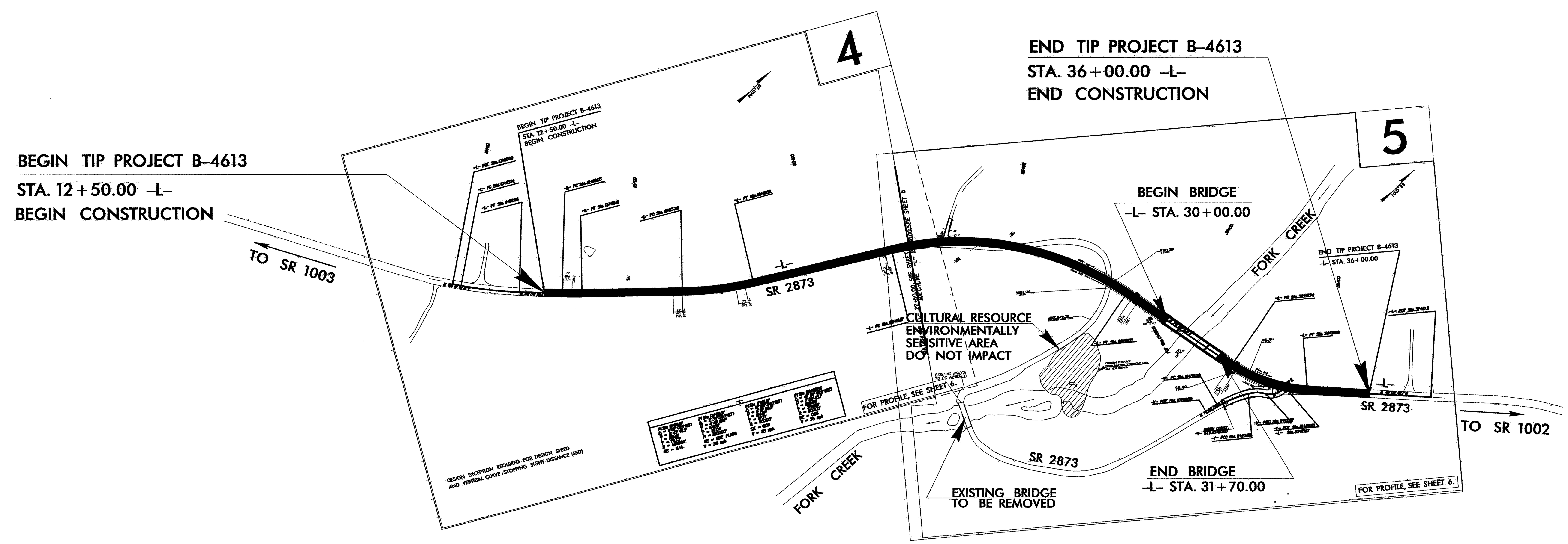
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL



RANDOLPH COUNTY

LOCATION: BRIDGE # 415 OVER FORK CREEK ON SR 2873
TYPE OF WORK: GRADING, DRAINAGE, STRUCTURE, AND PAVING



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
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	
	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

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

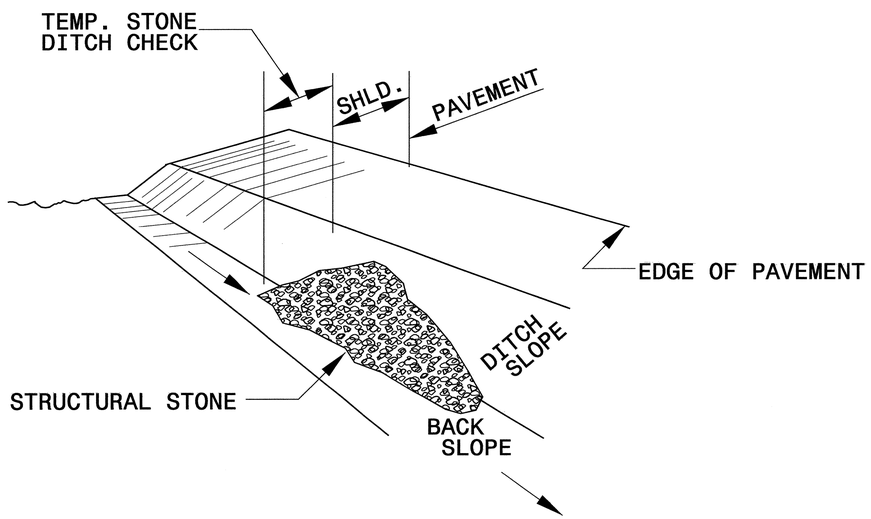
The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated July 18, 2006 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence
1607.01 Gravel Construction Entrance
1622.01 Temporary Berms and Slope Drains
1630.05 Temporary Diversion
1632.02 Rock Inlet Sediment Trap Type B
1632.03 Rock Inlet Sediment Trap Type C
1633.01 Temporary Rock Silt Check Type A
1634.02 Temporary Rock Sediment Dam Type B
1635.02 Rock Pipe Inlet Sediment Trap Type B

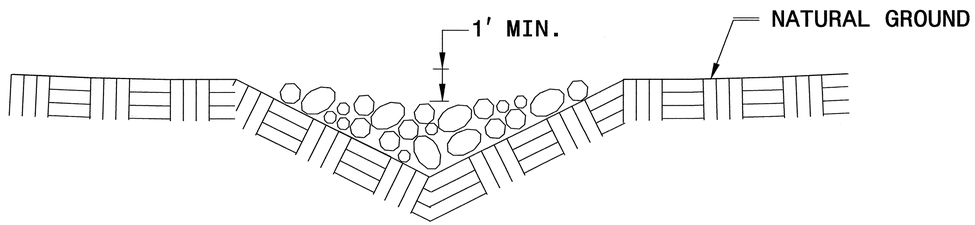
19-SEP-2008 15:4
projects\b4613\environmental\design\b_4613_ec_tsh.dgn

PROJECT REFERENCE NO.	SHEET NO.
B-4613	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

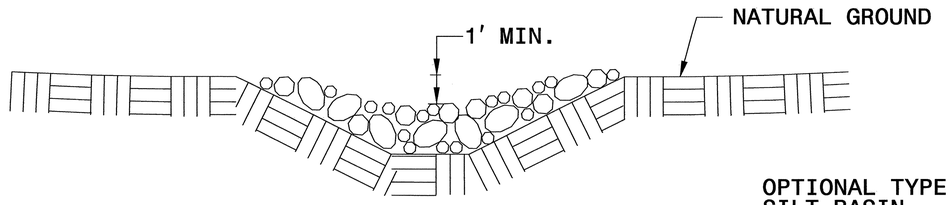
TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH

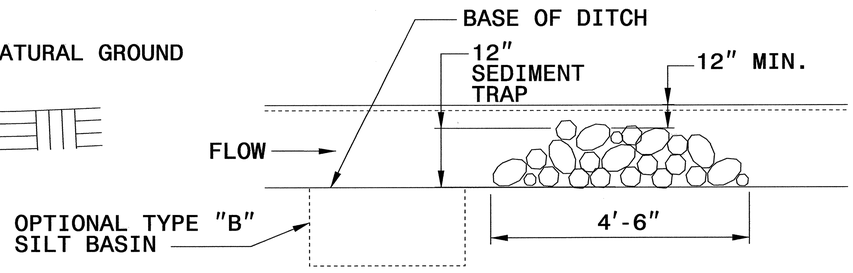


CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

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

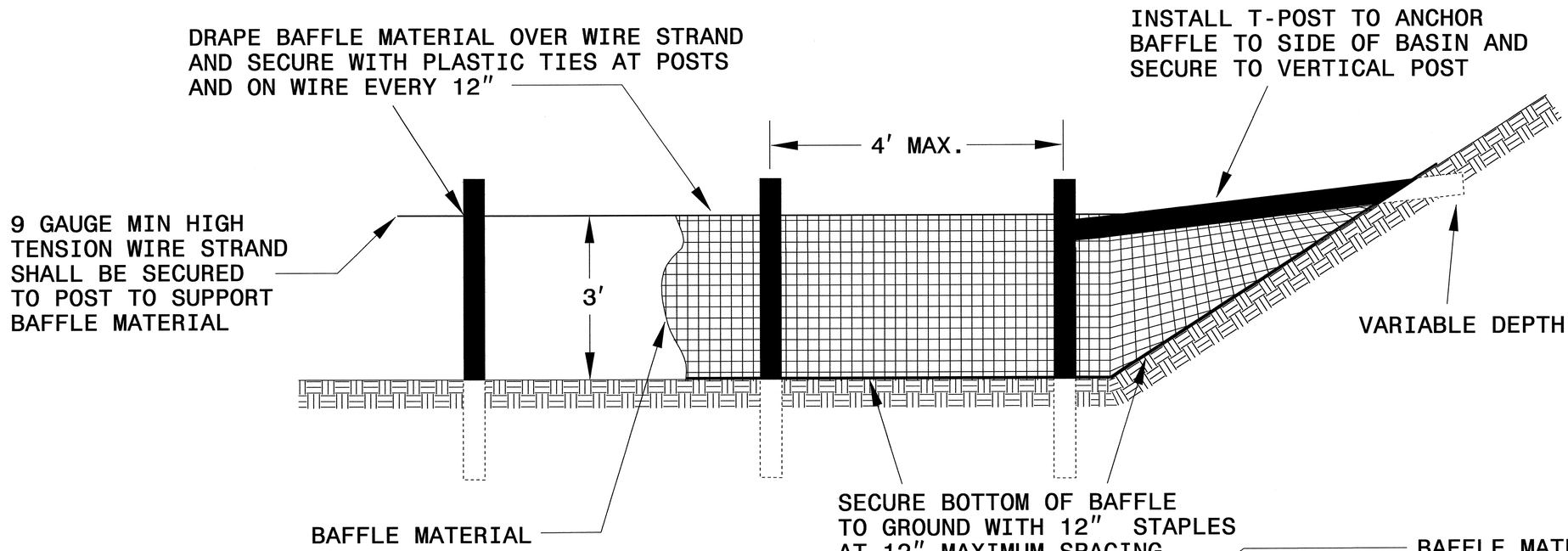
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.

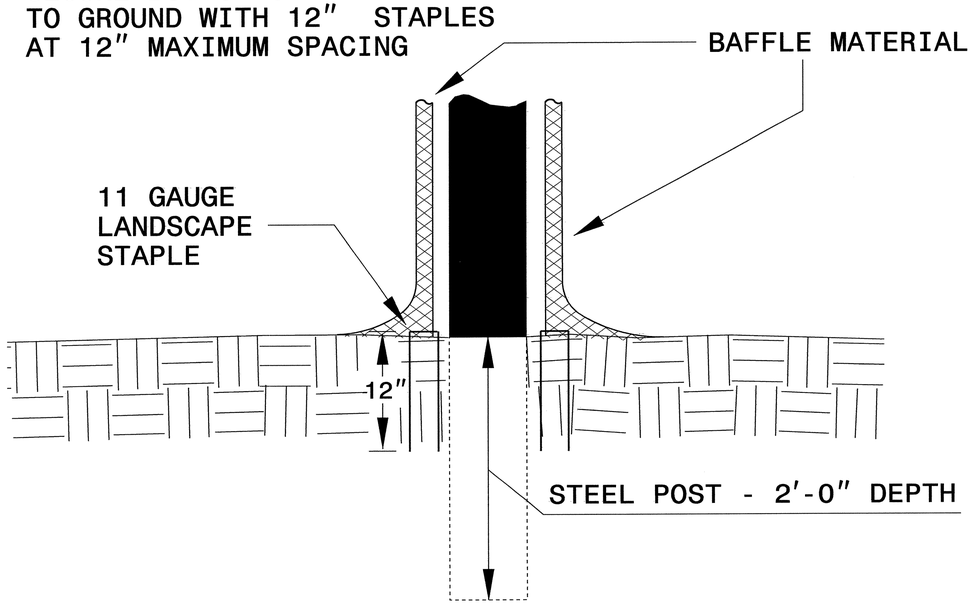


ELEVATION VIEW

PROJECT REFERENCE NO.	SHEET NO.
B-4613	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL



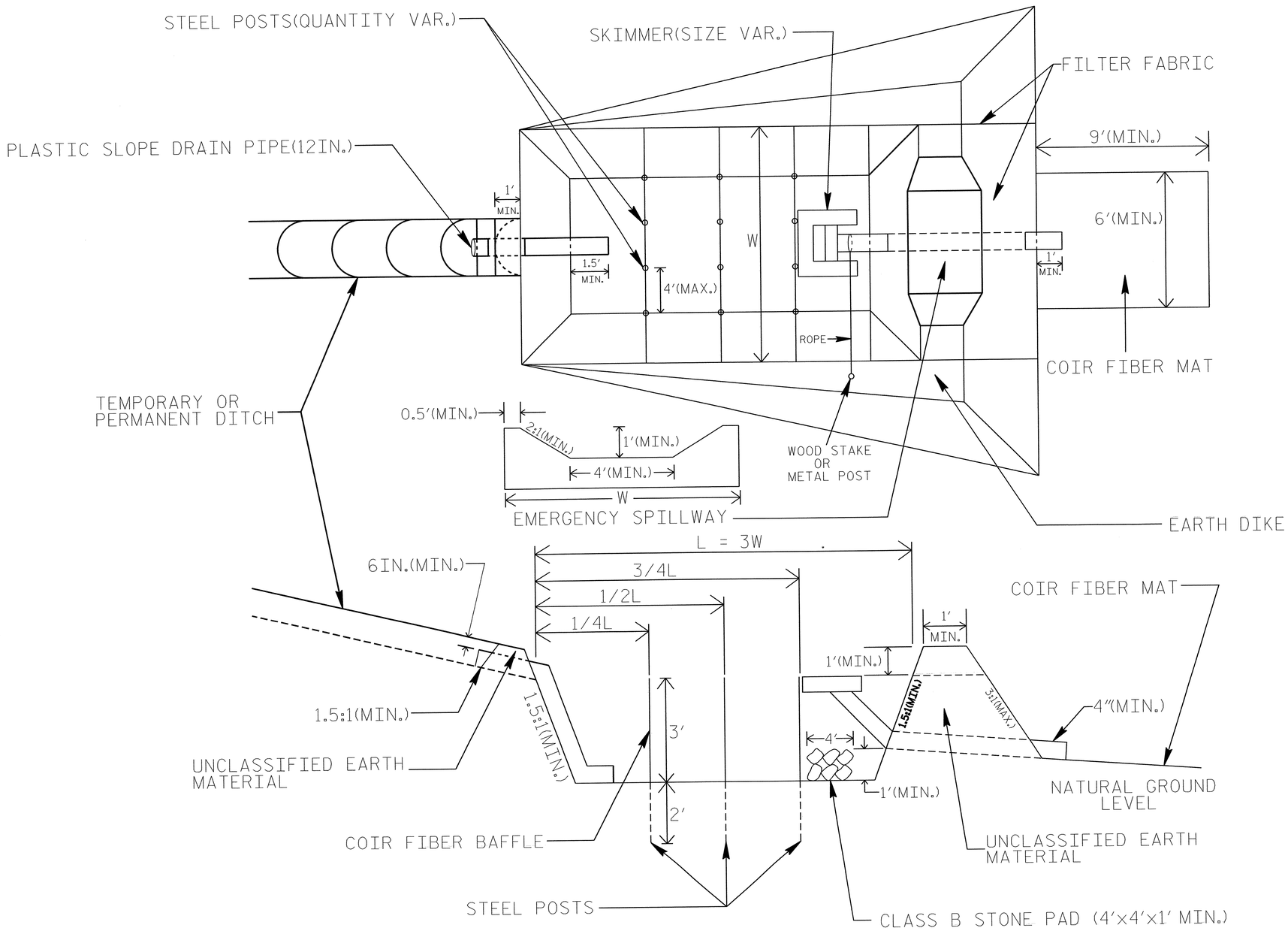


BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12″ LANDSCAPE STAPLES

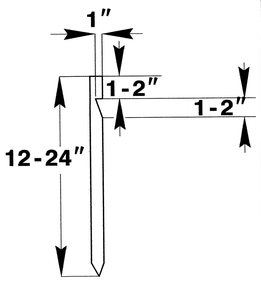
NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF ¼ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF 1/3 THE BASIN LENGTH.

PROJECT REFERENCE NO.	SHEET NO.
B-4613	EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

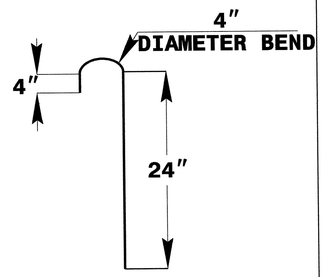
SKIMMER BASIN WITH BAFFLES DETAIL



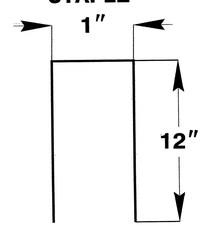
2" x 2" (nominal)
WOODEN STAKE



#10 STEEL
REINFORCEMENT BAR



1" (nominal)
STAPLE



COIR FIBER MAT ANCHOR OPTIONS

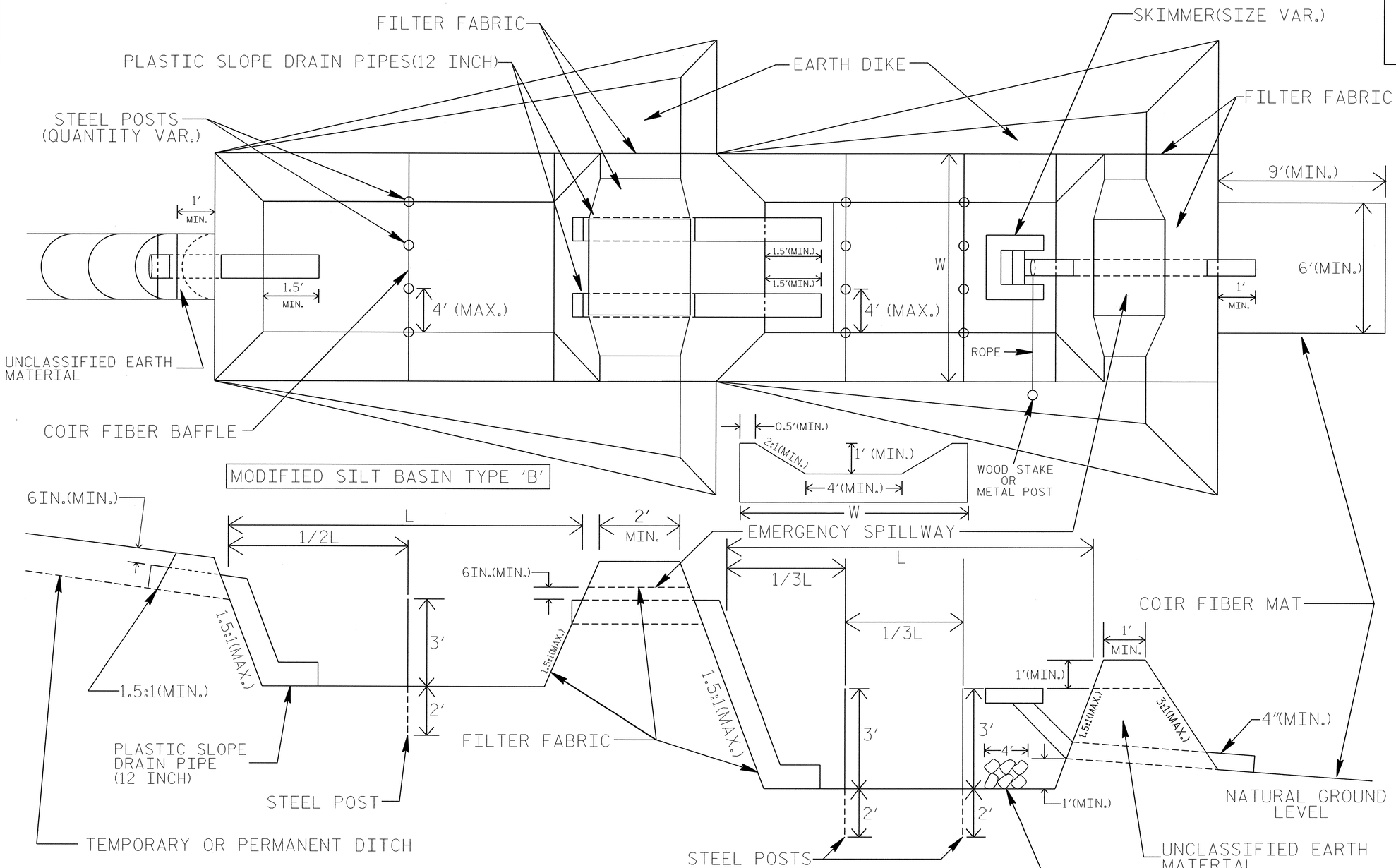
NOTES

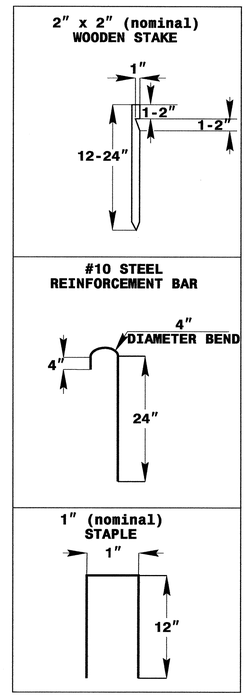
1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE EMERGENCY SPILLWAY LENGTH (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO BASIN.

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
B-4613	EC-2C
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TIERED SKIMMER BASIN DETAIL





COIR FIBER MAT ANCHOR OPTIONS

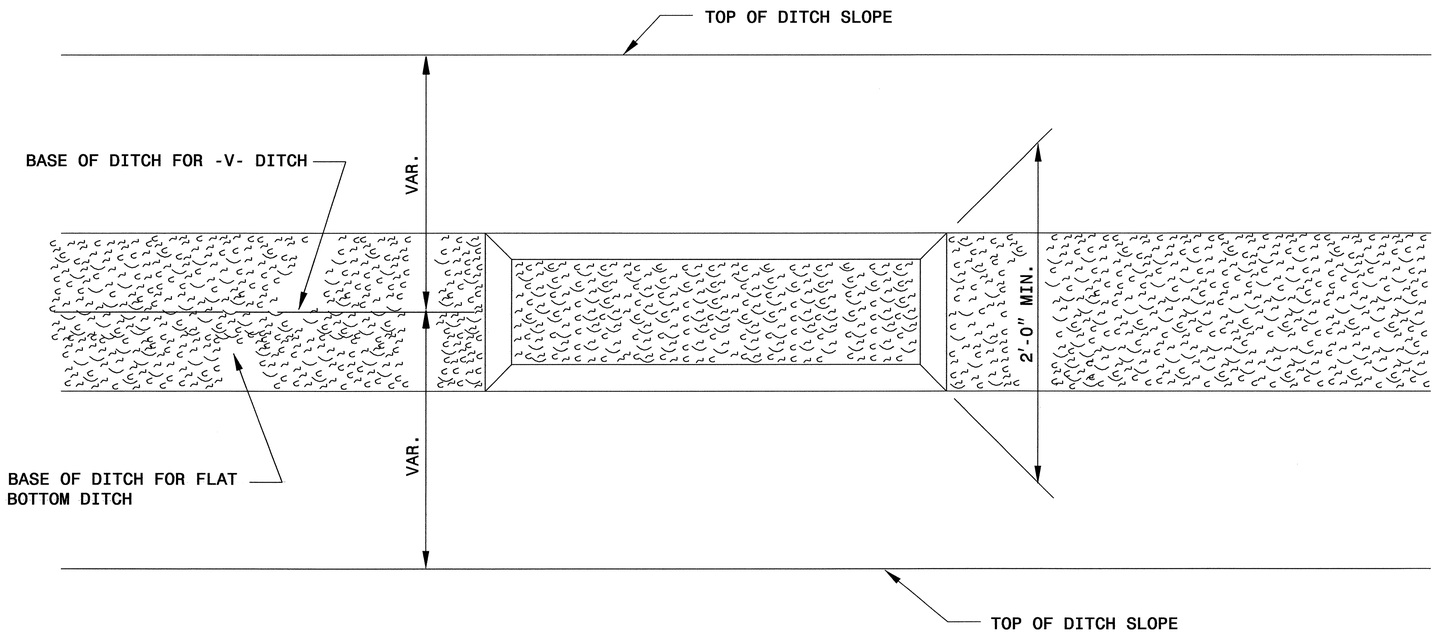
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR SIDESLOPES OF BASINS.
2. LIMIT HEIGHT OF EARTH DIKES TO 5 FT.
3. ADDITIONAL MODIFIED SILT BASINS TYPE 'B' MAY BE NEEDED DEPENDING ON SLOPE.
4. THE MINIMUM BASIN WIDTHS SHALL BE 9 FT.
5. DETERMINE EMERGENCY SPILLWAY LENGTHS (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO UPPER BASIN.

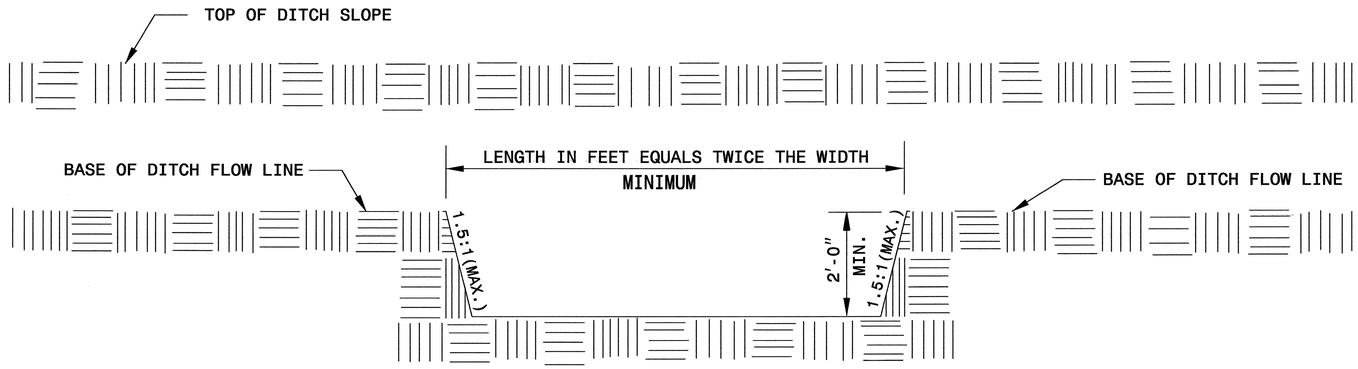
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
B-4613	EC-2D
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SILT BASIN 'B' DETAIL



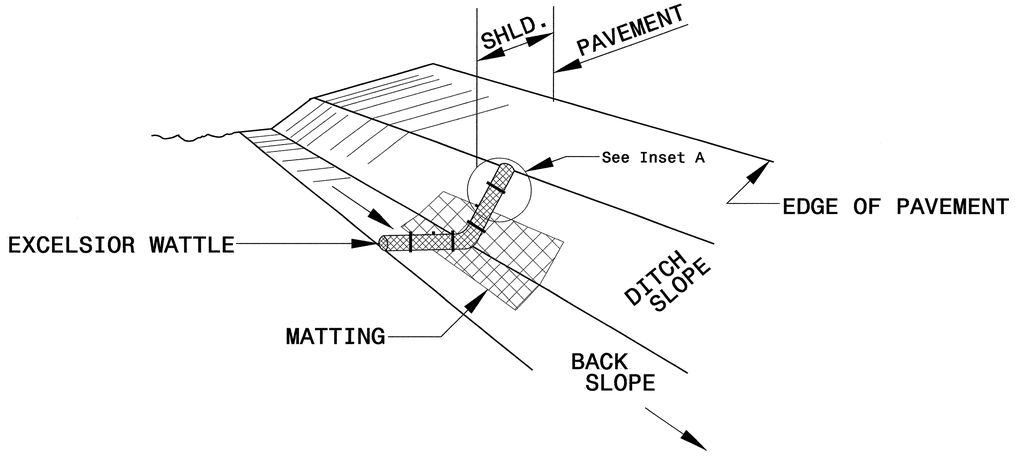
PLAN



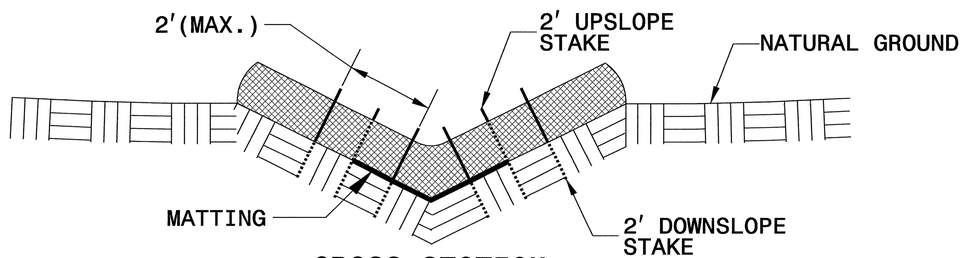
ELEVATION

PROJECT REFERENCE NO.	SHEET NO.
B-4613	EC-2E
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

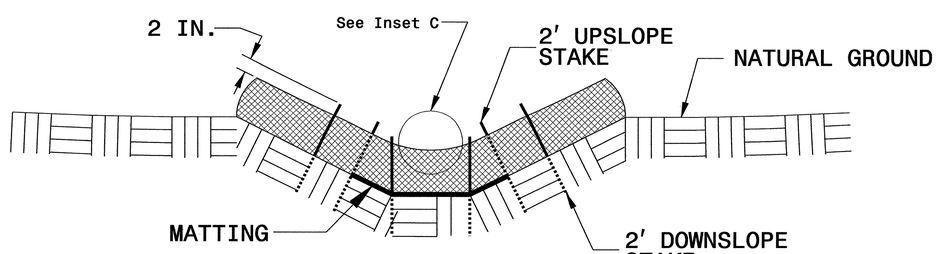
WATTLE WITH POLYACRYLAMIDE DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. CROSS SECTION.

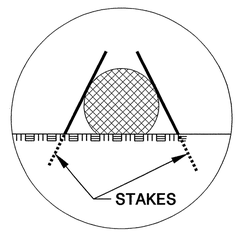
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

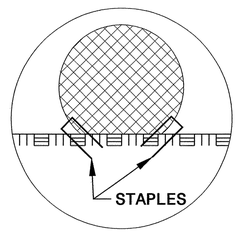
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

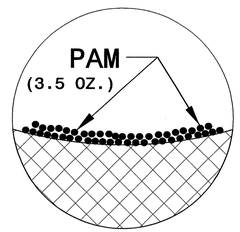
INITIALLY APPLY 3.5 OUNCES OF ANIONIC OR NEUTRALLY CHARGED POLYACRYLAMIDE (PAM) OVER WATTLE WHERE WATER WILL FLOW AND AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.25 IN.



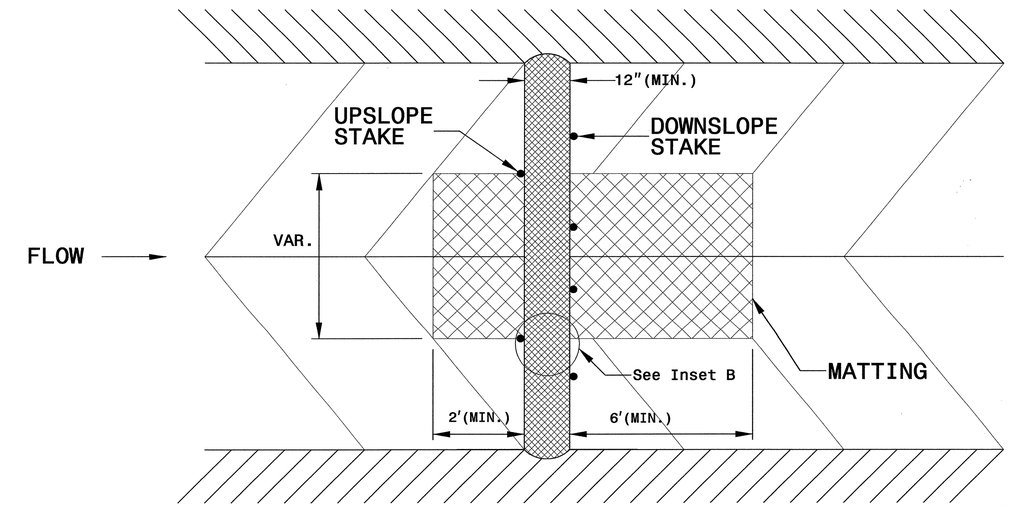
INSET A



INSET B



INSET C



TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
B-4613	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-	16+50	22+50	LT	840
4	-L-	16+50	22+50	RT	735
5	-L-	29+25	30+00	LT	75
5	-L-	29+40	32+20	RT	75
			SUBTOTAL		1725
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					4590
				TOTAL	6315
				SAY	6400

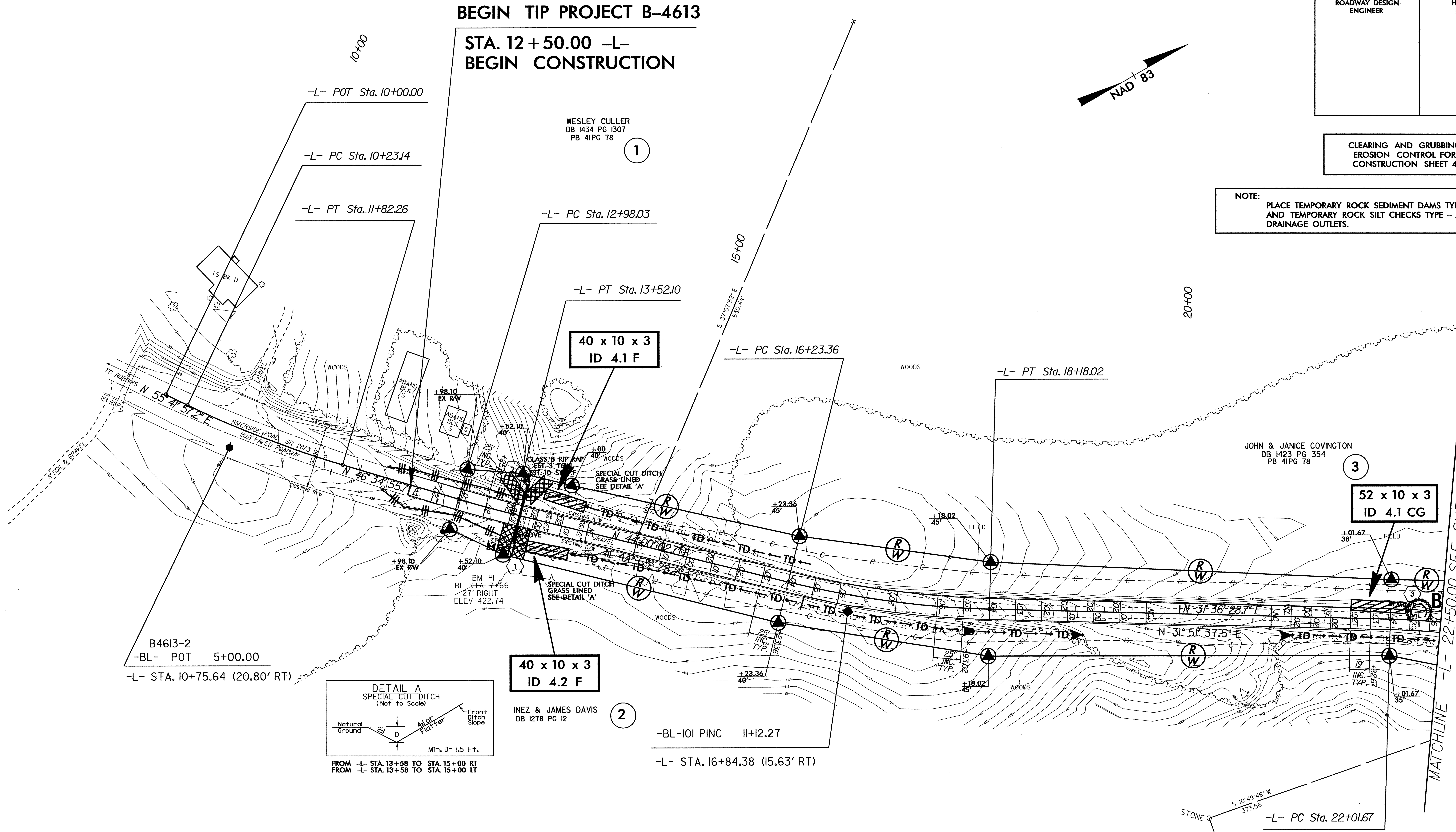
PERMANENT SOIL REINFORCEMENT MAT

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L-	13+58	14+00	RT	60
			SUBTOTAL		60
		ADDITIONAL PSRM TO BE INSTALLED			960
				TOTAL	1020
				SAY	1050

PROJECT REFERENCE NO.	SHEET NO.
B-4613	EC-4/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.



DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED AND VERTICAL CURVE /STOPPING SIGHT DISTANCE (SSD)

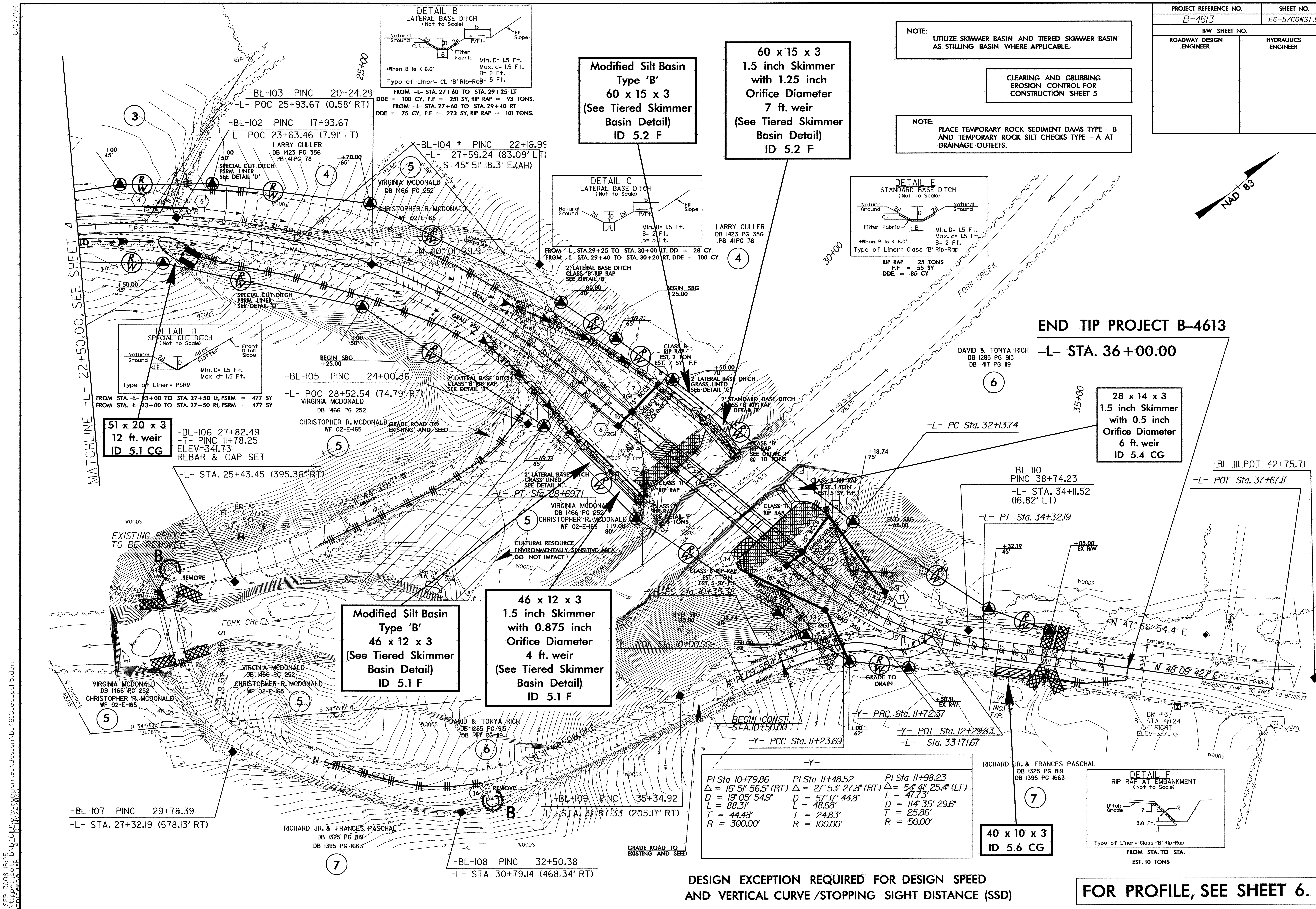
-L-

PI Sta 11+02.87	PI Sta 13+25.07	PI Sta 17+21.07	PI Sta 25+56.55
Δ = 9° 07' 01.5" (LT)	Δ = 2° 34' 53.0" (LT)	Δ = 12° 23' 34.0" (LT)	Δ = 47° 50' 42.9" (RT)
D = 5° 43' 46.5"	D = 4° 46' 28.7"	D = 6° 21' 58.3"	D = 7° 09' 43.1"
L = 159.12'	L = 54.06'	L = 194.67'	L = 668.05'
T = 79.73'	T = 27.04'	T = 97.71'	T = 354.89'
R = 1,000.00'	R = 1,200.00'	R = 900.00'	R = 800.00'
SE = N/A	SE = SEE PLANS	SE = 0.06	SE = 0.06
	V = 35 mph	V = 35 mph	V = 35 mph

FOR PROFILE, SEE SHEET 6.

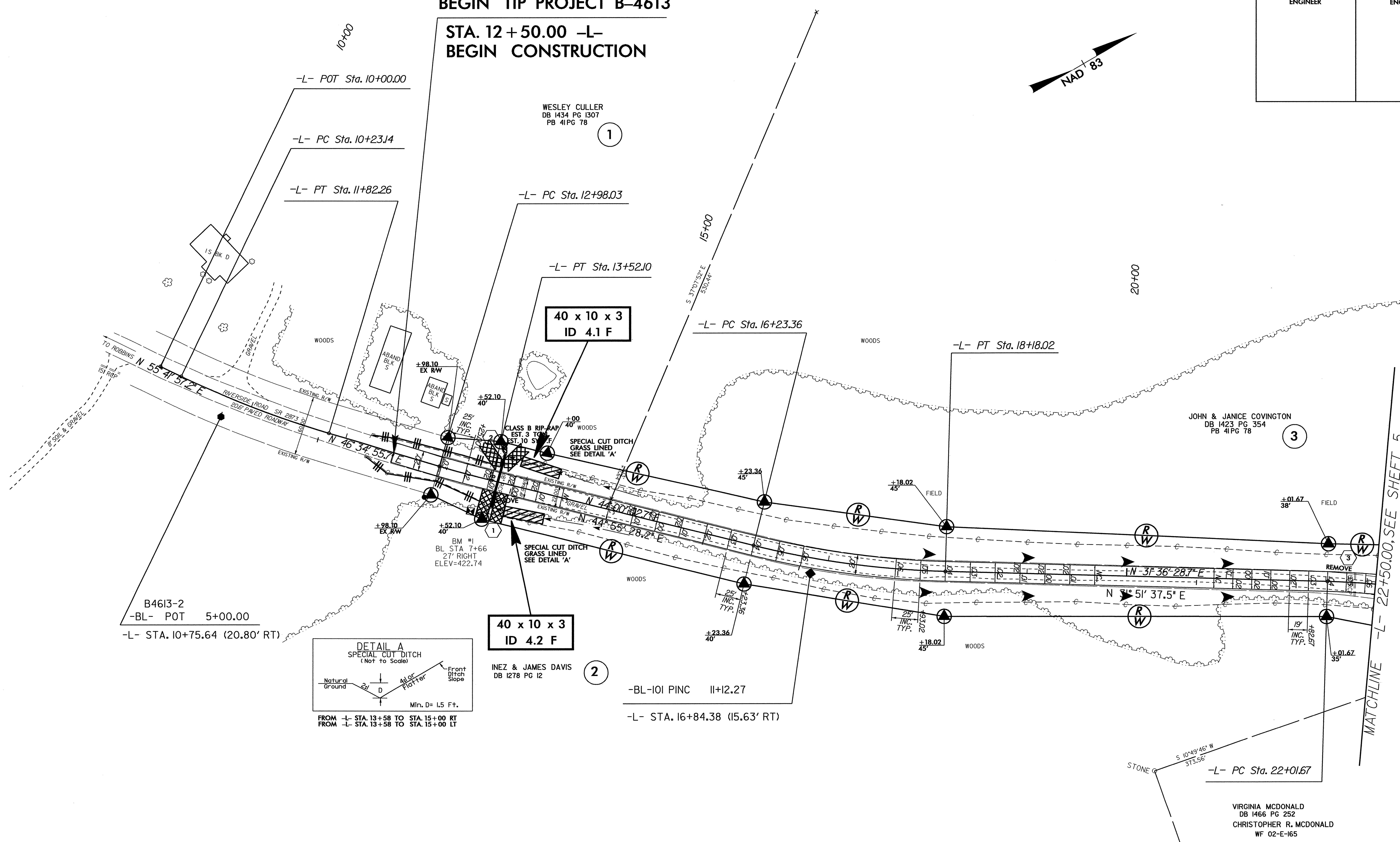
8/17/99

16-SEP-2008 14:36
g:\tip\projects-b\b4613\environmental\design\b_4613_ec_psh4.dgn
jenniferparish AT RENV242003



PROJECT REFERENCE NO. B-4613
SHEET NO. EC-5/CONST.5
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
NOTE: UTILIZE SKIMMER BASIN AND TIERED SKIMMER BASIN AS STILLING BASIN WHERE APPLICABLE.
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.
NAD 83
Modified Silt Basin Type 'B' 60 x 15 x 3 (See Tiered Skimmer Basin Detail) ID 5.2 F
60 x 15 x 3 1.5 inch Skimmer with 1.25 inch Orifice Diameter 7 ft. weir (See Tiered Skimmer Basin Detail) ID 5.2 F
DETAIL B LATERAL BASE DITCH (Not to Scale)
Type of Liner= CL 'B' Rip-Rap
FROM -L- STA. 27+60 TO STA. 29+25 LT DDE = 100 CY, F.F = 251 SY, RIP RAP = 93 TONS.
FROM -L- STA. 27+60 TO STA. 29+40 RT DDE = 75 CY, F.F = 273 SY, RIP RAP = 101 TONS.
DETAIL C LATERAL BASE DITCH (Not to Scale)
FROM -L- STA. 29+25 TO STA. 30+00 LT, DD = 28 CY.
FROM -L- STA. 29+40 TO STA. 30+20 RT, DDE = 100 CY.
DETAIL E STANDARD BASE DITCH (Not to Scale)
Type of Liner= Class 'B' Rip-Rap
RIP RAP = 25 TONS F.F = 55 SY DDE. = 85 CY
DETAIL D SPECIAL CUT DITCH (Not to Scale)
Type of Liner= PSRM
FROM STA. -L- 23+00 TO STA. 27+50 Lt, PSRM = 477 SY
FROM STA. -L- 23+00 TO STA. 27+50 Rt, PSRM = 477 SY
-BL-103 PINC 20+24.29 -L- POC 25+93.67 (0.58' RT)
-BL-102 PINC 17+93.67 -L- POC 23+63.46 (7.91' LT)
-BL-104 PINC 22+16.99 -L- 27+59.24 (83.09' LT) S 45° 51' 18.3" E.(AH)
-BL-105 PINC 24+00.36 -L- POC 28+52.54 (74.79' RT)
-BL-106 27+82.49 -T- PINC 11+78.25 ELEV=341.73 REBAR & CAP SET
-L- STA. 25+43.45 (395.36' RT)
MATCHLINE -L- 22+50.00, SEE SHEET 4
51 x 20 x 3 12 ft. weir ID 5.1 CG
LARRY CULLER DB 1423 PG 356 PB 41 PG 78
VIRGINIA MCDONALD DB 1466 PG 252
CHRISTOPHER R. MCDONALD WF 02-E-165
DAVID & TONYA RICH DB 1285 PG 915 DB 1417 PG 119
RICHARD JR. & FRANCES PASCHAL DB 1325 PG 819 DB 1395 PG 1663
END TIP PROJECT B-4613 -L- STA. 36+00.00
28 x 14 x 3 1.5 inch Skimmer with 0.5 inch Orifice Diameter 6 ft. weir ID 5.4 CG
-BL-110 PINC 38+74.23 -L- STA. 34+11.52 (16.82' LT)
-BL-111 POT 42+75.71
-L- POT Sta. 37+67.11
-L- PC Sta. 32+13.74
-L- PT Sta. 34+32.19
-L- PT Sta. 28+69.71
EXISTING BRIDGE TO BE REMOVED
FORK CREEK
CULTURAL RESOURCE ENVIRONMENTALLY SENSITIVE AREA DO NOT IMPACT
GRADE ROAD TO EXISTING AND SEED
Modified Silt Basin Type 'B' 46 x 12 x 3 (See Tiered Skimmer Basin Detail) ID 5.1 F
46 x 12 x 3 1.5 inch Skimmer with 0.875 inch Orifice Diameter 4 ft. weir (See Tiered Skimmer Basin Detail) ID 5.1 F
-Y- PC Sta. 10+35.38
-Y- POT Sta. 10+00.00
BEGIN CONST. -Y- STA. 10+50.00
-Y- PCC Sta. 11+23.69
-Y- PRC Sta. 11+72.37
-Y- POT Sta. 12+29.83 -L- Sta. 33+71.67
N 47° 56' 54.4" E
N 48° 09' 42.1" E
RIVERSIDE ROAD SR 2873 TO BENNETT
BM #3 BL STA 41+24 54' RIGHT ELEV=384.98
-BL-107 PINC 29+78.39 -L- STA. 27+32.19 (578.13' RT)
-BL-108 PINC 32+50.38 -L- STA. 30+79.14 (468.34' RT)
-BL-109 PINC 35+34.92 -L- STA. 31+87.33 (205.17' RT)
-Y-
PI Sta 10+79.86 Δ = 16° 51' 56.5" (RT) D = 19° 05' 54.9" L = 88.31' T = 44.48' R = 300.00'
PI Sta 11+48.52 Δ = 27° 53' 27.8" (RT) D = 57° 17' 44.8" L = 48.68' T = 24.83' R = 100.00'
PI Sta 11+98.23 Δ = 54° 41' 25.4" (LT) L = 47.73' D = 114° 35' 29.6" T = 25.86' R = 50.00'
40 x 10 x 3 ID 5.6 CG
DETAIL F RIP RAP AT EMBANKMENT (Not to Scale)
Type of Liner= Class 'B' Rip-Rap
FROM STA. TO STA. EST. 10 TONS
DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED AND VERTICAL CURVE /STOPPING SIGHT DISTANCE (SSD)
FOR PROFILE, SEE SHEET 6.
19-SEP-2008 15:25
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
B-4613	EC-6/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



BEGIN TIP PROJECT B-4613
STA. 12+50.00 -L-
BEGIN CONSTRUCTION
NAD 83
WESLEY CULLER
DB 1434 PG 1307
PB 41 PG 78
-L- POT Sta. 10+00.00
-L- PC Sta. 10+23.14
-L- PT Sta. 11+82.26
-L- PC Sta. 12+98.03
-L- PT Sta. 13+52.10
40 x 10 x 3
ID 4.1 F
-L- PC Sta. 16+23.36
-L- PT Sta. 18+18.02
JOHN & JANICE COVINGTON
DB 1423 PG 354
PB 41 PG 78
WOODS
FIELD
TO ROBBINS
N 55° 41' 57.2" E
RIVERSIDE ROAD SR 2873
20.0' PAVED ROADWAY
EXISTING R/W
N 46° 34' 55.7" E
CLASS B RIP-RAP
SPECIAL CUT DITCH
GRASS LINED
SEE DETAIL 'A'
N 44° 07' 27" E
N 44° 55' 28.2" E
N 31° 36' 28.7" E
N 31° 51' 37.5" E
BM #1
BL STA 7+66
27' RIGHT
ELEV=422.74
B4613-2
-BL- POT 5+00.00
-L- STA. 10+75.64 (20.80' RT)
40 x 10 x 3
ID 4.2 F
DETAIL A
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground
Front Ditch Slope
4:1 or Flatter
Min. D= 1.5 Ft.
FROM -L- STA. 13+58 TO STA. 15+00 RT
FROM -L- STA. 13+58 TO STA. 15+00 LT
INEZ & JAMES DAVIS
DB 1278 PG 12
-BL-101 PINC 11+12.27
-L- STA. 16+84.38 (15.63' RT)
REMOVE
MATCHLINE -L- 22+50.00, SEE SHEET 5
STONE
-L- PC Sta. 22+01.67
VIRGINIA MCDONALD
DB 1466 PG 252
CHRISTOPHER R. MCDONALD
WF 02-E-165

DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED AND VERTICAL CURVE /STOPPING SIGHT DISTANCE (SSD)

-L-			
PI Sta 11+02.87	PI Sta 13+25.07	PI Sta 17+21.07	PI Sta 25+56.55
Δ = 9° 07' 01.5" (LT)	Δ = 2° 34' 53.0" (LT)	Δ = 12° 23' 34.0" (LT)	Δ = 47° 50' 42.9" (RT)
D = 5° 43' 46.5"	D = 4° 46' 28.7"	D = 6° 21' 58.3"	D = 7° 09' 43.1"
L = 159.12'	L = 54.06'	L = 194.67'	L = 668.05'
T = 79.73'	T = 27.04'	T = 97.71'	T = 354.89'
R = 1,000.00'	R = 1,200.00'	R = 900.00'	R = 800.00'
SE = N/A	SE = SEE PLANS	SE = 0.06	SE = 0.06
	V = 35 mph	V = 35 mph	V = 35 mph

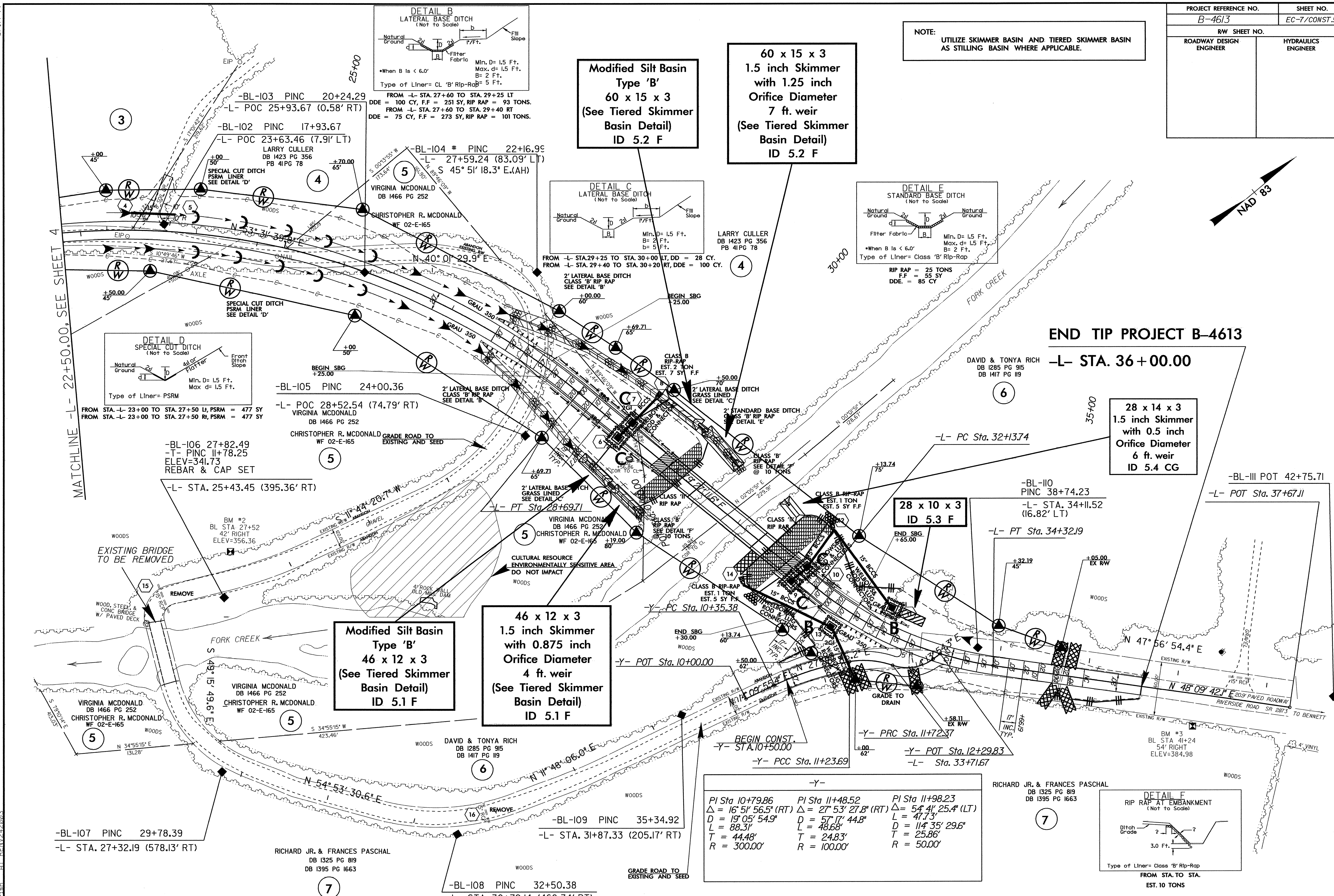
FOR PROFILE, SEE SHEET 6.

8/17/99

16-SEP-2008 14:38
g:\tipprojects\b4613\environmental\design\b_4613_ec_psh4.dgn

PROJECT REFERENCE NO.	SHEET NO.
B-4613	EC-7/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: UTILIZE SKIMMER BASIN AND TIERED SKIMMER BASIN AS STILLING BASIN WHERE APPLICABLE.



DETAIL B
LATERAL BASE DITCH
(Not to Scale)
Type of Liner= CL 'B' Rip-Rap
FROM -L- STA. 27+60 TO STA. 29+25 LT
DDE = 100 CY, F.F = 251 SY, RIP RAP = 93 TONS.
FROM -L- STA. 27+60 TO STA. 29+40 RT
DDE = 75 CY, F.F = 273 SY, RIP RAP = 101 TONS.
Modified Silt Basin
Type 'B'
60 x 15 x 3
(See Tiered Skimmer Basin Detail)
ID 5.2 F
60 x 15 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
7 ft. weir
(See Tiered Skimmer Basin Detail)
ID 5.2 F
DETAIL C
LATERAL BASE DITCH
(Not to Scale)
FROM -L- STA.29+25 TO STA. 30+00 LT, DD = 28 CY.
FROM -L- STA. 29+40 TO STA. 30+20 RT, DDE = 100 CY.
DETAIL E
STANDARD BASE DITCH
(Not to Scale)
Type of Liner= Class 'B' Rip-Rap
RIP RAP = 25 TONS
F.F = 55 SY
DDE. = 85 CY
NAD 83
-BL-103 PINC 20+24.29
-L- POC 25+93.67 (0.58' RT)
-BL-102 PINC 17+93.67
-L- POC 23+63.46 (7.91' LT)
LARRY CULLER
DB 1423 PG 356
PB 41 PG 78
-BL-104 # PINC 22+16.99
-L- 27+59.24 (83.09' LT)
S 45° 51' 18.3" E.(AH)
VIRGINIA MCDONALD
DB 1466 PG 252
CHRISTOPHER R. MCDONALD
WF 02-E-165
N 40° 01' 29.9" E
SPECIAL CUT DITCH
PSRM LINER
SEE DETAIL 'D'
MATCHLINE -L- 22+50.00, SEE SHEET 4
DETAIL D
SPECIAL CUT DITCH
(Not to Scale)
Type of Liner= PSRM
FROM STA. -L- 23+00 TO STA. 27+50 Lt, PSRM = 477 SY
FROM STA. -L- 23+00 TO STA. 27+50 Rt, PSRM = 477 SY
-BL-105 PINC 24+00.36
-L- POC 28+52.54 (74.79' RT)
-BL-106 27+82.49
-T- PINC 11+78.25
ELEV=341.73
REBAR & CAP SET
-L- STA. 25+43.45 (395.36' RT)
GRADE ROAD TO EXISTING AND SEED
2' LATERAL BASE DITCH
CLASS 'B' RIP RAP
SEE DETAIL 'B'
2' STANDARD BASE DITCH
CLASS 'B' RIP RAP
SEE DETAIL 'E'
FORK CREEK
END TIP PROJECT B-4613
-L- STA. 36+00.00
DAVID & TONYA RICH
DB 1285 PG 915
DB 1417 PG 119
28 x 14 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
6 ft. weir
ID 5.4 CG
-L- PC Sta. 32+13.74
-BL-110
PINC 38+74.23
-L- STA. 34+11.52
(16.82' LT)
-BL-111 POT 42+75.71
-L- POT Sta. 37+67.11
28 x 10 x 3
ID 5.3 F
-L- PT Sta. 34+32.19
-L- PT Sta. 28+69.71
BM #2
BL STA 27+52
42' RIGHT
ELEV=356.36
EXISTING BRIDGE
TO BE REMOVED
CULTURAL RESOURCE
ENVIRONMENTALLY SENSITIVE AREA
DO NOT IMPACT
Modified Silt Basin
Type 'B'
46 x 12 x 3
(See Tiered Skimmer Basin Detail)
ID 5.1 F
46 x 12 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
4 ft. weir
(See Tiered Skimmer Basin Detail)
ID 5.1 F
-Y- PC Sta. 10+35.38
-Y- POT Sta. 10+00.00
BEGIN CONST.
-Y- STA.10+50.00
-Y- PCC Sta. 11+23.69
-Y- PRC Sta. 11+72.37
-Y- POT Sta. 12+29.83
-L- Sta. 33+71.67
N 47° 56' 54.4" E
N 48° 09' 42.1" E
RIVERSIDE ROAD SR 2873
TO BENNETT
BM #3
BL STA 41+24
54' RIGHT
ELEV=384.98
VIRGINIA MCDONALD
DB 1466 PG 252
CHRISTOPHER R. MCDONALD
WF 02-E-165
N 54° 53' 30.6" E
N 11° 48' 06.0" E
-BL-107 PINC 29+78.39
-L- STA. 27+32.19 (578.13' RT)
-BL-108 PINC 32+50.38
-L- STA. 30+79.14 (468.34' RT)
-BL-109 PINC 35+34.92
-L- STA. 31+87.33 (205.17' RT)
RICHARD JR. & FRANCES PASCHAL
DB 1325 PG 819
DB 1395 PG 1663
DETAIL F
RIP RAP AT EMBANKMENT
(Not to Scale)
Type of Liner= Class 'B' Rip-Rap
FROM STA. TO STA.
EST. 10 TONS

-Y-

PI Sta 10+79.86	PI Sta 11+48.52	PI Sta 11+98.23
△ = 16° 51' 56.5" (RT)	△ = 27° 53' 27.8" (RT)	△ = 54° 41' 25.4" (LT)
D = 19° 05' 54.9"	D = 57° 17' 44.8"	D = 114° 35' 29.6"
L = 88.31'	L = 48.68'	L = 47.73'
T = 44.48'	T = 24.83'	T = 25.86'
R = 300.00'	R = 100.00'	R = 50.00'

DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED AND VERTICAL CURVE /STOPPING SIGHT DISTANCE (SSD)

FOR PROFILE, SEE SHEET 6.

19-SEP-2008 15:43
g:\tip\projects\b\b4613\environmental\design\b_4613_ec_psh5.dgn

8/17/99