PROJECT: B–4744

TIP #

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4744	EC-1	

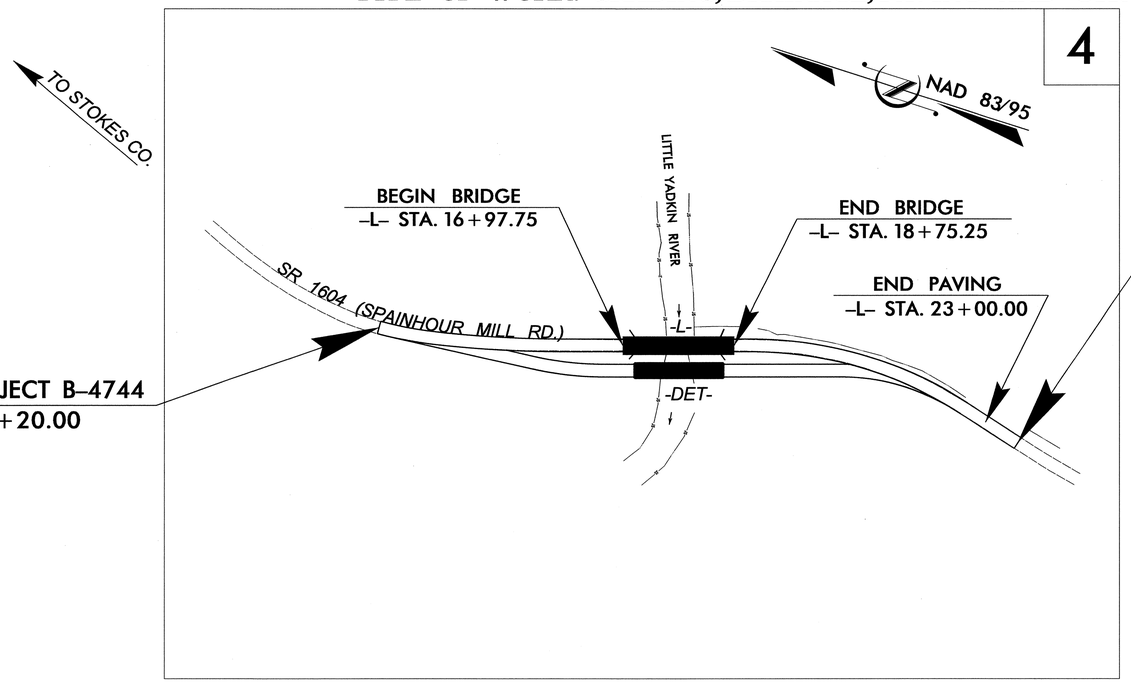
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

FORSYTH COUNTY

LOCATION: BRIDGE #15 OVER LITTLE YADKIN RIVER
ON SR 1604 (SPAINHOUR MILL RD.)
TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE



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	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle / Coir Fiber Wattle	EW CFW
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	
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

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG–010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared In the Office of:

ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611

2012 STANDARD SPECIFICATIONS

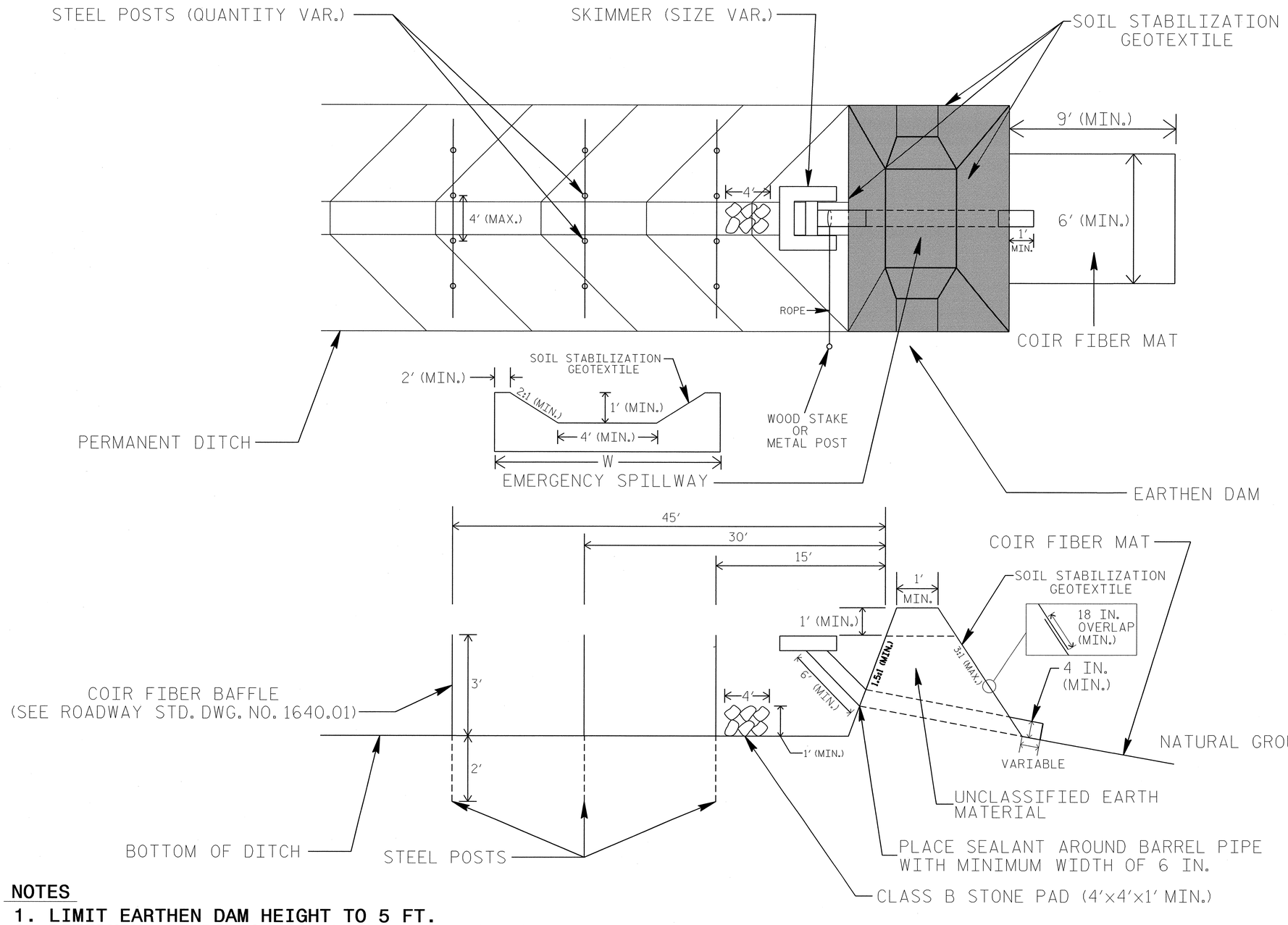
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated January 2012 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

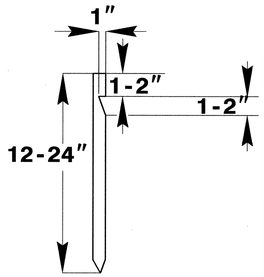
1604.01	Railroad Erosion Control Detail	1632.01	Rock Inlet Sediment Trap Type A
1605.01	Temporary Silt Fence	1632.02	Rock Inlet Sediment Trap Type B
1606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type A
1622.01	Temporary Berms and Slope Drains	1633.02	Temporary Rock Silt Check Type B
1630.01	Riser Basin	1634.01	Temporary Rock Sediment Dam Type A
1630.02	Silt Basin Type B	1634.02	Temporary Rock Sediment Dam Type B
1630.03	Temporary Silt Ditch	1635.01	Rock Pipe Inlet Sediment Trap Type A
1630.04	Stilling Basin	1635.02	Rock Pipe Inlet Sediment Trap Type B
1630.05	Temporary Diversion	1640.01	Coir Fiber Baffle
1630.06	Special Stilling Basin	1645.01	Temporary Stream Crossing
1631.01	Matting Installation		

PROJECT REFERENCE NO.	SHEET NO.
B-4744	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

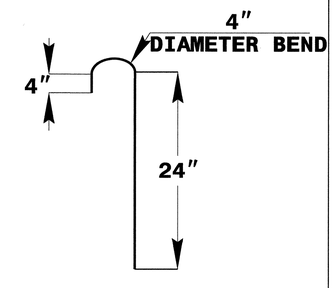
EARTHEN DAM WITH SKIMMER



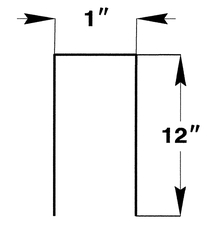
2″ x 2″ (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1″ (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

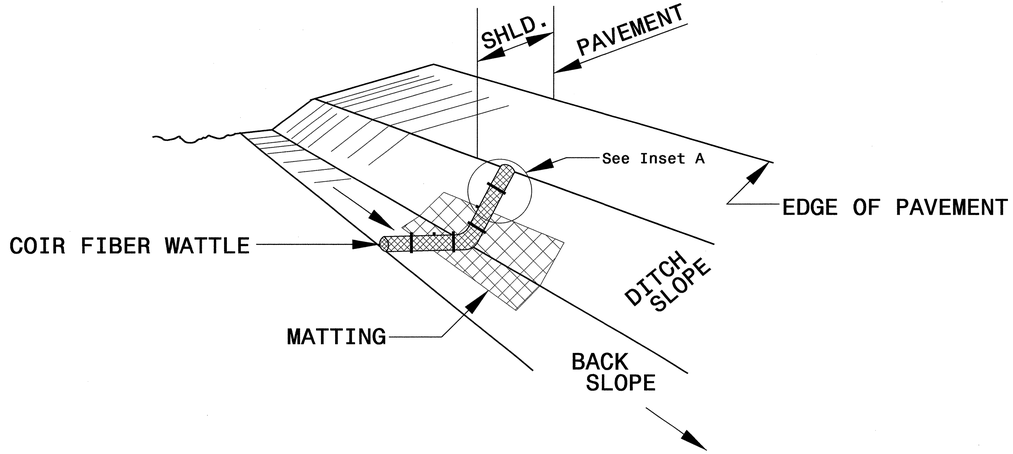
NOTES

1. LIMIT EARTHEN DAM HEIGHT TO 5 FT.
2. DETERMINE EMERGENCY SPILLWAY LENGTH (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
3. SOIL STABILIZATION GEOTEXTILE FOR EMERGENCY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

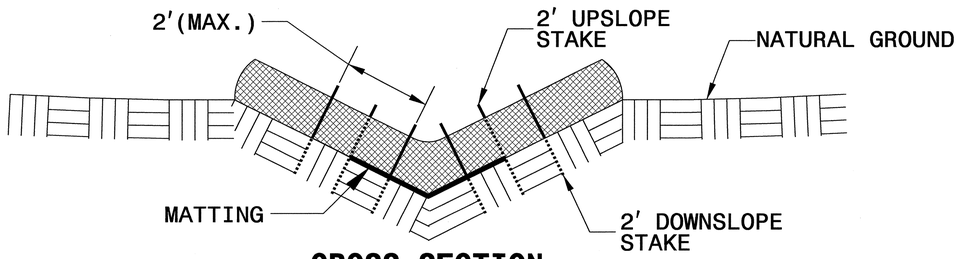
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
B-4744	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

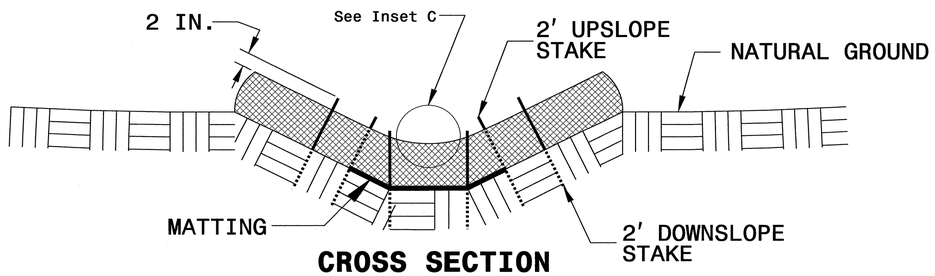
COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

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

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

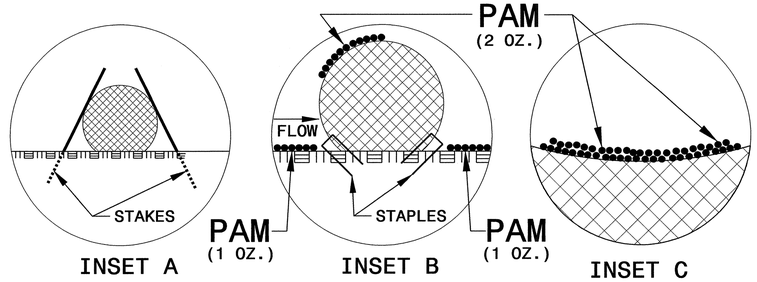
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

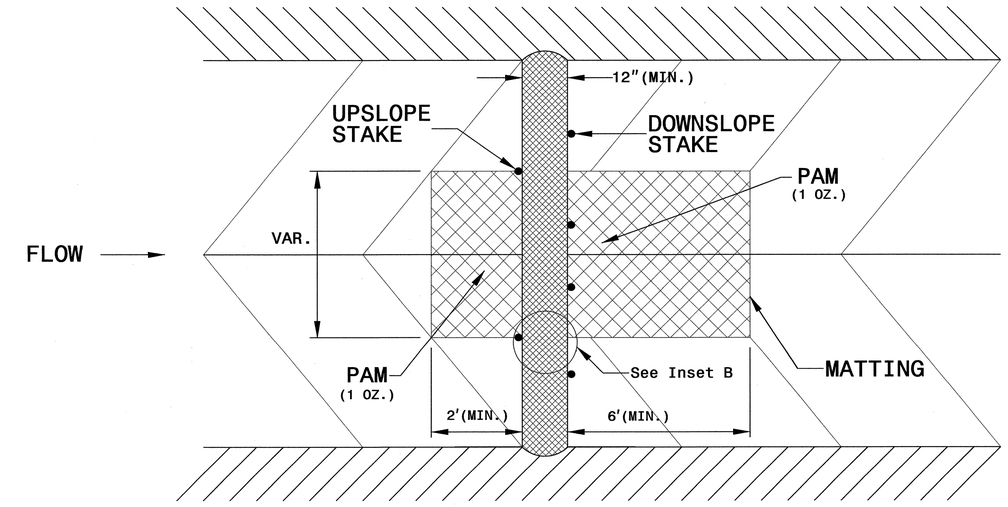
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.

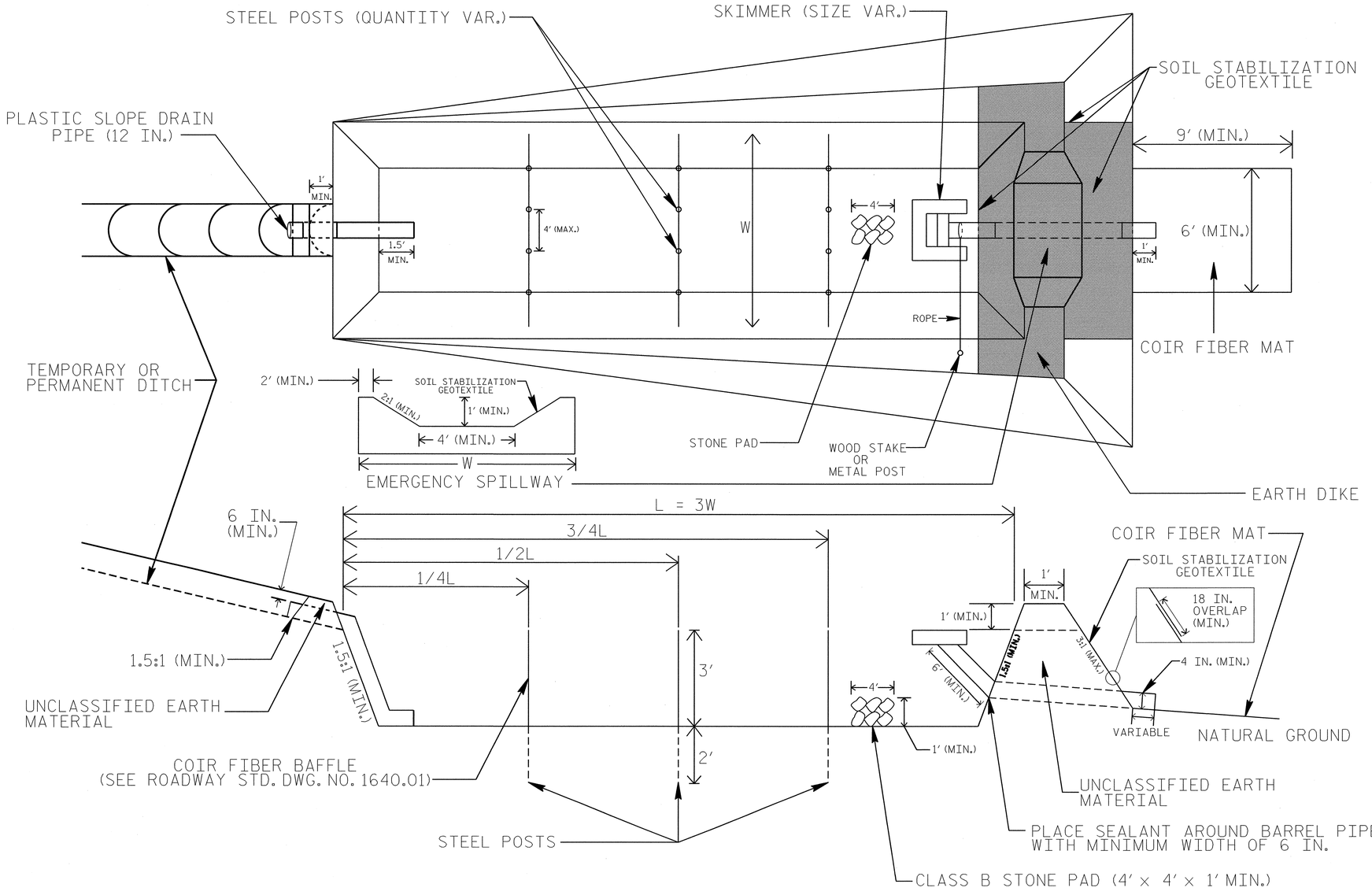




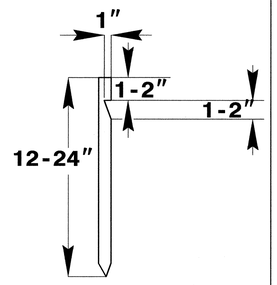
TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
B-4744	EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

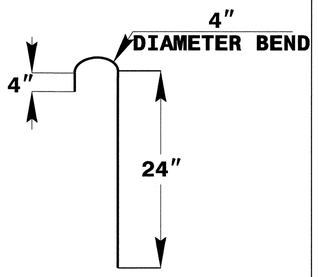
SKIMMER BASIN WITH BAFFLES DETAIL



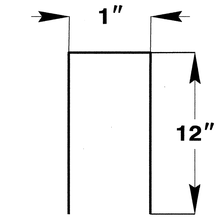
2" x 2" (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1" (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE EMERGENCY SPILLWAY WEIR LENGTH (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE OR TARP AS DIRECTED.
6. SOIL STABILIZATION GEOTEXTILE FOR EMERGENCY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
B-4744	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

PERMANENT SOIL REINFORCEMENT MAT

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	L	13+25	13+50	LT	10
4	L	13+25	14+75	RT	160
4	L	14+25	16+00	LT	310
4	L	19+75	22+75	LT	420
4	DRV3	10+60	10+80	MED	20
			SUBTOTAL		920
	ADDITIONAL	PSRM TO	BE INSTALLED		135
				TOTAL	1055
				SAY	1100

PERMANENT SOIL REINFORCEMENT MAT

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

PROJECT REFERENCE NO.	SHEET NO.
B-4744	EC-3A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

8/17/99

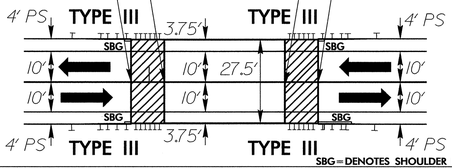
PROJECT REFERENCE NO.	SHEET NO.
B-4744	EC-4/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

BEGIN BRIDGE
–L– STA. 16+97.75

APPROACH SLAB
–L– STA. 16+86.75

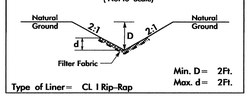
END BRIDGE
–L– STA. 18+75.25

APPROACH SLAB
–L– STA. 18+86.25



Sketch of Pavement in Relation to Bridge

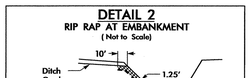
DETAIL 1
STANDARD 'V' DITCH
(Not to Scale)



Type of Liner= CL I Rip-Rap

FROM –L– STA. 16+85 TO STA. 17+43 Lt.
FROM –L– STA. 18+31 TO STA. 19+75 Lt.

DETAIL 2
RIP RAP AT EMBANKMENT
(Not to Scale)



Type of Liner & Filter Fabric: See Station Ranges

AT –L– STA. 17+50 Lt. 15 TONS CL I RIP RAP; 65 sy FF
AT –L– STA. 18+25 Lt. 12 TONS CL I RIP RAP; 40 sy FF

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

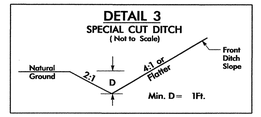
INSTALL DRIVEWAY PIPES DURING CLEARING & GRUBBING PHASE

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

NAD 83/95

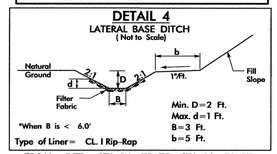
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

DETAIL 3
SPECIAL CUT DITCH
(Not to Scale)



FROM –DET– STA. 10+00 TO STA. 11+50 RT
(–L– STA 13+46.40 TO 14+94.91 RT)

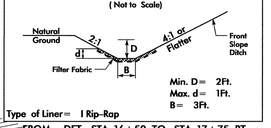
DETAIL 4
LATERAL BASE DITCH
(Not to Scale)



*When B is < 6.0'
Type of Liner= CL I Rip-Rap

FROM –DET– STA. 14+75 TO STA. 16+50 RT
(–L– STA 18+16.27 TO 19+96.53 RT)

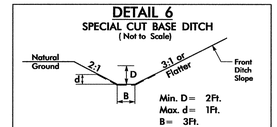
DETAIL 5
SPECIAL CUT BASE DITCH
(Not to Scale)



Type of Liner= I Rip-Rap

FROM –DET– STA. 16+50 TO STA. 17+75 RT
(–L– STA 19+96.53 TO 21+23.55 RT)

DETAIL 6
SPECIAL CUT BASE DITCH
(Not to Scale)



Type of Liner= PSRM

FROM –DET– STA. 17+75 TO STA. 18+98.44 RT
(–L– STA 21+23.55 TO 22+47.14)

34 x 17 x 3
1.5 inch Skimmer with 0.625 inch Orifice Diameter
9 ft. weir
ID 4.1C

30 x 15 x 3
1.5 inch Skimmer with 0.5 inch Orifice Diameter
7 ft. weir
ID 4.2C

50 x 15 x 3
1.5 inch Skimmer with 0.625 inch Orifice Diameter
7 ft. weir
ID 4.4C

36 x 18 x 3
1.5 inch Skimmer with 0.625 inch Orifice Diameter
10 ft. weir
ID 4.5C

BEGIN TIP PROJECT B-4744
–L– STA. 13+20.00

END TIP PROJECT B-4744
L– STA. 23+60.00

BEGIN CONSTRUCTION
–DRV2– PC Sta. 10+65.00
(SEE DETAIL SHEET 2–B)

END CONSTRUCTION
–DRV3– PT Sta. 11+90.00
(SEE DETAIL SHEET 2–B)

END CONSTRUCTION
–DRV1– Sta. 11+00.00
(SEE DETAIL SHEET 2–B)

–L– PC Sta. 10+00.00
–L– PT Sta. 10+50.00
–L– PCC Sta. 14+05.78
PC Sta. 10+00.00
–L– PC Sta. 11+02.39
–L– PT Sta. 16+14.56
–L– PC Sta. 19+05.35
–L– PT Sta. 22+59.88
BEGIN BRIDGE –L– STA. 16+97.75
END BRIDGE –L– STA. 18+75.25
BEGIN APPROACH SLAB –L– STA. 16+86.75
END APPROACH SLAB –L– STA. 18+86.25
–DRV2– PC Sta. 11+12.70
–DRV3– POT Sta. 10+00.00
–DRV3– POT Sta. 12+35.02
–DRV1– POT Sta. 11+49.17
–DRV1– POT Sta. 11+47.66
–L– POC Sta. 15+39.64
–DRV1– POT Sta. 15+85.00

–L–				
PI Sta 10+25.01 △ = 2° 51' 53.2" (LT) D = 5° 43' 46.5" L = 50.00' T = 25.01' R = 1,000.00'	PI Sta 12+58.21 △ = 32° 11' 25.1" (LT) D = 10° 36' 37.2" L = 303.39' T = 155.81' R = 540.00' e = 0.06 FT/FT	PI Sta 15+10.28 △ = 6° 27' 57.4" (LT) D = 3° 05' 49.4" L = 208.78' T = 104.50' R = 1,850.00' e = 0.06 FT/FT R0 = SEE PLANS	PI Sta 20+87.61 △ = 32° 45' 49.5" (RT) D = 9° 14' 28.5" L = 354.54' T = 182.26' R = 620.00' e = 0.06 FT/FT R0 = SEE PLANS	PI Sta 24+32 △ = 4° 17' 09.4" (LT) D = 5° 43' 46.5" L = 74.80' T = 37.42' R = 1,000.00'

–DRV1–	–DRV2–	–DRV3–
SEE DETAIL SHEET 2-B FOR –DRV1– CURVE DATA	SEE DETAIL SHEET 2-B FOR –DRV2– CURVE DATA	SEE DETAIL SHEET 2-B FOR –DRV3– CURVE DATA

NOTE:
SEE SHEET NO. 5 FOR –DET– ALIGNMENT
SEE SHEET NO. 6 PROFILES
SEE SHEET NO. 2–B FOR DRIVEWAY DETAILS
SEE SHEET S1 THRU. S– FOR STRUCTURE PLANS

NOAH GATES AND WIFE BETH GATES DB 2078 PG 3442
STEVEN K. ABEE AND WIFE, SUSAN R. WINKLER-ABEE
JOE SPANGLER AND WIFE JANET M. SPANGLER DB 1826 PG 19
JOE SPANGLER AND WIFE JANET M. SPANGLER DB 1935 PG 540
STEVEN KERR ABEE AND WIFE SUSAN RENEE WINKLER-ABEE DB 2809 PG 3539
SANDRA M. RANNELLS DB 2872 PG 2389
DALLAS M. BUTNER AND SHERRY A. BUTNER DB 2447 PG 1457

24-OCT-2016 07:53
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w:\chandler1 at RENV247778

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
B-4744	EC-5/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-DETOUR-

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

NAD 83/95

34 x 17 x 3
1.5 inch Skimmer with 0.625 inch Orifice Diameter
9 ft. weir
ID 4.1C

30 x 15 x 3
1.5 inch Skimmer with 0.5 inch Orifice Diameter
7 ft. weir
ID 4.2C

50 x 15 x 3
1.5 inch Skimmer with 0.625 inch Orifice Diameter
7 ft. weir
ID 4.4C

1.5 inch Skimmer with 0.75 inch Orifice Diameter
20 ft. weir with 5.25 ft. weir height
ID 4.3F
(See Earthen Dam with Skimmer Detail)

-L- PC Sta. 10+00.00
-L- PT Sta. 10+50.00
-L- PC Sta. 11+02.39
-L- PCC Sta. 14+05.78
-DET- PC Sta. 12+23.20
-L- PT Sta. 16+14.56
-L- PC Sta. 19+05.35
-L- PT Sta. 22+59.88
-DET- POT Sta. 10+00.00
-DRV1- POT Sta. 11+49.17
-L- POC Sta. 15+39.64
-DRV1- POT Sta. 10+00.00
-DET- PT Sta. 13+34.61
-DET- PC Sta. 17+05.50
-DET- PT Sta. 18+98.45
-L- PC Sta. 23+95.48
-L- PT Sta. 24+70.29

BEGIN BRIDGE
-DET- STA. 13+62.00

END BRIDGE
-DET- STA. 15+22.00

END CONSTRUCTION
-DRV1- Sta. 11+00.00
(SEE DETAIL SHEET 2-B)

BUILD DITCH WITH DETOUR KEEP AS PERMANENT DITCH
SPECIAL CUT DITCH
SEE DETAIL 3

BUILD DITCH WITH DETOUR KEEP AS PERMANENT DITCH
SEE DETAIL 4
LATERAL BASE DITCH
W/CL I RIP RAP

BUILD DITCH WITH DETOUR KEEP AS PERMANENT DITCH
SEE DETAIL 5
SPECIAL CUT BASE DITCH
W/CL I RIP RAP

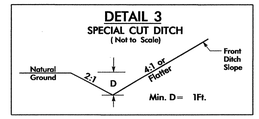
BUILD DITCH WITH DETOUR KEEP AS PERMANENT DITCH
SEE DETAIL 6
SPECIAL CUT BASE DITCH
W/PSRM

INSTALL RIP RAP WITH DETOUR KEEP AS PERMANENT EROSION CONTROL MEASURE
SLOPE PROTECTION
CLASS I RIP RAP
EST 55 TONS
EST 140 SY FF

GRADE TO DRAIN PLACE APPROX 30 SY PSRM ON SLOPE

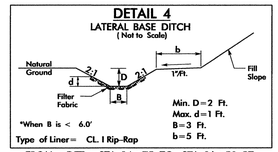
REMOVE TSD

DETAIL 3
SPECIAL CUT DITCH
(Not to Scale)



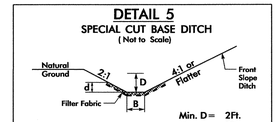
FROM -DET- STA. 10+00 TO STA. 11+50 RT
(-L- STA 13+46.40 TO 14+94.91 RT)

DETAIL 4
LATERAL BASE DITCH
(Not to Scale)



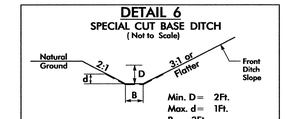
FROM -DET- STA. 14+75 TO STA. 16+50 RT
(-L- STA 18+16.27 TO 19+96.53 RT)

DETAIL 5
SPECIAL CUT BASE DITCH
(Not to Scale)



FROM -DET- STA. 16+50 TO STA. 17+75 RT
(-L- STA 19+96.53 TO 21+23.55 RT)

DETAIL 6
SPECIAL CUT BASE DITCH
(Not to Scale)



FROM -DET- STA. 17+75 TO STA. 18+98.44 RT
(-L- STA 21+23.55 TO 22+47.14)

-L-	-DRV1-	-DET-	
SEE SHEET 4 FOR -L- LINE CURVE DATA	SEE DETAIL SHEET 2-B FOR -DRV1- CURVE DATA	PI Sta 12+79.13 Δ = 12° 45' 59.4" (LT) D = 11° 27' 33.0" L = 111.41' T = 55.94' R = 500.00'	PI Sta 18+04.49 Δ = 31° 35' 10.8" (RT) D = 16° 22' 12.8" L = 192.95' T = 98.99' R = 350.00'

NOTE:
SEE SHEET NO. 7 FOR PROFILES
SEE SHEET NO. 2-B FOR DRIVEWAY DETAILS
SEE SHEET S1 THRU. S- FOR STRUCTURE PLANS

24-OCT-2012 08:31 \Design\B-4744_EC_dsn_pshS.dgn
\\Client\Common\Projects\B-4744\Design\Roadway\Plans\B-4744_EC_dsn_pshS.dgn
User: rbrown1

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
B-4744	EC-6/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

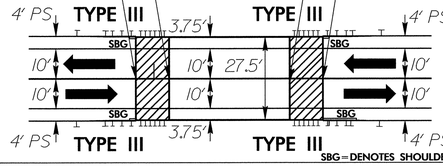
NAD 83/95

BEGIN BRIDGE
–L– STA. 16+97.75

APPROACH SLAB
–L– STA. 16+86.75

END BRIDGE
–L– STA. 18+75.25

APPROACH SLAB
–L– STA. 18+86.25



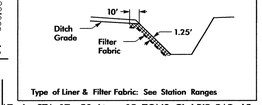
Sketch of Pavement in Relation to Bridge

DETAIL 1
STANDARD 'V' DITCH
(Not to Scale)

Type of Liner= CL I Rip-Rap
Min. D= 2Ft.
Max. d= 2Ft.

FROM –L– STA. 16+85 TO STA. 17+43 Lt.
FROM –L– STA. 18+31 TO STA. 19+75 Lt.

DETAIL 2
RIP RAP AT EMBANKMENT
(Not to Scale)



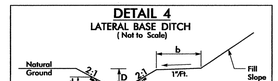
Type of Liner & Filter Fabric: See Station Ranges

AT –L– STA. 17+50 Lt. 15 TONS CL I RIP RAP; 65 sy FF
AT –L– STA. 18+25 Lt. 12 TONS CL I RIP RAP; 40 sy FF

DETAIL 3
SPECIAL CUT DITCH
(Not to Scale)

FROM –DET– STA. 10+00 TO STA. 11+50 RT
(–L– STA 13+46.40 TO 14+94.91 RT)

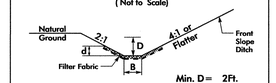
DETAIL 4
LATERAL BASE DITCH
(Not to Scale)



Type of Liner= CL I Rip-Rap

FROM –DET– STA. 14+75 TO STA. 16+50 RT
(–L– STA 18+16.27 TO 19+96.53 RT)

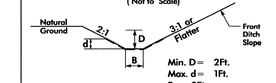
DETAIL 5
SPECIAL CUT BASE DITCH
(Not to Scale)



Type of Liner= I Rip-Rap

FROM –DET– STA. 16+50 TO STA. 17+75 RT
(–L– STA 19+96.53 TO 21+23.55 RT)

DETAIL 6
SPECIAL CUT BASE DITCH
(Not to Scale)



Type of Liner= PSRM

FROM –DET– STA. 17+75 TO STA. 18+98.44 RT
(–L– STA 21+23.55 TO 22+47.14)

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

34 x 17 x 3
1.5 inch Skimmer with 0.625 inch Orifice Diameter 9 ft. weir ID 4.1C

30 x 15 x 3
1.5 inch Skimmer with 0.5 inch Orifice Diameter 7 ft. weir ID 4.2C

50 x 15 x 3
1.5 inch Skimmer with 0.625 inch Orifice Diameter 7 ft. weir ID 4.4C

1.5 inch Skimmer with 0.75 inch Orifice Diameter 20 ft. weir with 5.25 ft. weir height ID 4.3F (See Earthen Dam with Skimmer Detail)

BEGIN TIP PROJECT B-4744
–L– STA. 13+20.00

END TIP PROJECT B-4744
–L– STA. 23+60.00

BEGIN CONSTRUCTION
–DRV2– PC Sta. 10+65.00
(SEE DETAIL SHEET 2–B)

END CONSTRUCTION
–DRV3– PT Sta. 11+90.00
(SEE DETAIL SHEET 2–B)

END CONSTRUCTION
–DRV1– Sta. 11+00.00
(SEE DETAIL SHEET 2–B)

–L– PC Sta. 10+00.00
–L– PT Sta. 10+50.00
–L– PC Sta. 11+02.39
–L– PCC Sta. 14+05.78
–L– PT Sta. 16+14.56
–L– PC Sta. 19+05.35
–L– PT Sta. 22+59.88
–L– PC Sta. 23+95.48
–L– PT Sta. 24+70.29

–DRV2– PC Sta. 11+12.70
–DRV3– POT Sta. 10+00.00
–DRV3– POT Sta. 12+35.02
–DRV1– POT Sta. 11+49.17
–DRV1– POT Sta. 10+00.00
–L– POC Sta. 15+39.64
–DRV1– POT Sta. 15+85.00
POT Sta. 11+47.66

BEGIN BRIDGE
–L– STA. 16+97.75
BEGIN APPROACH SLAB
–L– STA. 16+86.75

END BRIDGE
–L– STA. 18+75.25
END APPROACH SLAB
–L– STA. 18+86.25

1 NOAH GATES AND WIFE BETH GATES DB 2078 PG 3442

2 JOE SPANGLER AND WIFE JANET M. SPANGLER DB 1935 PG 540

JOE SPANGLER AND WIFE JANET M. SPANGLER DB 1326 PG 19

STEVEN K. ABEE AND WIFE SUSAN R. WINKLER-ABEE

STEVEN KERR. ABEE AND WIFE SUSAN RENEE WINKLER-ABEE DB 2809 PG 3539

4 SANDRA M. RANNELLS DB 2872 PG 2389

DALLAS M. BUTNER AND SHERRY H. BUTNER DB 2447 PG 1457

BM-2 SEE SHEET 1C ELEV. = 771.90'

B4744-1

–L–				
PI Sta 10+25.01 Δ = 2° 51' 53.2" (LT) D = 5° 43' 46.5" L = 50.00' T = 25.01' R = 1,000.00'	PI Sta 12+58.21 Δ = 32° 11' 25.1" (LT) D = 10° 36' 37.2" L = 303.39' T = 155.81' R = 540.00' e = 0.06 FT/FT	PI Sta 15+10.28 Δ = 6° 27' 57.4" (LT) D = 3° 05' 49.4" L = 208.78' T = 104.50' R = 1,850.00' e = 0.06 FT/FT RO = SEE PLANS	PI Sta 20+87.61 Δ = 32° 45' 49.5" (RT) D = 9° 14' 28.5" L = 354.54' T = 182.26' R = 620.00' e = 0.06 FT/FT RO = SEE PLANS	PI Sta 24+32 Δ = 4° 17' 09.4" (LT) D = 5° 43' 46.5" L = 74.80' T = 37.42' R = 1,000.00'

–DRV1–	–DRV2–	–DRV3–
SEE DETAIL SHEET 2-B FOR –DRV1– CURVE DATA	SEE DETAIL SHEET 2-B FOR –DRV2– CURVE DATA	SEE DETAIL SHEET 2-B FOR –DRV3– CURVE DATA

NOTE:
SEE SHEET NO. 5 FOR –DET– ALIGNMENT
SEE SHEET NO. 6 PROFILES
SEE SHEET NO. 2–B FOR DRIVEWAY DETAILS
SEE SHEET S1 THRU. S– FOR STRUCTURE PLANS

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klabangler AT RENY247778