PROJECT: R-2408B

TIP #

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2408B	EC-1	

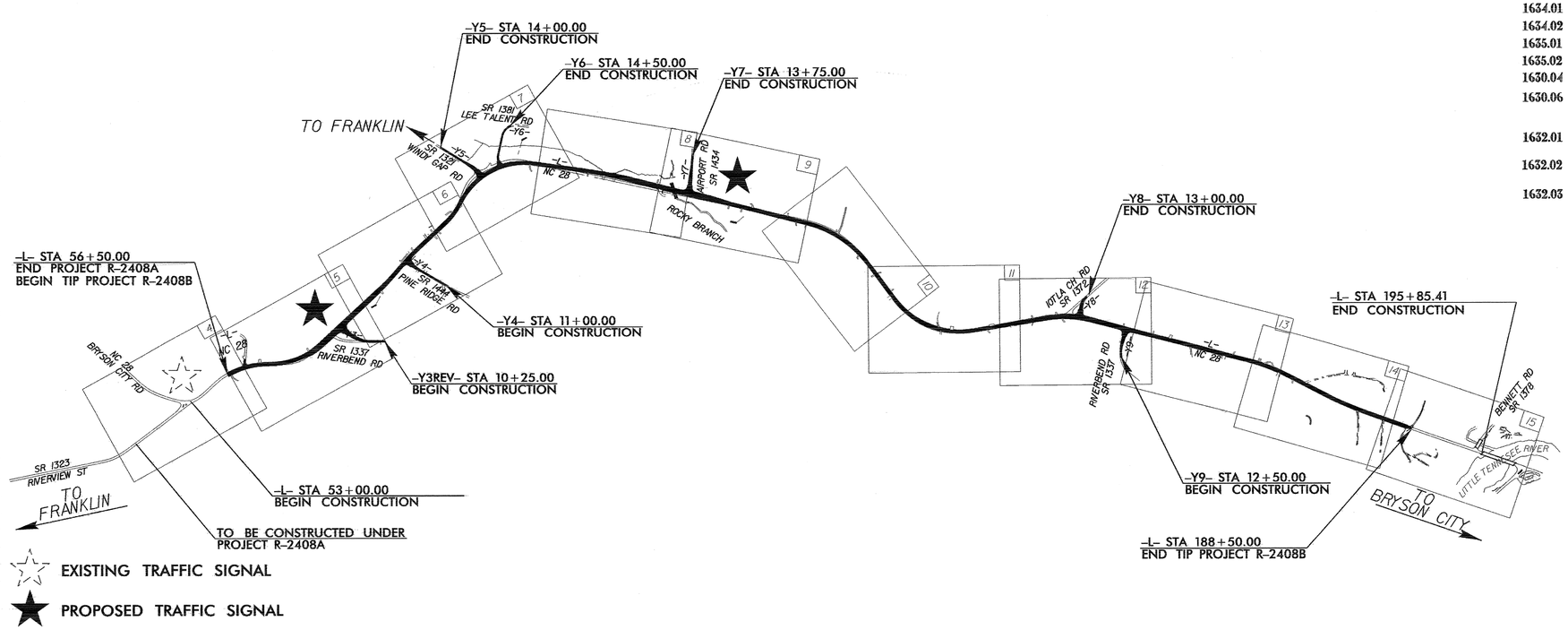
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

MACON COUNTY

LOCATION: NC 28 FROM NORTH OF SR 1323 (RIVERVIEW ST.) TO SOUTH OF SR 1378 (BENNETT RD.)
TYPE OF WORK: GRADING, DRAINAGE, CULVERT, PAVING AND SIGNALS



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

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT

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

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	1630.06	Special Stilling Basin
1606.01	Special Sediment Control Fence	1632.01	Rock Inlet Sediment Trap Type A
1607.01	Gravel Construction Entrance	1632.02	Rock Inlet Sediment Trap Type B
1622.01	Temporary Berms and Slope Drains	1632.03	Rock Inlet Sediment Trap Type C
1630.03	Temporary Silt Ditch	1633.01	Temporary Rock Silt Check Type A
1630.05	Temporary Diversion	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

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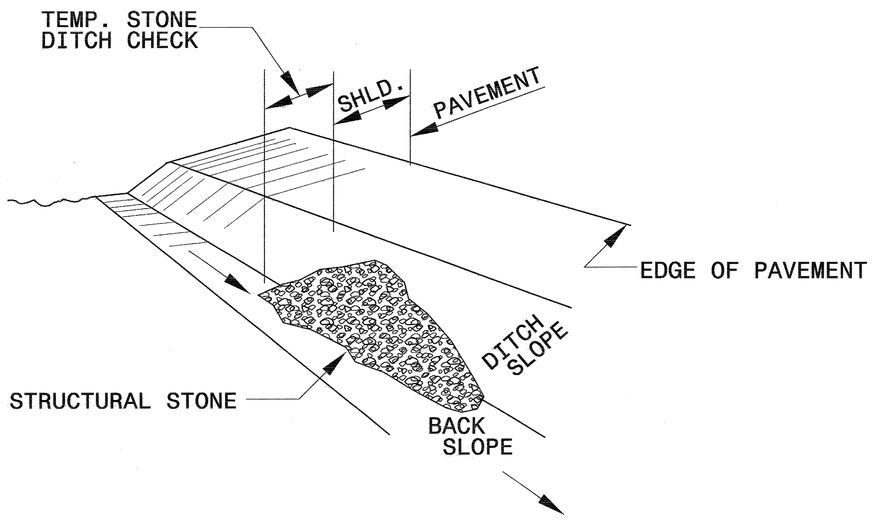
jennifer.parrish
ALT_REVISED2008.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

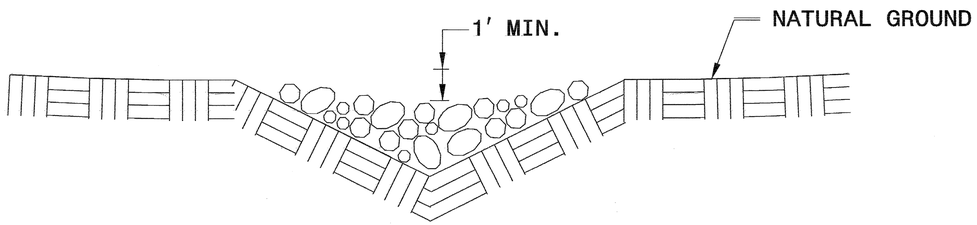


ISOMETRIC VIEW

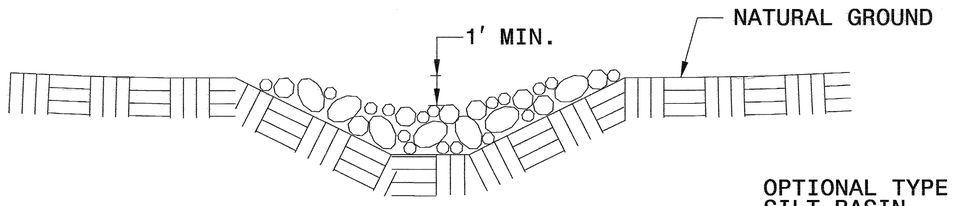
NOTES:

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

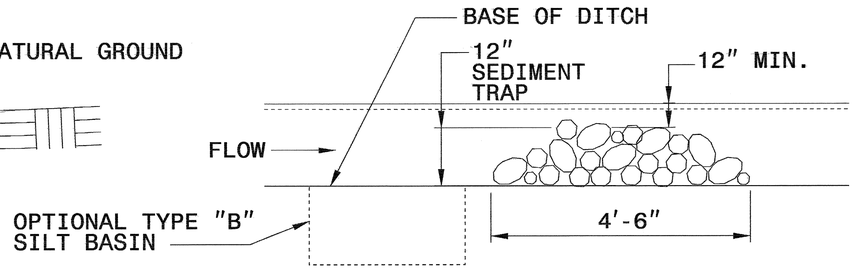
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



CROSS SECTION VEE DITCH



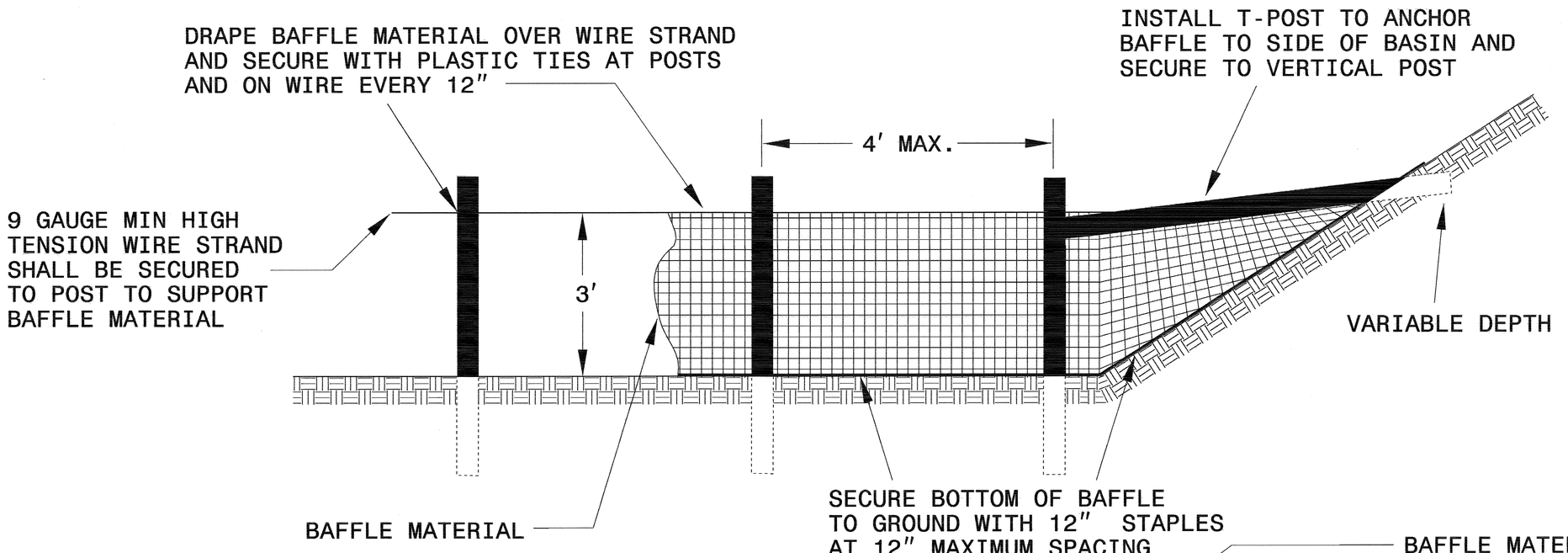
CROSS SECTION TRAPEZOIDAL DITCH

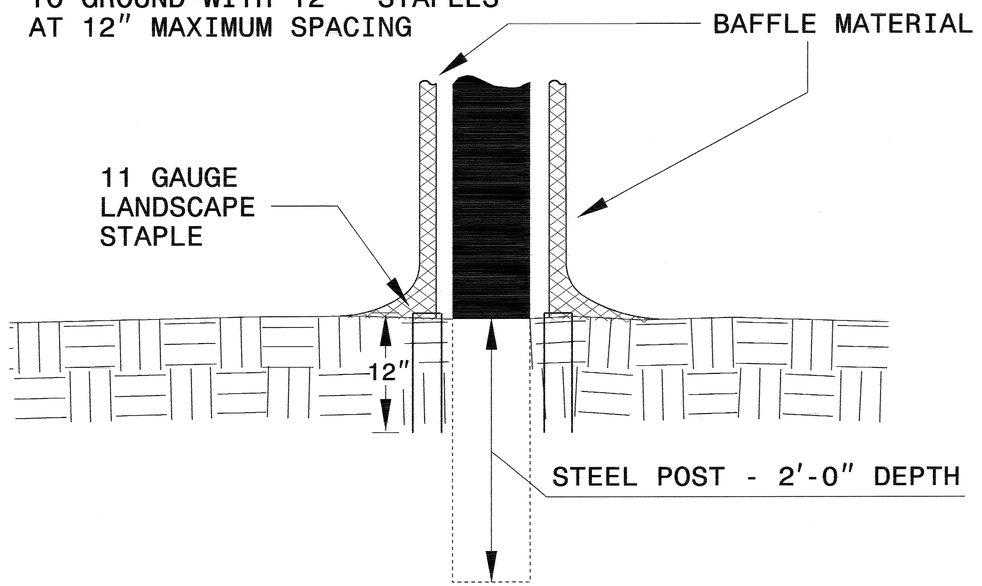


ELEVATION VIEW

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	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

NOTES:

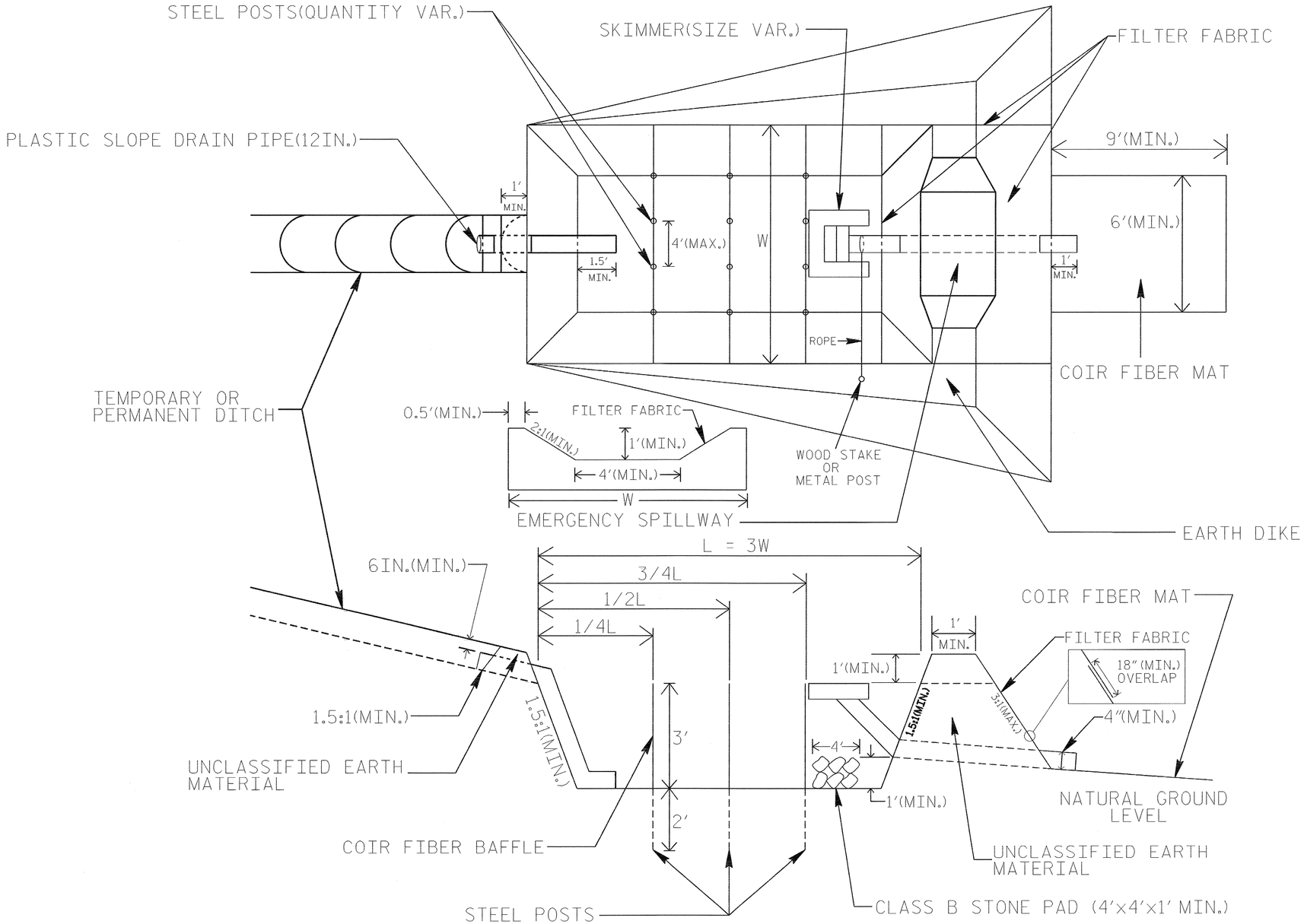
1. INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF ¼ THE BASIN LENGTH.

2. 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.

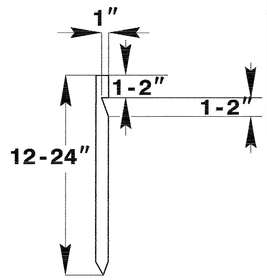
3. TOP HEIGHT OF COIR FIBER BAFFLES SHALL NOT BE BELOW BASE OF EMERGENCY SPILLWAY ELEVATION.

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

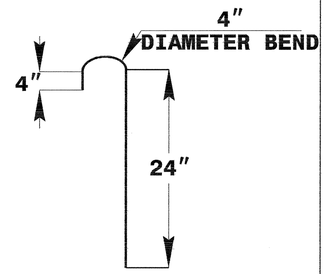
SKIMMER BASIN WITH BAFFLES DETAIL



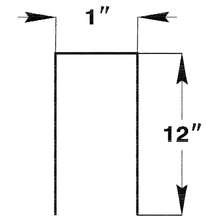
2" x 2" (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1" (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

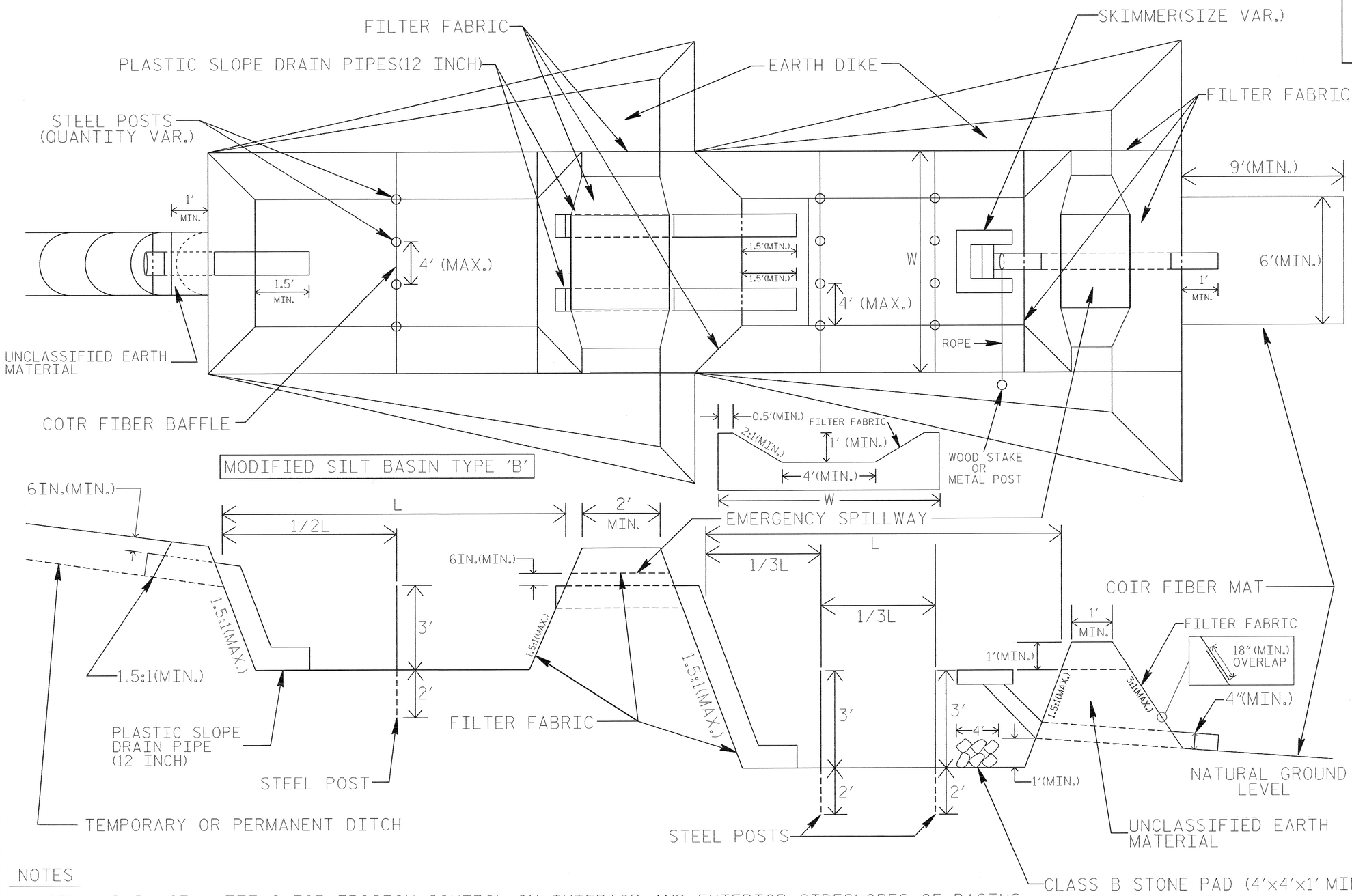
NOTES

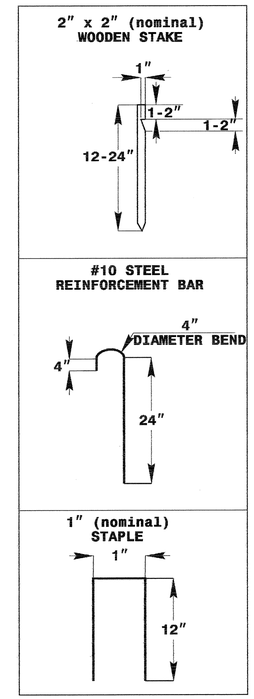
1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE EMERGENCY SPILLWAY LENGTH (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE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

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-2C
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TIERED SKIMMER BASIN DETAIL





COIR FIBER MAT ANCHOR OPTIONS

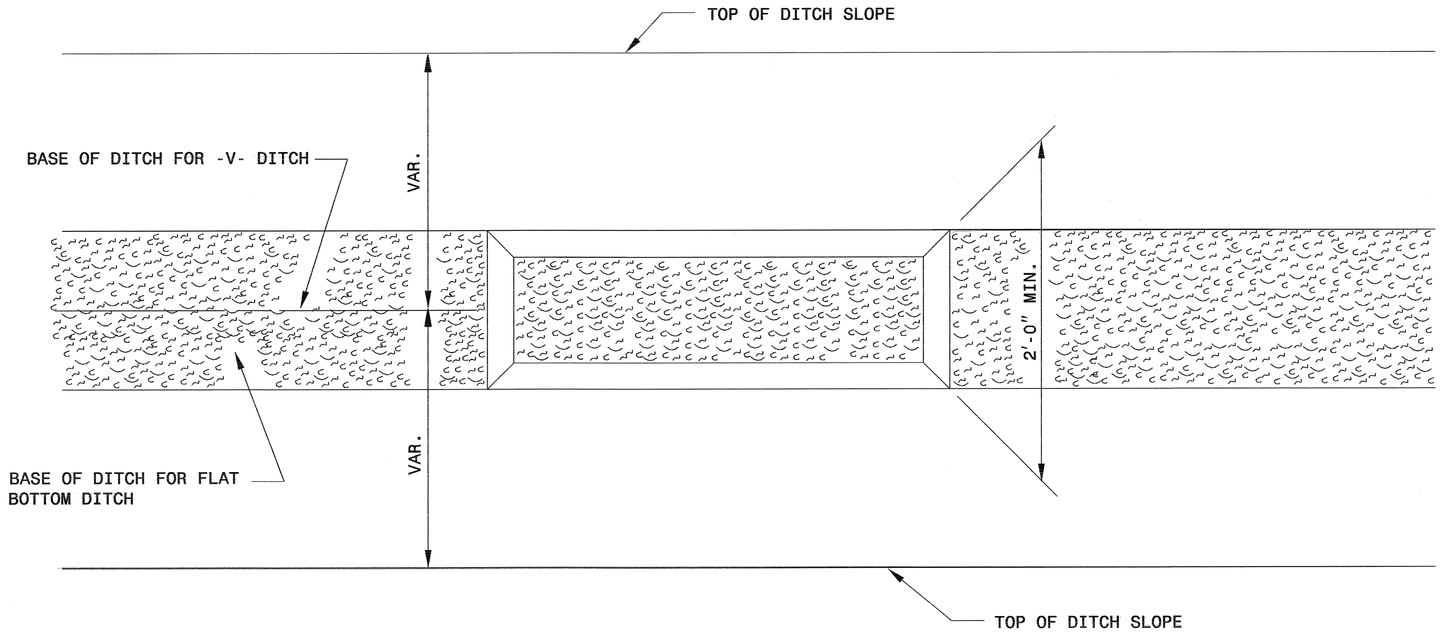
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR 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. FOR BASIN DEPTHS OF 3FT., 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.
6. FILTER FABRIC FOR EMERGENCY SPILLWAYS SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18"(MIN.) AS SHOWN.

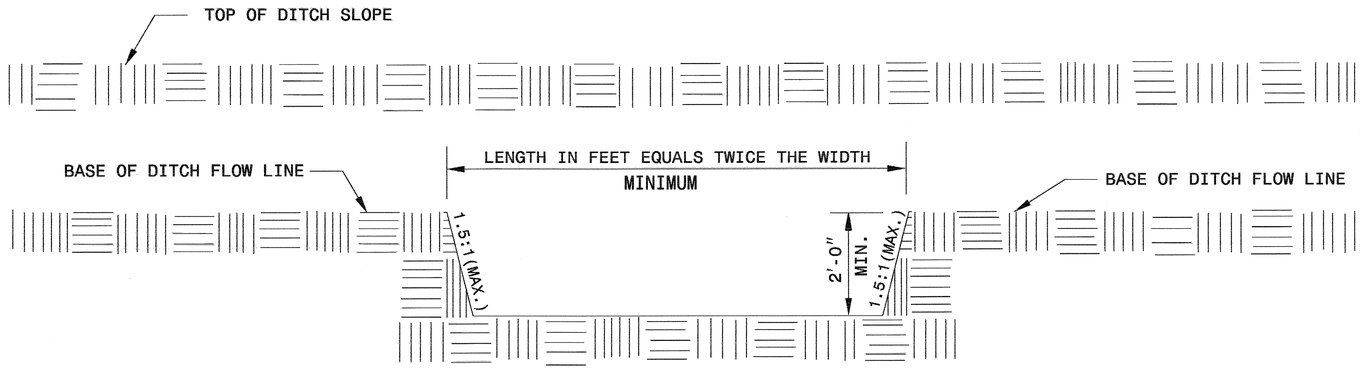
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-2D
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SILT BASIN 'B' DETAIL



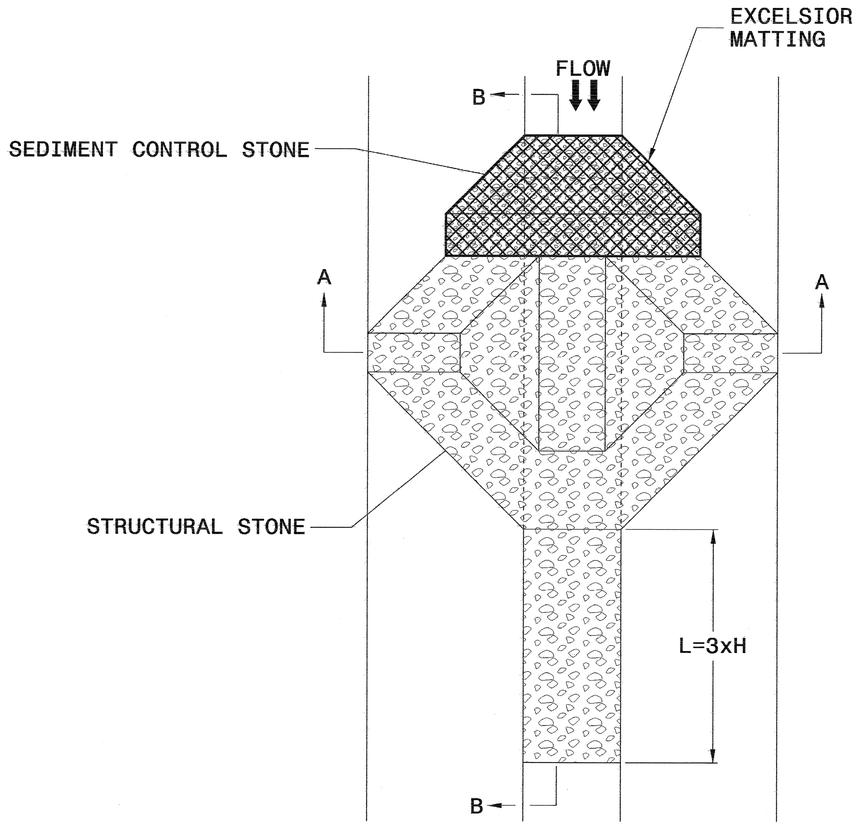
PLAN



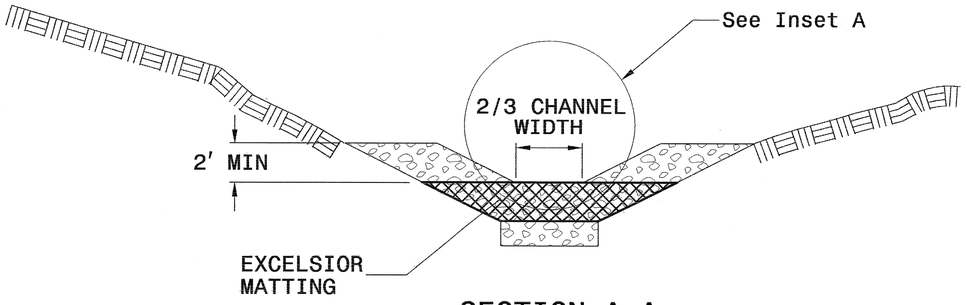
ELEVATION

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-2E
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



PLAN



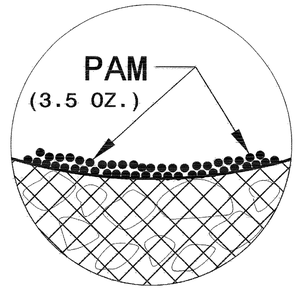
SECTION A-A

NOTES

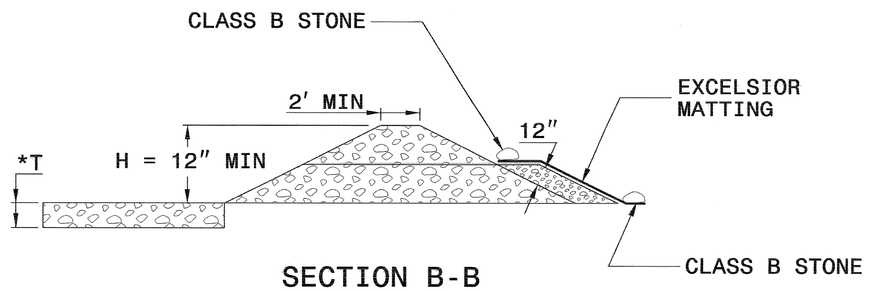
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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 ROCK SILT CHECK.

INITIALLY APPLY 3.5 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



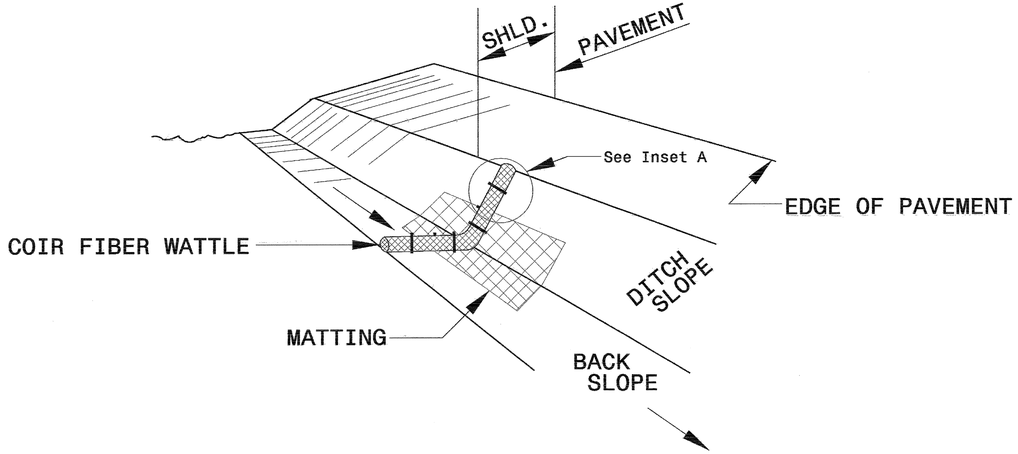
SECTION B-B

*T = 12" MIN., 18" MAX.

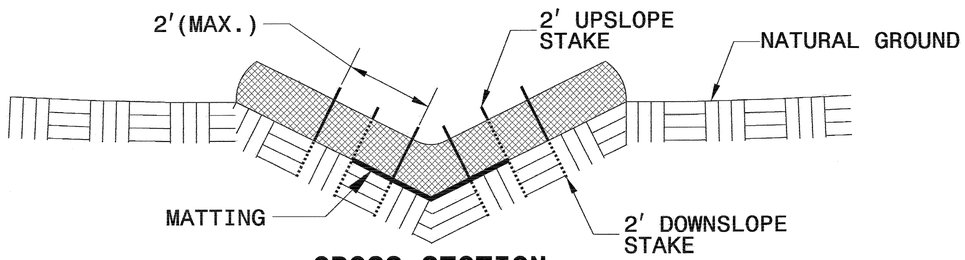
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-2F
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

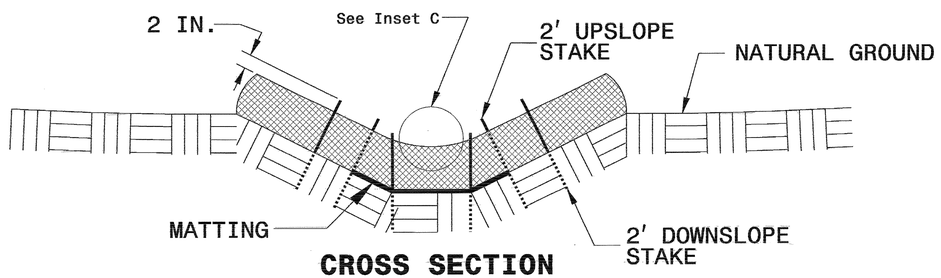
COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



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.

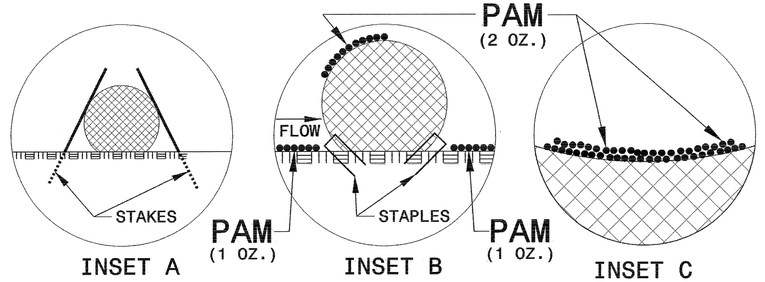
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

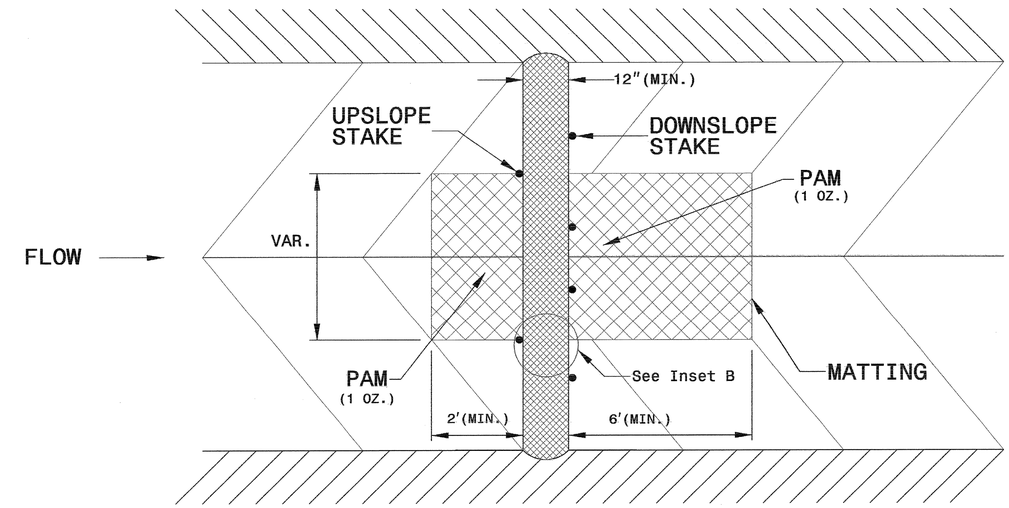
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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.

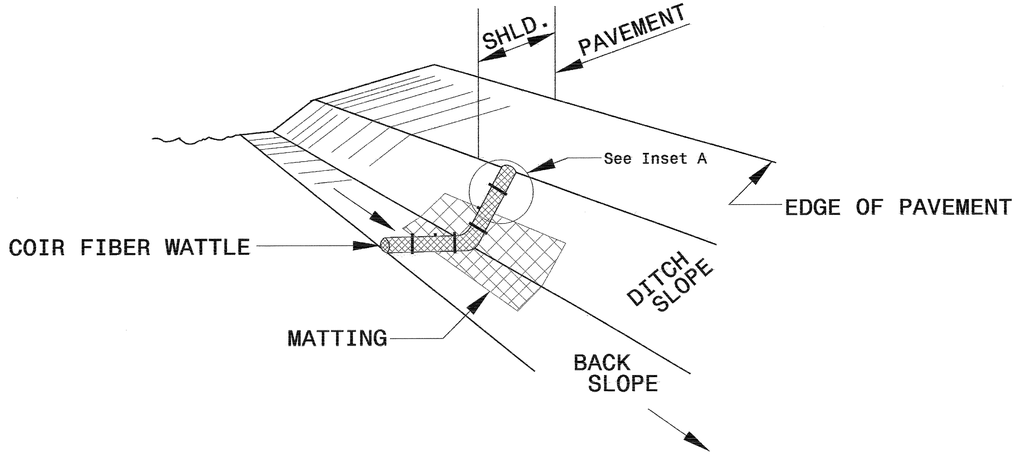




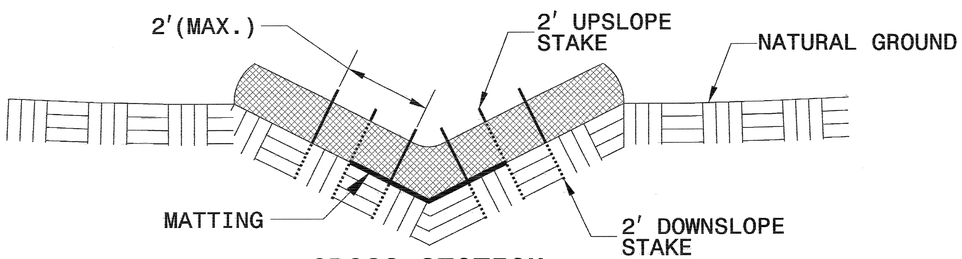
TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-26
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

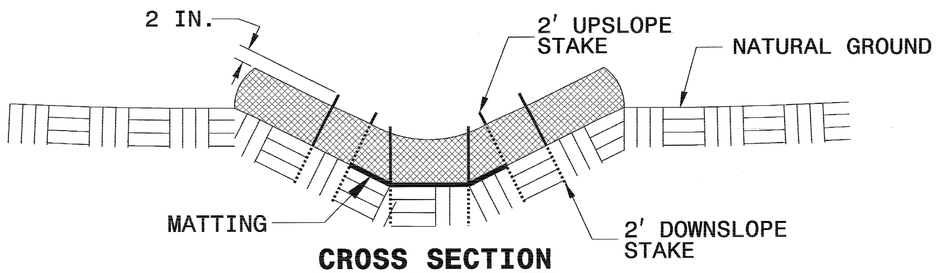
COIR FIBER WATTLE DETAIL



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.

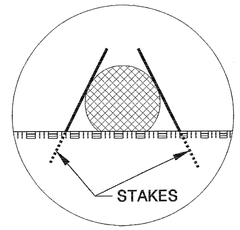
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

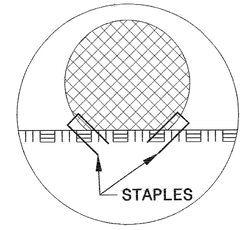
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

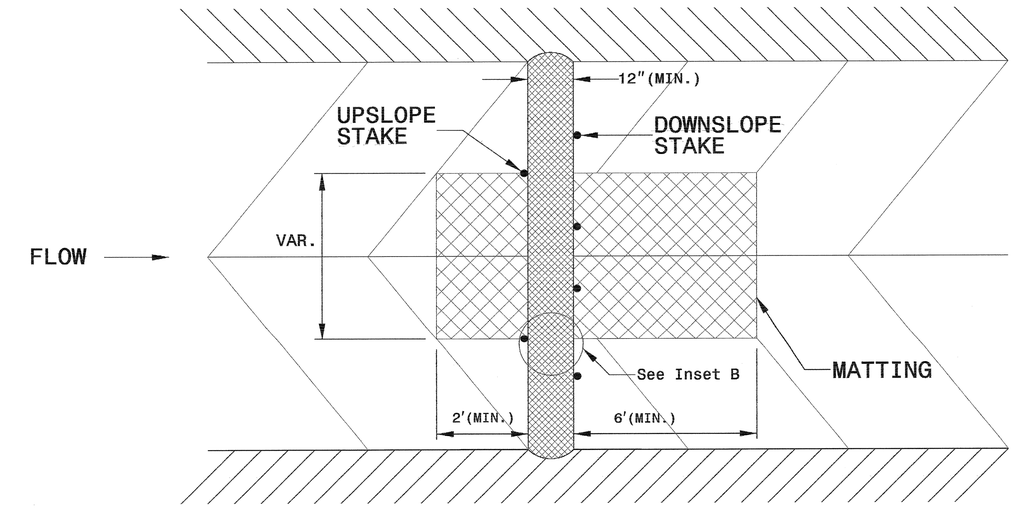
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A



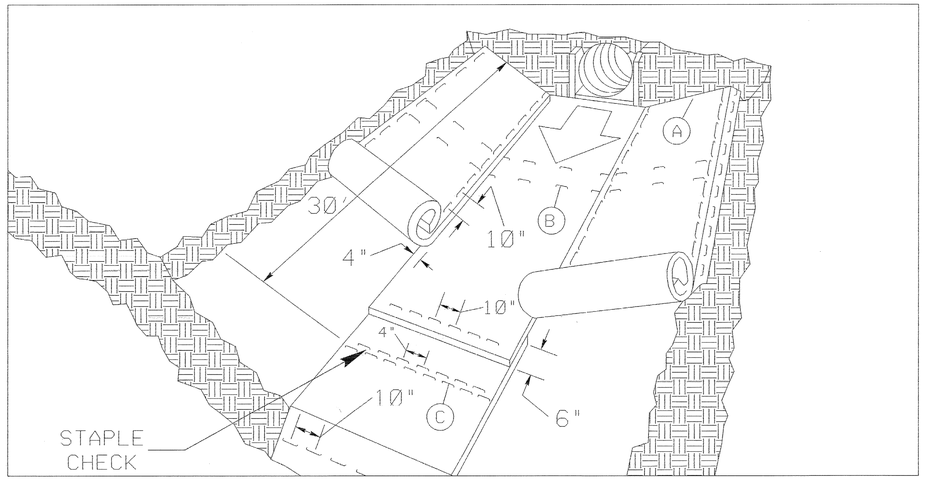
INSET B



TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-2H
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATTING INSTALLATION DETAIL



MATTING IN DITCHES

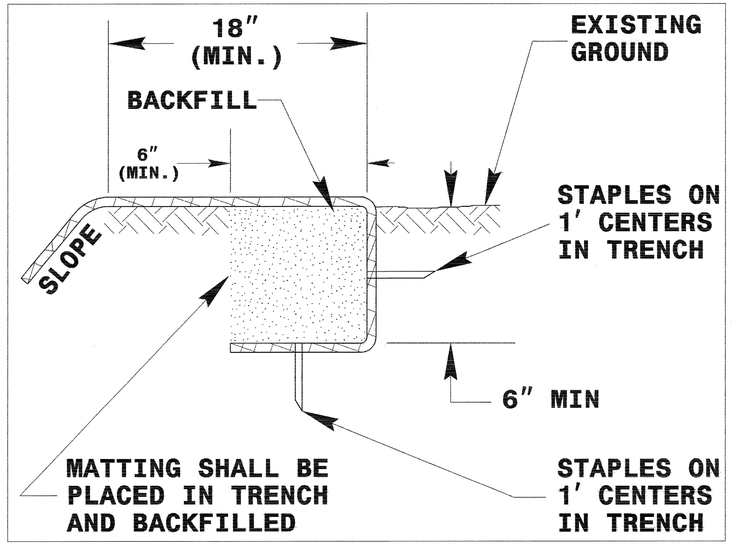
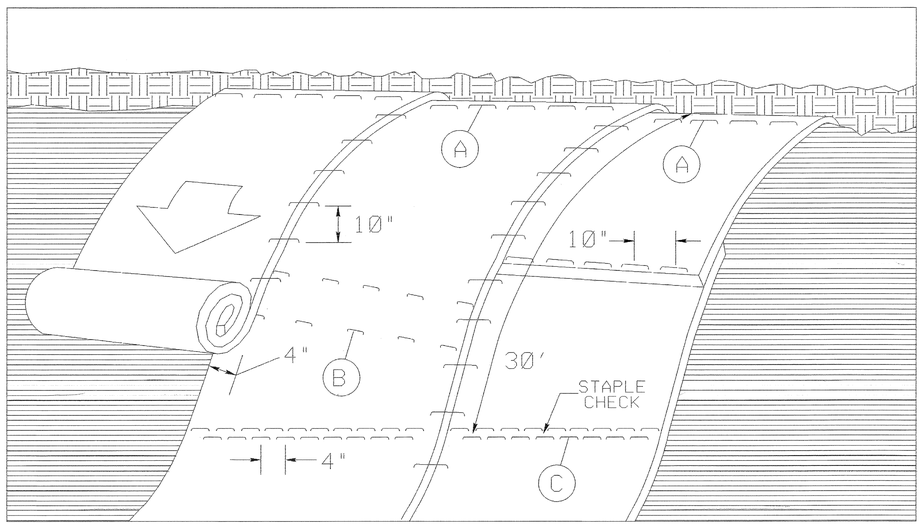


DIAGRAM (A)



MATTING ON SLOPES

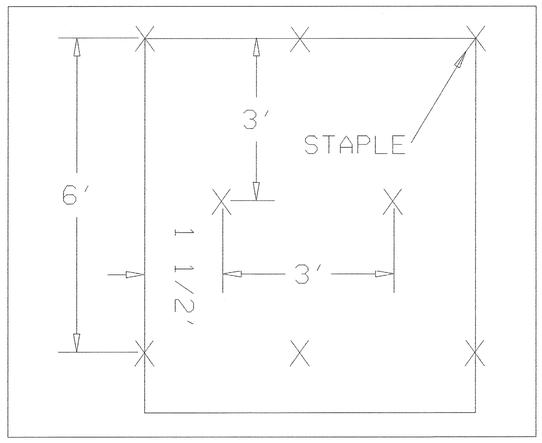


DIAGRAM (B)

STAPLE CHECK PATTERN

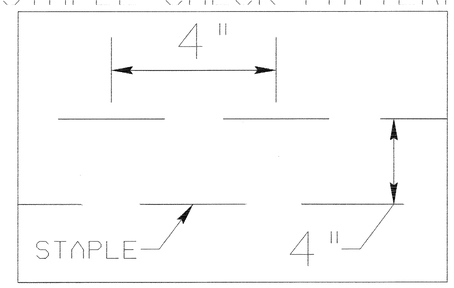


DIAGRAM (C)

NOTES:

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	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)
5	-L-	62+00	63+50	LT	170
5	-L-	63+50	66+00	LT	335
5	-L-	62+50	63+00	RT	50
5	-L-	63+00	67+00	RT	370
5	-L-	67+00	69+50	RT	255
5	-L-	69+50	70+50	RT	115
6	-L-	71+50	77+60	LT	560
6	-L-	75+00	77+00	RT	185
6	-L-	79+70	80+90	LT	120
7	-L-	84+50	94+00	RT	435
7	-L-	95+00	96+00	RT	50
7	-L-	96+00	98+00	RT	185
8	-L-	98+00	101+50	RT	235
8	-L-	103+50	106+00	LT	170
9	-Y7-	11+00	13+00	RT	140
10	-L-	126+00	127+50	RT	65
10	-L-	129+00	131+50	LT	115
10	-L-	129+50	131+50	RT	115
11	-L-	134+00	139+50	LT	505
11	-L-	134+50	135+50	RT	70
11	-L-	140+50	145+00	RT	415
12	-L-	146+50	149+00	LT	230
12	-L-	152+00	152+50	LT	30
12	-L-	152+50	158+00	TR	620
12	-L-	159+00	160+00	LT	105

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
13	-L-	161+50	169+00	LT	1005
13	-L-	169+00	172+00	LT	105
13	-L-	167+00	168+50	RT	105
14	-L-	172+00	173+00	LT	105
14	-L-	174+00	177+50	RT	235
16	-DETIREV-	14+00	16+00	RT	70
16	-DETIREV-	24+00	25+21.49	RT	40
17	-LTEMP-	87+00	93+50	RT	425
17	-LTEMP-	88+50	89+50	LT	35
19	-DET3-	15+50	16+00	LT	20
20	-DET3-	21+00	21+51.62	RT	10
21	-DET3-	41+50	42+00	RT	5
21	-DET3-	42+00	44+00	RT	15
22	-DET3-	47+00	48+50	RT	10
22	-DET3-	51+00	52+00	RT	35
22	-DET3-	52+00	52+50	RT	20
22	-DET3-	52+50	57+00	RT	150
23	-DET6-	12+00.39	13+01.17	RT	10
23	-DET6-	20+44.86	22+45.26	RT	15
			SUBTOTAL		8060
		ADDITIONAL PSRM TO BE INSTALLED			114525
				TOTAL	122585
				SAY	125000

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-3A
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-	55+50	57+00	RT	140
4	-L-	55+50	56+00	LT	70
5	-L-	57+00	62+50	RT	505
5	-L-	66+00	71+50	LT	505
5	-Y3REV-	11+00	13+50	RT	175
5	-Y3REV-	11+00	14+50	LT	245
6	-L-	77+00	77+50	LTBERM	25
6	-L-	78+50	82+00	RT	395
6	-L-	71+50	74+00	LTBERM	125
6	-Y4-	11+50	13+50	LT	70
6	-Y4-	11+50	13+50	RT	70
6	-Y4-	14+50	15+00	LT	20
7	-Y6-	12+50	14+00	LT	105
10	-L-	121+00	122+50	RT	55
10	-L-	125+00	126+00	LT	50
11	-L-	138+00	139+50	RT	70
12	-L-	149+00	151+00	LT	140
12	-Y9-	14+00	15+00	RT	70
12	-Y9-	14+00	14+75	LT	55
14	-L-	177+50	178+50	LT	50
14	-L-	179+00	183+00	RT	370
14	-L-	185+50	186+00	RT	35
15	-L-	186+00	188+00	RT	225
16	-DET1REV-	16+00	22+00	RT	200
16	-Y4DET-	14+35	15+00	LT	25

PERMANENT SOIL REINFORCEMENT MAT

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
16	-Y4DET-	14+84.42	15+00	RT	10
18	-DET2REV-	23+80	26+09.72	LT	75
18	-DET2REV-	24+00	26+09.72	RT	70
19	-DR4-	10+50	11+27.13	RT	10
19	-DR4-	10+50	11+00	LT	5
21	-DET3-	39+50	41+50	RT	15
22	-DET3-	57+00	57+15.84	RT	5
			SUBTOTAL		3985
		ADDITIONAL PSRM TO BE INSTALLED			0
			TOTAL		3985
			SAY		4000

5/14/99

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.

2007 ADT			
2030 ADT		6,000 / 10,000	
		NC 28	
	600 / 2,200		5,400 / 7,800
5,600			10,400
9,700	SR 1323	NC 28	15,300

-L-
PI Sta 58+09.32
△ = 34° 28' 15.7" (RT)
D = 7° 09' 43.1"
L = 481.31'
T = 248.18'
R = 800.00'
e = .06
RO = 138'
Vd = 45mph

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-4/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83'95

MELANIE C. DOWNS
DB I-24 PG 1691
PB 1/291 PG 4

LOUISE M. ARVEY
DB R-8 PG 349

MILDRED D. CARPENTER
D.B. Y-4 PG. 21

MARK ROBERT NOWICKI
DB Y-21 PG 1754

MARK ROBERT NOWICKI
DB Y-21 PG 1754

MARK ROBERT NOWICKI
DB E-24 PG 130

THEODORE TALLENT
DB N-6 PG 439

KHANS OF FRANKLIN, INC.
DB S-24 PG 1966

JAMES L. KINSLAND
DB G-24 PG 1649

CATHY S. CONNER
DB H-16 PG 60

NORMAN WEST
DB Z-5 PG 109

JAMES L. KINSLAND
DB U-18 PG 159

CHARLES D. BALDWIN
DB Y-11 PG 203

-L- POC 56+50.00
END PROJECT R-2408A
BEGIN TIP PROJECT R-2408B

-BL- 8
-L- STA 51+44.52
.6121 RT

PI Sta 42+76.13
△ = 26° 35' 59.0" (LT)
D = 9° 32' 57.5"
L = 278.55'
T = 141.83'
R = 600.00'

PI Sta 49+74.48
△ = 2° 00' 16.3" (RT)
D = 4° 46' 28.7"
L = 41.98'
T = 20.99'
R = 1,200.00'

-L- POT Sta. 49+95.47

TO BE CONSTRUCTED UNDER
PROJECT R-2408A

BM # 4
-BL- STA. 49+92.61
42.45 RT.
ELEV. = 2059.820

-L- PCSta. 55+61.13

TIE PROP SS
TO EXIST

TIE PROP SS
TO EXIST

70 x 12 x 3
ID 4.1 CG

MATCHLINE TO SHEET 5
-L- STA. 57+00.00

PROJECT R-2408A

SEE SHEET 24 FOR -L- PROFILE

ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE DENOTED

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PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-5/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-	-Y3REV-
PI Sta 58+09.32	PI Sta 63+96.87
Δ = 34° 28' 15.7" (RT)	Δ= 41° 16' 56.0" (LT)
D = 7° 09' 43.1"	D = 7° 32' 20.1"
L = 481.31'	L = 547.59'
T = 248.18'	T = 286.29'
R = 800.00'	R = 760.00'
e = .06	e = .06
RO = 13.8'	RO = 13.8'
Vd = 45mph	Vd = 45mph

-Y3REV-
PI Sta 13+24.68
Δ = 46° 23' 47.1" (RT)
D = 16° 22' 12.8"
L = 283.42'
T = 150.00'
R = 350.00'
e = .02
RO = SEE PLANS

10,400 / 15,300 — NC 28 — 8,600 / 13,200

2,000 / 2,900 — SR 1337 (RIVERBEND RD.) — 200 / 800

2,200 / 3,700

2007 ADT / 2030 ADT

MATCHLINE TO SHEET 4 -L- STA. 57+00.00

MATCHLINE TO SHEET 6 -L- STA. 71+50.00

NAD 83/95

96 x 16 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
8 ft. weir
ID 5.1 CG

25 x 10 x 3
ID 5.2 CG
SEE DETAIL
SPECIAL CUT DITCH
-L- STA 66+50 - 68+00 LT

MARK ROBERT NOWICKI
DB Y-21 PG 1754

GUY O. DUVALL
DB N-24 PG 541

JULIA MOODY BRITT
DB Z-28 PG 720
40

MARJORIE MOODY MENEFEE
DB Z-28 PG 716
43

EASEMENT ACQUIRED UNDER R-2408A

RIGHT OF WAY ACQUIRED UNDER R-2408A

CL 'I' RIP RAP
EST. 33 TONS
47 S.Y. FF
SEE DETAIL 'I'

UT to Little Tennessee River

-BL- 9
-L- STA 58+56.35
35.05 LT
-BY2-38

-BY2- 37
-L- STA 59+07.87
281.02 LT

-L- PCSta. 61+10.58

-L- PTSta. 66+58.17

-BL- 11
-L- STA 67+56.17
19.63 RT
-BY3- 39

-L- POTSta. 69+00.00
-Y3REV- POTSta. 15+11.30

-L- PTSta. 60+42.44

-BL- 10
-L- STA 64+15.69
49.11 RT

-Y3REV- PTSta. 14+58.10

-BY3- 40
-Y3REV- STA 12+72.78
29.39 LT

-Y3REV- PC Sta. 11+74.68

DETIREV- POT Sta. 10+00.00
-L- POT Sta. 70+85.00

-Y3REV- 10+25.00
BEGIN CONSTRUCTION

SEE DETAIL A
SPECIAL LATERAL 'V' DITCH
-L- STA 69+50 - 70+50 RT

BM
-L- STA 65+02.65
46.58 RT
ELEV. = 2126.17

BEGIN EXPRESSWAY GUTTER
-L- STA 58+00.00 RT
END EXPRESSWAY GUTTER
-L- STA 60+00.00 RT

38 EVELYN GREER DB P-12 PG 132

39

40

41 SUSAN SANDERS DB H-30 PG 1826

42

42A CIBIRAS ANGELOA DB H-25 PG 1006

44 CHARLES MOODY JR DB H-29 PG 344 / DB Z-28 PG 718

44A G-SQUARED LLC DB M-30 PG 1420

LAURA M KNIGHT DB J-27 PG 1339

CHARLES D. BALDWIN DB Y-11 PG 203

DO NOT DISTURB TELEPHONE PEDESTAL & POLE

TELEPHONE PEDESTAL AND REPEATER ON POLE

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.

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

SLOPESTAKES FOR -L- & -Y- ALIGNMENTS
SLOPESTAKES FOR TEMPORARY DETOUR ALIGNMENTS

ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE DENOTED

SEE SHEET 24 FOR -L- PROFILE
SEE SHEET 30 FOR -Y3- PROFILE
SEE SHEET 16 FOR -DETIREV- PLANVIEW
SEE SHEET 32 FOR -DETIREV- PROFILE
SEE SHEET 2-F FOR DRAINAGE DITCH DETAILS

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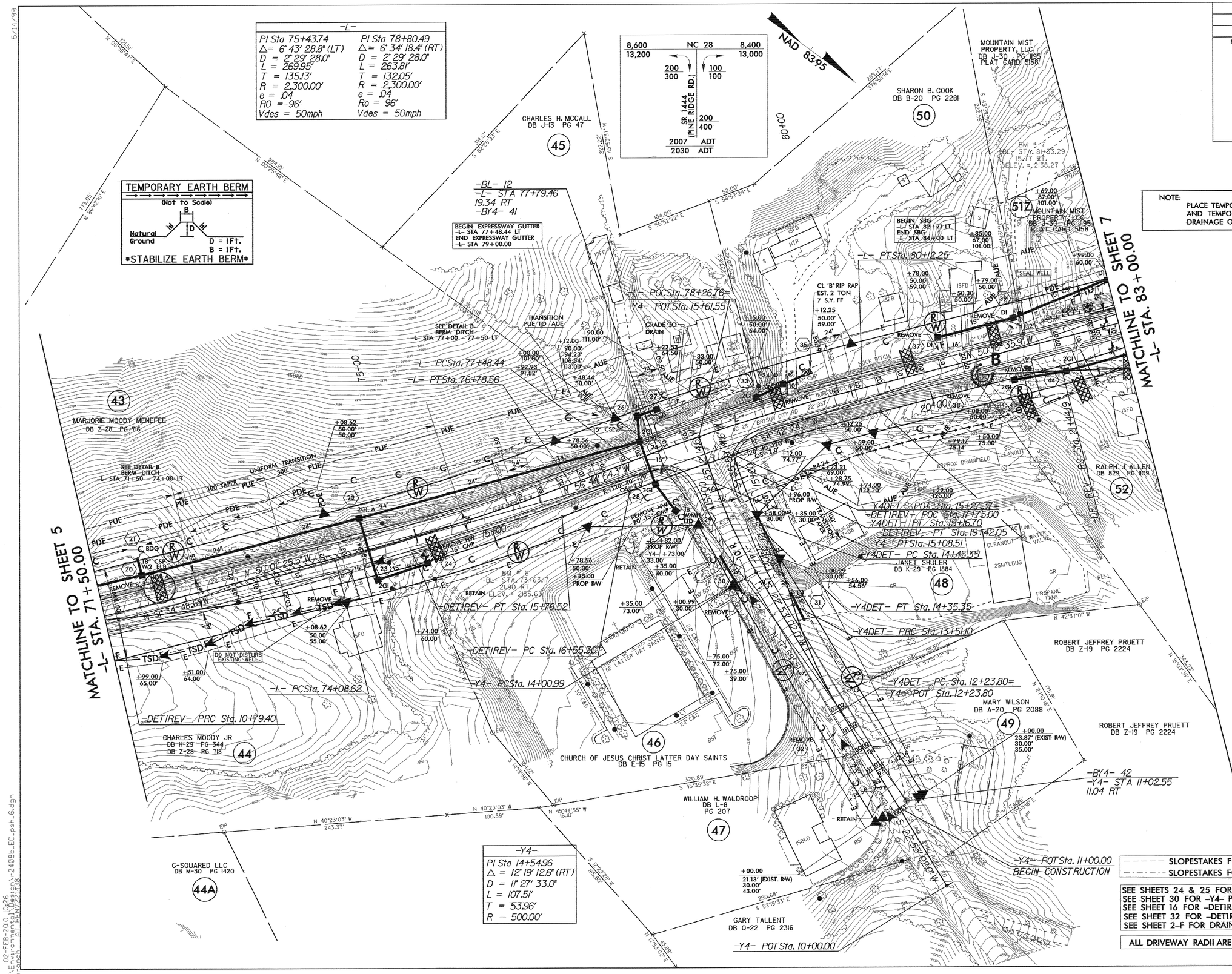
PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-6/CONST.6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

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



- - - - - SLOPESTAKES FOR -L- & -Y- ALIGNMENTS
-·-·-·- SLOPESTAKES FOR TEMPORARY DETOUR ALIGNMENTS

SEE SHEETS 24 & 25 FOR -L- PROFILE
SEE SHEET 30 FOR -Y4- PROFILE
SEE SHEET 16 FOR -DETIREV- & -Y4DET- PLAN VIEW
SEE SHEET 32 FOR -DETIREV- & -Y4DET- PROFILES
SEE SHEET 2-F FOR DRAINAGE DITCH DETAILS

ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE DENOTED

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PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-7/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

5/14/99

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

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

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

NAD 83/95

54 x 12 x 3
ID 7.1 CG

30 x 10 x 3
ID 7.9 F

40 x 9 x 3
ID 7.11 F

54 x 14 x 3
ID 7.12 F

90 x 16 x 3
8 ft. weir
ID 7.2 CG

26 x 10 x 3
ID 7.1 F

MATCHLINE TO SHEET 6
-L- STA. 83+00.00

MATCH LINE TO SHEET 8
-L- STA. 98+00.00

MOUNTAIN MIST PROPERTY, LLC
DB J-30 PG 1195
PLAT CARD 5158

ROBERT P. REVIS
DB C-22 PG 1135
PB 1 PG 121

ROBERT PAUL REVIS
DB D-12 PG 5-6
PB 1 PG 70

GARY WAYNE CRISP
DB Q-14 PG 98

JOYCE BRENDLE FOX
DB Z-22 PG 1219

ELMER J SERRLE
DB Q-27 PG 389

JAMES MCCALL
DB S-25 PG 1881

RALPH J ALLEN
DB 829 PG 1109

-BL- 13
-L- STA 84+17.59
4.76 LT

-BL- 14
-L- STA 89+56.97
5.72 LT
-BY5- -BY6-

-BL- 15
-L- STA 93+44.44
46.08 LT

-BL- 16
-L- STA 97+53.91
24.37 LT

-BY5- 43
-Y5- STA 14+58.58
9.09 RT

-BY6- 45
-Y6- STA 13+77.35
13.36 LT

-L- POC STA 87+00.00
BEGIN -LTEMP- GRADE

-DETIREV- PRC Sta. 25+21.49

-DETIREV- PT Sta. 25+32.01=
+L- POC Sta. 86+11.17

BEGIN SBG
-L- STA 82+71 LT
END SBG
-L- STA 84+00 LT

BEGIN SBG
-L- STA 95+80 LT
END SBG
-L- STA 98+64 LT

EXPRESSWAY GUTTER
FROM 13+15 TO 13+90 LT.

REMOVE 24"CMP & HW'S

36" RCP BURIED 0.5'
SEE DETAIL U
CLASS I RIP RAP
ON BANKS ONLY
EST. 16 TONS
DDE = 4 CY

UT to Rocky Branch

SEE DETAIL L
SPECIAL LATERAL V DITCH
-Y6- STA 12+50 TO 13+00 LT
EST. 16 TONS
50 S.Y. FF

SEE DETAIL K
LATERAL V-DITCH
-Y6- STA 12+00 – 12+50 LT
EST. 21 TONS
61 S.Y. FF
DDE EST = 19 CY

REMOVE 15" RCP
& 4" UNDERDRAIN
AS NEEDED

REMOVE 36"
72" RCP BURIED 1.0'

SEE DETAIL U
CL I RIP RAP
ON BANKS ONLY
EST CL I RIP RAP= 16 TONS

DO NOT DISTURB
EXISTING WELL

Rocky Branch

TRANSITION AUE TO PUE
-L- STA 101+75

CL 1 RIP RAP
EST. 2 TON
23 S.Y. FF
TIE TO
EXIST. DRIVE

SEE DETAIL M
BERM DITCH W/CL B RIP RAP
EST. 16 TONS
50 S.Y. FF

SEE DETAIL M
BERM DITCH W/CL B RIP RAP
-L- STA 93+50 97+50 RT
EST. 129 TONS
398 S.Y. FF

PLUG
FILL W/FLOWABLE
MATERIAL

GRADE TO DRAIN

REMOVE

BRYSON CITY RD
NC 28

SEPTIC

HTR

WD DECK

WD CANOPY

ISBK BLDG

ISBKD

BDO

2GI, A

TD

PDE

PUE

AUE

TSD

RW

C

E

F

S 44°48'37" W 330.63'

N 77°54'04" W 156.87'

N 38°27'23" E 80.69'

N 33°57'42" E 56.38'

N 37°33'49" E 52.81'

N 77°54'04" W 31.66'

N 78°32' W 283.32'
N 10°47'15" W

N 22°51'53" W 52.34'

N 4°02'49" E 147.50'

N 10°18'08" W 147.50'

S 82°47'10" E 88.37'

N 10°18'08" W 147.50'

N 8°02'08" W 175.46'

N 07°00'08" E 608.13'

N 10°05'20" E 147.50'

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PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-8/CONST.8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

5/14/99

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

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

TEMPORARY EARTH BERM
(Not to Scale)
B
Natural Ground
D
D = 1Ft.
B = 1Ft.
STABILIZE EARTH BERM

NAD 83/95

Modified Silt Basin
Type 'B'
45 x 9 x 3
(See Tiered Skimmer Basin Detail)
ID 8.1 F

45 x 9 x 3
1.5 inch Skimmer with 0.5 inch Orifice Diameter
4 ft. weir
(See Tiered Skimmer Basin Detail)
ID 8.1 F

22 x 10 x 3
4 ft. weir
ID 8.2 F

54 x 9 x 3
ID 8.1 CG

26 x 12 x 3
ID 8.2 CG

MATCHLINE TO SHEET 7
-L- STA. 98+00.00

MATCHLINE TO SHEET 9
-L- STA. 108+00.00

GARY WAYNE CRISP
DB B-19 PG 1299
56

GARY WAYNE CRISP
DB Q-14 PG 98
56

CAROLE ANN SIMMONS
DB C-23 PG 437
60

JOYCE BRENDLE FOX
DB Z-31 PG 237
58

JAMES MCCALL
DB S-25 PG 188

JACQUELIN G. NELSON
DB C-20 PG 66
59

CAROLINA BUILDER SERVICES INC
DB W30 PG 1300
61Z

WILLIAM A. ROTEN
DB G-14 PG 76
101

DUKE ENERGY CAROLINAS, LLC
DB S-23 PG 1149
62

DAVID CHARLES MYERS
DB T-24 PG 1528

-DET2REV- PRC Sta. 14+15.46=
-L- POC Sta. 101+70.40
END -LTEMP- GRADE
BEGIN -DET2REV- GRADE
BEGIN CONSTRUCTION

-DET2REV- PRC Sta. 17+18.82

-DET2REV- PT Sta. 19+59.27

-L- PC Sta. 99+42.07

-L- PT Sta. 104+68.16

-BL- 17
-L- STA 101+78.93
16.14 RT

-DR- POT Sta. 10+00.00=
-L- POT STA 107+35.00

-DR- PC Sta. 10+67.18

-DR- POC Sta. 10+85.00
END PAVEMENT
BEGIN ABC

SEE DETAIL E
LATERAL BASE DITCH W/CL B RIP RAP
-L- STA 98+50 – 100+00 LT
EST. 64 TONS
122 S.Y. FF
DDE = 108 CY

BEGIN SBG
-L- STA 95+80 LT
END SBG
-L- STA 98+64 LT

TAIL DITCH
W/CLASS I RIP RAP
EST. 17 TONS
24 S.Y. FF
SEE DETAIL T

SEE SHEET 2-H
ROCK CROSS VANE
(RCV)

STREAM RELOCATION
SEE SHEETS 2-F, 2-G & 2-H
FOR DETAIL

360'
UNIFORM TRANSITION

SEE SHEET 2-F FOR
STREAM DETAIL

BEGIN SBG
-L- STA 105+20 LT
END SBG
-Y- STA 10+75 LT

CL 'B' RIP RAP
EST. 5 TON
14 S.Y. FF

CL 'B' RIP RAP
EST. 2 TON
5 S.Y. FF

Rocky Branch

SEE SHEETS 25 & 26 FOR –L– PROFILE
SEE SHEETS 18 FOR –DET2REV– PLAN VIEW
SEE SHEETS 33 FOR –DET2REV– PROFILE
SEE SHEET 2-F FOR DRAINAGE DITCH DETAILS
SEE SHEETS 2-G, 2-H, & 2-I FOR STREAM RELOCATION DETAILS

SLOPESTAKES FOR –L– & –Y– ALIGNMENTS
SLOPESTAKES FOR TEMPORARY DETOUR ALIGNMENTS

ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE DENOTED

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

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5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-9/CONST.9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

30 x 24 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
16 ft. weir
ID 9.1 F

SR 1434 (AIRPORT RD.)
2,800 / 4,400
2,500 / 3,700 — 300 / 700
8,600 / 13,400 — NC 28 — 6,400 / 10,400
2007 ADT
2030 ADT

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

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

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

NAD 83/95

42 x 12 x 3
ID 9.2 CG

25 x 12 x 3
4 ft. weir
ID 9.9 F

30 x 12 x 3
ID 9.1 CG

30 x 15 x 3
7 ft. weir
ID 9.6 F

30 x 15 x 3
7 ft. weir
ID 9.7 F

-Y7- POT Sta. 14+30.00
-Y7- POT Sta. 13+75.00
END CONSTRUCTION
-BY7- 47
-Y7- STA 13+69.48
17.07 LT
-DET2REV- PRC Sta. 24+28.37
-DET2REV- PT Sta. 26+09.72=
-L- POT Sta. 113+61.00
END CONSTRUCTION
-BL- 20
-L- STA 120+81.08
19.91 LT
-DR- POT Sta. 11+31.03
END CONSTRUCTION
-DR- PT Sta. 11+37.1
-DET2REV- PC Sta. 22+47.01
-L- POT Sta. 110+61.87
-Y7- POT Sta. 10+00.00
-DET3REV- PC Sta. 10+80.00
-DET3REV- POT Sta. 10+00.00
-DET3REV- PT Sta. 15+10.73
-DET3REV- PRC Sta. 12+14.15
-BL- 18
-L- STA 101+97.06
19.09 LT
-BY7- 48
-BL- 19
-L- STA 115+05.68
27.38 RT

BEGIN SBG
-L- STA 105+20 LT
END SBG
-Y7- STA 10+75 LT

BEGIN SBG
-L- STA 109+65 RT
END SBG
-L- STA 112+00 RT

BEGIN EXPRESSWAY GUTTER
-L- STA 111+50.00
END EXPRESSWAY GUTTER
-L- STA 116+75.00

SEE DETAIL N
LATERAL V DITCH
W/CL I RIP RAP
-L- STA 108+00 – 108+50 LT
EST. 23 TONS
53 S.Y. FF
DDE EST= 271 CY

SEE DETAIL M
BERM DITCH W/CL B RIP RAP
-L- STA 111+50 – 112+50 LT
EST. 32 TONS
99 S.Y. FF

CL 'B' RIP RAP
EST. 2 TONS
7 S.Y. FF

CL 'B' RIP RAP
EST. 3 TONS
10 S.Y. FF

CL 'B' RIP RAP
EST. 3 TONS
10 S.Y. FF

BAND/EXTEND
W/18" CSP

SEE SHEET 2-F FOR
STREAM DETAIL

REMOVE
EXISTING
CULVERT

REMOVE EXISTING
6'X6' STONE MASONRY
CULVERT

DO NOT DISTURB
FENCE

SEE DETAIL F
CL 'B' RIP RAP
TOE PROTECTION
EST. 17 TONS
34 S.Y. FF

CL II RIP RAP
EST. 45 TONS

UNIFORM TRANSITION

TRANSITION
PUE TO AUE

TRANSITION
AUE TO PUE

DO NOT DISTURB
WHEEL CHAIR RAMP

SEE DETAIL H
TOE PROTECTION
W/CL B RIP RAP
-L- STA 117+35 -120+50 RT
EST. 51 TONS
157 S.Y. FF

CLASS I RIP RAP
ROCK CHECK
EST. 7 TONS
15 S.Y. FF

PERMANENT
STONE
SILT
SCREEN

PLUG AND FILL

BENCHMARK INSTALLATION
#8 WELDED STEEL

CAROLE ANN SIMMONS
DB C-23 PG 431
60

CAROLINA BUILDER
SERVICES INC
DB W3Q PG 1300
61Z

DUKE ENERGY
CAROLINAS, LLC
DB S-23 PG 1149
62Z

LARRY DALE FOUTS
DB F-16 PG 118
64Z

DAVID CHARLES MYERS
DB T-24 PG 1528

THOMAS HARMON
DB I-19 PG 961

JAY MITCHELL HOUSTON
DB T-28 PG 1390
65

DENNIS THOMPSON
DB G-25 PG 1554
66Z

BERNICE D. HENRY
DB T-6 PG 456
67Z

PAULINE S. HOUSTON
DB M-5 PG 425
69

CHLOE P. HOUSTON
DB K-6 PG 569
68

JOHN C PARRISH
DB Q-6 PG 55
70Z

MATCHLINE TO SHEET 8
-L- STA. 108+00.00

MATCHLINE TO SHEET 10
-L- STA. 121+00.00

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Small Project sheet AT PERVIS 2003

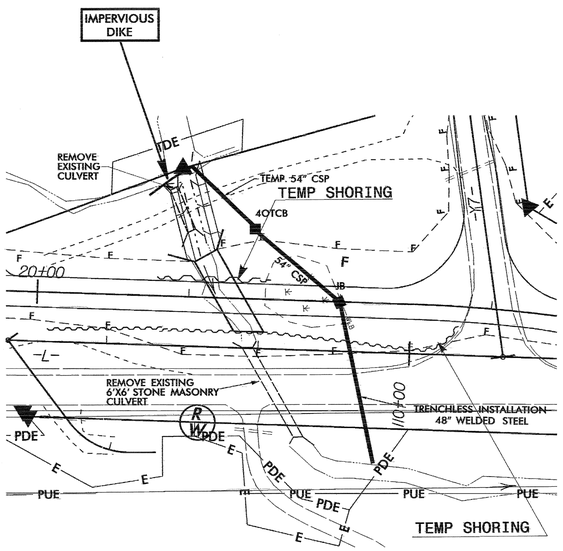
CULVERT CONSTRUCTION SEQUENCE STA. 109+00.28 –L–

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-10/CONST.9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PHASE I

1. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT CULVERT CONSTRUCTION.
2. INSTALL 48" WELDED STEEL PIPE USING TRENCHLESS METHOD. INSTALL REMAINDER OF PIPE SYSTEM.
3. CONSTRUCT IMPERVIOUS DIKE, DIVERTING FLOW INTO THE 54" TEMPORARY CSP.
4. REMOVE EXISTING UPSTREAM CULVERT AND CONSTRUCT UPSTREAM PORTION OF PROPOSED CULVERT, INCLUDING UPSTREAM CHANNEL IMPROVEMENTS.
5. CONSTRUCT ONSITE DETOUR AND SHIFT TRAFFIC.

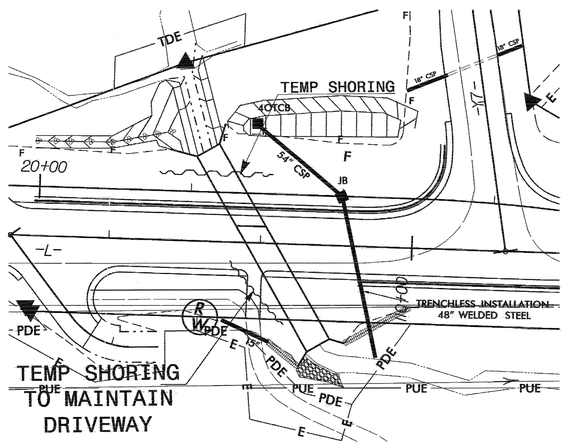
NAD 83/95



PHASE II

6. REMOVE EXISTING CULVERT.
7. CONSTRUCT REMAINDER OF PROPOSED CULVERT, INCLUDING ANY NECESSARY DOWNSTREAM CHANNEL IMPROVEMENTS.
8. REMOVE IMPERVIOUS DIKE AND 54" TEMPORARY CSP, ALLOWING FLOW THROUGH PROPOSED CULVERT.
9. CONSTRUCT PROPOSED ROADWAY FILL, SHIFT TRAFFIC TO THE NEW ROADWAY, AND REMOVE DETOUR FILL.
10. REMOVE ANY REMAINING SPECIAL STILLING BASIN(S), AND COMPLETE ROADWAY.

NAD 83/95



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PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-11/CONST.10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10

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

-L-
PI Sta 126+36.27
Δ = 38° 57' 59.8" (RT)
D = 5° 22' 47.6"
L = 724.30'
T = 376.79'
R = 1,065.00'
e = .06
RO = 156'
Vdes = 55mph

42 x 12 x 3
ID 10.4 CG

48 x 12 x 3
ID 10.5 CG

JAMES H. PARRISH
DB Q-32 PG 834
81

NAD 83/95

130+00

362.06'
N 37°08'40" E

REGINA M. MOORE
DB B-19 PG 1560
73Z

JESSIE J. WILSON
DB L-15 PG 293
74

PAULINE S. HOUSTON
DB M-5 PG 425
69

26 x 12 x 3
ID 10.4 F

36 x 12 x 3
ID 10.3 F

123+00

S 37°18'18" W
205.73'

-BL- 21
-L- STA 127+41.40
18.84 LT

ENVIRONMENTALLY SENSITIVE AREA
31MA589
DO NOT DISTURB EXISTING EARTH
+50.00
86.00'

LOIS J. MEADOWS
DB N-6 PG 215
72

73Z

BM = 10
BL- STA. 125+16.41
46.17 LT
ELEV. = 2093.16

+40.00
95.00'

CHANGE FILL SLOPE TO 5:1
@ -L- STA 132+50 LT
AND TO @ 4:1 @
-L- STA 133+00 LT

SEE DETAIL H
TOE PROTECTION
W/CL B RIP RAP
-L- STA 134+10 – 133+30 LT
EST. 3 TONS
11 S.Y. FF

+92.00
90.00'
50.00'

+12.00
50.00'

+83.78
50.00'

+49.00
60.00'

+90.00
50.00'
60.00'

REMOVE
112
+11.00
50.00'
60.00'

+73.00
50.00'

+00.00
61.00'

+28.00
50.00'

PDE

PUE

REMOVE

NC 28 BRYSON CITY RD 20' BST

N 45° 50' 46.6" E

N 44° 08' 54.6" E

REMOVE

PLUG

REMOVE 25'

+97.00
50.00'
73.00'

16.00
20.00'
73.00'

SEE DETAIL O
3' STD BASE DITCH
-L- 124+10 LT

ENVIRONMENTALLY SENSITIVE AREA
31MA588
DO NOT DISTURB EXISTING EARTH

+59.48
50.00'

REMOVE 18" & HW'S
REPLACE W/36"

N 16° 55' 40" E

CL 'B' RIP RAP
EST. 1 TONS
5 S.Y. FF

+32.00
50.00'
64.00'

+54.00
50.00'
64.00'

+78.00
91.00'

CL 'I' RIP RAP
EST. 15 TONS
30 S.Y. FF

+23.00
50.00'
92.00'

SEE DETAIL P
3' STD BASE DITCH
W/CL 1 RIP RAP
-L- 124+10 RT

BEGIN SBG
-L- STA 123+00 RT
END SBG
-L- STA 125+50 RT

+83.78
50.00'
62.00'

SEE DETAIL D
SPECIAL LATERAL V DITCH
-L- 131+50 RT

-DET3REV- PT Sta. 28+52.73

-L- PT Sta. 129+83.78

GEORGE
RICHARD
GIBSON
DB S-16
PG 36
75

CL 'B' RIP RAP
EST. 7 TONS
22 S.Y. FF

LINDA CUNNINGHAM
DB S-16 PG 365
71

30+00

26 x 18 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
10 ft. weir
ID 10.5 F

22 x 10 x 3
4 ft. weir
ID 10.6 F

MATCHLINE TO SHEET 11
-L- STA. 134+00.00

N 6° 52' 46.8" W

+28.95
74.52'

+00.00
71.00'

+10.00
125.00'

-DET3REV- PC Sta. 21+51.65

25+00

MATCHLINE TO SHEET 9
-L- STA. 121+00.00

+31.00
73.00'

70Z

+65.00
120.00'

+79.00
180.00'

+10.00
180.00'

-L- PCSta. 122+59.48

SEE DETAIL D
SPECIAL LATERAL V DITCH
-L- 121+50 – 122+40 RT

JOHN C PARRISH
DB 0-6 PG 55
70Z

20+00

44 x 20 x 3
12 ft. weir
ID 10.1 CG

30 x 15 x 3
7 ft. weir
ID 10.2 CG

SEE SHEETS 26 & 27 FOR -L- PROFILE
SEE SHEETS 19,20,21 & 22 FOR -DET3REV- PLAN VIEW
SEE SHEETS 35 FOR -DET3REV- PROFILE
SEE SHEET 2-F FOR DRAINAGE DITCH DETAILS

ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE DENOTED

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CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 11

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

PROJECT REFERENCE NO.	SHEET NO.
R–2408B	EC-12/CONST.11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

–L–
PI Sta 139+20.62
△= 62° 13' 08.7" (LT)
D = 7° 09' 43.1"
L = 868.74'
T = 482.77'
R = 800.00'
e = .06
RO = 138'
Vdes = 45mph *
* denotes design exception

NAD 83/95

MATCHLINE TO SHEET 10
–L– STA. 134+00.00

MATCHLINE TO SHEET 13
–L– STA. 147+00.00

48 x 12 x 3
ID 10.5 CG

40 x 25 x 3
17 ft. weir
ID 11.1 F

60 x 12 x 3
4 ft. weir
ID 11.1 CG

–DET3REV– PC Sta. 33+08.91

–BL– 22
–L– STA 134+19.33
31.39 RT

–BL– 23
–L– STA 139+54.16
38.34 RT

–BL– 24
–L– STA 146+82.86
18.13 RT

–DET3REV– PT Sta. 42+11.42

–L– PCSta. 134+37.85

–L– PTSta. 143+06.59

BM # 11
–BL– STA. 140+55.38
74.95 LT.
ELEV. = 209.97

JAMES H. PARRISH
DB Q-32 PG 834

JAMES H. PARRISH
DB B-17 PG 93

DONALD/ W. HOLLAND
DB P-18 PG 601

DONALD W HOLLAND
DB T-30 PG 1001

LINDA CUNNINGHAM
DB S-16 PG 365

GEORGE RICHARD GIBSON
DB S-16 PG 364

HUGH SHANNON
STACY TRACIA PARRISH SHANNON
DB A-27 PG 1804

WILLIAM T. PARRISH
DB Z-21 PG 156

SEE DETAIL R
SPECIAL LATERAL V DITCH
–L– STA 144+50 – 145+50 RT

PLUSH OUT
CUT SLOPES
FROM 136+80
TO 137+50

SEE SHEET 27 FOR –L– PROFILE
SEE SHEET 35 FOR –DET3– PROFILE
SEE SHEETS 19, 20, 21 & 22 FOR –DET3– PLANVIEW
SEE SHEET 2–F FOR DRAINAGE DITCH DETAILS

– – – – – – SLOPESTAKES FOR –L– & –Y– ALIGNMENTS
– · – · – · – SLOPESTAKES FOR TEMPORARY DETOUR ALIGNMENTS

ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE DENOTED

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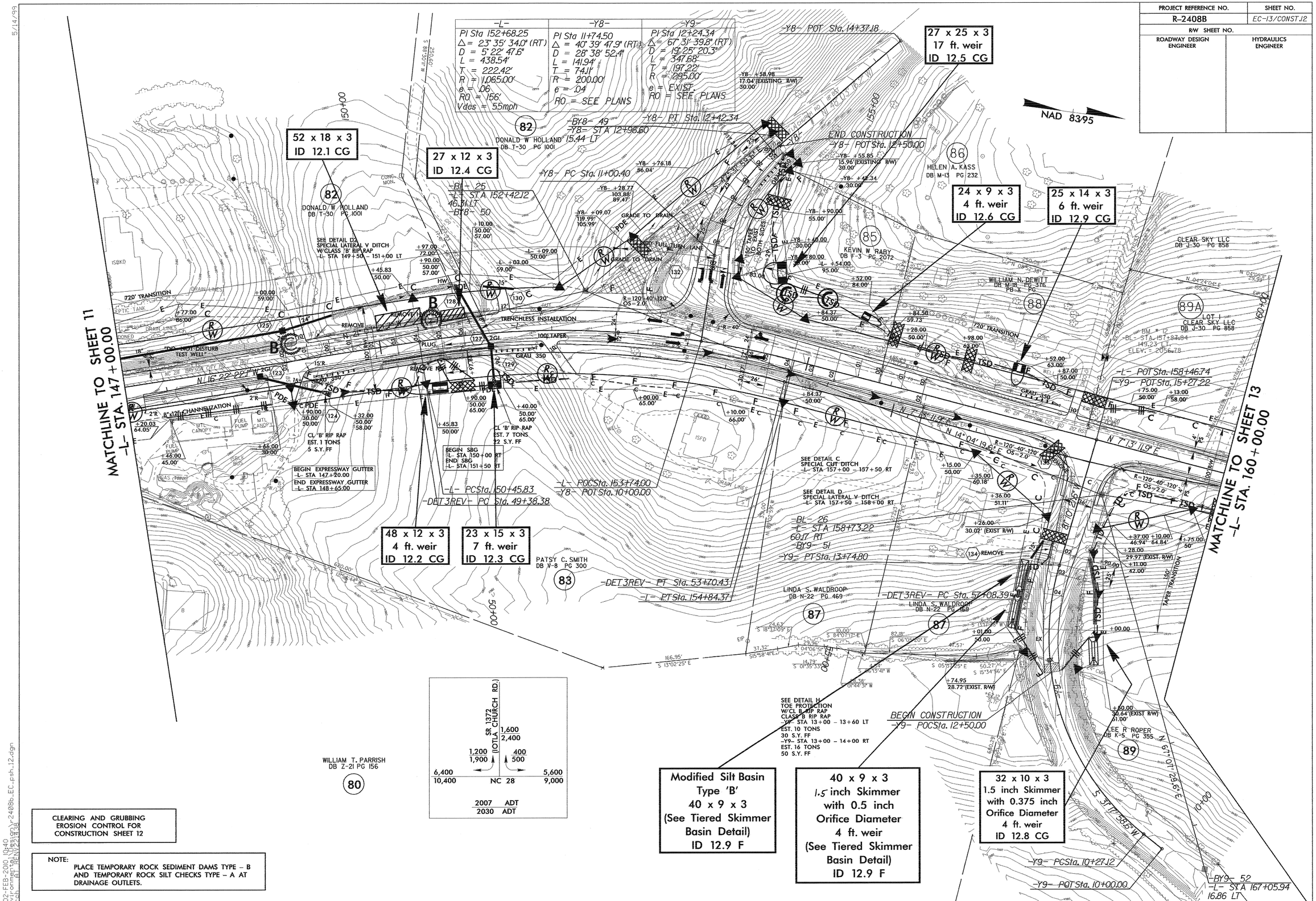
PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-13/CONST.12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 12

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

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PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-14/CONST.13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-
PI Sta 173+01.30
△ = 12° 56' 57.8" (RT)
D = 3° 00' 56.0"
L = 429.42'
T = 215.63'
R = 1,900.00'
e = .05
RO = 135'
Vdes = 60mph

NAD 83/95

MATCHLINE TO SHEET 12 -L- STA. 160 + 00.00

MATCHLINE TO SHEET 14 -L- STA. 172 + 00.00

CLEAR SKY LLC DB J-30 PG 858

LOT 2 CLEAR SKY LLC DB J-30 PG 858

LOT 3 DANIEL K. CROCKETT DB F-31 PG 78

LOT 4 CLEAR SKY LLC DB J-30 PG 858

LOT 5 CLEAR SKY LLC DB J-30 PG 858

LOT 6 CLEAR SKY LLC DB J-30 PG 858

THOMAS A BOWMAN DB F-26 PG 753

RUFUS TAYLOR DB T-6 PG 403

LEE R ROPER DB K-5 PG 355

CLAYTON RAMSEY DB U-18 PG. 209

CLAYTON H. RAMSEY DB H-10 PG 296

720' TRANSITION

SEE DETAIL C SPECIAL CUT DITCH -L- STA 169+50 – 170+00 LT

SEE DETAIL D SPECIAL LATERAL-V DITCH -L- STA 170+00 – 171+50 LT

-L- PCSta. 170+85.67

NC 28 BRYSON CITY RD 20' BST

N 7° 13' 11.9" E

REMOVE

REMOVE HW

RETAIN

BAND/EXTEND W/18" CSP

18" CSP

CL 'B' RIP RAP EST. 2 TONS 7 S.Y. FF

-DET6- PRC Sta. 12+39.11

-DET6- POT Sta. 10+00.00= -L- POT Sta. 165+00.00

-DET3REV- PT Sta. 61+11.17= -L- POT Sta. 162+19.20

-DET6- PC Sta. 10+26.80

-DET3REV- PRC Sta. 59+09.78

-DET6- PT Sta. 14+51.42

-DET6- PC Sta. 15+87.09

22 x 14 x 3 6 ft. weir ID 13.1 CG

46 x 9 x 3 4 ft. weir ID 13.4 F

48 x 9 x 3 4 ft. weir ID 13.5 F

35 x 18 x 3 10 ft. weir ID 13.2 CG

25 x 12 x 3 4 ft. weir ID 13.3 CG

54 x 9 x 3 ID 13.4 CG

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 13

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

SEE SHEETS 27 & 28 FOR –L– PROFILE
SEE SHEETS 19, 20, 21, & 22 FOR –DET3– PLANVIEW
SEE SHEET 35 FOR –DET3– PROFILE
SEE SHEET 23 FOR –DET6– PLANVIEW
SEE SHEET 2–F FOR DRAINAGE DITCH DETAILS

SLOPESTAKES FOR –L– & –Y– ALIGNMENTS
SLOPESTAKES FOR TEMPORARY DETOUR ALIGNMENTS

ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE DENOTED

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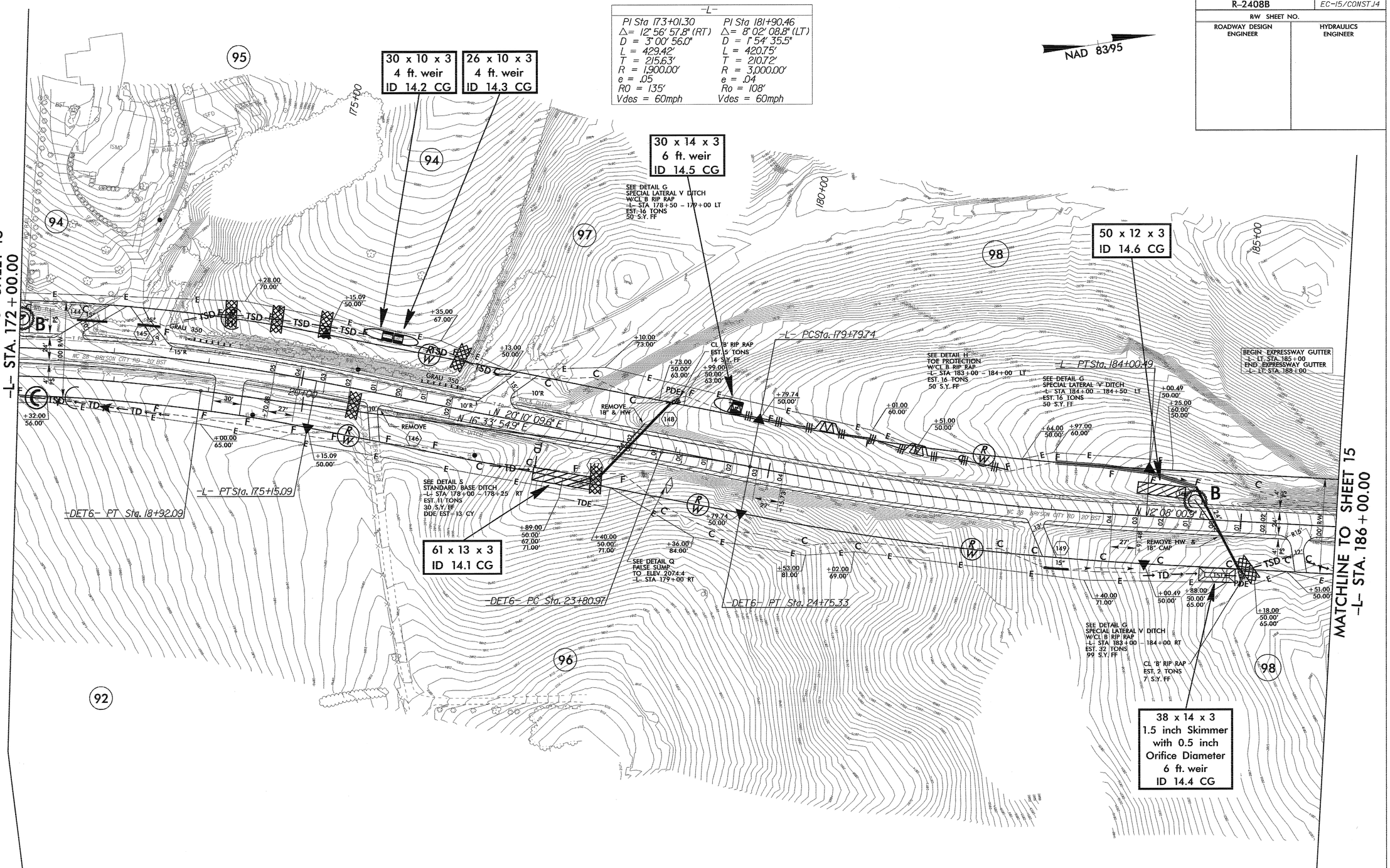
PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-15/CONST.14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-

PI Sta 173+01.30	PI Sta 181+90.46
Δ= 12° 56' 57.8" (RT)	Δ= 8° 02' 08.8" (LT)
D = 3° 00' 56.0"	D = 1° 54' 35.5"
L = 429.42'	L = 420.75'
T = 215.63'	T = 210.72'
R = 1,900.00'	R = 3,000.00'
e = .05	e = .04
RO = 135'	Ro = 108'
Vdes = 60mph	Vdes = 60mph



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 14

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

SEE SHEETS 28 & 29 FOR -L- PROFILE
SEE SHEETS 23 FOR -DET6- PROFILE
SEE SHEET 2-F FOR DRIANAGE DITCH DETAILS

- - - - - - SLOPESTAKES FOR -L- & -Y- ALIGNMENTS
-·-·-·- SLOPESTAKES FOR TEMPORARY DETOUR ALIGNMENTS

ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE DENOTED

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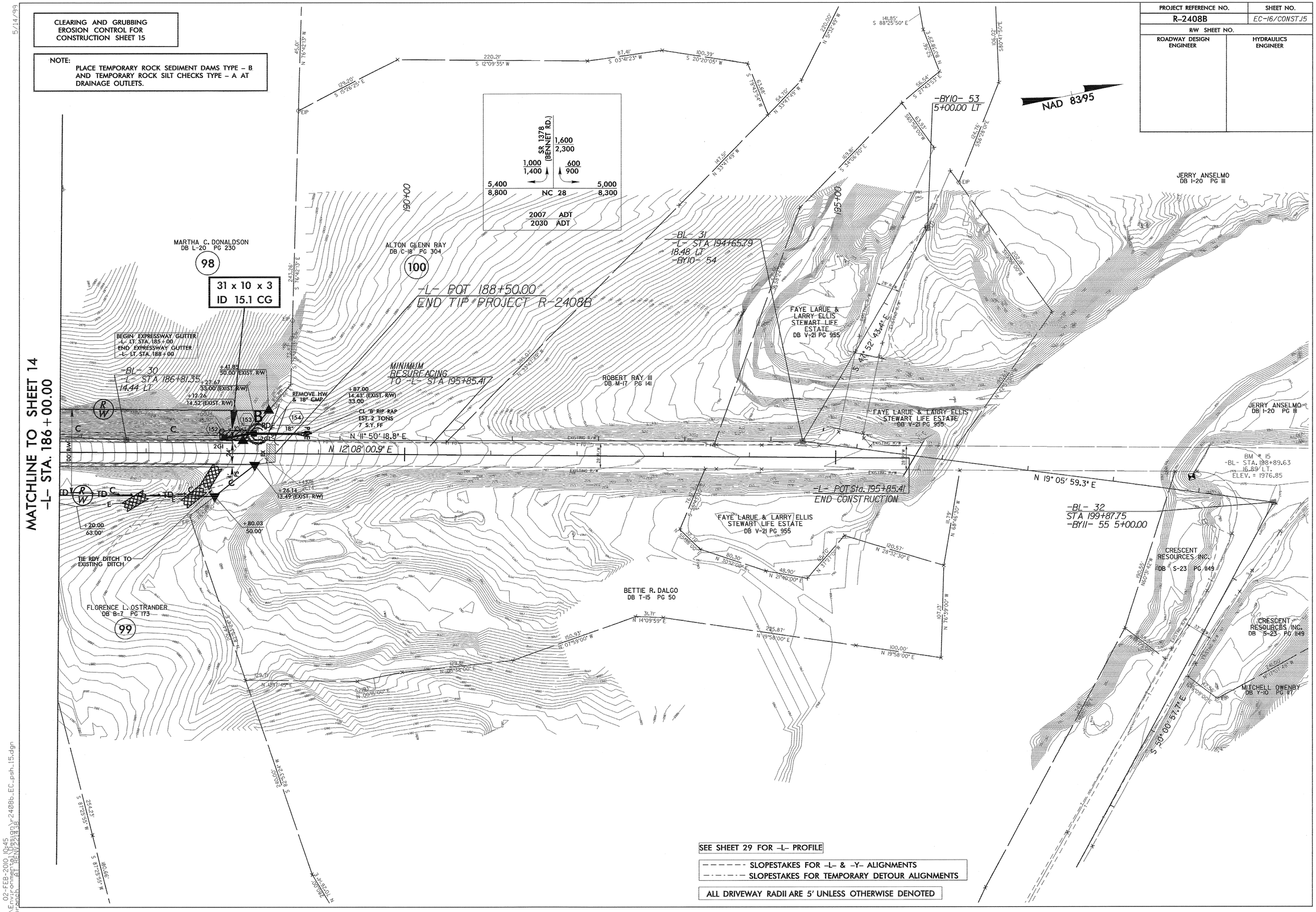
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 15

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

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-16/CONST.15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



SEE SHEET 29 FOR -L- PROFILE

- - - - - - SLOPESTAKES FOR -L- & -Y- ALIGNMENTS
-·-·-·- SLOPESTAKES FOR TEMPORARY DETOUR ALIGNMENTS

ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE DENOTED

5/14/99

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PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-17/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

2007 ADT			
2030 ADT		6,000 / 10,000	
		NC 28	
	600 / 2,200		5,400 / 7,800
5,600			10,400
9,700	SR 1323	NC 28	15,300

-L-
PI Sta 58+09.32
△ = 34° 28' 15.7" (RT)
D = 7° 09' 43.1"
L = 481.31'
T = 248.18'
R = 800.00'
e = .06
RO = 138'
Vd = 45mph

NAD 8395

MELANIE C. DOWNS
DB I-24 PG 1691
PB 1/291 PG 4

LOUISE M. ARVEY
DB R-8 PG 349

MILDRED D. CARPENTER
D.B. Y-4 PG. 21

MARK ROBERT NOWICKI
DB Y-21 PG 1754

MARK ROBERT NOWICKI
DB Y-21 PG 1754

MARK ROBERT NOWICKI
DB E-24 PG 130

THEODORE TALLENT
DB N-6 PG 439

KHANS OF FRANKLIN, INC.
DB S-24 PG 1966

JAMES L. KINSLAND
DB G-24 PG 1649

CATHY S. CONNER
DB H-16 PG 60

NORMAN WEST
DB Z-5 PG 109

JAMES L. KINSLAND
DB U-18 PG 159

CHARLES D. BALDWIN
DB Y-11 PG 203

-L- POC 56+50.00
END PROJECT R-2408A
BEGIN TIP PROJECT R-2408B

-BL- 8
-L- STA 51+44.52
.61 21 RT

PI Sta 42+76.13
△ = 26° 35' 59.0" (LT)
D = 9° 32' 57.5"
L = 278.55'
T = 141.83'
R = 600.00'

-L- POT Sta. 49+95.47

PI Sta 49+74.48
△ = 2° 00' 16.3" (RT)
D = 4° 46' 28.7"
L = 41.98'
T = 20.99'
R = 1,200.00'

TO BE CONSTRUCTED UNDER PROJECT R-2408A

-L- PCSta. 55+61.13

PCSta. 49+53.49

BM # 4
-BL- STA. 49+92.61
42.45 RT.
ELEV. = 2059.820

TIE PROP SS TO EXIST

TIE PROP SS TO EXIST

70 x 12 x 3
ID 4.1 CG

MATCHLINE TO SHEET 5
-L- STA. 57+00.00

PROJECT R-2408A

SEE SHEET 24 FOR -L- PROFILE

ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE DENOTED

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sr-brarch A1 "C" RENV22138

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PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-18/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-	-Y3REV-
PI Sta 58+09.32	PI Sta 63+96.87
Δ = 34° 28' 15.7" (RT)	Δ= 41° 16' 56.0" (LT)
D = 7° 09' 43.1"	D = 7° 32' 20.1"
L = 481.31'	L = 547.59'
T = 248.18'	T = 286.29'
R = 800.00'	R = 760.00'
e = .06	e = .06
RO = 138'	RO = 138'
Vd = 45mph	Vd = 45mph

-Y3REV-
PI Sta 13+24.68
Δ = 46° 23' 47.1" (RT)
D = 16° 22' 12.8"
L = 283.42'
T = 150.00'
R = 350.00'
e = .02
RO = SEE PLANS

10,400 / 15,300 — NC 28 — 8,600 / 13,200
2,000 / 2,900 — 200 / 800
SR 1337 (RIVERBEND RD.)
2,200 / 3,700
2007 ADT
2030 ADT

MATCHLINE TO SHEET 4 -L- STA. 57+00.00

MATCHLINE TO SHEET 6 -L- STA. 71+50.00

NAD 83/95

MARK ROBERT NOWICKI
DB Y-21 PG 1754

-BL- 9
-L- STA 58+56.35
35.05 LT
-BY2-38

-BY2- 37
-L- STA 59+07.87
281.02 LT

EASEMENT ACQUIRED UNDER R-2408A

CL 'I' RIP RAP
EST. 33 TONS
47 S.Y. FF
SEE DETAIL 'V'

GUY O. DUVALL
DB N-24 PG 541

UT to Little Tennessee River

96 x 16 x 3
1.5 inch Skimmer with 1.125 inch Orifice Diameter
8 ft. weir
ID 5.1 CG

38 x 12 x 3
ID 5.6 F

42 x 12 x 3
ID 5.7 F

30 x 10 x 3
ID 5.8 F

34 x 10 x 3
ID 5.5 F

28 x 10 x 3
ID 5.4 F

45 x 12 x 3
ID 5.1 F

50 x 12 x 3
ID 5.2 F

58 x 12 x 3
ID 5.3 F

JULIA MOODY BRITT
DB Z-28 PG 720
40

MARJORIE MOODY MENEFEE
DB Z-28 PG 716
43

EVELYN GREER
DB P-12 PG 132
38

CHARLES D. BALDWIN
DB Y-11 PG 203

SUSAN SANDERS
DB H-30 PG 1826
41

LAURA M KNIGHT
DB J-27 PG 1339
42

CIBIRAS ANGELOA
DB H-25 PG 1006
42A

CHARLES MOODY JR
DB H-28 PG 344
DB Z-28 PG 718
44

G-SQUARED LLC
DB M-30 PG 1420
44A

-L- PCSta. 61+10.58

-L- PTSta. 66+58.17

-L- POTSta. 69+00.00

-Y3REV- POTSta. 15+11.30

-L- PTSta. 60+42.44

-Y3REV- PT Sta. 14+58.10

-BL- 10
-L- STA 64+15.69
49.11 RT

-BL- 11
-L- STA 67+56.17
19.63 RT
-BY3- 39

-BY3- 40
-Y3REV- STA 12+72.78
29.39 LT

-Y3REV- PC Sta. 11+74.68

-DETIREV- POT Sta. 10+00.00

-L- POT Sta. 70+85.00

-Y3REV- 10+25.00
BEGIN CONSTRUCTION

BM = 5
-BL- STA. 65+02.65
46.58 RT.
ELEV. = 2126.12

BEGIN EXPRESSWAY GUTTER
-L- STA 58+00.00 RT
END EXPRESSWAY GUTTER
-L- STA 60+00.00 RT

SEE DETAIL A
SPECIAL LATERAL 'V' DITCH
-L- STA 69+50 - 70+50 RT

SEE DETAIL A
SPECIAL CUT DITCH
-L- STA 66+50 - 68+00 LT

DO NOT DISTURB TELEPHONE PEDESTAL & POLE

SLOPESTAKES FOR -L- & -Y- ALIGNMENTS
SLOPESTAKES FOR TEMPORARY DETOUR ALIGNMENTS

ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE DENOTED

SEE SHEET 24 FOR -L- PROFILE
SEE SHEET 30 FOR -Y3- PROFILE
SEE SHEET 16 FOR -DETIREV- PLANVIEW
SEE SHEET 32 FOR -DETIREV- PROFILE
SEE SHEET 2-F FOR DRAINAGE DITCH DETAILS

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srbranch
ATT1, ATT2, ATT3, ATT4, ATT5, ATT6, ATT7, ATT8, ATT9, ATT10, ATT11, ATT12, ATT13, ATT14, ATT15, ATT16, ATT17, ATT18, ATT19, ATT20, ATT21, ATT22, ATT23, ATT24, ATT25, ATT26, ATT27, ATT28, ATT29, ATT30, ATT31, ATT32, ATT33, ATT34, ATT35, ATT36, ATT37, ATT38, ATT39, ATT40, ATT41, ATT42, ATT43, ATT44, ATT45, ATT46, ATT47, ATT48, ATT49, ATT50, ATT51, ATT52, ATT53, ATT54, ATT55, ATT56, ATT57, ATT58, ATT59, ATT60, ATT61, ATT62, ATT63, ATT64, ATT65, ATT66, ATT67, ATT68, ATT69, ATT70, ATT71, ATT72, ATT73, ATT74, ATT75, ATT76, ATT77, ATT78, ATT79, ATT80, ATT81, ATT82, ATT83, ATT84, ATT85, ATT86, ATT87, ATT88, ATT89, ATT90, ATT91, ATT92, ATT93, ATT94, ATT95, ATT96, ATT97, ATT98, ATT99, ATT100, ATT101, ATT102, ATT103, ATT104, ATT105, ATT106, ATT107, ATT108, ATT109, ATT110, ATT111, ATT112, ATT113, ATT114, ATT115, ATT116, ATT117, ATT118, ATT119, ATT120, ATT121, ATT122, ATT123, ATT124, ATT125, ATT126, ATT127, ATT128, ATT129, ATT130, ATT131, ATT132, ATT133, ATT134, ATT135, ATT136, ATT137, ATT138, 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ATT764, ATT765, ATT766, ATT767, ATT768, ATT769, ATT770, ATT771, ATT772, ATT773, ATT774, ATT775, ATT776, ATT777, ATT778, ATT779, ATT780, ATT781, ATT782, ATT783, ATT784, ATT785, ATT786, ATT787, ATT788, ATT789, ATT790, ATT791, ATT792, ATT793, ATT794, ATT795, ATT796, ATT797, ATT798, ATT799, ATT800, ATT801, ATT802, ATT803, ATT804, ATT805, ATT806, ATT807, ATT808, ATT809, ATT810, ATT811, ATT812, ATT813, ATT814, ATT815, ATT816, ATT817, ATT818, ATT819, ATT820, ATT821, ATT822, ATT823, ATT824, ATT825, ATT826, ATT827, ATT828, ATT829, ATT830, ATT831, ATT832, ATT833, ATT834, ATT835, ATT836, ATT837, ATT838, ATT839, ATT840, ATT841, ATT842, ATT843, ATT844, ATT845, ATT846, ATT847, ATT848, ATT849, ATT850, ATT851, ATT852, ATT853, ATT854, ATT855, ATT856, ATT857, ATT858, ATT859, ATT860, ATT861, ATT862, ATT863, ATT864, ATT865, ATT866, ATT867, ATT868, ATT869, ATT870, ATT871, ATT872, ATT873, ATT874, ATT875, ATT876, ATT877, ATT878, ATT879, ATT880, ATT881, ATT882, ATT883, ATT884, ATT885, ATT886, ATT887, ATT888, 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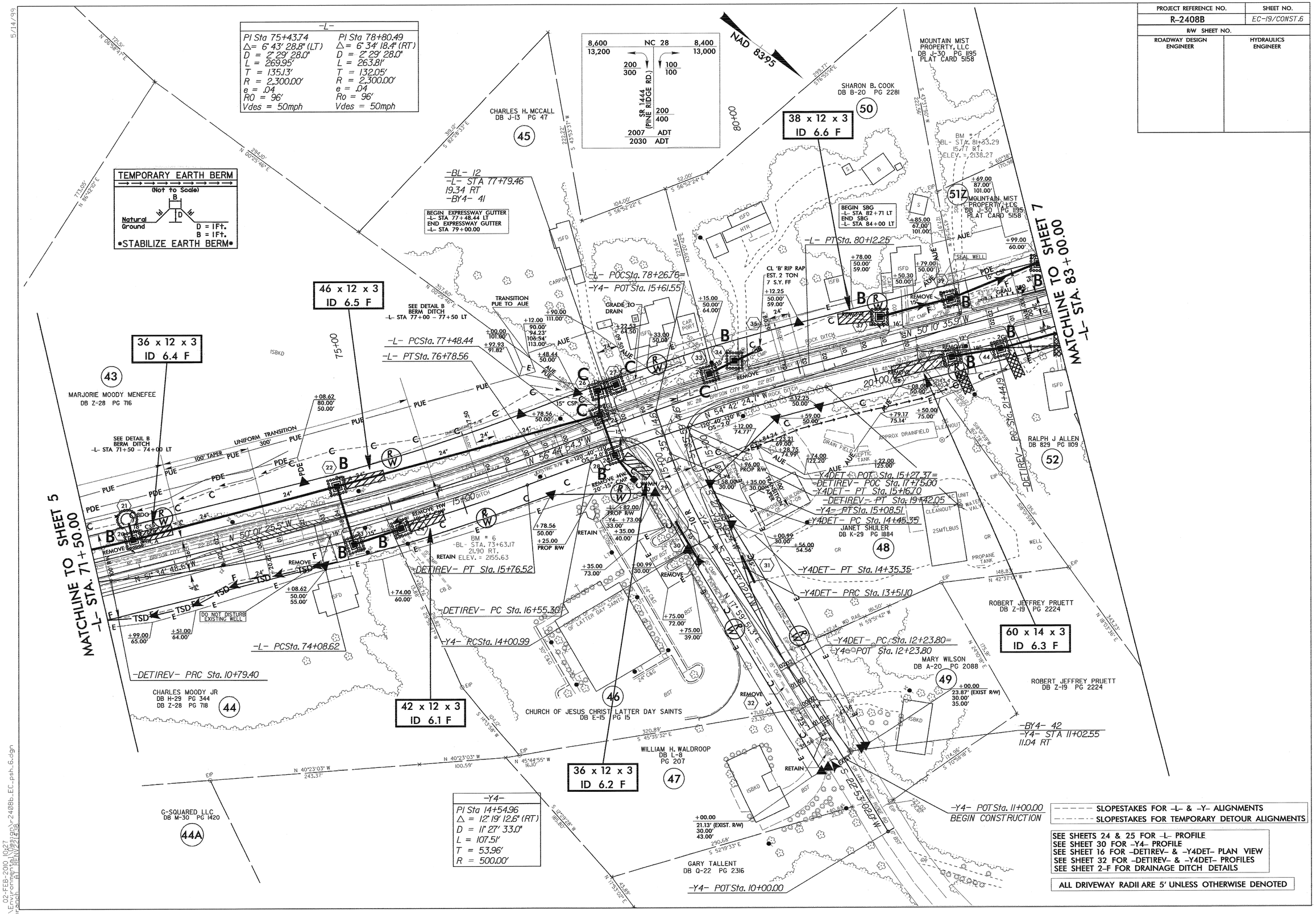
PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-19/CONST.6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



SLOPESTAKES FOR -L- & -Y- ALIGNMENTS
SLOPESTAKES FOR TEMPORARY DETOUR ALIGNMENTS

SEE SHEETS 24 & 25 FOR -L- PROFILE
SEE SHEET 30 FOR -Y4- PROFILE
SEE SHEET 16 FOR -DETIREV- & -Y4DET- PLAN VIEW
SEE SHEET 32 FOR -DETIREV- & -Y4DET- PROFILES
SEE SHEET 2-F FOR DRAINAGE DITCH DETAILS

ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE DENOTED

5/14/99

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PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-20/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

5/14/99

NAD 83'95

-BY5- 43
-Y5- STA 14+58.58
9.09 RT

30 x 10 x 3
ID 7.9 F

28 x 12 x 3
ID 7.10 F

40 x 9 x 3
ID 7.11 F

54 x 14 x 3
ID 7.12 F

55 x 15 x 3
ID 7.8 F

34 x 12 x 3
ID 7.3 F

34 x 12 x 3
ID 7.4 F

40 x 12 x 3
ID 7.5 F

26 x 10 x 3
ID 7.1 F

30 x 10 x 3
ID 7.2 F

40 x 12 x 3
ID 7.6 F

Place Matting for Erosion Control on Slope as Work Allows.

ROBERT P. REVIS
DB C-22 PG 1135
PB 1 PG 121
53

ROBERT PAUL REVIS
DB D-12 PG 5-6
PB 1 PG 70
53

GARY WAYNE CRISP
DB Q-14 PG 98
56

MOUNTAIN MIST PROPERTY, LLC
DB J-30 PG 1195
PLAT CARD 5158

MOUNTAIN MIST PROPERTY, LLC
DB J-30 PG 1195
PLAT CARD 5158

-BL- 13
-L- STA 84+77.59
14.76 LT

BEGIN SBG
-L- STA 82+71 LT
END SBG
-L- STA 84+00 LT

-BL- 14
-L- STA 89+56.97
75.72 LT
-BY5-, -BY6-

-L- POC STA 87+00.00
BEGIN -LTEMP- GRADE

-DETIREV- PRC Sta. 25+21.49

-DETIREV- PT Sta. 25+32.01=
-L- POC Sta. 86+11.17

-BL- 15
-L- STA 93+44.44
46.08 LT

-BL- 16
-L- STA 97+53.91
24.37 LT

-BY6- 45
-Y6- STA 13+77.35
13.36 LT

BEGIN SBG
-L- STA 95+80 LT
END SBG
-L- STA 98+64 LT

MATCHLINE TO SHEET 6
-L- STA. 83+00.00

MATCH LINE TO SHEET 8
-L- STA. 98+00.00

EXPRESSWAY GUTTER
FROM 13+15 TO 13+90 LT.

REMOVE 24"CMP & HW'S

36" RCP BURIED 0.5' UT to Rocky Branch
SEE DETAIL U
CLASS I RIP RAP
ON BANKS ONLY
EST. 16 TONS
DDE = 4 CY

REMOVE 15" RCP
& 4" UNDERDRAIN
AS NEEDED

SEE DETAIL L
SPECIAL LATERAL V DITCH
-Y6- STA 12+50 TO 13+00 LT
EST. 16 TONS
50 S.Y. FF

SEE DETAIL K
LATERAL V DITCH
-Y6- STA 12+00 – 12+50 LT
EST. 21 TONS
61 S.Y. FF
DDE/EST = 19 CY

SEE DETAIL U
CL I RIP RAP
ON BANKS ONLY
EST CL I RIP RAP= 16 TONS

REMOVE 36"
72" RCP BURIED 1.0'

SEE DETAIL M
BERM DITCH W/CL B RIP RAP
EST. 16 TONS
50 S.Y. FF

SEE DETAIL M
BERM DITCH W/CL B RIP RAP
-L- STA 93+50 – 97+50 RT
EST. 129 TONS
398 S.Y. FF

CL 'I' RIP RAP
EST. 2 TON
23' S.Y. FF
TIE TO
EXIST. DRIVE

PLUG
FILL W/FLOWABLE
MATERIAL

TRANSITION
AUE TO PUE

RALPH J ALLEN
DB 829 PG 1109
52

JOYCE BRENDLE FOX
DB Z-22 PG 1219
54

ELMER J SERRLE
DB G 27 PG 989
57

JAMES MCCALL
DB S-25 PG 1881

GARY WAYNE CRISP
DB J-14 PG 232

GARY WAYNE CRISP
DB B-19 PG 1299
BM # 8
-BL- STA 96+34.67
8.89 LT
ELEV. = 2105.84

JOYCE BRENDLE FOX
DB Z-31 PG 237

DO NOT DISTURB
EXISTING WELL

Rocky Branch

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srbranch comet REVISED 1.08

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-21/CONST.8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

5/14/99

Place Matting for Erosion Control on Slope as Work Allows.

TEMPORARY EARTH BERM
(Not to Scale)
B
Natural Ground
D = 1Ft.
B = 1Ft.
STABILIZE EARTH BERM

NAD 83/95

Modified Silt Basin Type 'B' 45 x 9 x 3 (See Tiered Skimmer Basin Detail) ID 8.1 F

45 x 9 x 3 1.5 inch Skimmer with 0.5 inch Orifice Diameter 4 ft. weir (See Tiered Skimmer Basin Detail) ID 8.1 F

22 x 10 x 3 4 ft. weir ID 8.2 F

26 x 12 x 3 ID 8.2 CG

GARY WAYNE CRISP DB B-19 PG 1299 (56)

GARY WAYNE CRISP DB Q-14 PG 98 (56)

CAROLE ANN SIMMONS DB C-23 PG 437 (60)

JOYCE BRENDLE FOX DB Z-31 PG 2377 (58)

JAMES MCCALL DB S-25 PG 1881

JACQUELIN G. NELSON DB C-20 PG 66 (59)

CAROLINA BUILDER SERVICES INC DB W30 PG 1300 (61Z)

DUKE ENERGY CAROLINAS, LLC DB S-23 PG 1149 (62)

WILLIAM A. ROTEN DB G-14 PG 16 (101)

DAVID CHARLES MYERS DB T-24 PG 1528

MATCHLINE TO SHEET 7 -L- STA. 98+00.00

MATCHLINE TO SHEET 9 -L- STA. 108+00.00

-DET2REV- PRC Sta. 14+15.46=
-L- POC Sta. 101+70.40
END -LTEMP- GRADE
BEGIN -DET2REV- GRADE
BEGIN CONSTRUCTION

-DET2REV- PRC Sta. 17+18.82

-DET2REV- PT Sta. 19+59.27

-L- PC Sta. 99+42.07

-L- PT Sta. 104+68.16

-BL- 17
-L- STA 101+78.93
16.14 RT

-DR- POT Sta. 10+00.00=
-L- POT STA 107+35.00

-DR- PC Sta. 10+67.18

-DR- POC Sta. 10+85.00
END PAVEMENT
BEGIN ABC

SEE DETAIL E
LATERAL BASE DITCH W/CL B RIP RAP
-L- STA 98+50 - 100+00 LT
EST. 64 TONS
122 S.Y. FF
DDE = 108 CY

BEGIN SBG
-L- STA 95+80 LT
END SBG
-L- STA 98+64 LT

TAIL DITCH W/CLASS I RIP RAP
EST. 17 TONS
24 S.Y. FF
SEE DETAIL T

SEE SHEET 2-H
ROCK CROSS VANE (RCV)

STREAM RELOCATION
SEE SHEETS 2-F, 2-G & 2-H FOR DETAIL

SEE SHEET 2-F FOR STREAM DETAIL

BEGIN SBG
-L- STA 105+20 LT
END SBG
-Y- STA 10+75 LT

CL 'B' RIP RAP
EST. 5 TON
14 S.Y. FF

CL 'B' RIP RAP
EST. 2 TON
7 S.Y. FF

Rocky Branch

360' UNIFORM TRANSITION

SEE SHEETS 25 & 26 FOR -L- PROFILE
SEE SHEETS 18 FOR -DET2REV- PLAN VIEW
SEE SHEETS 33 FOR -DET2REV- PROFILE
SEE SHEET 2-F FOR DRAINAGE DITCH DETAILS
SEE SHEET 2-G, 2-H, & 2-I FOR STREAM RELOCATION DETAILS

SLOPESTAKES FOR -L- & -Y- ALIGNMENTS
SLOPESTAKES FOR TEMPORARY DETOUR ALIGNMENTS

ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE DENOTED

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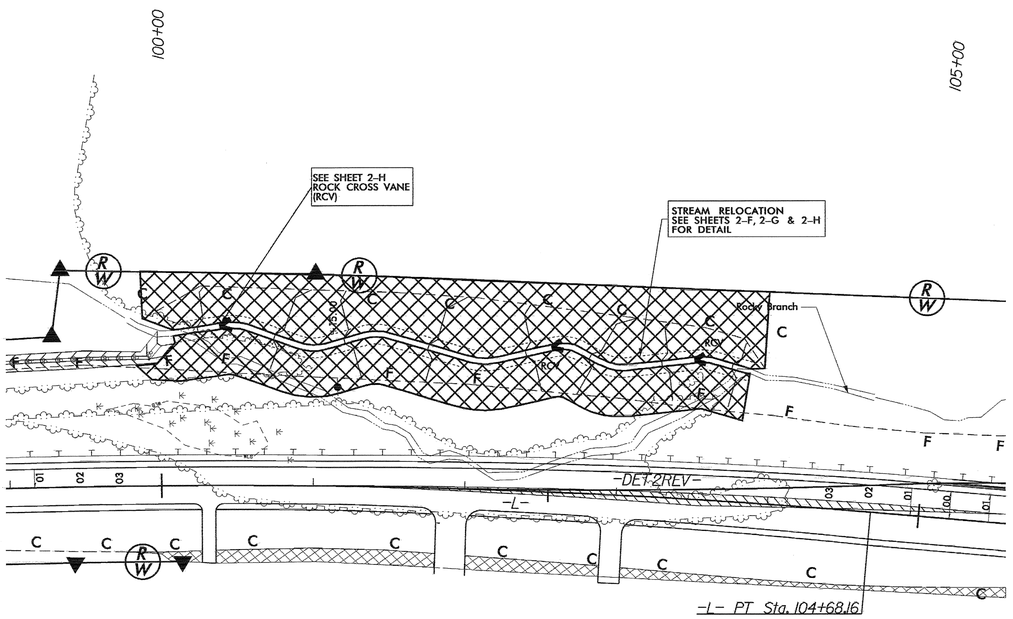
PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-22/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

0.7 ACRE STREAMBANK REFORESTATION



SEE RF-2, RF-3 AND PROJECT SPECIAL PROVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-23/CONST.9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

5/14/99

30 x 24 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
16 ft. weir
ID 9.1 F

SR 1434 (AIRPORT RD.)
2,800 / 4,400
2,500 / 3,700 — 300 / 700
8,600 / 13,400 — NC 28 — 6,400 / 10,400
2007 ADT
2030 ADT

-Y7- POT Sta. 14+30.00

Place Matting for Erosion Control on Slope as Work Allows.

22 x 17 x 3
ID 9.2 F

30 x 9 x 3
ID 9.4 F

34 x 12 x 3
ID 9.3 F

-BY7- 47
-Y7- STA 13+69.48
17.07 LT

-Y7- POT Sta. 13+75.00
END CONSTRUCTION

-DET2REV- PRC Sta. 24+28.37
-DET2REV- PT Sta. 26+09.72=
-L- POT Sta. 113+61.00
END CONSTRUCTION

-DET3REV- PC Sta. 10+80.00
-DET3REV- POT Sta. 10+00.00
-DET3REV- PT Sta. 15+10.73
-DET3REV- PRC Sta. 12+14.15

-DR- POT Sta. 11+31.03
END CONSTRUCTION
-DR- PT Sta. 11+13.71

-DET2REV- PC Sta. 22+47.01
-L- POT Sta. 110+61.87
-Y7- POT Sta. 10+00.00

-BL- 18
-L- STA 101+97.06
19.09 LT
-BY7- 48

-BL- 19
-L- STA 115+05.68
27.38 RT

-BL- 20
-L- STA 120+81.08
19.91 LT

BM = 9
-L- STA. 110+27.86
76.84 LT.
ELEV. = 2077.42

NAD 83/95

CAROLE ANN SIMMONS
DB C-23 PG 437
60

CAROLE ANN SIMMONS
DB C-23 PG 437
60

JAY MITCHELL HOUSTON
DB T-28 PG 1390
65

PAULINE S. HOUSTON
DB M-5 PG 425
69

CHLOE P. HOUSTON
DB K-6 PG 569
68

CAROLINA BUILDER SERVICES INC.
DB W30 PG 1300
61Z

DUKE ENERGY CAROLINAS, LLC
DB S-23 PG 1149

LARRY DALE FOUTS
DB F-16 PG 118
64Z

THOMAS HARMON
DB I-19 PG 961

DAVID CHARLES MYERS
DB T-24 PG 1528

DENNIS THOMPSON
DB G-25 PG 1554
66Z

BERNICE D. HENRY
DB I-6 PG 456
67Z

JOHN C PARRISH
DB Q-6 PG 55
70Z

SEE SHEET 2-F FOR STREAM DETAIL

BEGIN SBG
-L- STA 105+20 LT
END SBG
-Y7- STA 10+75 LT

REMOVE EXISTING CULVERT

REMOVE EXISTING 6'X6' STONE MASONRY CULVERT

TEMP. 54" CSP

TRENCHLESS INSTALLATION 48" WELDED STEEL

CL 'B' RIP RAP
EST. 2 TONS
7 S.Y. FF

CL 'B' RIP RAP
EST. 3 TONS
10 S.Y. FF

SEE DETAIL F
CL 'B' RIP RAP
TOE PROTECTION
EST. 17 TONS
34 S.Y. FF

CL II RIP RAP
EST. 45 TONS

SEE DETAIL N
LATERAL V DITCH
W/CL I RIP RAP
-L- STA 108+00 - 108+50 LT
EST. 23 TONS
53 S.Y. FF
DDE EST= 271 CY

SEE DETAIL M
BERM DITCH W/CL B RIP RAP
-L- STA 111+50 - 112+50 LT
EST. 32 TONS
99 S.Y. FF

BEGIN EXPRESSWAY GUTTER
-L- STA 111+50.00
END EXPRESSWAY GUTTER
-L- STA 116+75.00

BEGIN SBG
-L- STA 109+65 RT
END SBG
-L- STA 112+00 RT

DO NOT DISTURB WHEEL CHAIR RAMP

DO NOT DISTURB FENCE

SEE DETAIL H
TOE PROTECTION
W/CL B RIP RAP
-L- STA 117+35 -120+50 RT
EST. 51 TONS
157 S.Y. FF

CLASS I RIP RAP
ROCK CHECK
EST. 7 TONS
15 S.Y. FF

PERMANENT STONE SILT SCREEN

24" BURY 6"

25 x 12 x 3
4 ft. weir
ID 9.9 F

18 x 9 x 3
ID 9.5 F

30 x 12 x 3
ID 9.8 F

30 x 15 x 3
7 ft. weir
ID 9.6 F

30 x 15 x 3
7 ft. weir
ID 9.7 F

Place Matting for Erosion Control on Slope as Work Allows.

MATCHLINE TO SHEET 8
-L- STA. 108+00.00

MATCHLINE TO SHEET 10
-L- STA. 121+00.00

02-FEB-2010 10:34
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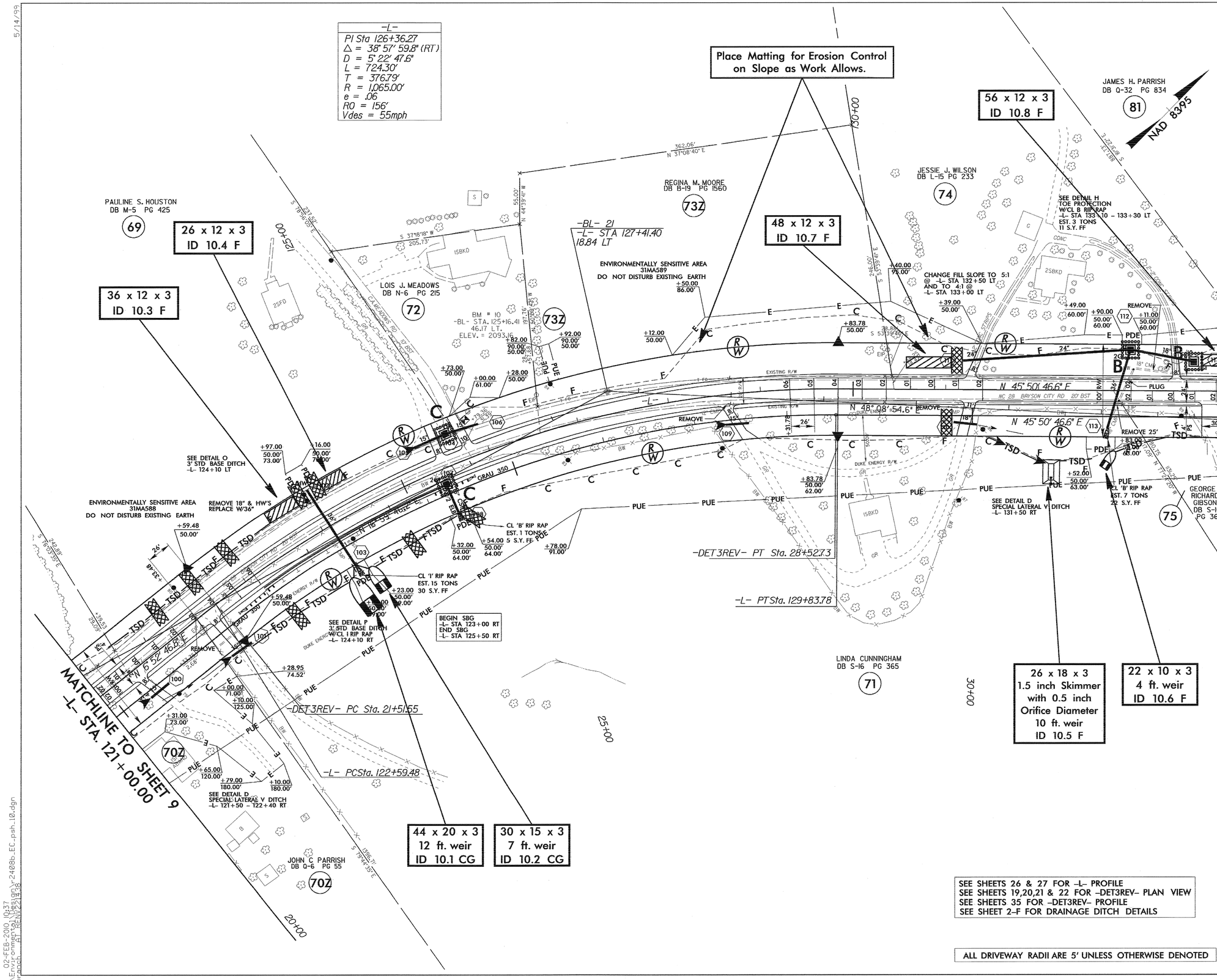
srbranch 4 RENV22408

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-24/CONST.10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



SEE SHEETS 26 & 27 FOR -L- PROFILE
SEE SHEETS 19,20,21 & 22 FOR -DET3REV- PLAN VIEW
SEE SHEETS 35 FOR -DET3REV- PROFILE
SEE SHEET 2-F FOR DRAINAGE DITCH DETAILS

ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE DENOTED

5/14/99

02-FEB-2010 10:37
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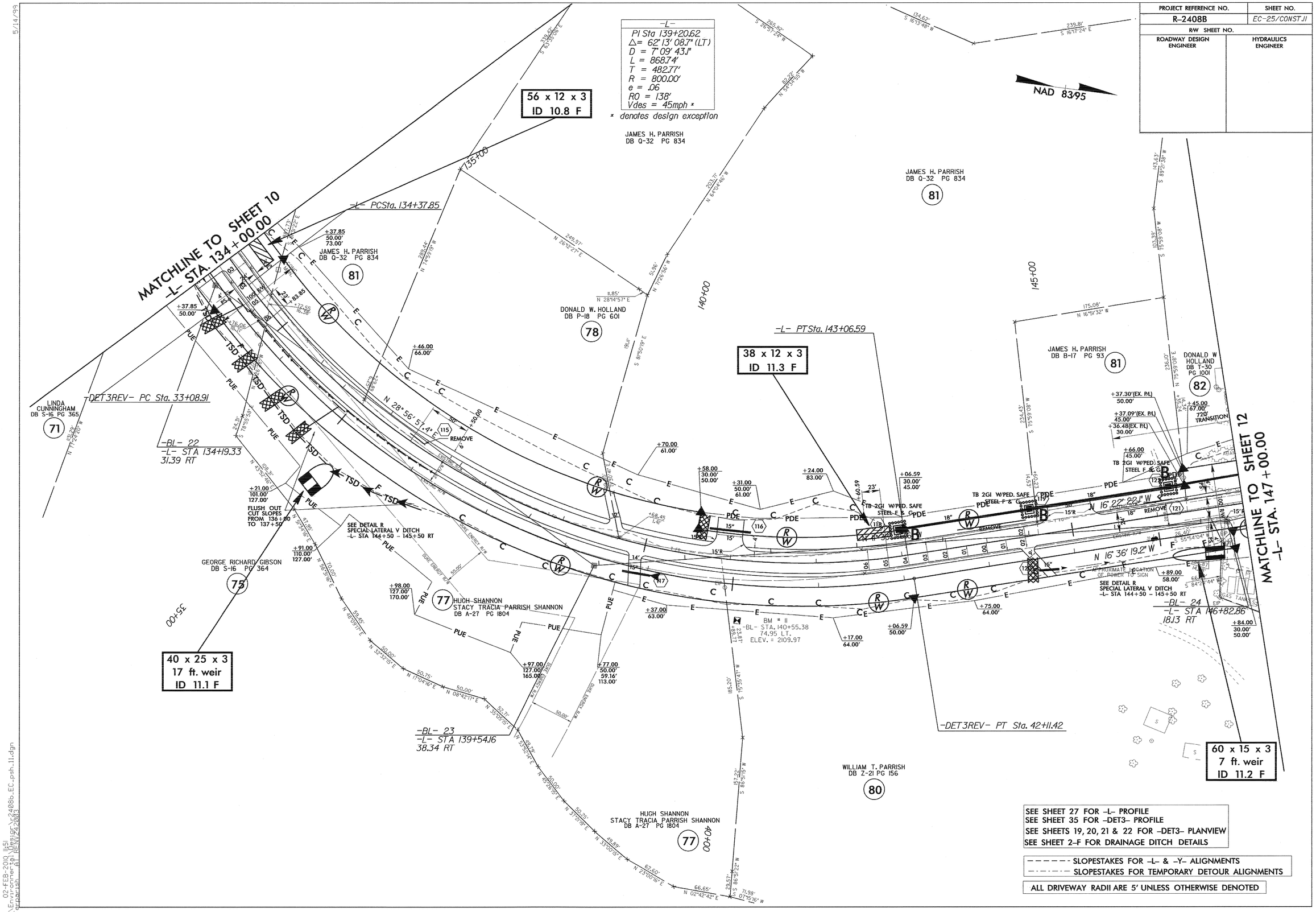
srbranch AT RENV221438

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-25/CONST.11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



SEE SHEET 27 FOR -L- PROFILE
SEE SHEET 35 FOR -DET3- PROFILE
SEE SHEETS 19, 20, 21 & 22 FOR -DET3- PLANVIEW
SEE SHEET 2-F FOR DRAINAGE DITCH DETAILS

- - - - - - SLOPESTAKES FOR -L- & -Y- ALIGNMENTS
-·-·-·- SLOPESTAKES FOR TEMPORARY DETOUR ALIGNMENTS

ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE DENOTED

5/14/99

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enniferparish AT RENV242003

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-26/CONST.12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-	-Y8-	-Y9-
PI Sta 152+68.25	PI Sta 11+74.50	PI Sta 12+24.34
Δ = 23° 35' 34.0" (RT)	Δ = 40° 39' 47.9" (RT)	Δ = 67° 31' 39.8" (RT)
D = 5° 22' 47.6"	D = 28° 38' 52.4"	D = 19° 25' 20.3"
L = 438.54'	L = 141.94'	L = 347.68'
T = 222.42'	T = 74.11'	T = 197.22'
R = 1,065.00'	R = 200.00'	R = 295.00'
e = .06	e = .04	e = EXIST.
RO = 156'	RO = SEE PLANS	RO = SEE PLANS
Vdes = 55mph		

NAD 83/95

-Y8- POT Sta. 14+37.18

45 x 10 x 3
ID 12.3 F

40 x 12 x 3
ID 12.4 F

34 x 12 x 3
ID 12.1 F

38 x 14 x 3
ID 12.2 F

52 x 9 x 3
ID 12.5 F

16 x 9 x 3
ID 12.7 F

MATCHLINE TO SHEET 11
-L- STA. 147+00.00

MATCHLINE TO SHEET 13
-L- STA. 160+00.00

-Y8- +58.98
17.04'(EXISTING R/W)
30.00'

-Y8- PT Sta. 12+42.34

-BY8- 49
-Y8- STA 12+96.60
15.44 LT

-Y8- PC Sta. 11+00.40

-BL- 25
-L- STA 152+42.12
46.31 LT
-BY8- 50

-Y8- +76.18
56.04'

-Y8- +28.77
103.88'
89.47'

-Y8- +09.07
119.99'
105.99'

-Y8- +55.85
15.96'(EXISTING R/W)
30.00'

-Y8- +42.34
30.00'

-Y8- +90.00
55.00'

-Y8- +40.00
30.00'

-Y8- +80.00
30.00'

-L- +54.00
95.00'

+83.00

+52.00
84.00'

+84.37
50.00'

+84.50
59.73'

+28.00
50.00'

+98.00
63.00'

+102.00
63.00'

+87.00
50.00'

+84.37
50.00'

+79.08

+30.47

+00.00
65.00'

+10.00
66.00'

+15.00
50.00'

+35.00
60.18'

+36.00
51.11'

+26.00
30.02' (EXIST R/W)

+74.95
28.72'(EXIST. R/W)

+80.00
30.64'(EXIST R/W)
61.00'

+37.00
46.94'

+10.00
64.84'

+28.00
29.97'(EXIST. R/W)

+11.00
42.00'

+75.00
50'

+90.00

+00.00

+01.00
50.00

+62.12
31.71'

82
DONALD W HOLLAND
DB T-30 PG 1001

82
DONALD W HOLLAND
DB T-30 PG 1001

86
HELEN A. KASS
DB M-13 PG 232

85
KEVIN W RABY
DB F-3 PG 2072

88
WILLIAM N. DEWITT
DB M-18 PG 376
PB X PG

89A
LOT 1
CLEAR SKY LLC
DB J-30 PG 858

CLEAR SKY LLC
DB J-30 PG 858

89
LEE R ROPER
DB K-5 PG 355

83
PATSY C. SMITH
DB V-8 PG 300

80
WILLIAM T. PARRISH
DB Z-21 PG 156

87
LINDA S. WALDROOP
DB N-22 PG 469

87
LINDA S. WALDROOP
DB N-22 PG 469

SEE DETAIL D2
SPECIAL LATERAL V DITCH
W/CLASS 'B' RIP RAP
-L- STA 149+50 - 151+00 LT

720' TRANSITION

REMOVE HW 126

REMOVE

"DO NOT DISTURB TEST WELL"

TRENCHLESS INSTALLATION

100' TAPER

GRAU 350

REMOVE HW 26'

8"x12" CHANNELIZATION

CL 'B' RIP RAP
EST. 1 TONS
5 S.Y. FF

CL 'B' RIP RAP
EST. 7 TONS
22 S.Y. FF

BEGIN SBG
-L- STA 150+00 RT
END SBG
-L- STA 151+50 RT

BEGIN EXPRESSWAY GUTTER
-L- STA 147+20.00
END EXPRESSWAY GUTTER
-L- STA 148+65.00

-L- POC Sta. 153+74.00
-Y8- POT Sta. 10+00.00

-L- PC Sta. 150+45.83
-DET3REV- PC Sta. 49+38.38

-L- PT Sta. 154+84.37
-DET3REV- PT Sta. 53+70.43

-DET3REV- PC Sta. 57+08.39

Place Matting for Erosion Control on Slope as Work Allows.

SEE DETAIL C
SPECIAL CUT DITCH
-L- STA 157+00 - 157+50 RT

SEE DETAIL D
SPECIAL LATERAL V DITCH
-L- STA 157+50 - 158+00 RT

-BL- 26
-L- STA 158+73.22
60.17 RT
-BY9- 51
-Y9- PT Sta. 13+74.80

-Y9- PC Sta. 12+50.00

BEGIN CONSTRUCTION
-Y9- POC Sta. 12+50.00

-Y9- PC Sta. 10+27.12

-Y9- POT Sta. 10+00.00

-BY9- 52
-L- STA 167+05.94
16.86 LT

-L- POT Sta. 158+46.74
-Y9- POT Sta. 15+27.22

BM = 12
-BL- STA. 157+87.84
149.23 LT.
ELEV. = 2056.78

SEE DETAIL H
TOE PROTECTION
W/CL B RIP RAP
CLASS B RIP RAP
-Y8- STA 13+00 - 13+60 LT
EST. 10 TONS
30 S.Y. FF
-Y9- STA 13+00 - 14+00 RT
EST. 16 TONS
50 S.Y. FF

Modified Silt Basin
Type 'B'
40 x 9 x 3
(See Tiered Skimmer
Basin Detail)
ID 12.9 F

40 x 9 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 12.9 F

32 x 10 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 12.8 CG

SR 1372 (IOTLA CHURCH RD.)
1,600 / 2,400
1,200 / 1,900
400 / 500
6,400 / 10,400
NC 28
5,600 / 9,000
2007 ADT
2030 ADT

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srbranch
PRT RENV2313.38

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-27/CONST.13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-
PI Sta 173+01.30
△ = 12° 56' 57.8" (RT)
D = 3° 00' 56.0"
L = 429.42'
T = 215.63'
R = 1,900.00'
e = .05
RO = 135'
Vdes = 60mph

NAD 83/95

MATCHLINE TO SHEET 12
-L- STA. 160+00.00

MATCHLINE TO SHEET 14
-L- STA. 172+00.00

28 x 12 x 3
ID 13.1 F

22 x 10 x 3
ID 13.2 F

28 x 10 x 3
ID 13.3 F

46 x 9 x 3
4 ft. weir
ID 13.4 F

48 x 9 x 3
4 ft. weir
ID 13.5 F

38 x 12 x 3
4 ft. weir
ID 13.6 F

54 x 9 x 3
ID 13.4 CG

CLEAR SKY LLC
DB J-30 PG 858

LOT 2
CLEAR SKY LLC
DB J-30 PG 858

LOT 3
DANIEL K. CROCKETT
DB F-31 PG 78

LOT 4
CLEAR SKY LLC
DB J-30 PG 858

LOT 5
CLEAR SKY LLC
DB J-30 PG 858

LOT 6
CLEAR SKY LLC
DB J-30 PG 858

THOMAS A BOWMAN
DB F-26 PG 753

RUFUS TAYLOR
DB T-6 PG 403

LEE R ROPER
DB K-5 PG 355

CLAYTON RAMSEY
DB J-18 PG. 209

CLAYTON H. RAMSEY
DB H-10 PG 296

89B 89C 89D 89E 89F 90 91 92 93

160+00 165+00 170+00

720' TRANSITION

SEE DETAIL C
SPECIAL CUT DITCH
-L- STA 169+50 – 170+00 LT

SEE DETAIL D
SPECIAL LATERAL V DITCH
-L- STA 170+00 – 171+50 LT

-L- PCSta. 170+85.67

NC 28 BRYSON CITY RD 20' BST

N 7° 13' 11.9" E

-DET3REV- PRC Sta. 59+09.78

-DET3REV- PT Sta. 61+11.7=
-L- POT Sta. 162+19.20

-DET6- POT Sta. 10+00.00=
-L- POT Sta. 165+00.00

-DET6- PC Sta. 10+26.80

-DET6- PRC Sta. 12+39.11

-DET6- PT Sta. 14+51.42

-DET6- PC Sta. 15+87.09

CL 'B' RIP RAP
EST. 2 TONS
7 S.Y. FF

REMOVE HW

REMOVE 18" & HW

RETAIN

BAND/EXTEND W/18" CSP

TRANSFORMER

GROUND POWER LINE

WELL

ISMD

ISBKD

BST

WD RAIL

SEE SHEETS 27 & 28 FOR -L- PROFILE
SEE SHEETS 19, 20, 21, & 22 FOR -DET3- PLANVIEW
SEE SHEET 35 FOR -DET3- PROFILE
SEE SHEET 23 FOR -DET6- PLANVIEW
SEE SHEET 2-F FOR DRAINAGE DITCH DETAILS

SLOPESTAKES FOR -L- & -Y- ALIGNMENTS
SLOPESTAKES FOR TEMPORARY DETOUR ALIGNMENTS

ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE DENOTED

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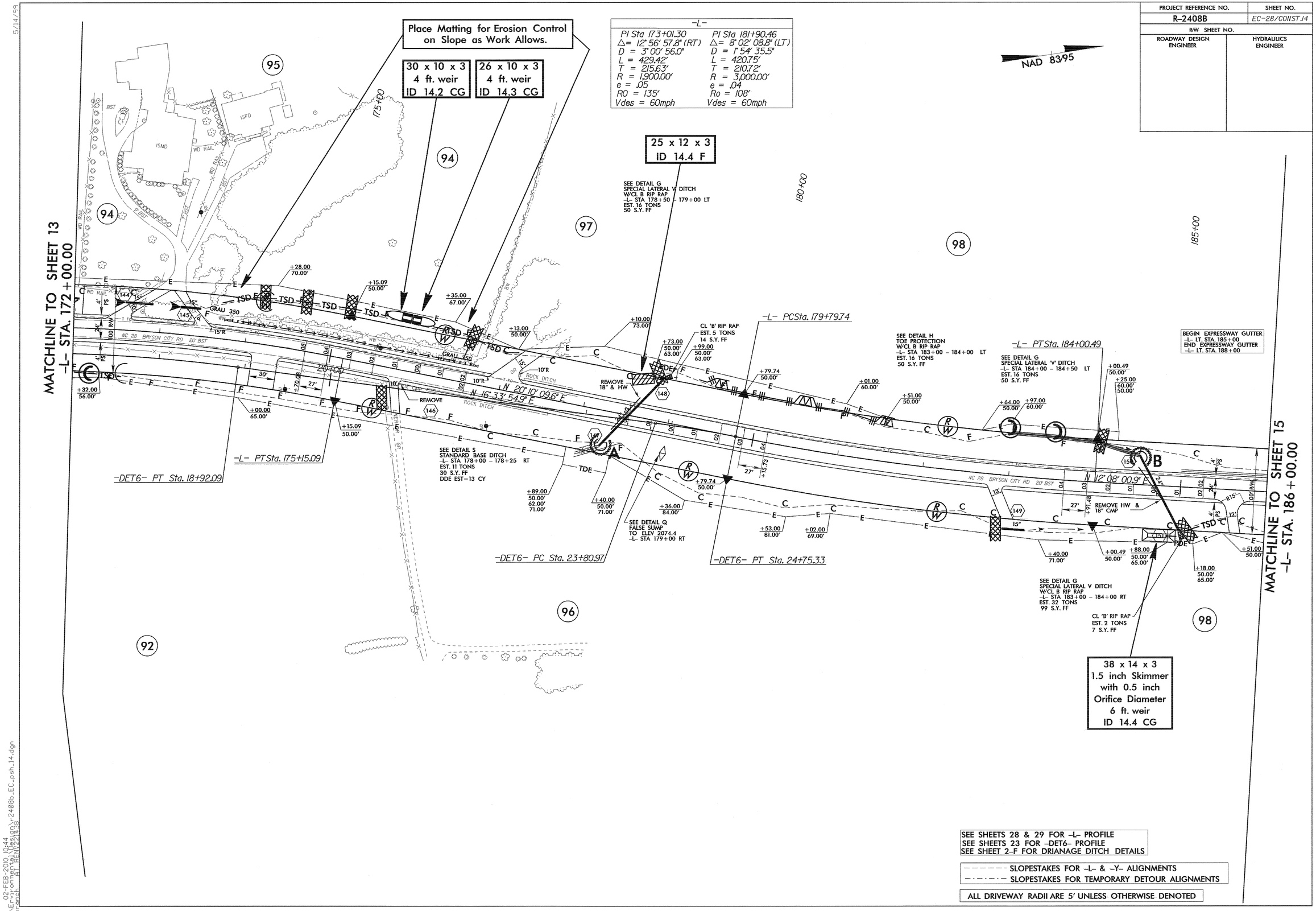
jmiller
PRO_ish_A1 (ENV) 12003

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-28/CONST.14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



SEE SHEETS 28 & 29 FOR -L- PROFILE
SEE SHEETS 23 FOR -DET6- PROFILE
SEE SHEET 2-F FOR DRIANAGE DITCH DETAILS

- - - - - - SLOPESTAKES FOR -L- & -Y- ALIGNMENTS
-·-·-·- SLOPESTAKES FOR TEMPORARY DETOUR ALIGNMENTS

ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE DENOTED

5/14/99

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srbranch AT RENV22138

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-29/CONST J5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

5/14/99

MATCHLINE TO SHEET 14
-L- STA. 186+00.00

NAD 83/95

-BY10- 53
5+00.00 LT

JERRY ANSELMO
DB I-20 PG III

SR 1378 (BENNET RD.)
1,600 / 2,300
1,000 / 1,400 — 600 / 900
5,400 / 8,800 — NC 28 — 5,000 / 8,300
2007 ADT
2030 ADT

190+00

195+00

MARTHA C. DONALDSON
DB L-20 PG 230
98

ALTON GLENN RAY
DB C-18 PG 304
100

-L- POT 188+50.00
END TIP PROJECT R-2408B

-BL- 31
-L- STA 194+65.79
18.48 LT
-BY10- 54

FAYE LARUE & LARRY ELLIS STEWART LIFE ESTATE
DB V-21 PG 955

ROBERT RAY III
DB M-17 PG 141

BEGIN EXPRESSWAY GUTTER
-L- LT. STA. 185+00
END EXPRESSWAY GUTTER
-L- LT. STA. 188+00

-BL- 30
-L- STA 186+81.35
14.44 LT

MINIMUM RESURFACING TO -L- STA 195+85.41

+41.85
50.00' EXIST. R/W
+27.67
33.00' (EXIST. R/W)
+12.26
14.52' (EXIST. R/W)
+00.14
18.92'

REMOVE HW & 18" CMP

+87.00
14.43' (EXIST. R/W)
33.00

CL 'B' RIP RAP
EST. 2 TONS
7 S.Y. FF

PDE

N 11° 50' 18.8" E

N 12° 08' 00.9" E

EXISTING R/W

+43.18
21.74'

+26.14
13.49' (EXIST. R/W)

+20.00
63.00'

+80.03
50.00'

TIE RDY DITCH TO EXISTING DITCH

FLORENCE L. OSTRANDER
DB B-7 PG 173
99

34 x 12 x 3
ID 15.1 F

BETTIE R. DALGO
DB T-15 PG 50

-L- POT Sta. 195+85.41
END CONSTRUCTION

FAYE LARUE & LARRY ELLIS
STEWART LIFE ESTATE
DB V-21 PG 955

N 19° 05' 59.3" E

-BL- 32
STA 199+87.75
-BY11- 55 5+00.00

BM # 15
-BL- STA. 198+89.63
16.89 LT.
ELEV. = 1976.85

CRESCENT RESOURCES INC.
DB S-23 PG 1149

MITCHELL OWENBY
DB Y-10 PG 117

S 50° 00' 57.1" E

SEE SHEET 29 FOR -L- PROFILE

SLOPESTAKES FOR -L- & -Y- ALIGNMENTS

SLOPESTAKES FOR TEMPORARY DETOUR ALIGNMENTS

ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE DENOTED

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srpeach
AT REV 9.21.38

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-30/CONST.J6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

EROSION CONTROL FOR TRAFFIC CONTROL PHASES

-DETIREV-
-Y4DET-

MOUNTAIN MIST PROPERTY, LLC
DB J-30 PG 1195
PLAT CARD 5158

SHARON B. COOK
DB B-20 PG 2281
50

CHARLES H. MCCALL
DB J-13 PG 47
45

-Y4DET- POT Sta. 15+27.37=
-DETIREV- POT Sta. 17+75.00

-L- PC Sta. 83+64.81

-L- PT Sta. 80+12.25

-L- PC Sta. 77+48.44

-L- PC Sta. 74+08.62

-L- PT Sta. 76+78.56

NAD 83/95

MOUNTAIN MIST PROPERTY, LLC
DB J-30 PG 1195
PLAT CARD 5158
51Z

MARJORIE MOODY MENEFEE
DB Z-28 PG 716
43

RALPH J ALLEN
DB 829 PG 1109
52

28 x 12 x 3
ID 16.2 F

-DETIREV- PRC Sta. 25+21.49
-DETIREV- PT Sta. 25+32.01=
-L- PRC Sta. 86+11.17

-DETIREV- PT Sta. 19+42.05

-Y4DET- PC Sta. 14+45.22=
-Y4- POT Sta. 14+35.35

-DETIREV- PC Sta. 21+44.19

-Y4DET- PRC Sta. 15+51.10

JANET SHULER
DB K-29 PG 1884
48

-DETIREV- PT Sta. 15+76.52

-DETIREV- PRC Sta. 10+79.40

-DETIREV- PC Sta. 10+00.00=
-L- POT Sta. 70+85.00

CHARLES MOODY JR
DB H-29 PG 344
DB Z-28 PG 718
44

CHURCH OF JESUS CHRIST LATTER DAY SAINTS
DB E-15 PG 15
46

-DETIREV- PC Sta. 16+55.30

WILLIAM H. WALDROOP
DB L-8
PG 207
47

58 x 10 x 3
ID 16.1 F

-Y4DET- PC Sta. 12+23.80=
-Y4- POT Sta. 12+23.80
BEGIN CONSTRUCTION

ROBERT JEFFREY PRUETT
DB Z-19 PG 2224

MARY WILSON
DB A-29 PG 2088
49

-Y4DET- POT Sta. 10+00.00=
-Y4- POT Sta. 10+00.00

G-SQUARED LLC
DB M-30 PG 1420
44A

GARY TALLENT

TRANSITION PUE TO AUE

TEMPORARY GUARDRAIL

EXIST EOF SLOPE

DUKE ENERGY R/W

BRYSON CITY RD NC 28

ROCK DITCH

CARPORT

ISFD

ISFB

HTR

WELL

ISBKD

CONC PAD

PROPANE TANK

SS CLEANOUT

AC UNIT

WATER VALVE

APPROX DRAINFIELD

PROPOSED BUILDING AS OF 4-17-08

FOR -DETIREV- & -Y4DET- PROFILE VIEWS SEE SHEET 32
FOR -L- PLAN VIEW SEE SHEETS 5,6 & 7
FOR -L- PROFILE VIEW SEE SHEETS 24 & 25

MAINTAIN ALL -Y- LINE AND DRIVEWAY CONNECTIONS DURING CONSTRUCTION

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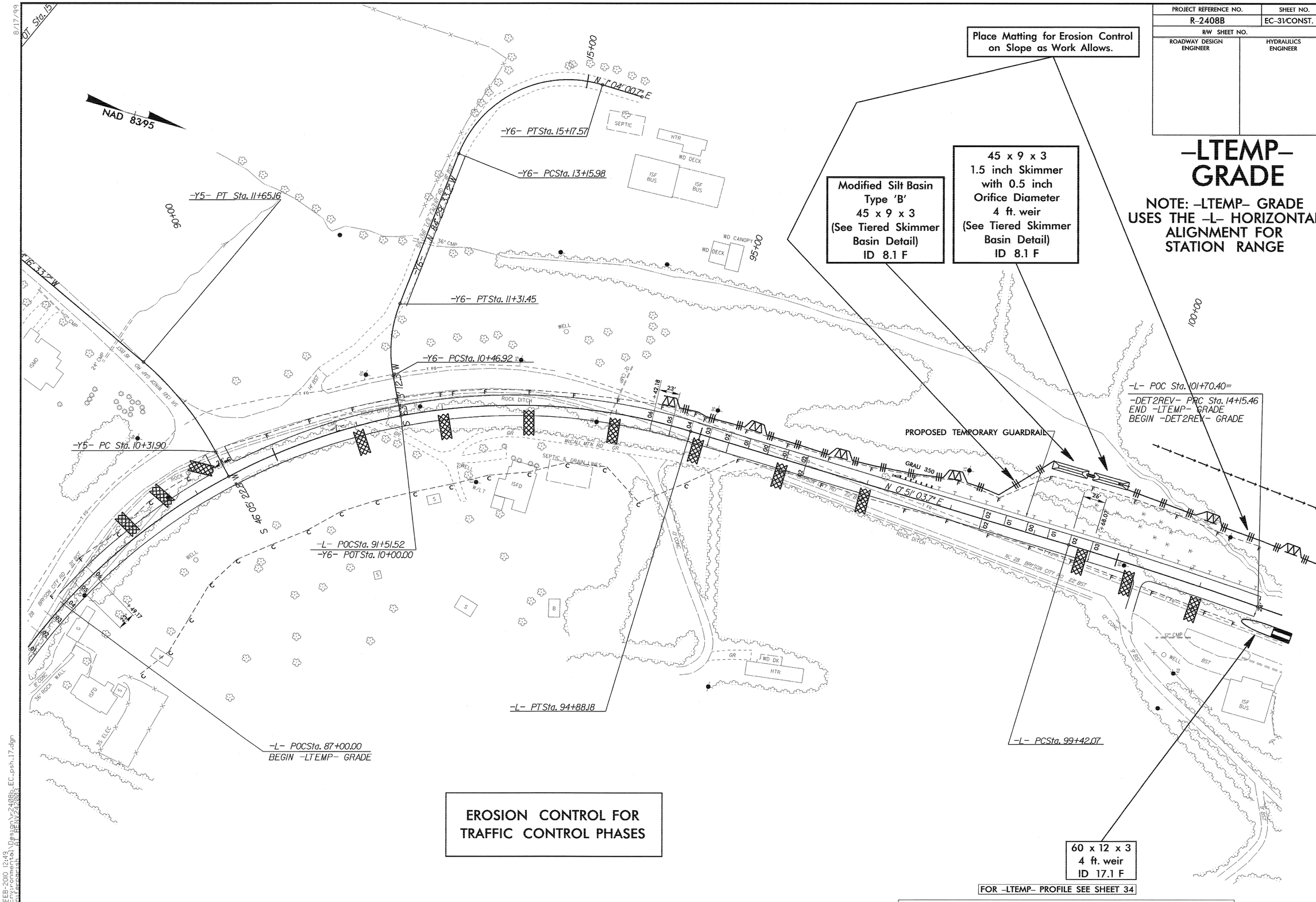
jengelfarcas

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-31/CONST. 17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-LTEMP- GRADE

NOTE: -LTEMP- GRADE USES THE -L- HORIZONTAL ALIGNMENT FOR STATION RANGE



EROSION CONTROL FOR TRAFFIC CONTROL PHASES

60 x 12 x 3
4 ft. weir
ID 17.1 F

FOR -LTEMP- PROFILE SEE SHEET 34

MAINTAIN ALL -Y- LINE AND DRIVEWAY CONNECTIONS DURING CONSTRUCTION

8/17/99

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jenniferparish AT RENV242003

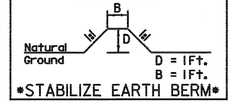
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-32/CONST. 18
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-DET2REV-

EROSION CONTROL FOR TRAFFIC CONTROL PHASES

TEMPORARY EARTH BERM
(Not to Scale)



STABILIZE EARTH BERM

NAD 83/95

30 x 24 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
16 ft. weir
ID 9.1 F

22 x 10 x 3
4 ft. weir
ID 8.2 F

22 x 17 x 3
ID 9.2 F

Place Matting for Erosion Control on Slope as Work Allows.

TIE TEMPORARY GUARD RAIL TO PROPOSED

-DET2REV- PRC Sta. 14+15.46=
-L- POC Sta. 101+70.40
END -LTEMP- GRADE
BEGIN -DET2REV- GRADE
BEGIN CONSTRUCTION

-DET2REV- PRC Sta. 17+18.82

-DET2REV- PT Sta. 19+59.27

-DET2REV- PC Sta. 22+47.01

-Y7- POT Sta. 14+30.00

-Y7- POT Sta. 11+75.00
SEE -Y7TIE PROFILE-
END CONSTRUCTION

-Y7- POT Sta. 10+31.68=
-DET2REV- POC Sta. 23+03.27

-DET2REV- PRC Sta. 24+28.37

-DET2REV- PT Sta. 26+09.72=
-L- POT Sta. 113+61.00
END CONSTRUCTION

-Y7- POT Sta. 10+00.00=
-L- POT Sta. 110+61.87

-L- PT Sta. 104+68.16

CAROLE ANN SIMMONS
DB C-23 PG 437

JAY MITCHELL HOUST
DB T-28 PG 1390

DUKE ENERGY CAROLINAS, LLC
DB S-23 PG 1149

CAROLINA BUILDER SERVICES INC
DB W30 PG 1300

WILLIAM A. ROTEN
DB G-14 PG 76

JACQUELIN G. NELSON
DB C-20 PG 66

DAVID CHARLES MYERS
DB T-24 PG 1528

LARRY DALE FOUTS
DB F-16 PG 118

THOMAS HARMON
DB 1-19 PG 961

DENNIS THOMPSON
DB G-25 PG 1554

FOR -DET2REV- PROFILE SEE SHEET 33
FOR -Y7TIE- PROFILE SEE SHEET 33
FOR -L- PLAN VIEW SEE SHEETS 8 & 9
FOR -L- PROFILE SEE SHEETS 25 & 26

MAINTAIN ALL -Y- LINE AND DRIVEWAY CONNECTIONS DURING CONSTRUCTION

SEE STRUCTURE PLANS FOR CULVET CONSTRUCTION STAGING

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AT REN/24200

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-33/CONST.J9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

EROSION CONTROL FOR TRAFFIC CONTROL PHASES

NAD 83/95

–DET3REV–

CAROLE ANN SIMMONS
DB C-23 PG 437

CAROLE ANN SIMMONS
DB C-23 PG 437

JAY MITCHELL HOUSTON
DB T-28 PG 1390

PAULINE S. HOUSTON
DB M-5 PG 425

CHLOE P. HOUSTON
DB K-6 PG 569

CAROLINA BUILDER SERVICES INC
DB W30 PG 1300

DUKE ENERGY CAROLINAS, LLC
DB S-23 PG 1149

DENNIS THOMPSON
DB G-25 PG 1554

LARRY DALE FOUTS
DB F-16 PG 118

THOMAS HARMON
DB I-19 PG 961

BERNICE D. HENRY
DB T-6 PG 456

JOHN C PARRISH
DB Q-6 PG 55

DAVID CHARLES MYERS
DB T-24 PG 1528

797.37'
N 02°28'26" W

129.91'
N 01°03'00" W

153.09'
N 35°52'00" E

239.23'
N 14°29'53" W

415.50'
N 09°42'38" E

279.70'
S 14°29'53" E

139.50'
N 10°21'05" W

175.86'
S 15°09'23" E

40.33'
N 10°21'05" W

139.16'
N 88°32'01" E

51.61'
N 39°34'42" W

+77.42
14.23'

+13.93
14.05'

+99.45
15.24'

+84.95
41.74'

+92.08
34.61'

110+00

115+00

120+00

GRAU 350

N 5°09'15.2" E

N 6°52'46.8" E

ROCK DITCH

NC 28 BRYSON CITY RD 20' BST

EXISTING R/W

DUKE ENERGY R/W

WHEEL CHAIR RAMP

ISBKD

ISMD

ISFD

BST

-DET3REV- PRC Sta. 12+14.15

-DET3REV- PC Sta. 10+80.00

-DET3REV- PT Sta. 15+10.73

-DET3REV- POT Sta. 20+49.94
-DR4REV- PC Sta. 10+21.85
-DR4REV- PT Sta. 10+57.86
-DR4REV- POT Sta. 10+85.93
-DR4REV- POT Sta. 11+27.13
-DR4REV- POT Sta. 11+50.00
END CONSTRUCTION
-DR4REV- POT Sta. 11+58.76

-DET3REV- POT Sta. 10+00.00
-L- POT Sta. 111+10.32 (19.66' RT)

25 x 12 x 3
4 ft. weir
ID 9.9 F

30 x 15 x 3
7 ft. weir
ID 9.6 F

30 x 15 x 3
7 ft. weir
ID 9.7 F

Place Matting for Erosion Control on Slope as Work Allows.

MATCHLINE TO SHEET 20
–DET3– STA. 21+25.00

FOR –DET3REV– PROFILE SEE SHEET 35
FOR –DR4REV– PROFILE SEE SHEET 35
FOR –L– PLAN VIEW SEE SHEETS 9 & 10
FOR –L– PROFILE SEE SHEETS 26 & 27

MAINTAIN ALL –Y– LINE AND DRIVEWAY CONNECTIONS DURING CONSTRUCTION

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jengstler.sh AT RENV/24/2003

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PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-34/CONST.20
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-DET3REV-

EROSION CONTROL FOR TRAFFIC CONTROL PHASES

NAD 83/95

PAULINE S. HOUSTON
DB M-5 PG 425

LOIS J. MEADOWS
DB N-6 PG 215

REGINA M. MOORE
DB B-19 PG 1560

JESSIE J. WILSON
DB L-15 PG 233

JAMES H. PARRISH
DB Q-32 PG 834

S 50°58'18" E 231.52'

S 37°18'18" W 205.73'

55.00' N 44°19'41" W

362.06' N 31°08'40" E

440.00' N 53°39'41" W

197.76' N 50°09'42" W

246.00' S 53°39'41" E

S 32°26'18" E 88.72'

-L- PC Sta. 122+59.48

-L- PT Sta. 129+83.78

-L- PC Sta. 134+37.85

MATCHLINE TO SHEET 19
-DET3- STA. 21+25.00

MATCHLINE TO SHEET 21
-DET3- STA. 34+00.00

NC 28 BRYSON CITY RD 20' BST

EXISTING R/W

DUKE ENERGY R/W

125+00

130+00

135+00

+79.36 31.39' Ejp

+44.25 16.42' Ejp

+72.55 16.38' Ejp

S 53°39'40" E 30.88'

N 45°50'46.6" E

N 45°50'46.6" E

-DET3REV- PC Sta. 21+51.55

-DET3REV- PT Sta. 28+52.73

-DET3REV- PC Sta. 33+08.91

TSD

FSD

F

C

25-00

30-00

25'R

CONC. MON.

GRAU 350

GEORGE RICHARD GIBSON
DB S-16 PG 364

LINDA CUNNINGHAM
DB S-16 PG 365

N 11°24'20" W 150.75'

N 11°24'20" W 150.75'

44 x 20 x 3
12 ft. weir
ID 10.1 CG

30 x 15 x 3
7 ft. weir
ID 10.2 CG

26 x 18 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
10 ft. weir
ID 10.5 F

22 x 10 x 3
4 ft. weir
ID 10.6 F

-DET3REV-	
PI Sta 25+16.31	PI Sta 38+10.87
△ = 38° 57' 59.8" (RT)	△ = 62° 27' 05.8" (LT)
D = 5° 33' 26.3"	D = 6° 55' 11.2"
L = 701.18'	L = 902.51'
T = 364.76'	T = 501.96'
R = 1,031.00'	R = 828.00'

FOR -DET3REV- PROFILE SEE SHEET 35
FOR -L- PLAN VIEW SEE SHEETS 9 & 10
FOR -L- PROFILE SEE SHEETS 26 & 27

MAINTAIN ALL -Y- LINE AND DRIVEWAY CONNECTIONS DURING CONSTRUCTION

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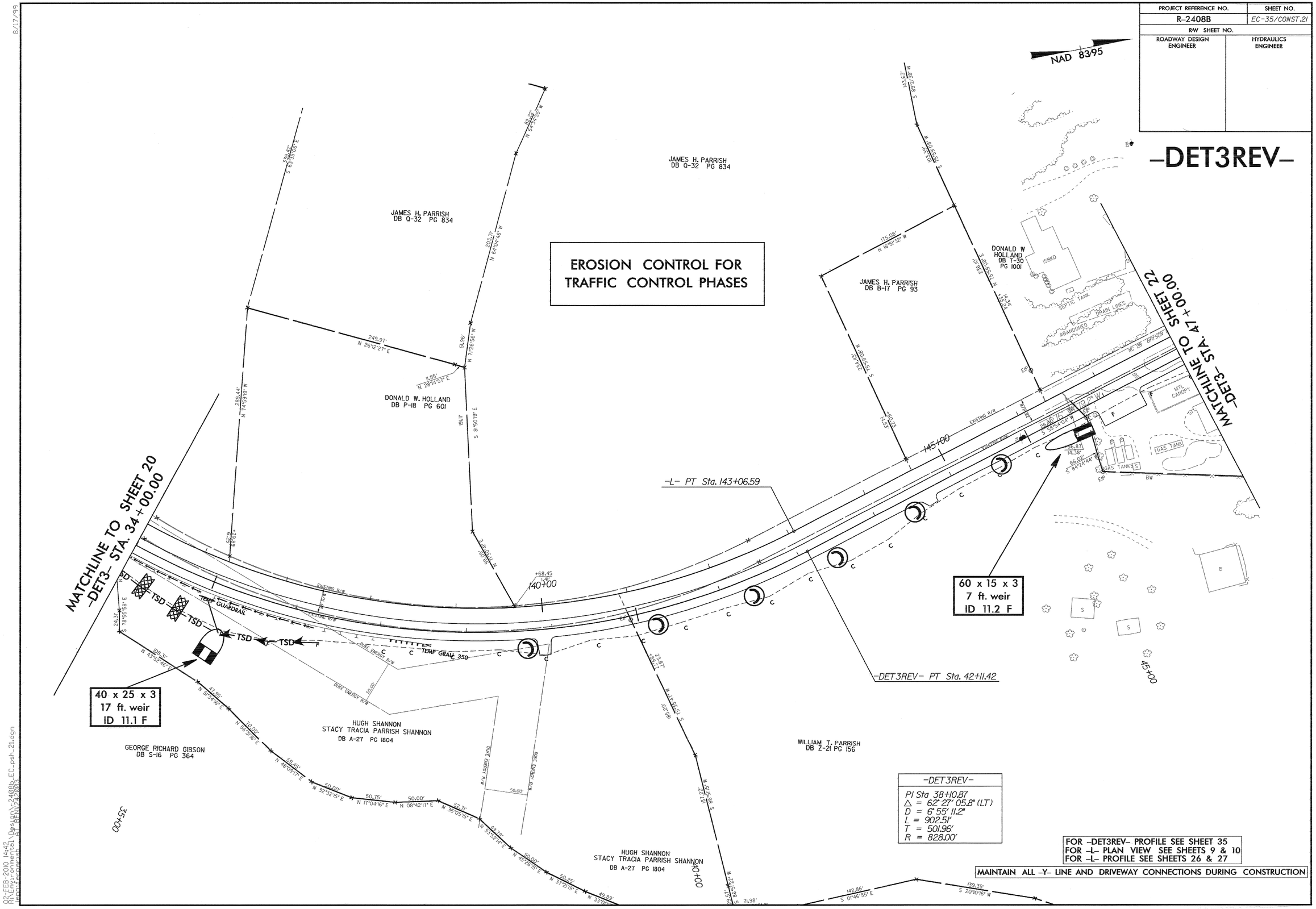
jsanderson AT RENN242003

PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-35/CONST.21
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-DET3REV-



-DET3REV-

PI Sta 38+10.87
△ = 62° 27' 05.8" (LT)
D = 6° 55' 11.2"
L = 902.51'
T = 501.96'
R = 828.00'

FOR -DET3REV- PROFILE SEE SHEET 35
FOR -L- PLAN VIEW SEE SHEETS 9 & 10
FOR -L- PROFILE SEE SHEETS 26 & 27

MAINTAIN ALL -Y- LINE AND DRIVEWAY CONNECTIONS DURING CONSTRUCTION

8/17/99

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jenni.ferparish AT RENV242003

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PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-36/CONST.22
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-DET3REV-

NAD 83/95

MATCHLINE TO SHEET 21 -LDET4- STA. 20+00.00

DONALD W HOLLAND DB T-30 PG 1001

DONALD W HOLLAND DB T-30 PG 1001

CONC. MON.

S 88°30'11" W 282.69'

SR 1372 (OLD CHURCH RD) 18' BST

-L- PC Sta. 150+45.83

-L- PT Sta. 154+84.37

HELEN A. KASS DB M-13 PG 232

KEVIN W RABY DB F-3 PG 2072

CLEAR SKY LLC DB J-30 PG 858

WILLIAM N. DEWITT DB M-18 PG 376 PB X PG

LOT 1 CLEAR SKY LLC DB J-30 PG 858

LOT 2 CLEAR SKY LLC DB J-30 PG 858

DANIEL L DB F

150+00

155+00

160+00

NC 28 BRYSON CITY RD 20' BST

N 71°13'11.9" E

-DET3REV- PC Sta. 49+38.38

-DET3REV- PT Sta. 53+70.43

-DET3REV- PC Sta. 57+08.39

PRC Sta. 59+09.78

-DET3REV- PT Sta. 61+11.7

-L- PT STA 162+19.20

END CONSTRUCTION

PATSY C. SMITH DB V-8 PG 300

LINDA S. WALDROOP DB N-22 PG 469

LINDA S. WALDROOP DB N-22 PG 469

LEE R ROPER DB K-5 PG 355

LEE R ROPER DB K-5 PG 355

WILLIAM T. PARRISH DB Z-21 PG 156

50+00

55+00

00+00

EROSION CONTROL FOR TRAFFIC CONTROL PHASES

-DET3REV-		
PI Sta 51+57.57	PI Sta 58+09.23	PI Sta 60+10.63
Δ = 23° 49' 31.1" (RT)	Δ = 7° 41' 33.5" (LT)	Δ = 7° 41' 33.5" (RT)
D = 5° 30' 52.2"	D = 3° 49' 11.0"	D = 3° 49' 11.0"
L = 432.05'	L = 201.39'	L = 201.39'
T = 219.19'	T = 100.85'	T = 100.85'
R = 1,039.00'	R = 1,500.00'	R = 1,500.00'

46 x 9 x 3
4 ft. weir
ID 13.4 F

48 x 9 x 3
4 ft. weir
ID 13.5 F

FOR -DET3REV- PROFILE SEE SHEET 35
FOR -L- PLAN VIEW SEE SHEETS 9 & 10
FOR -L- PROFILE SEE SHEETS 26 & 27

MAINTAIN ALL -Y- LINE AND DRIVEWAY CONNECTIONS DURING CONSTRUCTION

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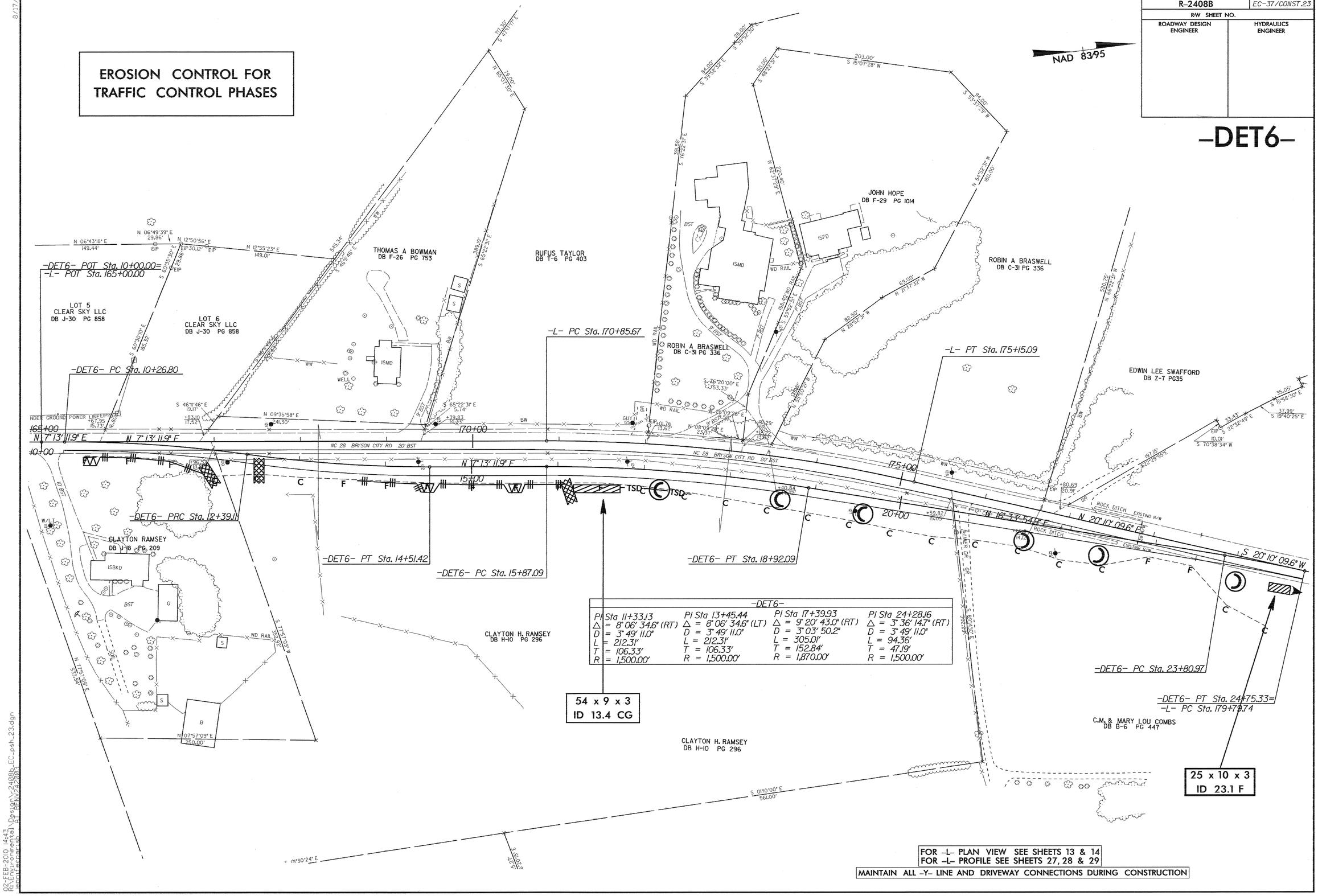
PROJECT REFERENCE NO.	SHEET NO.
R-2408B	EC-37/CONST.23
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

EROSION CONTROL FOR TRAFFIC CONTROL PHASES

-DET6-



-DET6-

PI Sta 11+33.13	PI Sta 13+45.44	PI Sta 17+39.93	PI Sta 24+28.16
Δ = 8° 06' 34.6" (RT)	Δ = 8° 06' 34.6" (LT)	Δ = 9° 20' 43.0" (RT)	Δ = 3° 36' 14.7" (RT)
D = 3° 49' 11.0"	D = 3° 49' 11.0"	D = 3° 03' 50.2"	D = 3° 49' 11.0"
L = 212.31'	L = 212.31'	L = 305.01'	L = 94.36'
T = 106.33'	T = 106.33'	T = 152.84'	T = 47.19'
R = 1,500.00'	R = 1,500.00'	R = 1,870.00'	R = 1,500.00'

FOR -L- PLAN VIEW SEE SHEETS 13 & 14
FOR -L- PROFILE SEE SHEETS 27, 28 & 29

MAINTAIN ALL -Y- LINE AND DRIVEWAY CONNECTIONS DURING CONSTRUCTION

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jennifer.parish AT RENV242003