TIP PROJECT: R-2303C

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2303C	EC-1	

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

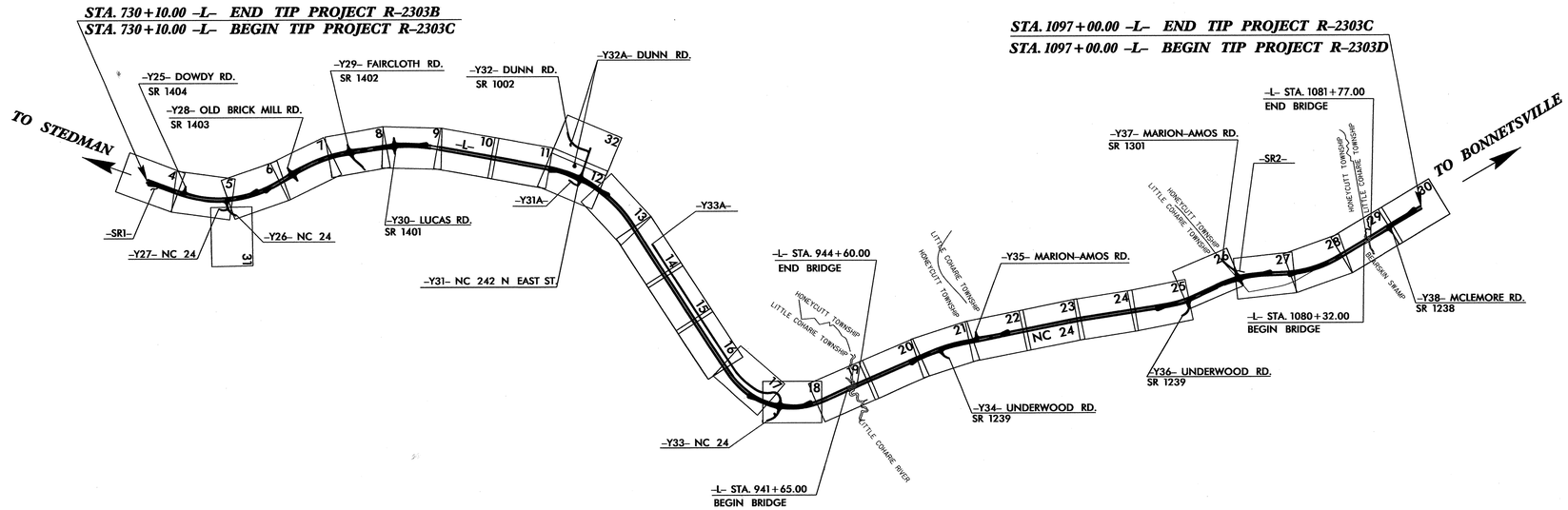
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

SAMPSON COUNTY

LOCATION: NC 24 FROM SR 1404 (DOWDY ROAD) TO SR 1303 (MITCHELL LOOP ROAD)

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURES

NAD 83/95



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		

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R:\Structure Projects\r-2303c_EC_tsh.dgn
mjchandler 10 REN/247/78

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

BORROW PIT DEWATERING BASIN DETAIL

GENERAL NOTES:

DETERMINE BORROW PIT DEWATERING BASIN SIZE USING V = 8.0203 * Q * T, WHERE V IS VOLUME (FT^3), Q IS PUMP FLOW RATE (GPM), AND T IS DEWATERING TIME (HR). USE MAXIMUM FLOW RATE OF 1000 GPM AND A MINIMUM DEWATERING TIME OF 2 HOURS.

RISER SHALL BE A NON-PERFORATED, SMOOTH OR CORRUGATED MATERIAL WITH A FLASHBOARD OPTION.

CONSTRUCT THE COIR FIBER BAFFLE IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 1640.01 AND WITH MATERIAL THAT MEETS THE SPECIFICATIONS OF ROADWAY STANDARD 1060-14.

PROVIDE 5′ STEEL POSTS OF THE SELF-FASTENER ANGLE STEEL TYPE. INSTALL STEEL POSTS WITH NO MORE THAN 3′ OF THE POST APPEARING ABOVE THE GROUND.

ATTACH THE COIR FIBER MAT TO THE STEEL POSTS WITH WIRE OR OTHER ACCEPTABLE MEANS AND STAPLED INTO THE BOTTOM AND SIDE SLOPES OF THE BASIN WITH 12″ STAPLES.

INSTALL TYPE 2 GEOTEXTILE ON SIDESLOPES AND BOTTOM OF BASIN AT INLET AS SHOWN IN THE DETAIL.

USE THE TYPICAL SECTION SHOWN FOR THE BORROW PIT DEWATERING BASIN AS A GUIDE. THE BASIN MAY HAVE ANY TYPE CONFIGURATION AS LONG AS SUFFICIENT VOLUME IS PROVIDED AND PROVISIONS ARE MADE FOR A NON-PERFORATED RISER.

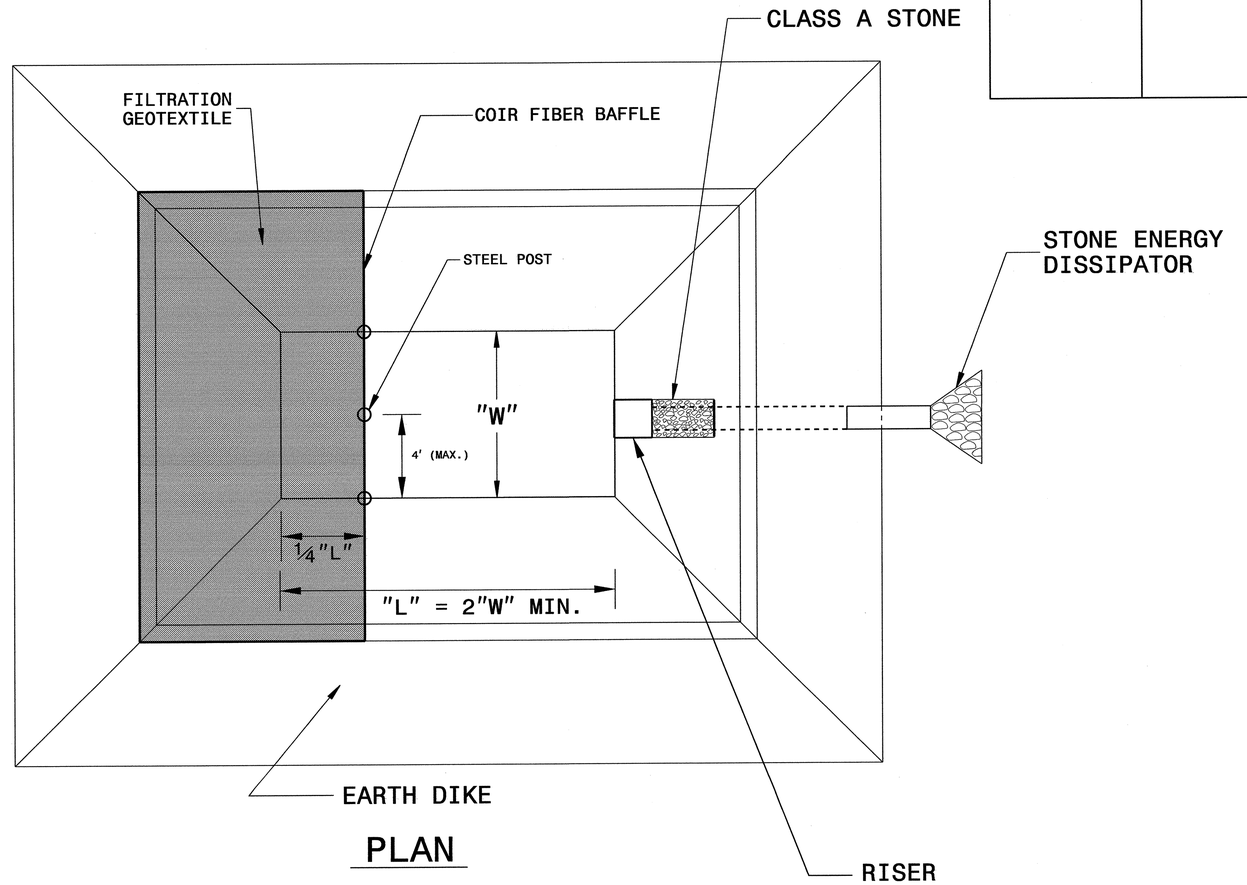
DO NOT EXCEED 3½ FT. IN HEIGHT FOR THE EARTH DIKES REQUIRED FOR BORROW PIT DEWATERING BASIN.

THE BORROW PIT DEWATERING BASIN SIZE IS VARIABLE AND DEPENDENT ON SPECIFIC SITE REQUIREMENTS AS WELL AS PROPOSED CONSTRUCTION OPERATIONS.

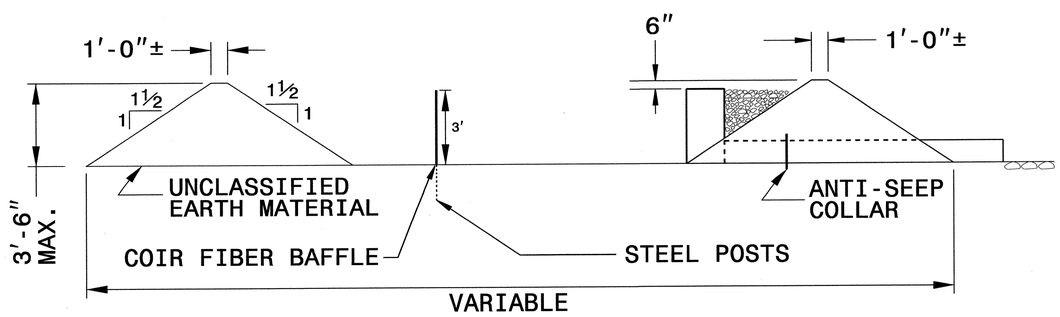
SUBMIT THE SIZE, LOCATION AND RISER PIPE MATERIAL FOR APPROVAL PRIOR TO CONSTRUCTION.

PUMP THE EFFLUENT INTO THE BORROW PIT DEWATERING BASIN TO A MAXIMUM DEPTH OF 6 IN. BELOW TOP OF EARTH DIKE.

PROVIDE A STONE ENERGY DISSIPATOR PAD AT THE OUTLET OF THE PUMP DISCHARGE HOSE AND OUTLET OF THE RISER BARREL IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 876.02 FOR OUTLET W/O DITCH.



PLAN

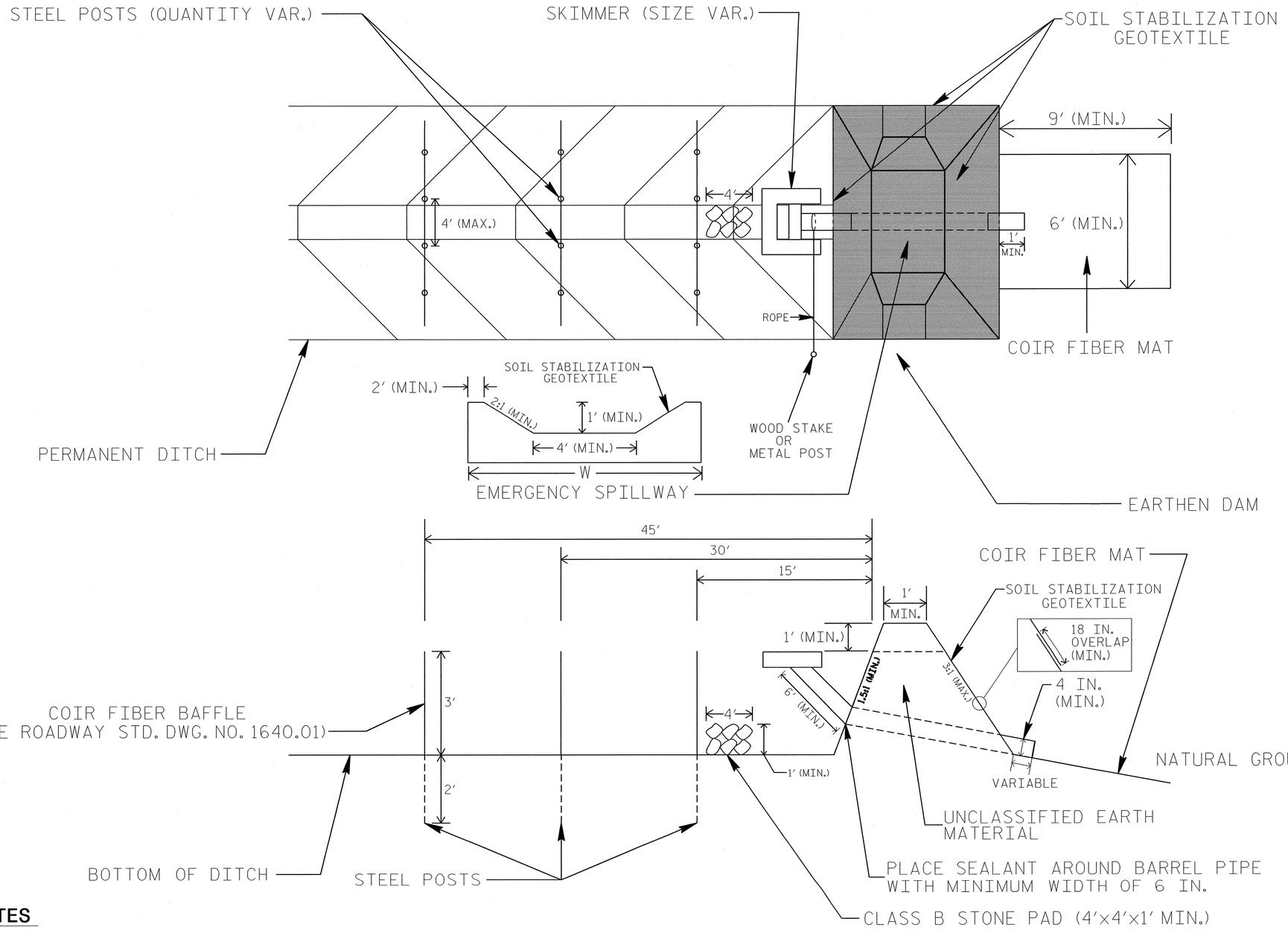


TYPICAL SECTION VIEW

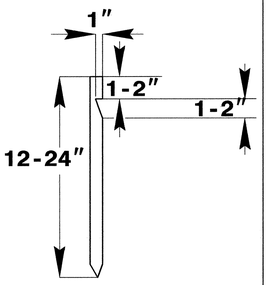
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

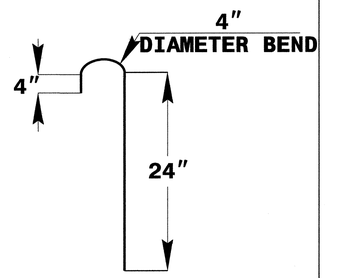
EARTHEN DAM WITH SKIMMER



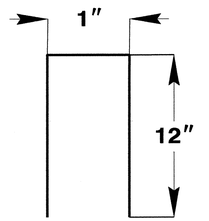
2″ x 2″ (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1″ (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

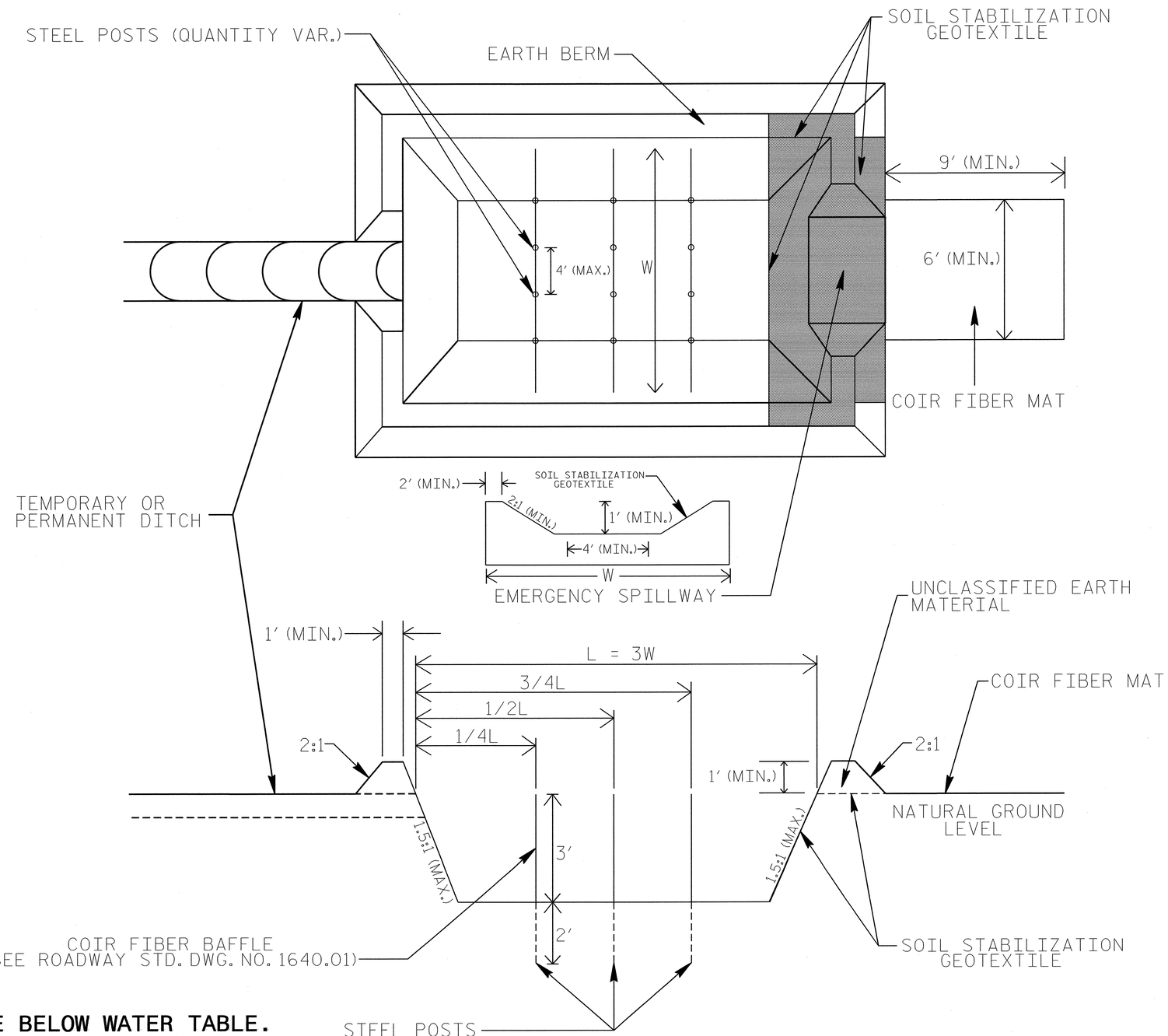
NOTES

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.).

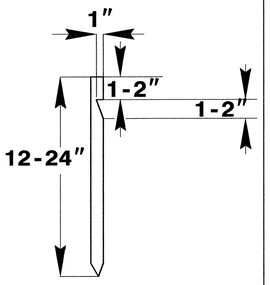
NOT TO SCALE

INFILTRATION BASIN WITH BAFFLES DETAIL

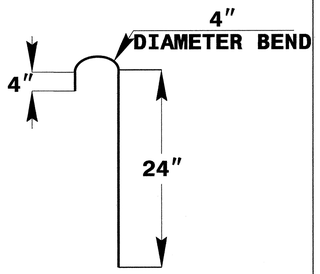
PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



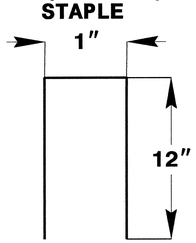
2″ x 2″ (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1″ (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

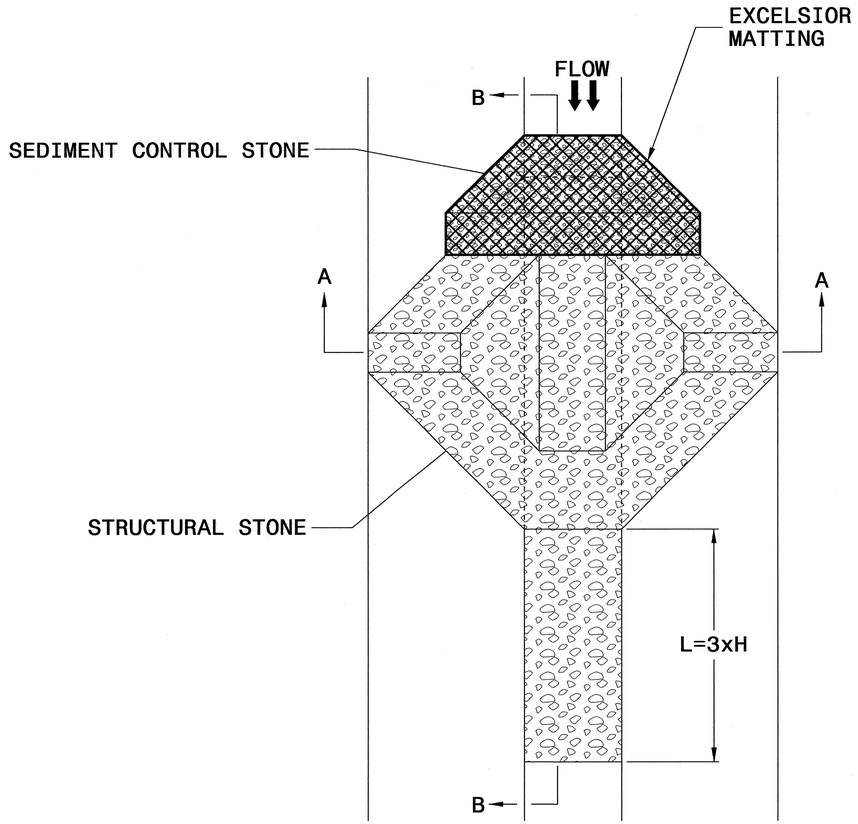
NOT TO SCALE

NOTES

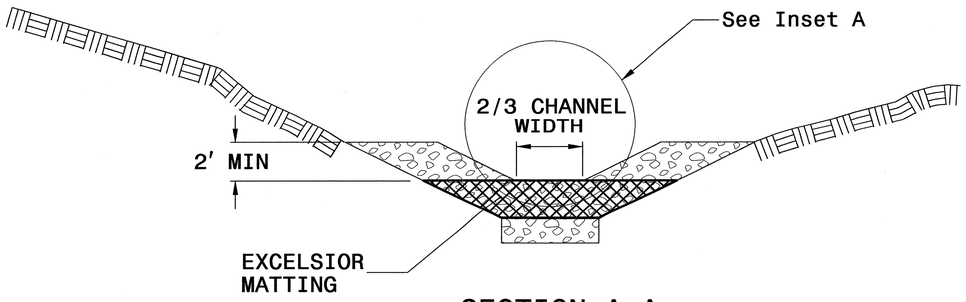
1. DO NOT EXCAVATE BELOW WATER TABLE.
2. LIMIT EARTH BERM HEIGHT TO 3 FT.
3. AVOID COMPACTING BOTTOM OF BASIN.
4. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
5. DETERMINE EMERGENCY SPILLWAY LENGTH (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO BASIN.

PROJECT REFERENCE NO.	SHEET NO.
R-2303D	EC-2C
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



PLAN



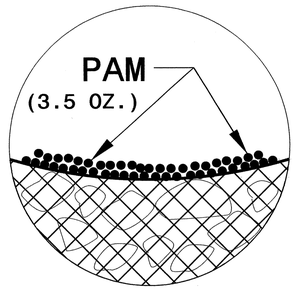
SECTION A-A

NOTES

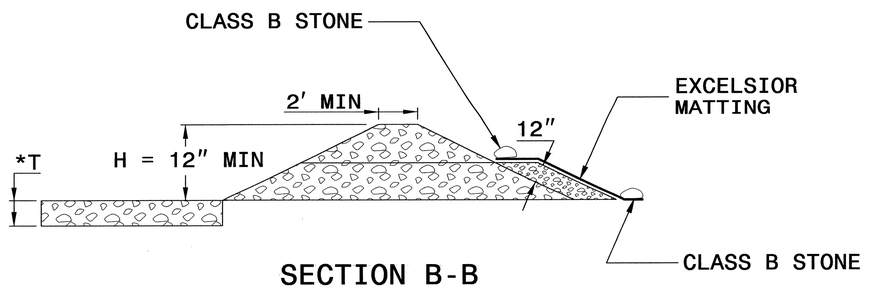
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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



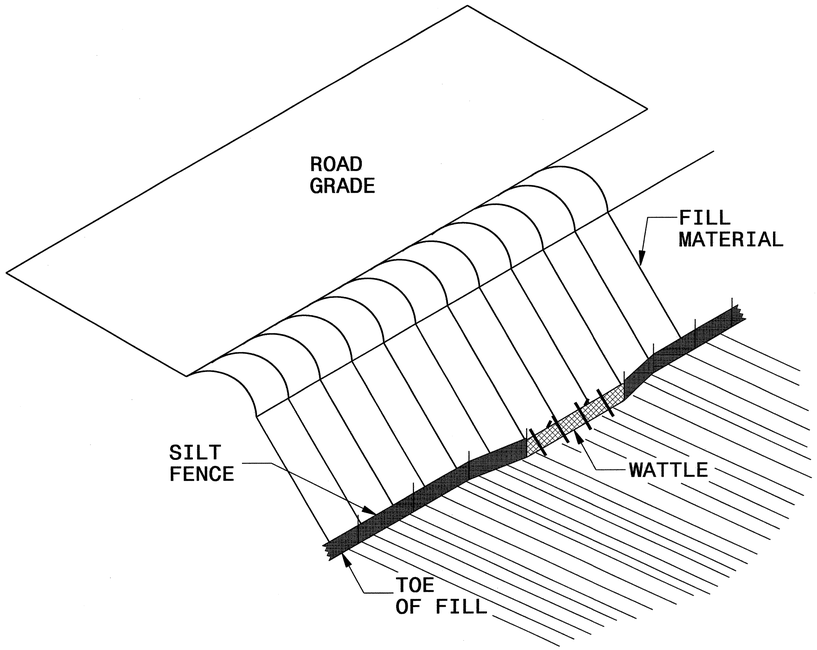
SECTION B-B

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

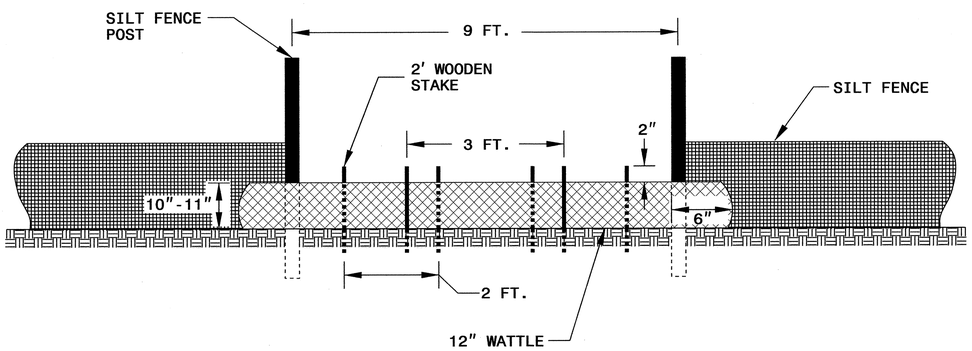
NOT TO SCALE

SILT FENCE COIR FIBER WATTLE BREAK DETAIL

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-2D
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



ISOMETRIC VIEW



VIEW FROM SLOPE

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.

EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.

DO NOT PLACE WATTLE ON TOE OF SLOPE.

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

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

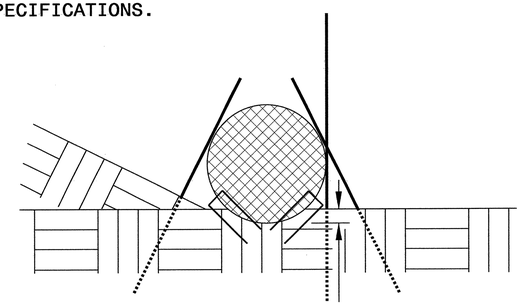
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

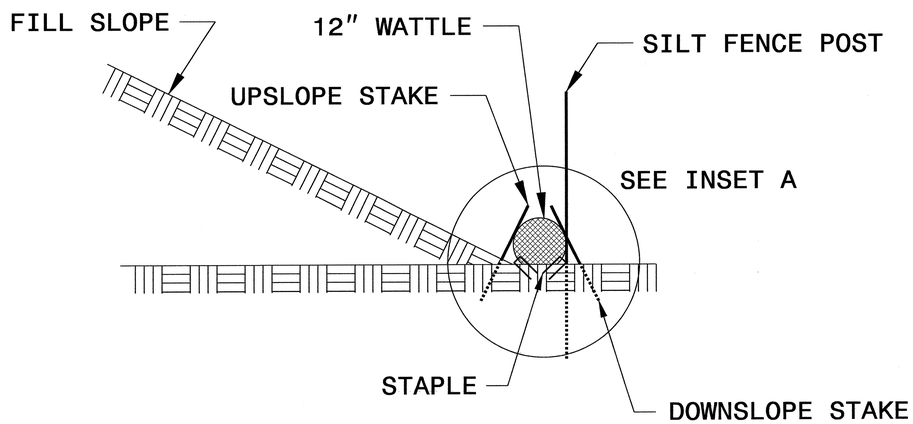
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.

INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

INSET A

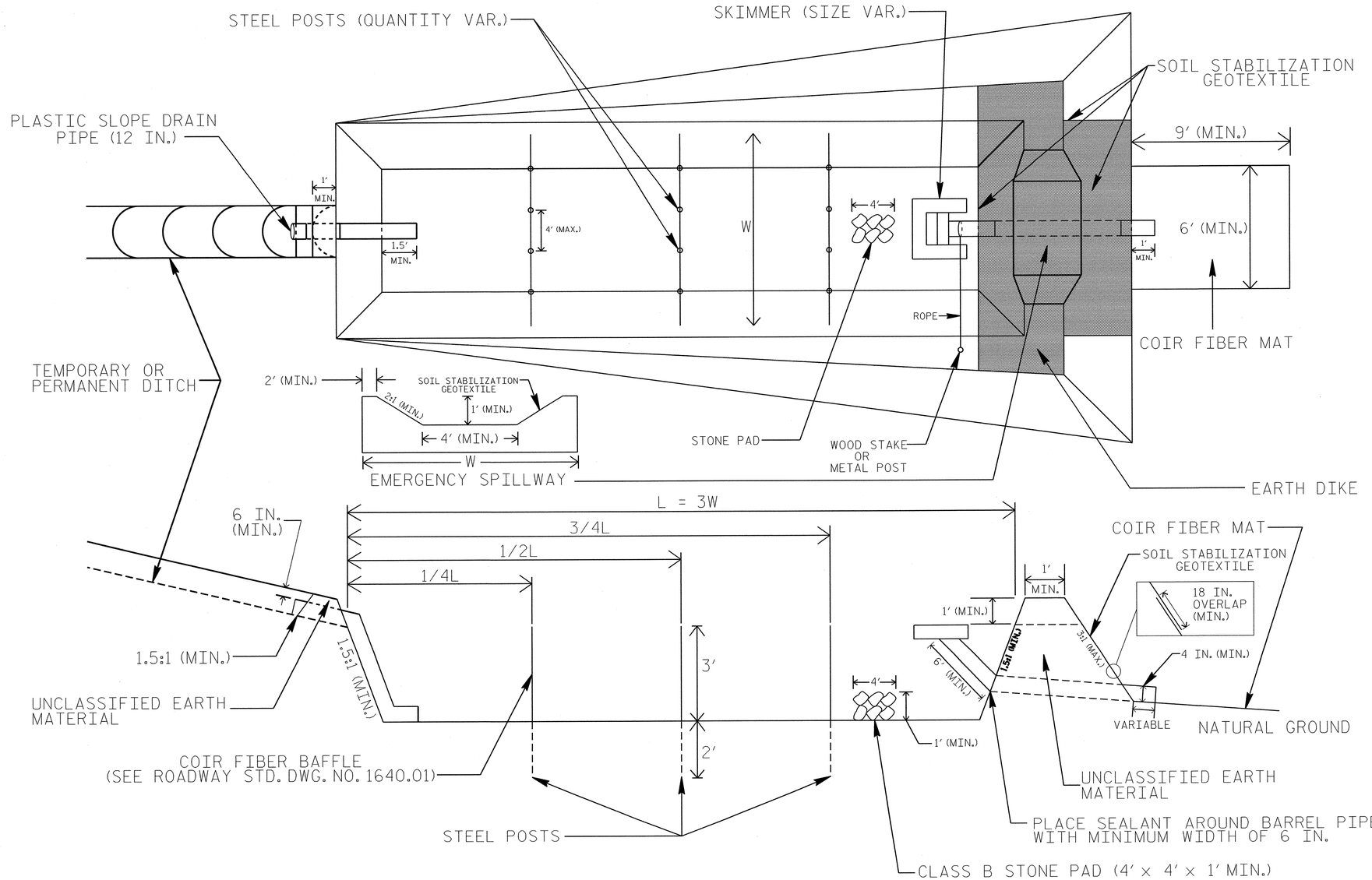




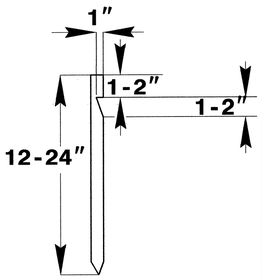
SIDE VIEW

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-2E
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

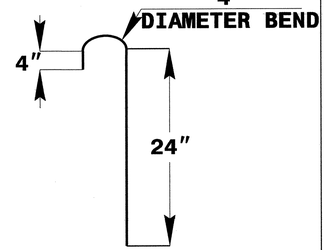
SKIMMER BASIN WITH BAFFLES DETAIL



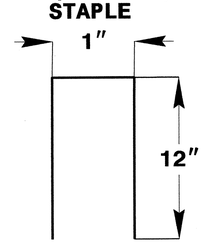
2″ x 2″ (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1″ (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

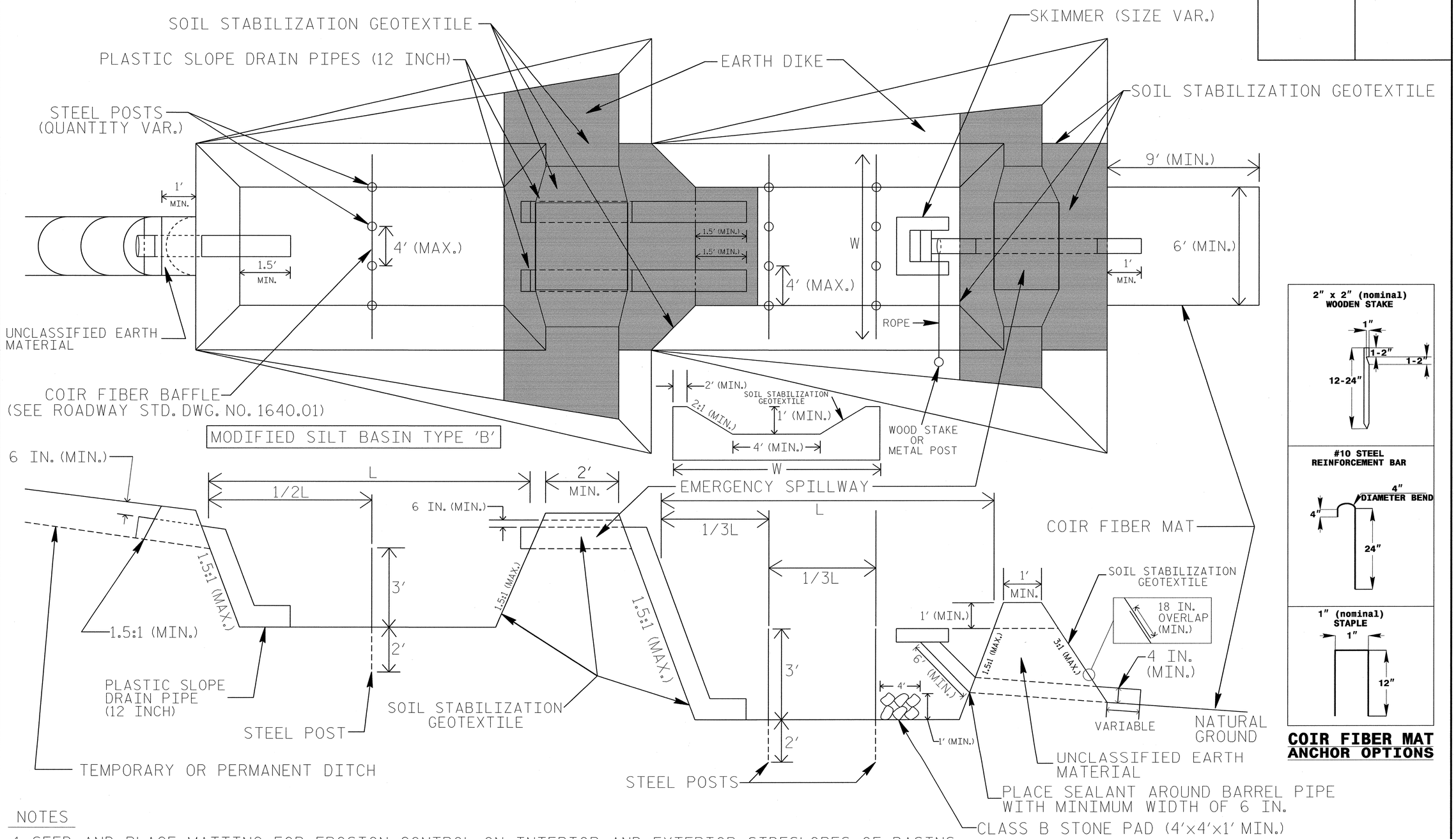
NOTES

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.
R-2303C	EC-2F
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TIERED SKIMMER BASIN DETAIL



COIR FIBER MAT ANCHOR OPTIONS

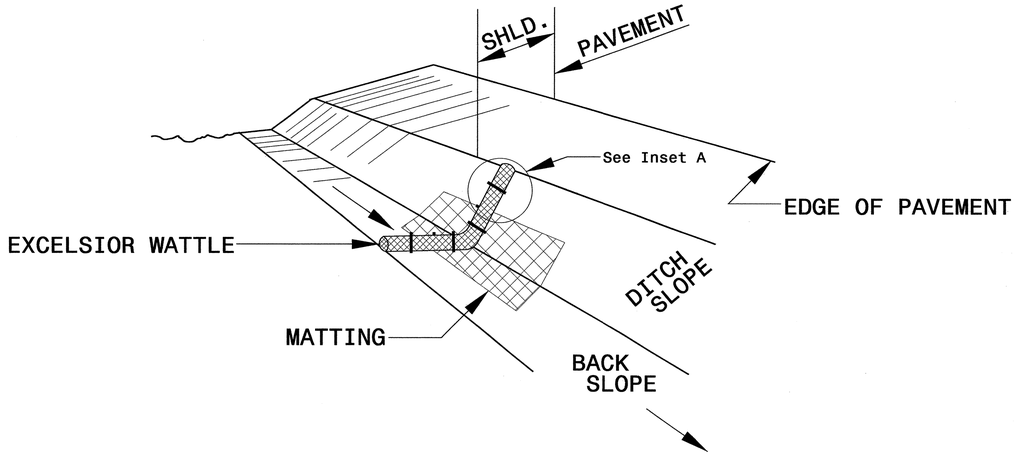
NOTES

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. SOIL STABILIZATION GEOTEXTILE FOR EMERGENCY SPILLWAYS SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

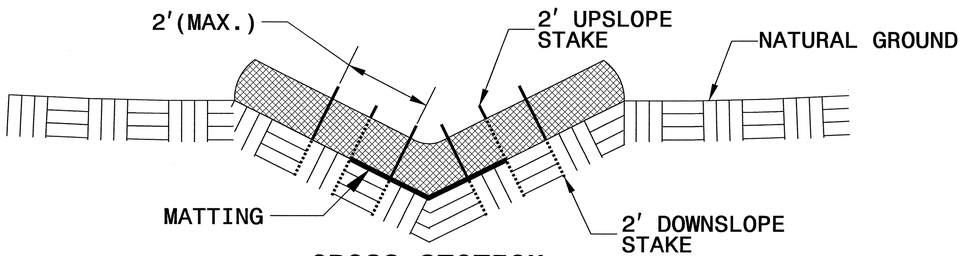
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-26
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

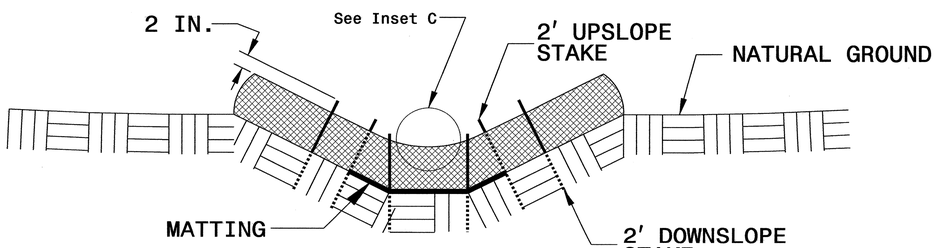
WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

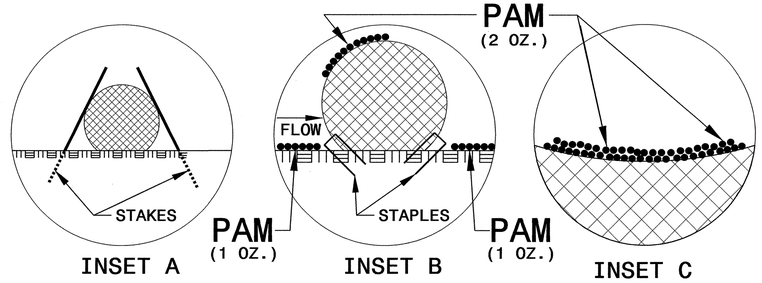
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

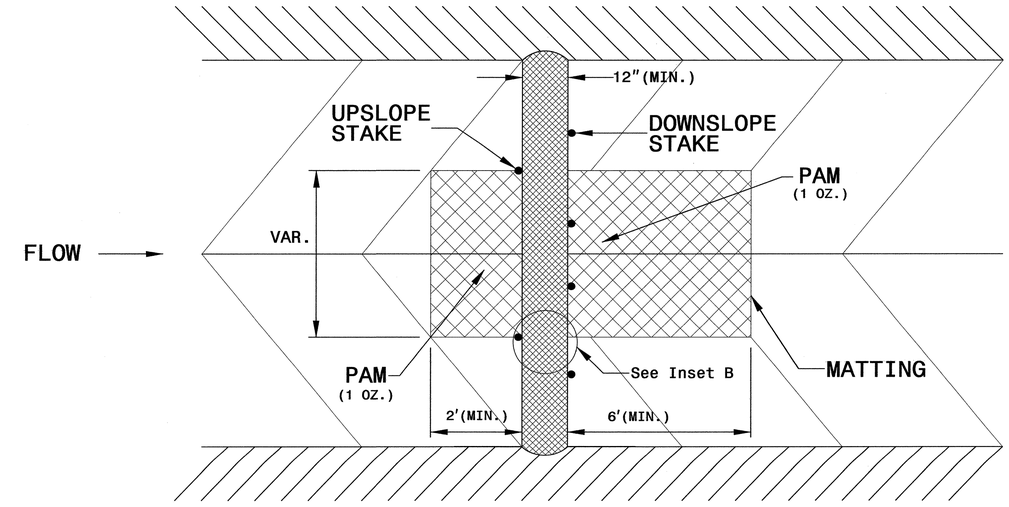
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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-2303C	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L-	730+10	734+50	LT	400
4	-L-	730+10	732+65.46	RT	235
4	-L-	731+00	734+21.25	MED	345
4	-L-	736+40.46	739+50	MED	315
4	-L-	734+90.46	741+00	RT	555
5	-L-	742+00	743+00	RT	190
5	-L-	745+00	749+90.65	RT	395
5	-L-	746+50	751+50	LT	670
5	-Y25-	16+40	16+99.51	RT	55
5	-Y25-	16+99.51	17+50	RT	50
5	-Y27-	14+50	15+00	LT	70
6	-L-	752+00	754+00	RT	195
7	-Y28-	12+50	12+87.12	LT	55
7	-Y28-	16+53.62	17+50	LT	90
8	-L-	788+00	790+52.31	LT	230
8	-L-	790+52.31	792+02.31	LT	255
9	-Y30-	11+34.3	11+87.77	RT	50
11	-L-	830+00	835+50	RT	665
11	-L-	828+00	833+50	LT	445
11	-L-	835+50	840+50	RT	515
11	-L-	833+50	841+50	LT	2025
12	-L-	841+50	844+00	RT	255
12	-L-	845+50	845+77.74	RT	20
12	-L-	846+50	849+16.97	RT	275
12	-L-	849+16.97	850+76.97	RT	165
12	-Y31-	25+00	25+50	LT	15
12	-Y31A-	11+10.48	13+50	RT	220
12	-Y31A-	11+10.48	14+13.42	LT	275
12	-Y32B-	10+15	10+50	RT	45
13	-L-	852+50	856+50	RT	365

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
13	-L-	858+00	860+50	RT	175
14	-L-	873+00	876+50	RT	320
14	-L-	876+50	878+00	RT	140
14	-Y33A-	10+47.63	12+47.63	LT	165
14	-Y33A-	10+47.63	12+97.63	RT	205
14	-D4-	10+66.22	10+94.2	RT	20
14	-D4	10+66.22	10+94.2	LT	20
15	-L-	879+50	884+00	RT	365
17	-L-	909+00	909+50	RT	70
17	-L-	909+50	913+50	RT	645
17	-L-	915+85.25	916+00	MED	10
17	-Y33A-	46+47.63	47+47.63	RT	140
17	-Y33A-	53+58.2	54+96.91	RT	285
18	-L-	924+50	928+00	RT	715
18	-L-	924+94.08	926+50	MED	160
18	-L-	925+06.3	932+00	LT	1060
18	-L-	929+50	933+00	RT	470
18	-L-	932+00	932+50	LT	70
18	-Y33-	11+27.3	13+00	LT	160
19	-L-	934+00	936+50	LT	175
19	-L-	939+00	939+50	MED	70
20	-L-	954+50	967+00	MED	1540
20	-L-	959+00	963+00	RT	540
20	-L-	959+00	967+00	LT	1225
21	-L-	987+00	989+00	MED	1120
21	-L-	978+50	981+00	LT	205
21	-Y34-	11+80.75	13+50	RT	155
22	-L-	12+50	14+00	RT	205
23	-L-	990+50	1002+50	MED	1610
23	-L-	995+50	999+00	RT	470

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-3A
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)
23	-L-	9994+50	999+50	LT	670
24	-L-	1004+50	1008+50	LT	805
24	-L-	1015+50	1017+50	LT	185
24	-D11-	10+00	10+50	RT	25
24	-D11-	10+00	10+50	LT	25
25	-L-	1024+50	1025+00	MED	60
26	-Y37-	12+60	16+00	RT	465
26	-Y37-	21+56.51	22+50	LT	90
26	-Y36A-	10+20	10+50	LT	30
26	-Y36A-	12+60	16+00	RT	310
26	-Y37-	21+56.51	22+50	RT	90
27	-SR2-	11+00	10+12	RT	145
27	-SR2-	11+00	10+12	LT	145
28	-L-	1066+50	1068+00	LT	160
28	-L-	1068+00	1073+00	LT	685
28	-L-	1069+50	1078+00	MED	1140
28	-Y36B-	10+25	10+50	LT	15
29	-L-	1084+00	1084+50	MED	70
29	-L-	1085+00	1086+50	MED	205
29	-Y38-	11+00	11+56.21	RT	55
30	-L-	1088+00	1096+23.1	MED	835
30	-L-	1090+50	1096+23.1	RT	770
30	-L-	1096+00	1096+23.1	LT	35
30	-L-	1096+23.1	1097+00	LT	105
31	-Y26-	15+50	16+00	RT	25
32	-Y31-	16+50	20+50	LT	365
32	-Y32-	14+00	16+00	RT	185
32	-Y32-	14+00	16+00	LT	185
32	-Y32-	16+00	22+00	LT	1090
32	-Y32-	22+00	22+50	LT	160

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
32	-Y32A-	10+45.36	22+00	RT	145
				SUBTOTAL	31,225
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					103,200
				TOTAL	134,425
				SAY	135,000

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-3B
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)
14	-D5-	10+17.31	10+50	LT	20
14	-D5-	10+17.31	10+50	RT	20
21	-Y34-	11+00	11+34.95	LT	35
28	-Y360-	10+25	10+50	RT	25
				SUBTOTAL	100
	ADDITIONAL	PSRM TO	BE INSTALLED		1,515
				TOTAL	1,615
				SAY	1,650

PERMANENT SOIL REINFORCEMENT MAT

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

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-3C
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.

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PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-4/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

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

NAD 83/95

STA 730+10.00 -L-
END STATE PROJECT R-2303B
BEGIN STATE PROJECT R-2303C

48 x 18 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
10 ft. weir
ID 4.1

AUTRY MILLS PROPERTIES LLC
DB 1810 PG 104
MB 48 PG 23

R/W ACQUIRED UNDER R-2303B

HUBERT AUTRY HEIRS
WB 88-E-W
DB 559 PG 508

PREFORMED SCOUR HOLE
OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 8 TONS
EST 16 SY FF
EST 25 SY PSRM
SEE DETAIL 2
SHEET 2-F

TS Sta. 737+37.21

MATCH LINE -L- STA. 738+00 SEE SHEET NO. 5

POT Sta. 728+79.38

730

735

LATERAL 'V' DITCH
SEE DETAIL I
SHEET 2-F

+80
BEGIN FENCE

FIE IN EXIST DITCH

+20
END FENCE
END FULL C/A
BEGIN PARTIAL C/A

WW FENCE

ACCESS POINT

+95
105' LT
115' LT

+60
105' LT
115' LT

PDE

4' BASE DITCH
SEE DETAIL 4
SHEET 2-F

+37.21
105' LT

+26.63
105' LT
TIE TO R-2303B

4' PS

24"

150' TAPER

12' DRL

TD

PSH

150' TAPER

4' RCP-III

S 69°33'44.4" E

REMOVE

-L- POT Sta. 732+76.44
-SRI- POT Sta. 10+00.00
BEARING AT
S 22°08'01.8" E

CL FENCE

PC Sta. 10+75.39

+95
105' RT
END CHL FENCE

+95
END FENCE
END FULL C/A
BEGIN PARTIAL C/A
105' RT

+20
90' RT
117' RT

+04
BEGIN CHL FENCE

PT Sta. 11+43.46

+50
90' RT

+65
105' RT

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 3 TONS
EST 7 SY FF

+50
END CHL FENCE

+78
BEGIN CL FENCE

+37.21
105' RT

OUTLET PROTECTION
CLASS 'B' RIP RAP
STREAM BANKS ONLY
EST 10 TONS
EST 28 SY FF

UNNAMED TRIB
TO BIG SWAMP (DEP)
INTERMITTANT
JURISDICTIONAL STREAM

LATERAL 'V' DITCH
SEE DETAIL I
SHEET 2-F

+12.54
130' RT
TIE TO R-2303B

LATERAL 'V' DITCH
SEE DETAIL I
SHEET 2-F

+13.05
195' RT
TIE TO R-2303B

+44.72
195' RT

+43
159' RT

PC Sta. 12+07.80

POC Sta. 12+77.00
END CONSTRUCTION
PT Sta. 12+77.76

CONNIE INEZ HALL
DB 1663 PG 623
DB 1088 PG 400
DB 1088 PG 403(MAP)

TERRY R. HUDSON
DB 1462 PG 282
MB 39 PG 48

SHANNON E. FAIRCLOTH
DB 1394 PG 796
MB 39 PG 48

CHARLES G. SESSOMS
DB 1658 PG 805
DB 1088 PG 392

MARGIE L. LOCKWOOD
DB 802 PG 750
DB 907 PG 650
DB 845 PG 183

CLEVELAND GODBOLD, ET UX
DB 862 PG 168
DB 992 PG 285

CHARLES G. SESSOMS
DB 1150 PG 478
DB 1244 PG 171
DB 1438 PG 588
MB 42 PG 100

TOMMY R. HALL
DB 1317 PG 567

R/W ACQUIRED UNDER R-2303B

NC 24 AUTRY HWY 24' BST

NC 24 AUTRY HIGHWAY

EXISTING R/W

HTR

WD
DK

WD
DKL

ISF
BUS

S 69° 34' 22" E
219.09'

S 69°34'22" E
109.21'

S 69°34'22" E
110.56'

S 69°34'22" E
220.00'

S 69°34'22" E
385.95'

S 17° 24' 30" W
12.52'

S 69°34'22" E
137.49'

S 22°38'55" E
150.57'

S 60°24'05" W
109.33'

FOR -L- PROFILE SEE SHEET 33
FOR -SRI- PROFILE SEE SHEET 55

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Microstation V8i (REVIZTO)

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-5/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5

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

NAD 83/95

60 x 16 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
8 ft. weir
ID 5.1

22 x 60 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
14 ft. weir
ID 5.2

MATCH LINE –L– STA. 738+00 SEE SHEET NO. 4

MATCH LINE –L– STA. 752+00 SEE SHEET NO. 6

MATCH LINE –Y26– STA. 11+50 SEE SHEET NO. 31

–Y25– PT Sta. 13+93.98
BEARING AH =
S 8°19'05.2" W

PC Sta. 15+33.32

–Y25– POC Sta. 16+40.00
BEGIN CONSTRUCTION

–L– POC Sta. 740+11.25
–Y25– POT Sta. 18+60.14

PT Sta. 18+13.17
BEARING AH =
S 10°01'47.9" W

–L– POC Sta. 751+04.07
–Y26– POT Sta. 10+00.00
BEARING AH = S 4°04'16.9" E

SC Sta. 739+37.21

CA CHORD

PC Sta. 11+39.22

END CONSTRUCTION
–Y27– POT Sta. 15+87.00

NANCY T. FAIRCLOTH
DB 1347 PG 819

JAMES FRANKLIN BUTLER JR
DB 1334 PG 001

CHARLES G. SESSOMS
DB 1150 PG 478
DB 1244 PG 171
DB 1438 PG 588
MB 42 PG 100

JEFFERSON B. STRICKLAND LT
DB 1657 PG 873
MB 42 PG 100

HUBERT AUTRY HEIRS
WB 88-E-17
DB 559 PG 508
MB 11 PG 85

CHRISTOPHER MICHAEL GREENE, et al
DB 1082 PG 487
WB 03E/84

KIMBERLY LANE HOBBS
ROBERT EURAL LANE
DB 1150 PG 72
DB 1026 PG 720
DB 1215 PG 836

ERNEST J. MAROSCHAK
DB 835 PG 812
DB 836 PG 349
DB 1183 PG 675
DB 1617 PG 761

TO BE DEEDED TO
PIEDMONT (NATURAL GAS CORP.

UNNAMED TRIB
TO BIG SWAMP (BS5)
INTERMITTANT
JURISDICTIONAL STREAM

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 3 TONS
EST 10 SY FF

OUTLET PROTECTION
CLASS 'B' RIPRAP
STREAM BANK ONLY
EST 7 TONS
EST 22 SY FF

TOE PROTECTION
CLASS 'B' RIP RAP
EST 52 TONS
EST 115 SY FF
SEE DETAIL 8
SHEET 2-G

TOE PROTECTION
EST 9 SY PSRM
SEE DETAIL 10
SHEET 2-F

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

LATERAL 'V' DITCH
SEE DETAIL 5
SHEET 2-F

LATERAL 'V' DITCH
W/ CLASS 'B' RIP RAP
EST 9 TONS
EST 36 SY FF
SEE DETAIL 6
SHEET 2-F

LATERAL 'V' DITCH
SEE DETAIL 1
SHEET 2-F

LATERAL 'V' DITCH
W/ CLASS 'B' RIP RAP
EST 40 TONS
EST 160 SY
SEE DETAIL 9
SHEET 2-F

TIE EXISTING DITCH
INTO PROPOSED

WW FENCE

ACCESS POINT

NC 24 BYPASS AND –Y26–			
11,750	NC 24 –L–	NC 24 –L–	7,060
18,630			11,220
	4,690 / 7,410	≤200 / ≤200	
	4,690 / 7,410		
		2013 ADT / 2033 ADT	

FOR –L– PROFILE SEE SHEET 33
FOR –Y25– PROFILE SEE SHEET 47
FOR –Y26– PROFILE SEE SHEET 47
FOR –Y27– PROFILE SEE SHEET 47

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Microstation CE
Operator: AL RENN/247758

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PROJECT REFERENCE NO.	SHEET NO.
R-2303C	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.

NAD 83/95

23 x 55 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
15 ft. weir
ID 6.1

40 x 16 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
8 ft. weir
ID 6.3F

36 x 10 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 6.3

MATCH LINE –L– STA. 752+00 SEE SHEET NO. 5

MATCH LINE –L– STA. 766+00 SEE SHEET NO. 7

ROBERT EURAL LANE
KIMBERLY LANE HOBBS
DB 1150 PG 75
DB 1026 PG 120
DB 1215 PG 836

PREFORMED SCOUR HOLE
OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 8 TONS
EST 16 SY FF
EST 25 SY PSRM
SEE DETAIL 2
SHEET 2-F

FLOATING TURBIDITY CURTAIN

UTILIZE ROCK FILL FROM STA 755+60 TO 759+70 LT UP TO ELEVATION 131.0

BOREN CLAY PRODUCTS
DB 874 PG 496

CS Sta. 764+03.90

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 2 TONS
EST 7 SY FF

LATERAL 2' BASE DITCH
SEE DETAIL II
SHEET 2-G

TIE EXISTING DITCH TO PROPOSED

LATERAL 2' BASE DITCH
W/ CLASS 'B' RIP RAP
EST 65 TONS
EST 348 SY FF
SEE DETAIL 12
SHEET 2-G

TIE EXIST. PC

TIE EXIST. PT

UTILIZE ROCK FILL FROM STA 755+00 TO 758+60 RT UP TO ELEVATION 131.0

PREFORMED SCOUR HOLE
OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 8 TONS
EST 16 SY FF
EST 25 SY PSRM
SEE DETAIL 2
SHEET 2-F

PONDS TO BE DRAINED DURING CONSTRUCTION

52 x 18 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
10 ft. weir
ID 6.1F

60 x 13 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
5 ft. weir
ID 6.2F

11 x 45 x 3
1.5 inch Skimmer
with 0.50 inch
Orifice Diameter
4 ft. weir
ID 6.2

5' BASE TAIL DITCH
SEE DETAIL 13
SHEET 2-G
100 LF @ 0.0%
EST 50 CY. DDE

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 8 TONS
EST 21 SY FF

FOR –L– PROFILE SEE SHEET 34
SBG: SHOULDER BERM GUTTER

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mjbridger AT RENV24778

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PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-7/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.

NAD 83/95

80 x 40 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
32 ft. weir
ID 7.1

MATCH LINE -L- STA. 766+00 SEE SHEET NO. 6

MATCH LINE -L- STA. 780+00 SEE SHEET NO. 8

ST Sta. 766+03.90

TIE EXISTING DITCH INTO PROPOSED

-Y28- POT Sta. 12+00.00
BEGIN CONSTRUCTION

-Y28- +94 46' LT

-Y28- +00 EX. R/W 40' LT

BOREN CLAY PRODUCTS
DB 874 PG 496

-Y28- +00 EX. R/W 40' RT

-Y28- +11 64' RT

-Y28- +31 64' RT

-Y28- +27 41.86' RT

CLEAN SILT OUT OF OUTLET AND GRADE TO DRAIN

-Y28- +75 45.17' RT

-Y28- +95 46.55' RT

-Y28- +45 50' RT

+03.90 100' LT

+10 100' LT END FENCE

LATERAL 'V' DITCH SEE DETAIL 5 SHEET 2-F

-Y28- +65 60' LT

RETAIN EX 24" RCP AND EXTEND 12 LF. W/ CONCRETE COLLAR

LATERAL 'V' DITCH SEE DETAIL 5 SHEET 2-F

-Y28- +68 115' LT

-Y28- +66 126' LT

+36 126.22' LT

LATERAL 'V' DITCH SEE DETAIL 1 SHEET 2-F

+95 115' LT

+00 130' LT BEGIN FENCE

WW FENCE

180-60-180 6.5' OS

300' TAPER

150' TAPER

15" RCP-N

18" RCP-III

N 58° 49' 09.3" E

REMOVE

SR 1403 OLD BRICK MILL RD 20' PAVE

S 38° 01' 47.9" E

+96.99

+75.53

+60.53

+65.53

+21.05

+19.05

SC Sta. 770+96.99

TS Sta. 768+96.99

-L- POC Sta. 769+20.53

-Y28- POT Sta. 15+02.53

PREFORMED SCOUR HOLE OUTLET PROTECTION CLASS 'B' RIP RAP EST 8 TONS EST 16 SY FF EST 25 SY PSRM SEE DETAIL 2 SHEET 2-F

BOREN CLAY PRODUCTS
DB 874 PG 496

-Y28- POT Sta. 17+17.94

-Y28- POT Sta. 17+50.00
END CONSTRUCTION

-Y28- +85 EX. R/W 55' RT

-Y28- +84 55' RT

-Y28- +05 57' RT

-Y28- +07 EX. R/W

+02 EX. R/W 48' LT

-Y28- +50 EX. R/W 40' RT

-Y28- +50 EX. R/W 45' LT

-Y28- +85 EX. R/W

-Y28- +35 65' LT BEGIN FENCE

LATERAL 'V' DITCH SEE DETAIL 5 SHEET 2-F

TIE EXISTING DITCH INTO PROPOSED

TIE PROPOSED DITCH INTO EXISTING

LATERAL 2' BASE DITCH SEE DETAIL 14 SHEET 2-G

+50 110' RT END FENCE

+20 110' RT 120' RT

+80 110' RT 120' RT

+03.90 110' RT

+21 119.05' RT

+00 100' RT

PDE

PUE

TSD

TDE

BPUE

EX. R/W

BOREN CLAY PRODUCTS
DB 874 PG 496

UTILIZE ROCK FILL FROM STA 774+80 TO 777+80 LT UP TO ELEVATION 131.0

PONDS TO BE DRAINED DURING CONSTRUCTION

FLOATING TURBIDITY CURTAIN

+85 115' LT 130' LT

OUTLET PROTECTION CLASS 'B' RIP RAP EST 2 TONS EST 7 SY FF

+85 115' LT 130' LT

LATERAL 'V' DITCH SEE DETAIL 1 SHEET 2-F

LATERAL 'V' DITCH SEE DETAIL 15 SHEET 2-G

PUMP AROUND SEE DETAIL 1 SHEET 2-F

CAT-1

15" RCP-N

2ø36" RCP-III

+00 75' RT

+50 100' RT

+75 100' RT

UNNAMED TRIB TO LITTLE COHARIE CREEK NON-JURISDICTIONAL STREAM

IVEY FELTON HAIRR ET AL
DB 1577 PG 330

STEVEN TEW
DB 1784 PG 535
MB 127 PG 47

NC 24 BYPASS & SR 1403 (OLD BRICK MILL RD.)

	200 / 200	
7,060 / 11,220 BYP	<200 / <200	NC 24
NC 24	200 / 200	7,060 / 11,450 BYP
	200 / 200	
	<200 / <200	
	-Y28- SR 1403	
	200 / 200	

2013 ADT
2033 ADT

FOR -L- PROFILE SEE SHEET 34

FOR -Y28- PROFILE SEE SHEET 47

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Michael Taylor
A1 REN2177B

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-8/CONST.8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99

80 x 40 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
32 ft. weir
ID 7.1

77 x 36 x 3
1.5 inch Skimmer
with 1.50 inch
Orifice Diameter
28 ft. weir
ID 8.1

NAD 83/95

MATCH LINE -L- STA. 780+00 SEE SHEET NO. 7

MATCH LINE -L- STA. 794+00 SEE SHEET NO. 9

DONALD RAY KELLY
DB 992 PG 986

DONALD RAY KELLY
ELIZABETH JUNE KELLY
DB 1575 PG 795

JUNE ELIZABETH KELLY
DB 1579 PG 795

LONNIE P. FAIRCLOTH
DB 1028 PG 622

BILLY DEAN FAIRCLOTH
DB 1818 PG 301
MB 78 PG 62

BILLY DEAN FAIRCLOTH
DB 963 PG 939
DB 1146 PG 240

BOREN CLAY PRODUCTS
DB 1871 PG 496

IVEY FELTON HAIRR, ET AL
DB 1577 PG 330
MB 57 PG 84

RONALD CANNADY
DB 1080 PG 812

STEVEN TEW
DB 1784 PG 535
MB 27 PG 47

IVEY FELTON HAIRR, ET AL
DB 1577 PG 330
MB 57 PG 84

JERRY ALLEN MITCHUM
DB 1623 PG 930

BEGIN CONSTRUCTION
-Y29- POT Sta. 19+00.00

-L- POT Sta. 785+08.22

-Y29- POT Sta. 22+16.95

CS Sta. 784+35.33

PC Sta. 22+20.00

PRC Sta. 24+04.19

PT Sta. 25+70.21
BEARING AH =
S 41° 15' 47.4" E

ST Sta. 786+35.33

TS Sta. 792+99.45

END CONSTRUCTION
-Y29- POT Sta. 27+50.00

CLASS 'I' OUTLET PROTECTION
STREAM BANKS ONLY
EST 17 TONS
EST 37 SY FF

CLASS 'B' OUTLET PROTECTION
STREAM BANKS ONLY
EST 10 TONS
EST 28 SY FF

RIPRAP EMBANKMENT
PROTECTION
EST 2 TONS
EST 5 SY FF
SEE DETAIL 17
SHEET 2-G

UNNAMED TRIB TO
LITTLE COHARIE CREEK (LC1)
INTERMITTANT
JURISDICTIONAL STREAM

UNNAMED TRIB TO
LITTLE COHARIE CREEK (LC2)
PERENNIAL
JURISDICTIONAL STREAM

2' BASE TAIL DITCH
SEE DETAIL 16
SHEET 2-G
100 LF. @ 0.3%
EST 20 CY DDE

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 2 TONS
EST 7 SY FF

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 3 TONS
EST 10 SY FF

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 2 TONS
EST 7 SY FF

LATERAL 'V' DITCH
SEE DETAIL I
SHEET 2-F

LATERAL 'V' DITCH
SEE DETAIL 5
SHEET 2-F

MEDIAN 'V' DITCH
SEE DETAIL 25
SHEET 2-G

TIE PROPOSED DITCH
INTO EXISTING

TIE EXISTING DITCH
INTO PROPOSED

FILL EXIST DITCH

WW FENCE

CHORD

300' TAPER

150' TAPER

150-50-150
6' OS

180-60-180
6.5' OS

N 81° 28' 39.2" E

N 69°14'37" E
388.80'

S 69°14'37" W
408.85'

S 73°53'32" W
94.45'

S 17°53'01" E
697.91'

S 27°25'09" E
204.87'

S 40°58'44" W
154.41'

S 07°31'01" W
288.93'

S 72°22'39" W
504.45'

N 63°19'04" E
510.62'

N 45°45'45" E
504.45'

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.

FOR -L- PROFILE SEE SHEET 35
FOR -Y29- PROFILE SEE SHEET 48

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rchandler

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-9/CONST.9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/95

-Y30- POT Sta. 10+00.00
BEARING AH =
S 3° 31' 21.4" E

-Y30- +00
EX. R/W

BEGIN CONSTRUCTION
-Y30- POT Sta. 11+00.00

GRADE TO DRAIN

-Y30- +00
EX. R/W

LATERAL 'V' DITCH
SEE DETAIL 5
SHEET 2-F

RONALD CANNADY
DB 1080 PG 812

23

+92
115' LT
END FENCE

-L- POC Sta. 796+42.31
-Y30- POT Sta. 13+49.32

+99.40
110' LT

+98.47
ON P/L
BEGIN FENCE

+23.34
30.18'

+75.23
ON P/L

300' TAPER

150' TAPER

WW FENCE

EVA BROCK, ETAL
DB 1088 PG 392

25

EVA BROCK
DB 995 PG 73

24

+95
95' LT
130' LT
END LIMITED C/A
BEGIN FULL C/A

+75
130' LT
END FULL C/A
BEGIN LIMITED C/A

WILLIAM S. WELLONS, JR
DB 1310 PG 964

29

51 x 21 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
13 ft. weir
ID 9.1

60 x 17 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
9 ft. weir
ID 10.1

CLASS I OUTLET PROTECTION
STREAM BANKS ONLY
EST. 38 TONS
EST 78 SY FF

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

+76.65
105' LT

CHORD

REMOVE

+86.64
PL

+87.37
END CHL FENCE
BEGIN WW FENCE

CL FENCE

+08
PL

LATERAL 'V' DITCH
SEE DETAIL 1
SHEET 2-F

LATERAL 'V' DITCH
SEE DETAIL 5
SHEET 2-F

FALSE SUMP
SEE DETAIL 8
SHEET 2-F

+95
ON P/L
END LIMITED C/A
BEGIN FULL C/A

+00
PL

+75
114.54' RT
END FULL C/A
BEGIN LIMITED C/A

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 5 TONS
EST 14 SY FF

LATERAL 'V' DITCH
SEE DETAIL 1
SHEET 2-F

CHORD
LATERAL 'V' DITCH
SEE DETAIL 1
SHEET 2-F

+76.65
115' RT

ST Sta. 807+76.65

CS Sta

-Y30- +75
60' RT

+99.45
120' RT

-Y30- +17
48.33' RT
END FENCE

-Y30- +65
EX. R/W
35' RT

SC Sta. 794+99.45

-Y30- +17
47.06 LT
BEGIN CHL FENCE

-Y30- +65
EX. R/W
35' LT

END CONSTRUCTION
-Y30- POT Sta. 15+65.00

TIE EXISTING DITCH
INTO PROPOSED

UNNAMED TRIB TO
LITTLE COHARIE CREEK
NON-JURISDICTIONAL STREAM

UNNAMED TRIB TO
LITTLE COHARIE CREEK (LC4)
INTERMITTANT
JURISDICTIONAL STREAM

80 x 20 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
12 ft. weir
ID 9.2F

NC 24 BYPASS & SR 1401 (LUCAS RD.)			
	400 / 400		
7,260 / 11,420 NC 24 BYP	200 / 200	200 / 200	NC 24 BYP 7,460 / 11,620
	200 / 200	200 / 200	
	-Y30- SR 1401		
	400 / 400		2013 ADT / 2033 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.

MATCH LINE -L- STA. 794+00 SEE SHEET NO. 8

MATCH LINE -L- STA. 808+00 SEE SHEET NO. 10

IVEY FELTON HAIRR, ET AL
DB 1577 PG 330
MB 57 PG 84

21

BOBBY EARL JACKSON
DB 1066 PG 259
MB8PG42

26

JACOLYN B. CLARK
DB 1406 PG 774
MB 8 PG 42

MARY L. UNDERWOOD
DAVID E. UNDERWOOD
DB 1567 PG 831
MB 8 PG 42

WATTIE ROBINSON
DB 955 PG 86
MB 8 PG 42

EDWARD C. MAXWELL
DB 1089 PG 568
MB 8 PG 42

SHIRLEY J. OWENS
DB 988 PG 682
MB 8 PG 42

DARRYL L. ANDERSON
DB 1746 PG 770
MB 8 PG 42

JACOLYN B. CLARK
DB 1467 PG 605
MB 8 PG 42

JAMES DINO WILLIAMS JR.
DB 10519 PG 666
DB 8349 PG 151
MB 8 PG 42
MB 25 PG 76

27

RICHARD S. HALL
DB 1328 PG 53
MB 25 PG 76

28

30

JERRY ALLEN MITCHUM
DB 1623 PG 930

ANGEL LUIS RIVERA-MORENO
DB 1658 PG 13
MB 8 PG 42

LESTER FREEMAN
DB 925 PG 547
MB 8 PG 42

KELLY E. BLACK AND
AMY L. BLACK
DB 1773 PG 841
MB 8 PG 42

ISFD
ABAND TELEPHONE BOX

B ABAND

800

805

795

SR 1497 MYRTLE RD 26' BST

SR 1401 LUCAS RD 20' BST

CAT-1

72" RCP

15" RCP-IV

18" RCP-IV

24" RCP-IV

12" RCP

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dbonstead
REVISIONS

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-10/CONST.10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/95

MATCH LINE -L- STA. 808+00 SEE SHEET NO. 9

MATCH LINE -L- STA. 822+00 SEE SHEET NO. 11

60 x 17 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
9 ft. weir
ID 10.1

66 x 16 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
8 ft. weir
ID 10.2

25 x 58 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
17 ft. weir
ID 10.3

29

WILLIAM S. WELLONS, JR
DB 1310 PG 964

30

RUFUS W. HALL, ET AL
DB 1363 PG 314

31

TOMMY DAVID CAIN, ET AL
DB 806 PG 805
DB 806 PG 807

PREFORMED SCOUR HOLE
OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 8 TONS
EST 16 SY FF
EST 25 SY PSRM
SEE DETAIL 2
SHEET 2-F

PREFORMED SCOUR HOLE
OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 8 TONS
EST 16 SY FF
EST 25 SY PSRM
SEE DETAIL 2
SHEET 2-F

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 2 TONS
EST 7 SY FF

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 2 TONS
EST 7 SY FF

LATERAL 'V' DITCH
SEE DETAIL 1
SHEET 2-F

LATERAL 'V' DITCH
SEE DETAIL 1
SHEET 2-F

LATERAL 'V' DITCH
SEE DETAIL 1
SHEET 2-F

BEGIN SBG +23.49

END SBG +08.26

+06 105' LT 119' LT

+48 105' LT 119' LT

+29 105' LT 114' LT

+71 105' LT 114' LT

+03 105' LT 114' LT

+28 105' LT 114' LT

+23.26 236.59'

PDE

PSH

TSD

WW FENCE

CFW

GRAU 350

15" CSP W/ ELBOWS

15" RCP-IV

18" RCP-III

2GI

TP

TB

-L- S 79°42'38.2" E

N 54°26'43" W
1408.94'

N 52°23'26" W
341.08'

N 52°23'26" W
893.97'

295.08'
N 62°36'50" E

639.28'
S 24°31'49" W

FOR -L- PROFILE SEE SHEET 36

SBG: SHOULDER BERM GUTTER

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.

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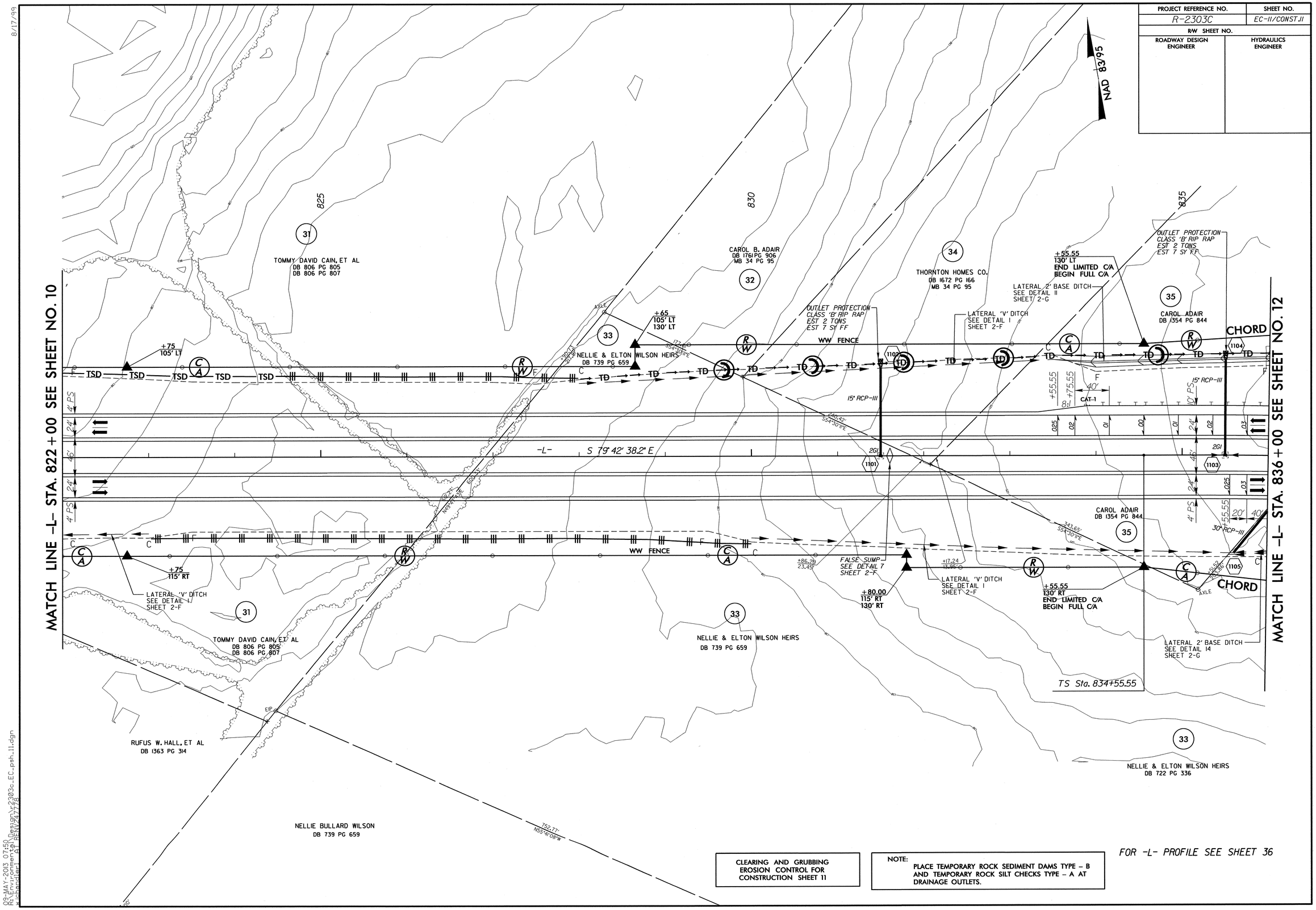
Richardson, Jeffrey A (RENV247778)

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-11/CONST.11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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.

FOR -L- PROFILE SEE SHEET 36

8/17/99

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wjchandler1 AT RENV247778

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-12/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.

NC 24 BYPASS & NC 242 (N. EAST ST.)

		5,300 / 7,540		
		-Y31- NC 242		
	260 / 420		1,130 / 1,450	
7,460 / 11,620	-L- NC 24		-L- NC 24	8,540 / 12,850
	460 / 860		730 / 1,050	
		-Y31- NC 242		
		5,160 / 7,560		2013 ADT / 2033 ADT

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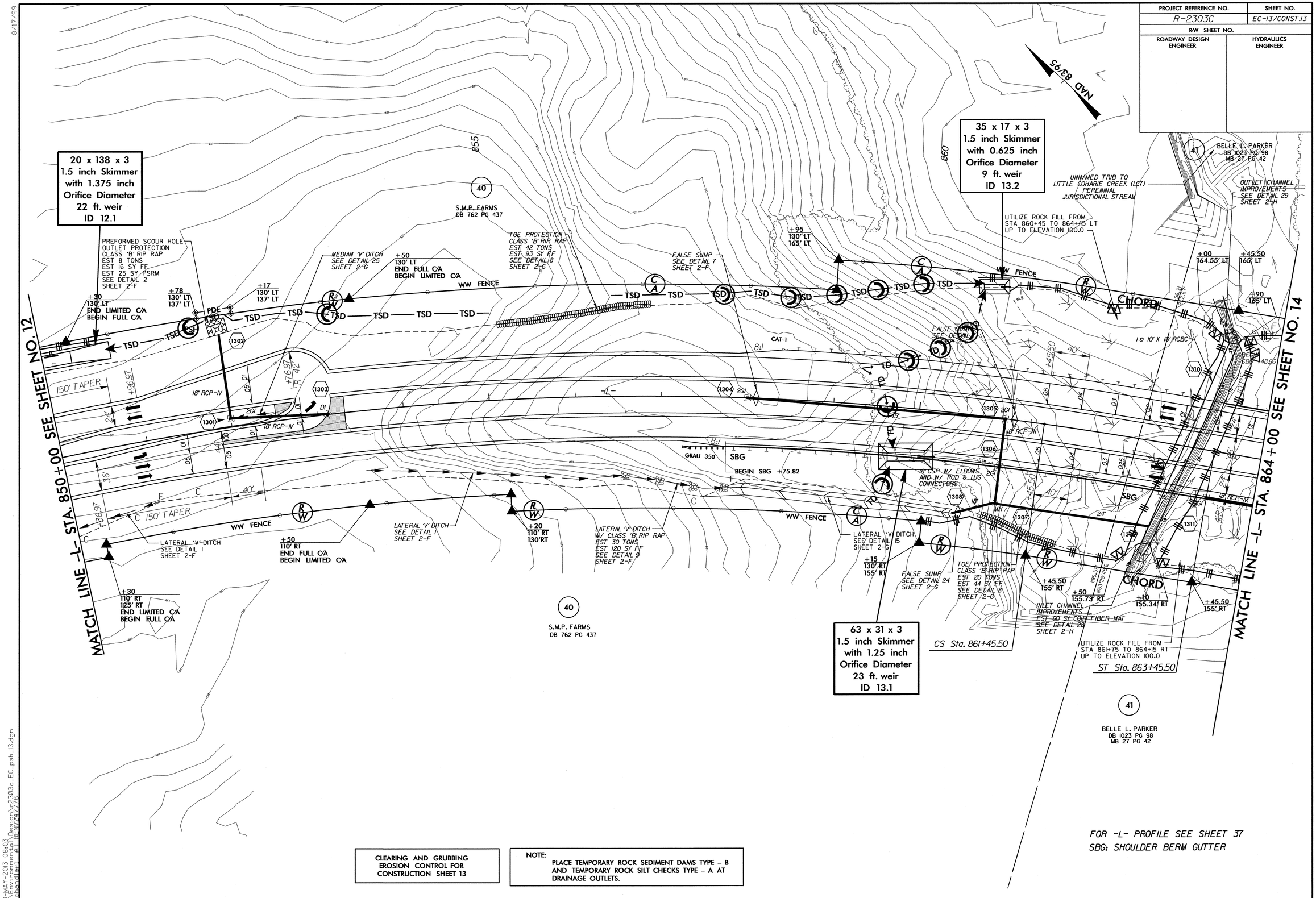
wlchandler1 AT RENV247778

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-13/CONST.13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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.

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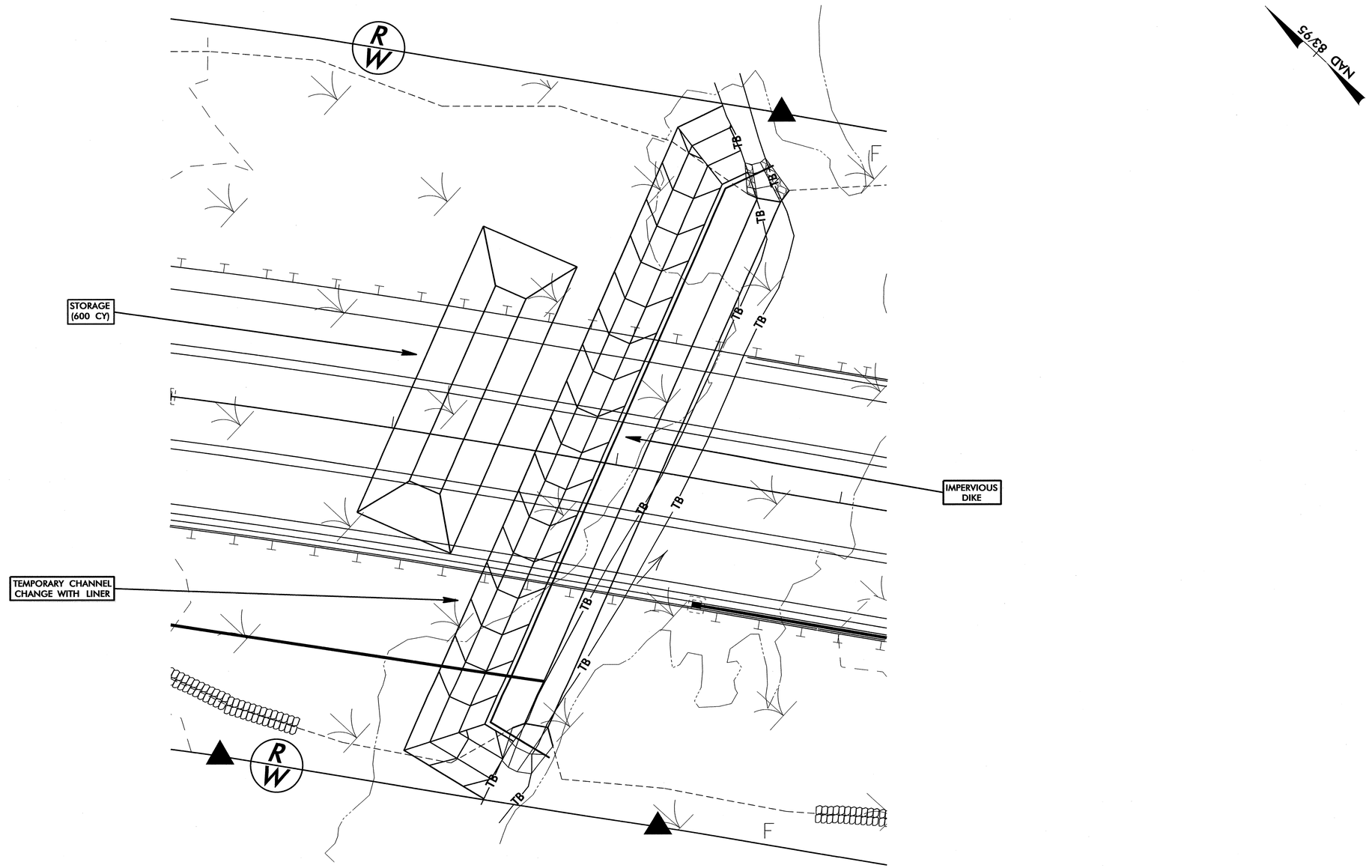
CULVERT CONSTRUCTION SEQUENCE STA. 863+15 –L–

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-14/CONST13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

1. CONSTRUCT STILLING BASIN (600 CY).
2. CONSTRUCT IMPERVIOUS DIKE AND TEMPORARY CHANNEL CHANGE WITH LINER (10 FT. BASE, 6 FT. DEEP, 1.5:1 SIDE SLOPES), DIVERTING FLOW.
3. CONSTRUCT PROPOSED CULVERT AND A PORTION OF UPSTREAM/DOWNSTREAM CHANNEL IMPROVEMENTS.
4. REMOVE IMPERVIOUS DIKE AND TEMPORARY CHANNEL CHANGE, ALLOWING NORMAL FLOW THROUGH PROPOSED CULVERT.
5. COMPLETE REMAINDER OF UPSTREAM/DOWNSTREAM CHANNEL IMPROVEMENTS.
6. REMOVE STILLING BASIN, AND COMPLETE ROADWAY.



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PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-15/CONST.14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE -L- STA. 864+00 SEE SHEET NO. 13

MATCH LINE -L- STA. 878+00 SEE SHEET NO. 15

NAD 83/95

100 x 25 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
17 ft. weir
ID 14.1

102 x 24 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
16 ft. weir
ID 14.2

40 x 16 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
8 ft. weir
ID 14.1F

BELLE L. PARKER
DB 1023 PG 98
MB 27 PG 42

BOBBY WAYNE JACKSON
DB 1332 PG 570
MB 27 PG 42

ELVIS W. JACKSON
DB 1792 PG 582
MB 27 PG 42

BELLE LEE PARKER
DB 1023 PG 98
DB 1751 PG 851
MB 27 PG 42

UTILIZE ROCK FILL FROM STA 860+45 TO 864+45 LT UP TO ELEVATION 100.0

UNNAMED TRIB TO LITTLE COHARIE CREEK (LCT) PERENNIAL JURISDICTIONAL STREAM

PREFORMED SCOUR HOLE OUTLET PROTECTION CLASS 'B' RIP RAP EST 8 TONS EST 16 SY FF EST 25 SY PSRM SEE DETAIL 2 SHEET 2-F

-Y33A- POT Sta. 10+00.00
BEGIN CONST.
-D4- PT Sta. 10+94.37

PC Sta. 10+66.22
PT Sta. 10+55.59
BEARING AH =
S 6°15' 52.3" W

GRADE TO DRAIN

-Y33A- +34
108' LT

-Y33A- +25
46.79' LT
87' LT

-D5- PC Sta. 10+00.00
BEGIN CONST.

PT Sta. 10+17.31
BEARING AH =
S 57° 11' 53.4" W

-Y33A- +73
46.85' LT
90' LT

-Y33A- POT Sta. 10+47.60
-D5- POT Sta. 11+00.74

-D4- PC Sta. 10+00.00
BEGIN CONST.

-Y33A- S 32° 48' 06.6" E

-L- S 32° 51' 52.9" E

+25
120' LT
165' LT
175' LT

+54
175' LT
347' LT

+03
175' LT
347' LT

2' BASE TAIL DITCH
SEE DETAIL 16
SHEET 2-G
180 LF @ 0.9%
EST 85 CY DDE

LATERAL 'V' DITCH
SEE/DETAIL 5
SHEET 2-F

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 5 TONS
EST 14 SY FF

LATERAL 'V' DITCH
SEE DETAIL 5
SHEET 2-F

18" CSP W/ ELBOWS AND W/ ROD & LUG CONNECTORS

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

WW FENCE

END SBG +75.01

END SBG +56.20

GRAU 350

+75
90' LT

+25
90' LT

+75
100' LT

+55
100' LT

+85
110' RT
130' RT

+00
130' RT
155' RT

+55
110' RT

LATERAL 'V' DITCH
W/ CLASS 'B' RIP RAP
EST 35 TONS
EST 140 SY FF
SEE DETAIL 26
SHEET 2-H

FLARE 'V' DITCH
TO CREATE 10' WEIR
W/ CLASS 'B' RIP RAP
EST 13 TONS
EST 35 SY FF
SEE DETAIL 5
SHEET 2-F

TOE PROTECTION
CLASS B RIPRAP
EST 22 TONS
EST 50 SY FF
SEE DETAIL 8
SHEET 2-G

STREAM LOCATION UNKNOWN

APPROXIMATE SCRUB

NATURAL SPRING

15" RCP-IV
18" RCP-IV
18" RCP-III
24" RCP-IV
24" RCP-III

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.

FOR -L- PROFILE SEE SHEET 38
FOR -Y33A- PROFILE SEE SHEET 53
FOR -D4- & -D5- PROFILE SEE SHEET 56
SBG: SHOULDER BERM GUTTER

N 38°11' 28" E

+682.84
1,100.38

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Richard Penner, PE
RENVISION 17.78

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-16/CONST.15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83'95

MATCH LINE -L- STA. 878+00 SEE SHEET NO. 14

MATCH LINE -L- STA. 892+00 SEE SHEET NO. 16

60 x 23 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
15 ft. weir
ID 15.1

55 x 25 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
17 ft. weir
ID 15.4

38 x 16 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
8 ft. weir
ID 15.1F

43 x 16 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
8 ft. weir
ID 15.5F

34 x 12 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 15.2

44 x 16 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
8 ft. weir
ID 15.3

UNNAMED TRIB TO LITTLE COHARIE CREEK (LC8) INTERMITTANT JURISDICTIONAL STREAM

THOMAS L. SUTTON ET UX
DB 1230 PG 719

BELLE LEE PARKER
DB 1023 PG 98
DB 1751 PG 851
MB 27 PG 42

LILLIAN LEIGH HERRING
DB 1468 PG 41
DB 877 PG 615
MB 29 PG 44

THOMAS L. SUTTON
DB 572 PG 399

HEAD STONE ONLY NO BARIAL DATES

-D7- POT Sta. 10+00.00
BEARING AH =
S 38° 41' 18.7" W
BEGIN CONST.

-D6- POT Sta. 10+00.00

-D6- POC Sta. 10+04.00
BEGIN CONST.

PC Sta. 10+66.15

PT Sta. 11+01.95
S 79° 48' 34.7" W

PT Sta. 10+67.61
BEARING AH =
S 42° 15' 08.7" W

-Y33A- POT Sta. 27+29.66
-D6- POT Sta. 11+15.37

-D7- +00
18' LT

PC Sta. 11+27.93

-D7- +50
33' LT

PT Sta. 11+50.19

-D8- POT Sta. 10+00.00
BEARING AH =
S 72° 33' 53.8" W

PC Sta. 10+32.48

-D8- POC Sta. 10+40.00
BEGIN CONST.

-Y33A- POT Sta. 30+81.40
-D8- POT Sta. 11+57.19
BEARING BK =
S 57° 11' 53.4" W

PT Sta. 10+86.12

-Y33A- POT Sta. 27+93.44
-D7- POT Sta. 11+75.12
BEARING BK =
S 54° 17' 55.8" W

S 32° 48' 06.6" E -Y33A-

-L- S 32° 51' 52.9" E

TOE PROTECTION
CLASS 'B' RIP RAP
EST 20 TONS
EST 45 SY FF
SEE DETAIL 8
SHEET 2-G

OUTLET CHANNEL
IMPROVEMENTS
SEE DETAIL 5
SHEET 2-H

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 5 TONS
EST 16 SY FF

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

FALSE SUMP
SEE DETAIL 7
SHEET 2-G

FALSE SUMP
SEE DETAIL 7
SHEET 2-K

LATERAL 'V' DITCH
SEE DETAIL 1
SHEET 2-F

PREFORMED SCOUR HOLE
OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 8 TONS
EST 16 SY FF
EST 25 SY PSRM
SEE DETAIL 2
SHEET 2-F

INLET CHANNEL
IMPROVEMENTS
EST 25 SY SCOUR FIBER MAT
SEE DETAIL 3D
SHEET 2-H

TOE PROTECTION
CLASS 'B' RIP RAP
EST 35 TONS
EST 75 SY FF
SEE DETAIL 8
SHEET 2-G

TOE PROTECTION
CLASS 'B' RIP RAP
EST 50 TONS
EST 115 SY FF
SEE DETAIL 8
SHEET 2-G

WW FENCE

FOR -L- PROFILE SEE SHEET 38
FOR -Y33A- PROFILE SEE SHEET 53
FOR -D6-, -D7-, -D8- PROFILE SEE SHEET 57
SBG: SHOULDER BERM GUTTER

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.

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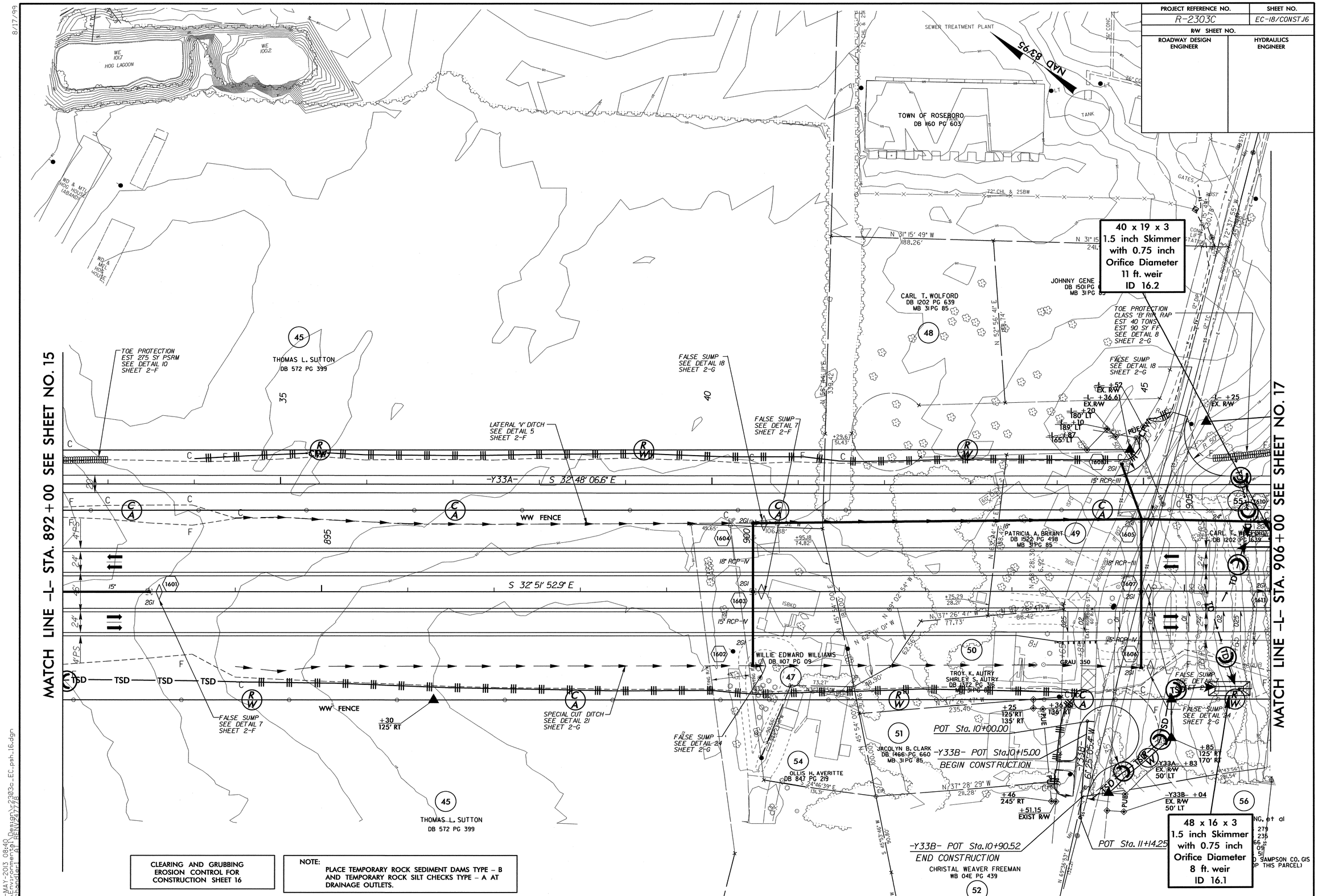
Last Modified 21-MAY-2013 REVISED 2-17-16

CULVERT CONSTRUCTION SEQUENCE STA. 888 + 67 –L–

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-17/CONST.15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

1. CONSTRUCT STILLING BASIN (100 CY).
2. CONSTRUCT IMPERVIOUS DIKE AND TEMPORARY CHANNEL CHANGE WITH LINER (5 FT. BASE, 1.5 FT. DEEP, 1.5:1 SIDE SLOPES), DIVERTING FLOW.
3. CONSTRUCT PROPOSED CULVERT AND A PORTION OF UPSTREAM/DOWNSTREAM CHANNEL IMPROVEMENTS.
4. REMOVE IMPERVIOUS DIKE AND TEMPORARY CHANNEL CHANGE, ALLOWING NORMAL FLOW THROUGH PROPOSED CULVERT.
5. COMPLETE REMAINDER OF UPSTREAM/DOWNSTREAM CHANNEL IMPROVEMENTS.
6. REMOVE STILLING BASIN, AND COMPLETE ROADWAY.

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-18/CONST.16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 16

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

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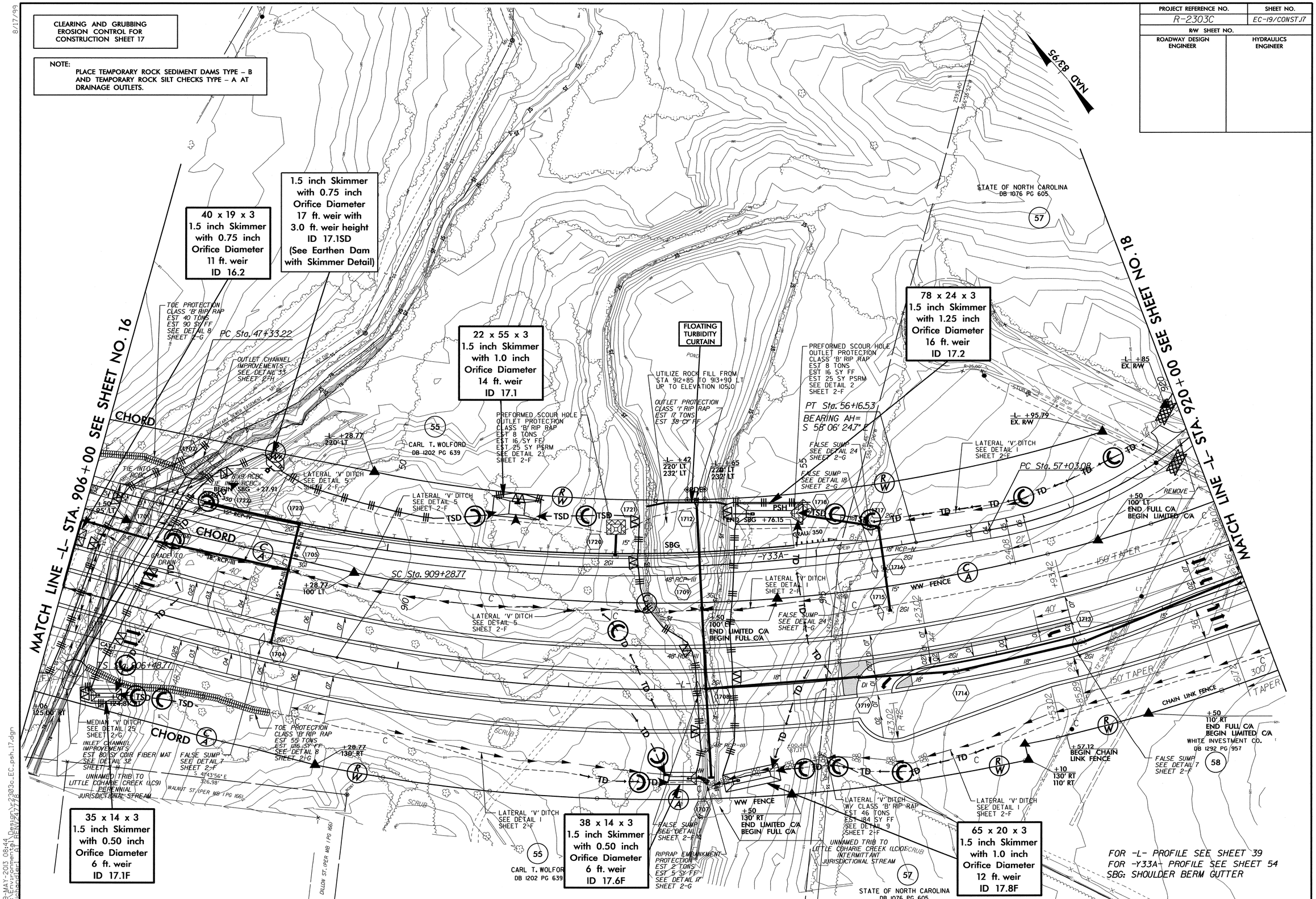
wichandler1 AT RENV247778

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-19/CONST.17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 17

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



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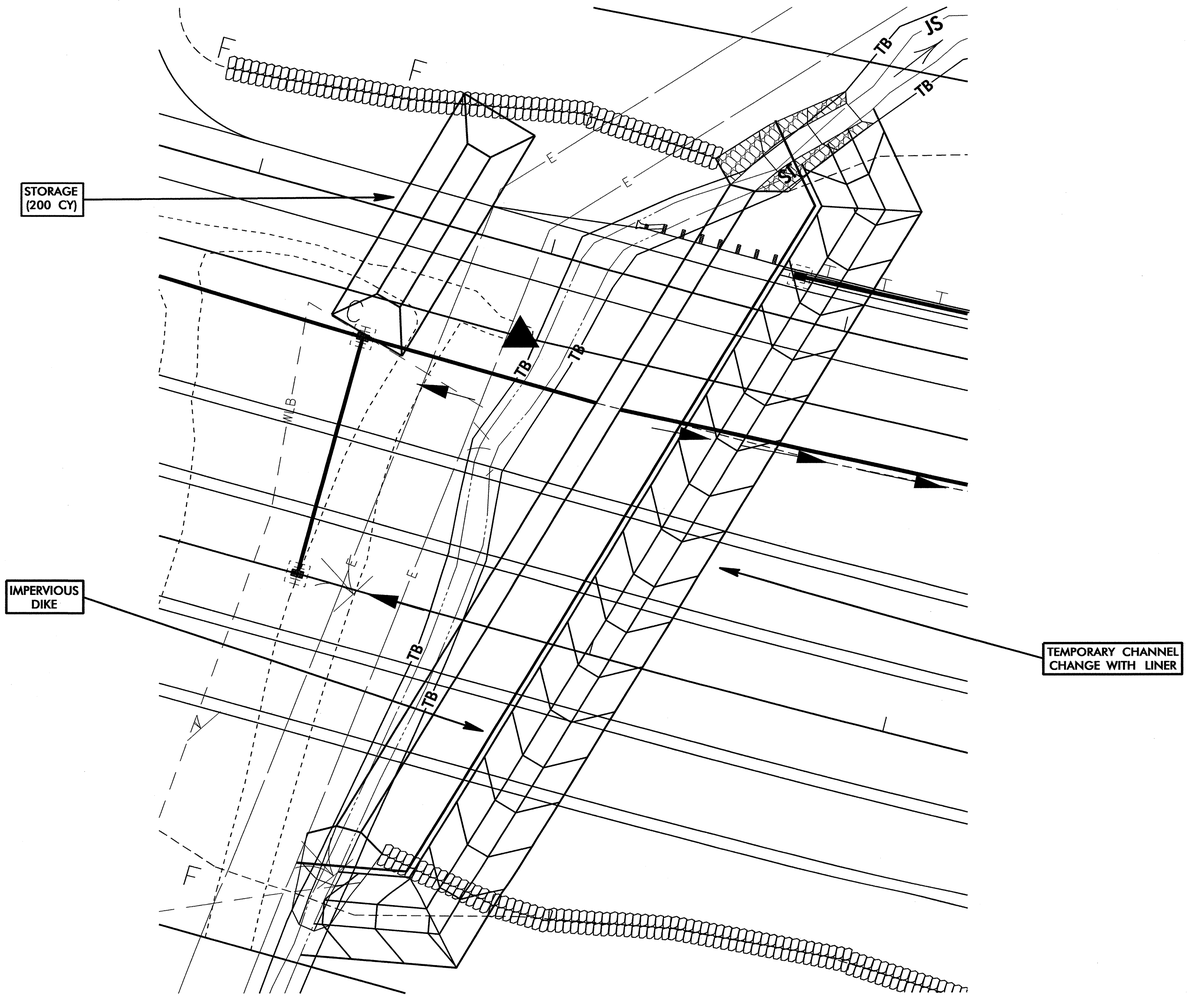
CULVERT CONSTRUCTION SEQUENCE STA. 906 + 61 –L–

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-20/CONST.17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

1. CONSTRUCT STILLING BASIN (200 CY).
2. CONSTRUCT IMPERVIOUS DIKE AND TEMPORARY CHANNEL CHANGE WITH LINER (8 FT. BASE, 7 FT. DEEP, 1.5:1 SIDE SLOPES), DIVERTING FLOW.
3. CONSTRUCT PROPOSED CULVERT AND A PORTION OF UPSTREAM/DOWNSTREAM CHANNEL IMPROVEMENTS.
4. REMOVE IMPERVIOUS DIKE AND TEMPORARY CHANNEL CHANGE, ALLOWING NORMAL FLOW THROUGH PROPOSED CULVERT.
5. COMPLETE REMAINDER OF UPSTREAM/DOWNSTREAM CHANNEL IMPROVEMENTS.
6. REMOVE STILLING BASIN, AND COMPLETE ROADWAY.

NAD 83/95



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PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-21/CONST.18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 18

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

NAD 83/95

MATCH LINE -L- STA. 920+00 SEE SHEET NO. 17

MATCH LINE -L- STA. 934+00 SEE SHEET NO. 19

20 x 60 x 3 12 ft. weir (See Infiltration Basin Detail) ID 18.11B

-L- POC Sta. 923+76.07
-Y33A- POT Sta. 65+06.17
-Y33- POT Sta. 10+00.00
PRC Sta. 80+94.71
-L- +22 476' LT
-L- +81 447' LT
-L- +90 353' LT
-L- +50 337' LT
-L- +10 300' LT
-L- +62 302.95' LT
-L- +00 305' LT
2' BASE TAIL DITCH SEE DETAIL 16 SHEET 2-G 180 LF. @ 0.3% EST 110 CY DDE
OUTLET PROTECTION CLASS 'B' RIP RAP EST 3 TONS EST 10 SY FF
2' BASE TAIL DITCH SEE DETAIL 16 SHEET 2-G 50 LF. @ 0.3% EST 8 CY DDE
18" RCP-III
STATE OF NORTH CAROLINA DB 1076 PG 605
REMOVE
+00 130' LT END FENCE
-Y33A- POC Sta. 63+42.50
-D9- POT Sta. 10+98.90
-D9- POT Sta. 10+00.00 BEARING AH S 80°18' 35.5" W BEGIN CONST.
PT Sta. 63+92.08
FALSE SUMP SEE DETAIL 7 SHEET 2-F
+83 145' LT 162' LT
+05 145' LT 165' LT
+60 145' LT BEGIN FENCE
180-60-180 6.5% 05
300' TAPER
150' TAPER
+50 100' LT
BENJAMIN R. GOFF, III DB 1126 PG 466
60
925
920
930
935
939
S 12°53'34" W 2160.24'
S 57°49'00" W
N 57°59'08" W
N 57°59'08" W 1400.80'
JEFFREY LYNN CARLISLE DB 1234 PG 453
62
63
CLARENCE OLIVER CARLISLE DB 949 PG 189
64
-D2- POT Sta. 10+00.00 BEARING AH S 16°12' 53.7" E
-D2- POT Sta. 10+05.00 BEGIN CONSTRUCTION
PC Sta. 10+07.09
+20 145' LT END FULL C/A BEGIN PARTIAL C/A END FENCE
+25 148' LT END LIMITED C/A BEGIN FULL C/A END WW FENCE BEGIN CL FENCE
+20 170' LT
+48 207' LT
+81 205' LT
SPECIAL LATERAL 'V' DITCH SEE DETAIL 9 SHEET 2-H
PRC Sta. 10+60.32
+60 170' LT
PT Sta. 11+11.98
TIE EXISTING DITCH TO PROPOSED
+73 4.64' LT
+30 90' LT
+41 91.27' LT
ACCESS POINT
FALSE SUMP SEE DETAIL 7 SHEET 2-F
FALSE SUMP SEE DETAIL 18 SHEET 2-G
CL FENCE
CFW
REMOVE
MEDIAN 'V' DITCH SEE DETAIL 25 SHEET 2-G
18" RCP-IV
24" RCP-III
15" RCP-IV
1808
1810
1807
1806
1805
1809
1804
1803
1802
1801
1815
1813
1811
-D2- POT Sta. 11+80.47
CS Sta. 933+44.39
+44.39 125' RT
+32 142' RT 150' RT
+52 141' RT 152' RT
+95 157' RT
+40 125' RT 143' RT 150' RT
+20 125' RT END FULL C/A BEGIN PARTIAL C/A
TOE PROTECTION CLASS 'B' RIP RAP EST 73 TONS EST 162 SY FF SEE DETAIL 8 SHEET 2-G
SPECIAL CUT DITCH SEE DETAIL 21 SHEET 2-G
FALSE SUMP SEE DETAIL 24 SHEET 2-G
+75 128' RT
+75 110' RT 150' RT END LIMITED C/A BEGIN FULL C/A
+21.37 EX. R/W
+20.94 EX. R/W
+36 110' RT 122' RT
SPECIAL CUT DITCH W/ CLASS 'B' RIP RAP EST 30 TONS EST 120 SY FF SEE DETAIL 27 SHEET 2-H
LATERAL 'V' DITCH SEE DETAIL 1 SHEET 2-F
PC Sta. 10+71.22
RETAIN
-Y33- +19.22 EX. R/W
61
CHARLES DUBOSE DB 781 PG 153
367.00' N13°22'59"E
103.50' N13°22'59"E
72.00' N13°22'59"E
150.00'
SIP 1.5' ABOVE
CONC
ISFD (ABANDONED DILAPIDATED)
59
ELTON WARREN WILSON DB 1091 PG 52
-Y33- +20 40' LT
-Y33- +12.78 EX. R/W
-Y33- +15 40' LT
-Y33- +44 EX. R/W
-Y33- +40 PROP. R/W
-Y33- +90 EX. R/W
-Y33- +24 EX. R/W
PT Sta. 14+20.19
PC Sta. 15+12.79
-Y33- POC Sta. 15+44.00 END CONSTRUCTION
S 68° 01' 21" W 1466.17'
S 12°53'34" W 2202.89'
CHAIN LINK FENCE
+93.76 110' RT
+83.41 END CHAIN LINK FENCE
+25 END FENCE
+25 BEGIN FENCE
WW FENCE
58
WHITE INVESTMENT CO. DB 1292 PG 957
72" CHL & 2SBW
12' BST
24' BST
SP 15+54
SP 15+48
SP 15+42
SP 15+36
SP 15+30
SP 15+24
SP 15+18
SP 15+12
SP 15+06
SP 15+00
SP 14+94
SP 14+88
SP 14+82
SP 14+76
SP 14+70
SP 14+64
SP 14+58
SP 14+52
SP 14+46
SP 14+40
SP 14+34
SP 14+28
SP 14+22
SP 14+16
SP 14+10
SP 14+04
SP 13+98
SP 13+92
SP 13+86
SP 13+80
SP 13+74
SP 13+68
SP 13+62
SP 13+56
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SP 13+32
SP 13+26
SP 13+20
SP 13+14
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SP 13+02
SP 12+96
SP 12+90
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SP 12+78
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SP 0+96
SP 0+90
SP 0+84
SP 0+78
SP 0+72
SP 0+66
SP 0+60
SP 0+54
SP 0+48
SP 0+42
SP 0+36
SP 0+30
SP 0+24
SP 0+18
SP 0+12
SP 0+06
SP 0+00

NC 24 BYPASS AND -Y33-

8,530	NC 24	NC 24	12,620
12,850	-L-	-L-	19,660
	≤200	4,090	
	≤200	6,810	
	4,090		
	6,810		
	2013 ADT		
	2033 ADT		

FOR -L- PROFILE SEE SHEET 40
FOR -Y33A- PROFILE SEE SHEET 54
FOR -Y33- PROFILE SEE SHEET 50
FOR -D2- PROFILE SEE SHEET 56
FOR -D9- PROFILE SEE SHEET 57

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jcarlson

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-22/CONST.19
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99

MATCH LINE -L- STA. 934+00 SEE SHEET NO. 18

MATCH LINE -L- STA. 948+00 SEE SHEET NO. 20

NAD 83/95

50 x 15 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
7 ft. weir
ID 19.2

62 x 32 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
22 ft. weir
ID 19.1

15 x 32 x 3
1.5 inch Skimmer
with 0.50 inch
Orifice Diameter
7 ft. weir
ID 19.4F

64 RICCI TADLOCK DB 1460 PG 622

60 BENJAMIN R. GOFF, III DB 1126 PG 466

65 ANN W. WHEELER AND JANE B. COPELAND DB 1288 PG 843 DB 1288 PG 853 DB 1288 PG 856 DB 1389 PG 845

61 CHARLES DUBOSE DB 781 PG 153

66 CHARLES B. WILLIAMS AND LELA J. WILLIAMS DB 1548 PG 13

ST Sta. 936+24.39

BEGIN APPROACH SLAB -L- STA. 941+40.83

BEGIN BRIDGE -L- STA. 941+65.00

END BRIDGE -L- STA. 944+60.00

END APPROACH SLAB -L- STA. 944+84.17

BEGIN SPECIAL GRADING -L- POT STA. 939+35.00

END SPECIAL GRADING -L- POT STA. 946+88.00

CHORD N 66° 16' 21" E -L-

CHORD S 71° 04' 13" E

CHORD S 71° 04' 14" E

S 70° 44' 47" W 213.26' (CHORD) N 68° 29' 04" E

FALSE SUMP SEE DETAIL 7 SHEET 2-F

PROPERTY OWNER TO RETAIN DRIVEWAY PIPE

SPECIAL LATERAL 'V' DITCH SEE DETAIL 1 SHEET 2-F

OUTLET PROTECTION CLASS 'B' RIP RAP EST 2 TONS EST 7 SY FF

CLASS II RIP RAP EST 800 TONS EST 850 SY FF

CLASS II RIP RAP EST 775 TONS EST 825 SY FF

OUTLET PROTECTION CLASS 'B' RIP RAP EST 2 TONS EST 7 SY FF

OUTLET PROTECTION CLASS 'B' RIP RAP EST 4 TONS EST 12 SY FF

OUTLET PROTECTION CLASS 'B' RIP RAP EST 73 TONS EST 162 SY FF SEE DETAIL 8 SHEET 2-G

PREFORMED SCOUR HOLE OUTLET PROTECTION CLASS 'B' RIP RAP EST 8 TONS EST 16 SY FF EST 25 SY PSRM SEE DETAIL 2 SHEET 2-F

LITTLE COHARIE CREEK (LC6) PERENNIAL JURISDICTIONAL STREAM

SREMC 100' POWERLINE RIGHT OF WAY

EXCAVATION EST 4300 CY

TOP OF BANK

EDGE OF WATER

WW FENCE

BEGIN FENCE

END SBG +40.00

BEGIN SBG +84.99

BEGIN SBG +85.00

BEGIN SBG +04.87

+05 BEGIN FENCE

+24.39 110' LT 120' LT END CL FENCE BEGIN WW FENCE

+30 120' LT

+25.00 115' LT 120' LT

+06.58 115' LT

+53 151.06' LT

+38 115' LT

+04 140' RT

+24.39 125' RT

+80 141' RT

+26 125' RT

+13.96 141' RT

+34.56 125' RT

+97.58 125.00' RT

+02 125' RT

+31 142' RT

+05 203' RT

+21 262.16' RT

15" RCP-IV

18" RCP-IV

24" RCP-III

48" RCP-III E.O.PIPE PLACE AT NATURAL GROUND ELEVATION

18" CSP W/ ELBOWS AND W/ ROD & LUG CONNECTORS

TYPE M350

TYPE B-77

REM. GR

SBG

PUE

NOTE:
UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 19

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

FOR -L- PROFILE SEE SHEET 40

SBG: SHOULDER BERM GUTTER

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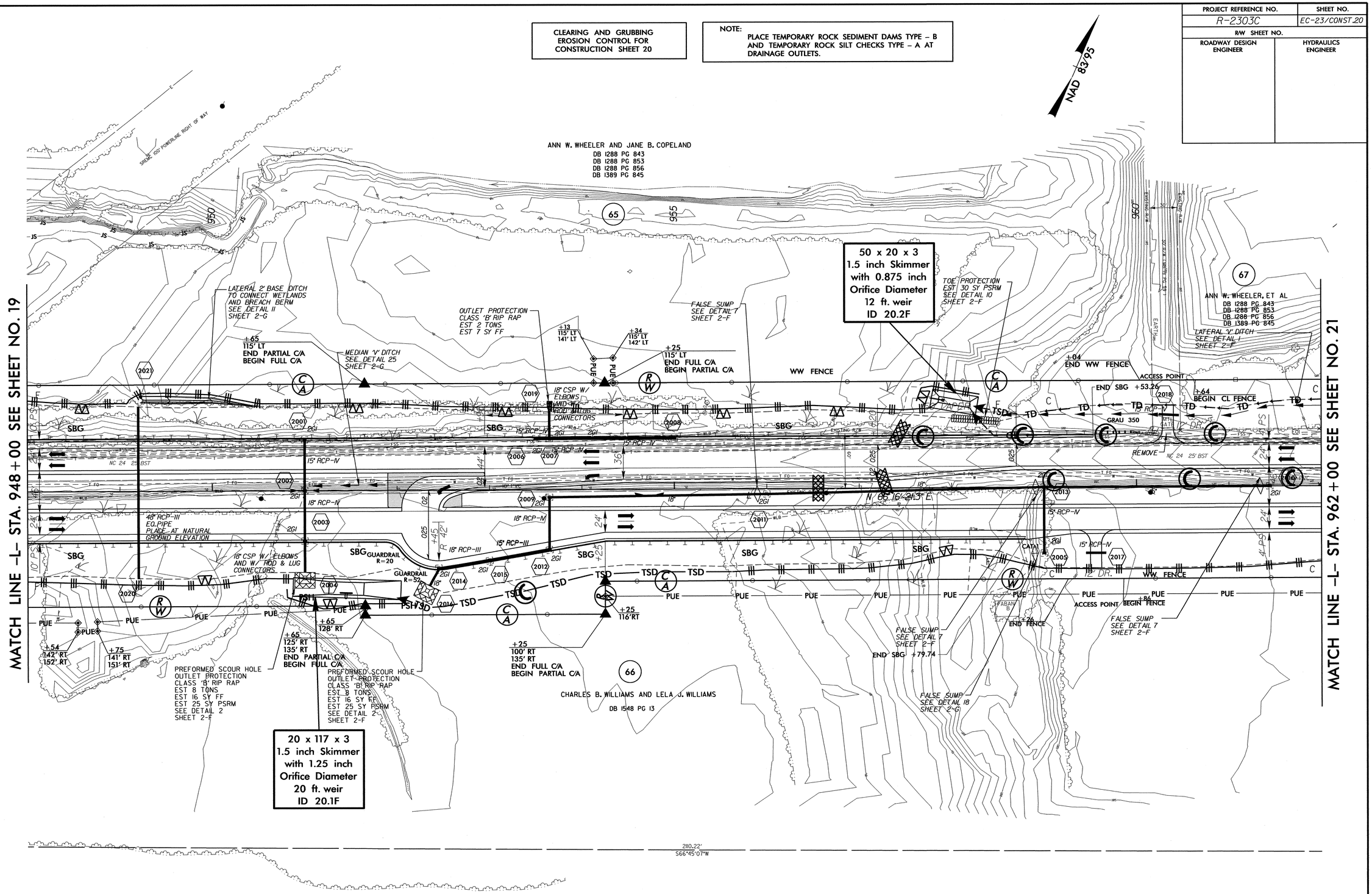
Richard Carter AT RENV27778

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-23/CONST.20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 20

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



FOR -L- PROFILE SEE SHEET 41
SBG: SHOULDER BERM GUTTER

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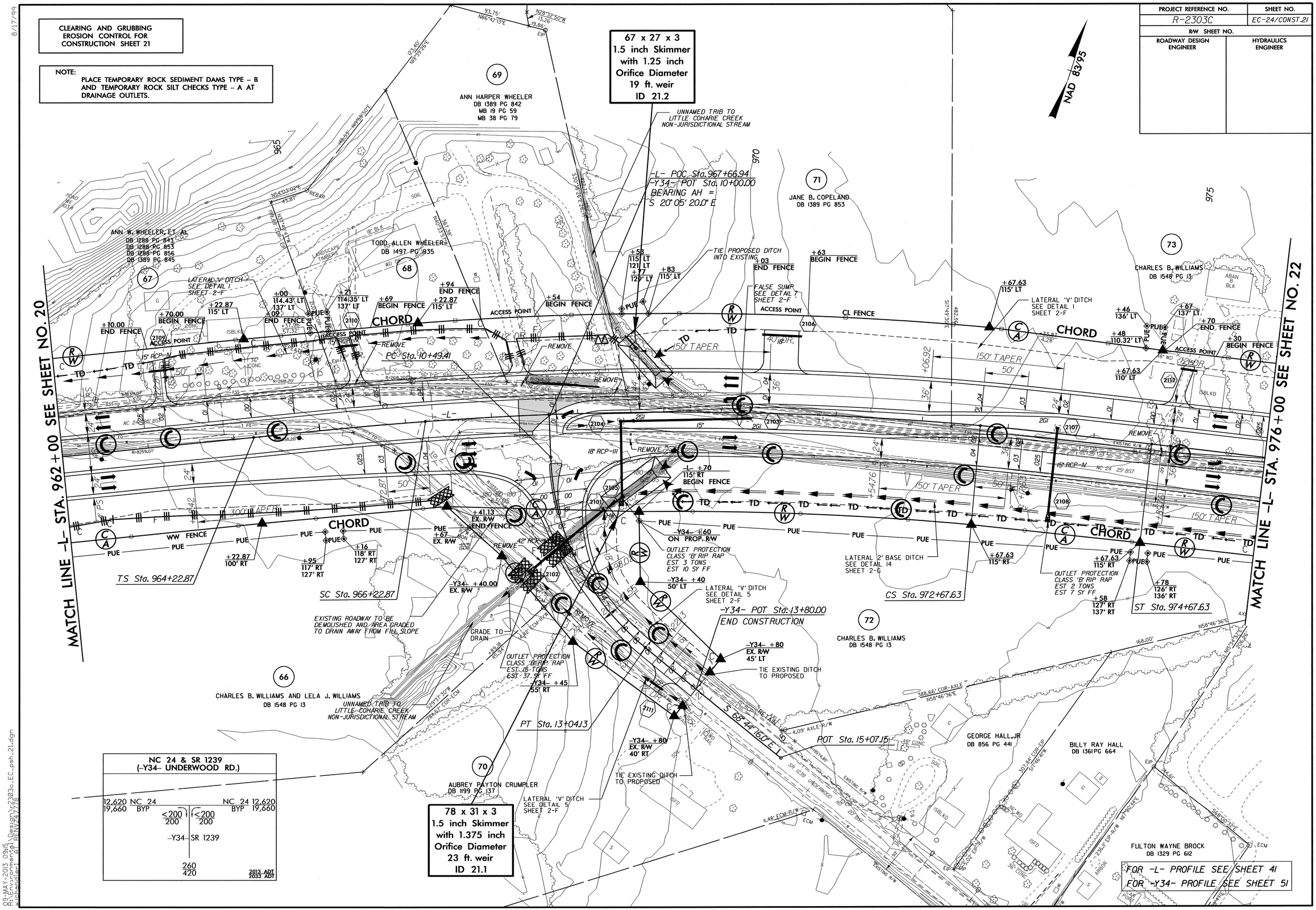
wichandler1 AT RENV247778

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-24/CONST.21
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 21

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



8/17/99

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w.chandler1 AT RENV247778

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-25/CONST.22
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NC 24 & SR 1301
(-Y35- MARION-AMOS RD.)

790
1,270
-Y35- SR 1301
330 460
620 620
12,620 NC 24 NC 24 12,750
19,660 BYP BYP 19,660
2013 ADT
2033 ADT

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 22

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

NAD 83/95

MATCH LINE -L- STA. 976+00 SEE SHEET NO. 21

MATCH LINE -L- STA. 990+00 SEE SHEET NO. 23

-Y35- POT Sta. 10+00.00

-Y35- POT Sta. 12+25.00 BEGIN CONSTRUCTION

-L- POT Sta. 977+44.76

-Y35- POT Sta. 14+88.26

S 19° 14' 27" E

-Y35- +00 EX. R/W

-Y35- +05 58' RT

-Y35- +24 55' RT

-Y35- +20 EX. R/W

-Y35- +25 EX. R/W 50' LT

-Y35- +25 EX. R/W 45' RT

-Y35- +53 51.27' LT

-Y35- +35 55' LT

-Y35- +40 55' RT

RETAIN

TIE EXISTING DITCH INTO PROPOSED

LATERAL 'V' DITCH SEE DETAIL 5 SHEET 2-F

REMOVE

CHARLES B. WILLIAMS DB 1548 PG 13

CHARLES B. WILLIAMS AND LELA J. WILLIAMS DB 1548 PG 13

LATERAL 'V' DITCH SEE DETAIL 1 SHEET 2-F

AMANDA SCOTT EVANS DB 1530 PG 654

ROSCOE MAURICE HOLLAND, JR. DB 1719 PG 620

FALSE SUMP SEE DETAIL 7 SHEET 2-F

FALSE SUMP SEE DETAIL 5 SHEET 2-F

TOE PROTECTION ESTIMATED 57 SY PSFM SEE DETAIL 10 SHEET 2-F

+60 110' LT END FENCE

+50 115' LT BEGIN FENCE

+54 115' LT

+25 95' LT 115' LT

+30 BEGIN WW FENCE

+58 95' LT 111' LT END PARTIAL C/A BEGIN FULL C/A

+88 95' LT 111' LT END FULL C/A BEGIN PARTIAL C/A

WW FENCE

ACCESS POINT

+10 END CL FENCE

300' TAPER

150' TAPER

36" RCP-N

REMOVE NC 24 25' BST

+85 END FENCE

+45 BEGIN FENCE

+47 END WW FENCE

+85.60 116' RT

+85.67 166' RT

+24 116' RT

+76 100' RT END PARTIAL C/A BEGIN FULL C/A BEGIN CL FENCE

+56 100' RT END FULL C/A BEGIN PARTIAL C/A END FENCE

+70 100' RT 120' RT

+50 115' RT 120' RT

+29 128' RT

+47 116' RT

+48 120' RT

OUTLET PROTECTION CLASS B RIPRAP EST. 11 TONS EST. 28 SY FF

LATERAL 2' BASE DITCH SEE DETAIL 14 SHEET 2-G

WHEELCHAIR RAMP

CHARLES B. WILLIAMS AND LELA J. WILLIAMS DB 1548 PG 13

ROGER RAY ROYAL DB 835 PG 448

ROGER RAY ROYAL DB 837 PG 595

FRANK ARNETTE DB 1610 PG 700

WILLIE JAMEY THOMPSON DB 1357 PG 587

KENNETH BETHEL WILHELMINA WILLIAMS DB 1643 PG 872 DB 1711 PG 560

SUNRISE PROPERTIES AND RENTALS, LLC DB 1691 PG 642

ESSIE BLACKMON OATES DB 1807 PG 665

MILLARD T. OWEN III DB 1206 PG 105

JOYCE ANN MACK JOSEPH DB 1380 PG 690

KENNETH WILLIAMS DB 1512 PG 543

KENANNA HOLDINGS, LLC DB 1608 PG 162

N 78° 42' 54.2" E

225.47' S78°38'14"W

269.62' S78°38'14"W

150.00' S78°38'39"W

149.92' S78°38'39"W

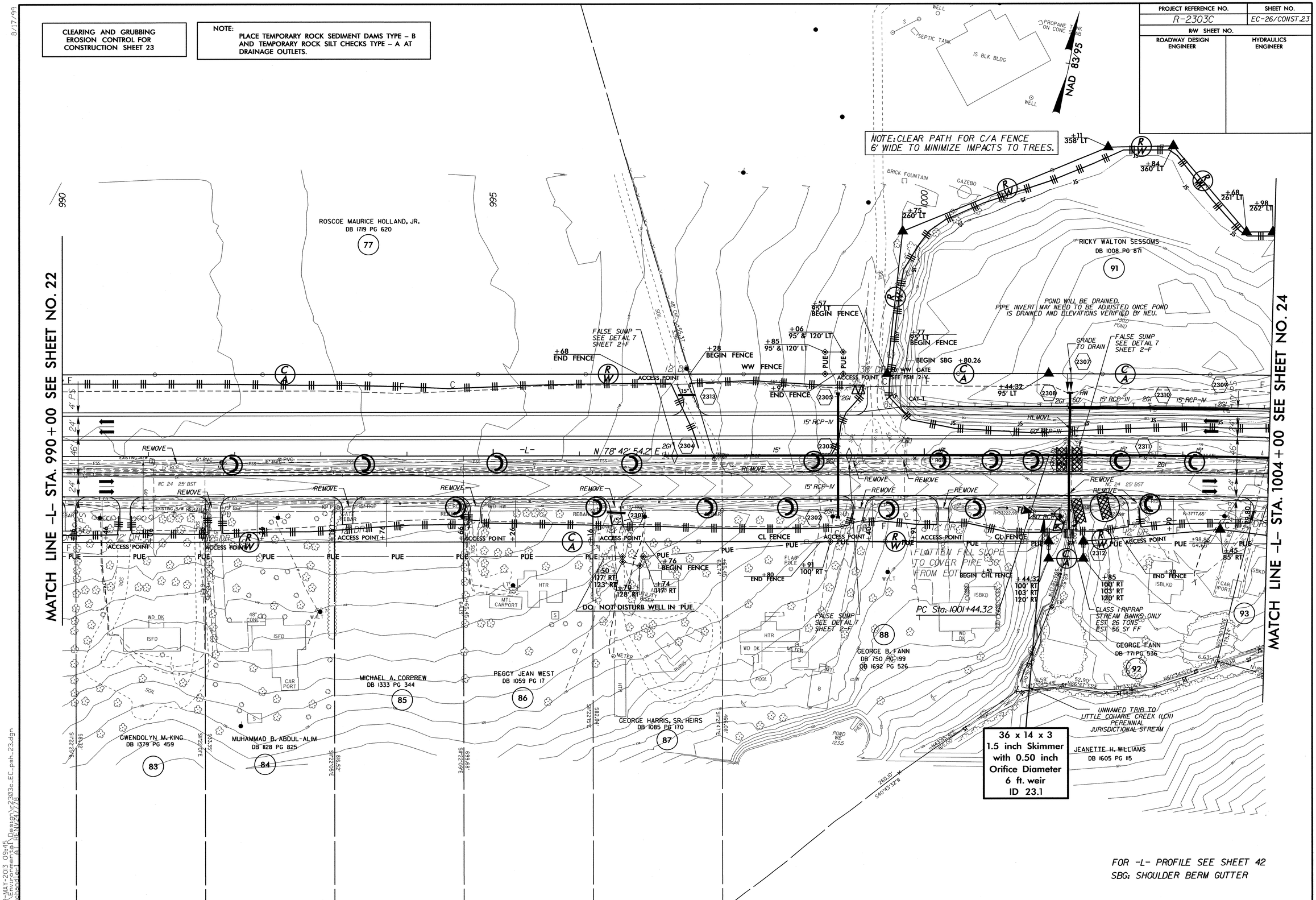
FOR -L- PROFILE SEE SHEET 42
FOR -Y35- PROFILE SEE SHEET 51

03-MAY-2013 09:35 Design\2303c_EC_psh_22.dgn
RENV2417778

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-26/CONST.23
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 23

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



FOR -L- PROFILE SEE SHEET 42
SBG: SHOULDER BERM GUTTER

8/17/99

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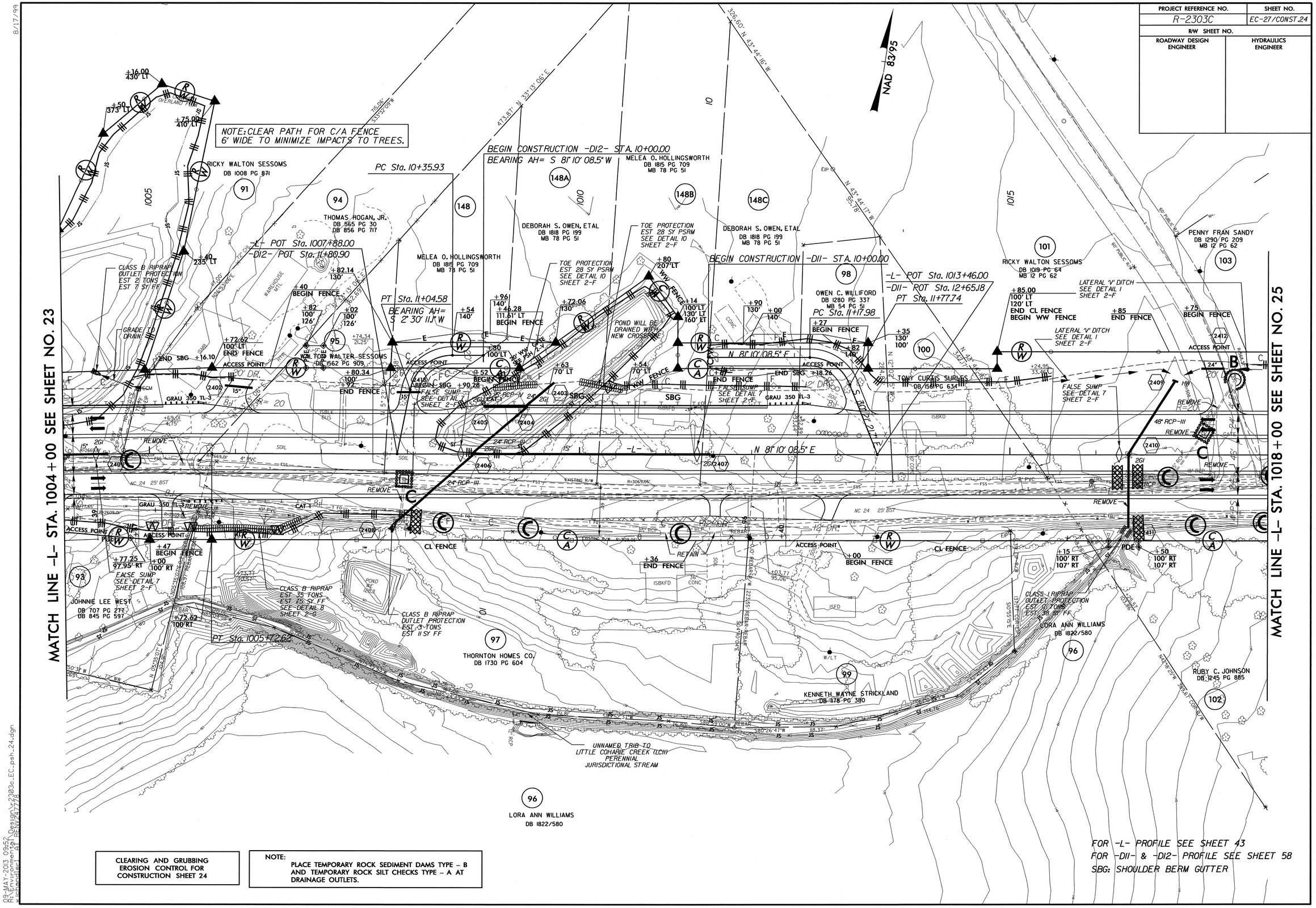
w.chandler1 AT RENV247778

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-27/CONST.24
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 24

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

8/17/99

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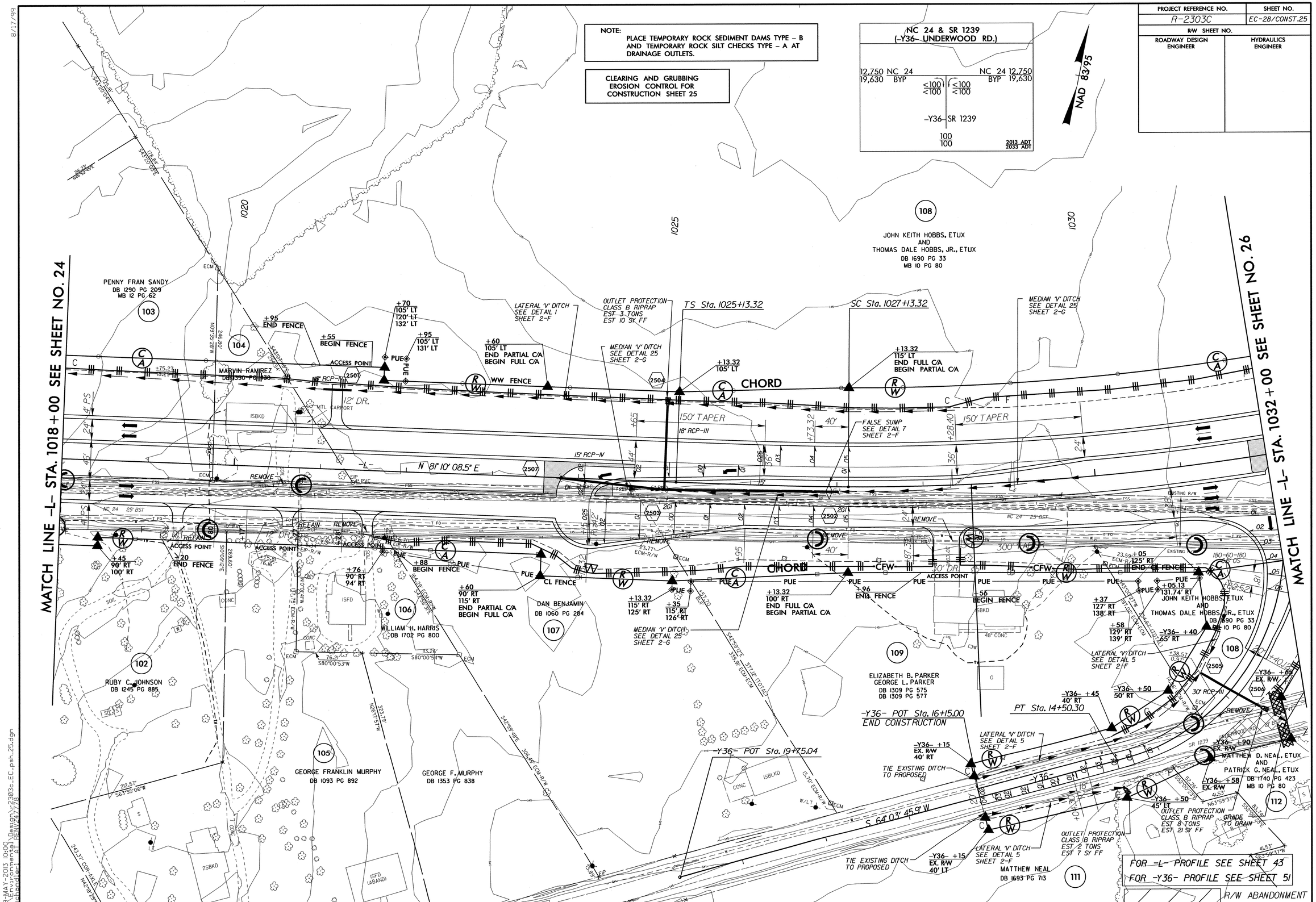
wichandler1 AT RENV247778

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-28/CONST.25
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 25



8/17/99

09-MAY-2013 10:00
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wichandler1 AT RENV247778

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-29/CONST.26
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 26

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

MATCH LINE –L– STA. 1032+00 SEE SHEET NO. 25

MATCH LINE –L– STA. 1046+00 SEE SHEET NO. 27

-L- POC Sta.1032+15.99
-Y36- POT Sta.10+00.00
BEARING AH =
S 13° 34' 20.5" E

R/W ABANDONMENT

108
JOHN KEITH HOBBS, ETUX
AND
THOMAS DALE HOBBS, JR., ETUX
DB 1690 PG 33
MB 10 PG 80

35 x 13 x 3
1.5 inch Skimmer
with 0.50 inch
Orifice Diameter
5 ft. weir
ID 26.3F

20 x 41 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
12 ft. weir
ID 26.2

37 x 18 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
10 ft. weir
ID 26.1

46 x 23 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
15 ft. weir
ID 26.3

50 x 24 x 3
16 ft. weir
(See Infiltration
Basin Detail)
ID 26.11B

UNNAMED TRIB TO BEARSKIN SWAMP (BR1) PERENNIAL JURISDICTIONAL STREAM

PREFORMED SCOUR HOLE OUTLET PROTECTION CLASS 'B' RIP RAP EST 8 TONS EST 16 SY FF EST 29 SY PSRM SEE DETAIL 2 SHEET 2-F

D3-POT Sta. 10+00.00
BEGIN CONSTRUCTION
BEARING AH
S 54° 12' 15.9" E

PC Sta. 11+43.80
PT Sta. 11+69.32

OUTLET PROTECTION CLASS 'B' RIPRAP EST 2 TONS EXT 7 SY FF

18" CSP W/ ELBOWS AND ROD & LUG CONNECTORS

CS Sta. 1033+49.53

ACCESS POINT

LATERAL 'V' DITCH SEE DETAIL 26 SHEET 2-G

BEGIN SBG +00.00
ST Sta. 1035+49.53

END SBG +53.26
CHORD

FALSE SUMP SEE DETAIL 7 SHEET 2-F

-D3-POT Sta. 12+12.92
BEARING BK
S 24° 57' 46.1" E

PC Sta. 10+98.00

BEGIN SBG +98.16
LATERAL 'V' DITCH SEE DETAIL 5 SHEET 2-F

-Y36- POT Sta.10+20.00
BEGIN CONSTRUCTION

CHORD
ABANDON R/W

-Y36A- POT Sta.10+94.65
END CONSTRUCTION

N 79° 58' 26.5" E

POT Sta. 10+00.00

POT Sta. 11+33.12

OUTLET PROTECTION CLASS B RIPRAP EST 5 TONS EXT 14 SY FF

EXTND EXIST 24" RCP 20 L.F. W/ CONC.COLLAR

EXTND EXIST 24 RCP 24 L.F.W/ CONC.COLLAR

REMOVE ASPHALT IN ABANDONMENT AREA

ABANDON R/W

JOHN KEITH HOBBS, ETUX AND THOMAS DALE HOBBS, JR., ETUX
DB 1690 PG 33
MB 10 PG 80

MATTHEW D. NEAL, ETUX
AND
PATRICK C. NEAL, ETUX
DB 1740 PG 323
MB 10 PG 80

GRADE TO DRAIN

REMOVE

RETAIN

CLASS 'I' RIPRAP STREAM BANKS ONLY EST. IX TONS EST 38 SY FF

-Y37- POT Sta.12+60.00
BEGIN CONSTRUCTION

LATERAL 'V' DITCH SEE DETAIL 5 SHEET 2-F

PC Sta. 14+56.74

PT Sta. 12+57.29

PRC Sta. 17+41.99

-Y37-POC Sta. 18+11.46
-SR2- POT Sta. 12+86.38
BEARING BK
S 49° 07' 02.8" W

OUTLET PROTECTION CLASS 'B' RIP RAP EST 5 TONS EST 14 CY FF

REMOVE EXIST 18" RCP AND ADJACENT ROADWAY FILL GRADE DITCH TO MATCH NATURAL CONDITION

LATERAL 'V' DITCH SEE DETAIL 1 SHEET 2-F

LATERAL 'V' DITCH SEE DETAIL 5 SHEET 2-F

UNNAMED TRIB TO BEARSKIN SWAMP (BR2) NON-JURISDICTIONAL STREAM

SC Sta. 1042+19.41
TS Sta. 1040+19.41

AMOS BUTLER HEIRS
DB 162 PG 381
DB 284 PG 60
MB 25 PG 58

JAMES GODWIN
DB 1378 PG 168

COREST MONK
DB 1212 PG 820

BERLENE MONK BUTLER
DB 955 PG 551

JAMES EARL RT SAMPSON
76.88' RT
DB 762 PG 278

GL FENCE

CHORD

REMOVE

GRADE TO DRAIN

SOIL

NAD 83/95

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Roadway Design Engineer

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-30/CONST.27
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 27

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

NAD 83 95

85 x 20 x 3 1.5 inch Skimmer with 1.25 inch Orifice Diameter 12 ft. weir ID 27.1F

MATCH LINE –L– STA. 1046+00 SEE SHEET NO. 26

MATCH LINE –L– STA. 1060+00 SEE SHEET NO. 28

ROGER R. ROYAL DB 1314 PG 218

TERA CULBRETH DB 967 PG 995 MB. 14 PAGE 15

HAROLD T. CULBRETH DB 1434 PG 195

WILMA FOWLER DB 1304 PG 483

SAMPSON COUNTY DB 933 PG 606

PT Sta. 19+74.12
BEARING AH = S 19° 48' 15.5" E
PC Sta. 12+14.86

-SR2- POT Sta. 10+04.30
BEGIN CONSTRUCTION
BEARING AH = N 82° 15' 23.3" W

-Y37- POT Sta. 20+28.10

-L- POC Sta. 1046+24.39

PC Sta. 20+73.95

PT Sta. 21+74.90
BEARING AH = S 39° 05' 06.2" E

-Y37- POT Sta. 23+00.00
END CONSTRUCTION

POT Sta. 24+67.93

TS Sta. 1056+70.64

SC Sta. 1058+70.64

CS Sta. 1052+05.96

ST Sta. 1054+05.96

TRANSITION PROTECTION PSRM EST. 20 SY SEE DETAIL 10 SHEET 2-F

LATERAL 'V' DITCH SEE DETAIL 1 SHEET 2-F

LATERAL 'V' DITCH SEE DETAIL 5 SHEET 2-F

OUTLET PROTECTION CLASS 'B' RIP RAP EST 2 TONS EST 7 SY FF

OUTLET PROTECTION CLASS 'B' RIP RAP EST 3 TONS EST 10 SY FF

CL FENCE

WW FENCE

CHORD

15" RCP-IV

18" RCP-IV

24" RCP-IV

150' TAPER

300' TAPER

50' TAPER

40'

REMOVE

ELLA MAE WHITE DB 646 PG 258

BRENDA TATUM DB 1357 PG 422

WILLIAM HALLETT DB 1357 PG 729

MINNIE ANNETA BENNET DB 1261 PG 449

EDWARD PARKER DB 862 PG 650

LUTRELL BUTLER JR. DB 768 PG 829

SUDIE MAE BETHEA JOHNSON DB 933 PG 765 DB 720 PG 423

BETHA BETHEA DB 242 PG 84

JUDITH ANN BETHEA DB 1145 PG 724

CHRIS DESENTZ DB 1568 PG 175

VALERIE W. UPSHAW ELMER P. CAIN DB 1701 PG 358

TERA CLYDE CULBRETH DB 381 PG 250

JIMMY L. COOPER DB 862 PG 539

CLARA PARKER DB 526 PG 426

WENDELL W. BUTLER DB 768 PG 371

JOHNNY C. BASS DB 1221 PG 166

JOHNNY C. BASS DB 931 PG 331

GILBERT L. OATES DB 1058 PG 246

FOR -L- PROFILE SEE SHEET 44

FOR -Y37- PROFILE SEE SHEET 52

FOR -SR2- PROFILE SEE SHEET 55

03-MAY-2013 10:43
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mchandler
RENV21778

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-31/CONST.28
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 28

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

NAD 83/95

24 x 48 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
16 ft. weir
ID 28.1

MATCH LINE –L– STA. 1060+00 SEE SHEET NO. 27

MATCH LINE –L– STA. 1074+00 SEE SHEET NO. 29

SAMPSON COUNTY
DB 933 PG 606

124

TOE PROTECTION
CLASS 'B' RIP RAP
EST 45 TONS
EST 95 SY FF
SEE DETAIL 8
SHEET 2-G

TOE PROTECTION
CLASS 'B' RIP RAP
EST 20 TONS
EST 45 SY FF
SEE DETAIL 8
SHEET 2-G

LATERAL 'V' DITCH
SEE DETAIL 9
SHEET 2-F

LATERAL 'V' DITCH
W/ CLASS 'B' RIP RAP
EST 15 TONS
EST 35 SY FF
SEE DETAIL 9
SHEET 2-F

TOE PROTECTION
CLASS 'B' RIP RAP
EST 40 TONS
EST 85 SY FF
SEE DETAIL 8
SHEET 2-G

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

FALSE SUMP
SEE DETAIL 18
SHEET 2-G

CS Sta. 1071+58.12

ST Sta. 1073+58.12

CHORD
BEARING
DISTANCE

+55
105' LT
END FULL C/A
BEGIN PARTIAL C/A

+55
END FENCE

+68
105' LT

+24
105' LT

+23
190' LT

+54
188' LT

+21
152' LT

+55
130' LT

+75
BEGIN FENCE

+40.26
150.63' LT

ACCESS POINT

+58.12
105' LT

+80
102.71' LT

+58.12
100' LT

+58.12
105' RT

+80
END FENCE

+30.00
105' RT
130' RT

+58.12
105' RT
BEGIN FENCE

+09
157' RT
168' RT

+29
156' RT
167' RT

END SBG +83.52

BEGIN SBG +30.86

+90.10

1065

1070

CFW-F

150' TAPER

RETAIN

WW FENCE

CL FENCE

LATERAL 'V' DITCH
SEE DETAIL 1
SHEET 2-F

LATERAL 'V' DITCH
SEE DETAIL 5
SHEET 2-F

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 2 TONS
100' RT
EST 7 SY
END FULL C/A
BEGIN PARTIAL C/A

GRAU 350 TL-3

15' RCP-IV

18" RCP-IV

72" RCP-III

PC Sta. 10+00.00
TIE EXISTING DITCH
INTO PROPOSED

-Y36B- N 25° 58' 15" W
S 61° 15' 58.8" W

-Y36B- S 82° 37' 05.3" W

-Y36B- PT Sta. 11+40.45

-Y36B- +36.99
EXIST ROW
TIE EXISTING DITCH
INTO PROPOSED

-Y36B- +06
EX. R/W
46' LT

-Y36B-
END C

-Y36B- POC Sta. 10+25.00
BEGIN CONSTRUCTION

-DRIO- POT Sta. 9+50.00

-DRIO- POT Sta. 10+25.48
BEGIN CONST.

DR10 +30
ON ROW

DR10 +40
EX. R/W

DR10 +46
30' RT

DR10 +21
25' LT

DR10 +56.67
26.86' LT

-DRIO- POT Sta. 14+12.29
END PROFILE

-DRIO-

OT Sta. 14+21.42

-L- +56.11
307.66' RT

-L- +84
346' RT

-L- +09
335' RT

R = 200'

TIE TO EXISTING DRIVEWAY

+86.65
EX. R/W

+86
152' RT

TIE EXISTING DITCH
INTO PROPOSED

OUTLET PROTECTION
CL B RIP RAP
EST 3 TONS
EST 10 SY FF

LATERAL 'V' DITCH
W/ CLASS 'B' RIP RAP
EST 50 TONS
EST 200 SY FF
SEE DETAIL 26
SHEET 2-H

UNNAMED TRIB TO
BEARSKIN SWAMP (BRT)
INTERMITTANT
JURISDICTIONAL STREAM

CLASS I RIP RAP
STREAM BANKS ONLY
EST 38 TONS
EXT 78 SY FF

TOE PROTECTION
CLASS 'B' RIP RAP
EST 35 TONS
EST 70 SY FF
SEE DETAIL 8
SHEET 2-G

126

WASTE INDUSTRIES, LLC
DB 1659 PG 416
DB 1659 PG 419

125

15 x 30 x 3
1.5 inch Skimmer
with 0.50 inch
Orifice Diameter
7 ft. weir
ID 28.2

FOR -L- PROFILE SEE SHEET 45
FOR -Y36B- PROFILE SEE SHEET 51
FOR -DRIO- PROFILE SEE SHEET 58
SBG: SHOULDER BERM GUTTER

WATERLINE OBSCURED

RETAIN

RIP-RAP

REMOVE

SBG

TSD

TD

PUE

F

E

C

SD

RW

CA

08-MAY-2013 10:50
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Microstation V8
BENTLEY SYSTEMS

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-32/CONST.29
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 29

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

NOTE: UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

NAD 83/95

MATCH LINE –L– STA. 1074+00 SEE SHEET NO. 28

MATCH LINE –L– STA. 1088+00 SEE SHEET NO. 30

124 SAMPSON COUNTY DB 933 PG 606

128 T&W DEVELOPMENT DB 1369 PG 743

130 BERTHILDA BARBOZA ROBLES DB 1367 PG 770

129 BARON M. VAN LIEW DB 1209 PG 765

126 WASTE INDUSTRIES, LLC DB 1659 PG 416 DB 1659 PG 419

46 x 16 x 3 1.5 inch Skimmer with 0.625 inch Orifice Diameter 8 ft. weir ID 29.2

44 x 18 x 3 1.5 inch Skimmer with 0.875 inch Orifice Diameter 10 ft. weir ID 29.1

44 x 13 x 3 1.5 inch Skimmer with 0.50 inch Orifice Diameter 5 ft. weir ID 29.4F

BEGIN BRIDGE –L– STA.1080+32.00

END BRIDGE –L– STA.1081+77.00

BEGIN APPROACH SLAB –L– STA.1080+07.83

END APPROACH SLAB –L– STA.1082+01.17

–L– POT Sta. 1087+13.09 –Y38– POT Sta. 10+00.00 BEARING AT = S 37° 57' 54.8" E

–L– POT STA.1077+98.00 BEGIN SPECIAL GRADING

–L– POT STA.1084+98.00 END SPECIAL GRADING

–Y38– POT Sta. 12+50.00 END CONSTRUCTION

–L– N 59° 09' 28.5" E

TOE PROTECTION CLASS 'B' RIP RAP EST 40 TONS EST 85 SY FF SEE DETAIL 8 SHEET 2-G

MEDIAN 'V' DITCH SEE DETAIL 25 SHEET 2-G

FALSE SUMP SEE DETAIL 7 SHEET 2-F

BEGIN SBG +53.56

END SBG +06.74

CLASS II RIP RAP EST 700 TONS EST 750 SY FF

CLASS II RIP RAP

EXCAVATION EST 1100 CY

BEGIN SBG +02.00

END SBG +07.00

END SBG +94.47

END SBG +75.00

OUTLET PROTECTION CLASS B RIP RAP EST 2 TONS EST 7 SY FF

BEARSKIN SWAMP (BR3) PERENNIAL JURISDICTIONAL STREAM

CLASS II RIP RAP EST 800 TONS EST 850 SY FF

PREFORMED SCOUR HOLE OUTLET PROTECTION CLASS B RIP RAP EST 8 TONS EST 6 SY FF EST 25 (SY PSRM SEE DETAIL 2 SHEET 2-F

UNNAMED TRIB TO BEARSKIN SWAMP (BR4) INTERMITTANT JURISDICTIONAL STREAM

OUTLET PROTECTION CLASS B RIP RAP EST 8 TONS EXT 21 SY FF

OUTLET CONDITION SEE DETAIL 38

TOE PROTECTION EST 17 SY PSRM SEE DETAIL 10 SHEET 2-F

CLASS B RIPRAP STREAM BANKS ONLY EST 14 TONS EXT 34 SY FF

INLET CONDITION SEE DETAIL 39

LATERAL 2' BASE DITCH SEE DETAIL 14 SHEET 2-G

18" CSP W/ ELBOWS AND W/ ROD & LUG CONNECTORS

300' TAPER

ACCESS POINT

GRAU 350 TL-3 REMOVE

REMOVE

FOR ℄ PROFILE SEE SHEET 45

FOR –Y38– PROFILE SEE SHEET 52

SBG: SHOULDER BERM GUTTER

09-MAY-2013 10:56
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Mcbrayer, Jill REVIEW

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-33/CONST.30
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 30

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

NAD 83/95

MATCH LINE –L– STA. 1088+00 SEE SHEET NO. 29

128A SALLIE MAZINGO DB 1464 PG 129 DB 982 PG 881 DB 951PG 63 MB 13 PG 36

FOREST MONK DB 886 PG 24 DB 1212 PG 823

S 43°27'46" W 146.19'

S 43°27'46" W 510.06'

S 43°27'46" W 172.00'

S 42°30'34" W 159.51'

S 42°30'34" W 152.00'

S 44°54'17" W 256.18'

S 59°09'28.51" E

N 59°09'28.51" E

N 59° 07' 01" E 160.00'

S 37°44'15" E 54.68'

S 30°44'46" E 324.24'

S 30°44'46" E 364.28'

S 30°42'26" E 394.16'

S 31°40'08" E 320.96'

N 59° 03' 57" E 464.54'

72" WD

100' RT

100' LT

+12 141.54' LT

+16.72 116.34' LT

+26 119.15' LT

+20 BEGIN FENCE 100' LT

FALSE SUMP SEE DETAIL 2 SHEET 2-F

FALSE SUMP SEE DETAIL 7 SHEET 2-F

+11.32 145.62' LT

+20 END FENCE

+11.32 160.17' LT

+11.32 100.00' LT

+11.32 100.00' LT

+10 BEGIN FENCE

+07 130' LT

+20 100' LT

+24.56 100' LT

+30 115' LT

+60 100' LT 120' LT END PARTIAL C/A BEGIN FULL C/A

LATERAL 'A' DITCH SEE DETAIL 5 SHEET 2-F

+00 100' & 120' LT

+55 100' LT END FULL C/A BEGIN PARTIAL C/A END FENCE

+58.45 100' LT TIE TO R-2303D

+54.74 3.42'

+03.02 105' RT TIE TO R-2303D

+03.60 122.67' RT TIE TO R-2303D

+60 105' RT END PARTIAL C/A BEGIN FULL C/A

+84 BEGIN FENCE

+24 END FENCE

+37 130' RT 141' RT

+61 129' RT 141' RT

+02 BEGIN FENCE

+28 END FENCE

+25 105' RT PUE

+14 137.30' RT

Y38 +40 90' LT BEGIN FENCE

131 134 135 137 132 133

GREGORY LYMAN GRIFFIN DB 1080 PG 696

JAMES MONK DB 795 PG 280

ROSA DEAVER BEST DB 1528 PG 838

FOREST MONK DB 1212 PG 820 DB 795 PG 283

MICHAEL R. GAUTIER DB 1323 PG 494

KENNETH R. GAUTIER DB 906 PG 763 DB 1016 PG 147 DB 1575 PG 978 DB 1136 PG 607 MB 52 PG 29

RAEFORD HORNE DB 885 PG 13

JEFFREY POPE DB 1124 PG 751

BERNICE MILLER DB 1063 PG 779

JEFFERY J. LUCAS TONYA SESSOMS LUCAS DB 1315 PG 237 MB 31 PG 45

JEWELL H. SESSOMS JERRY G. SESSOMS DB 1575 PG 952 MB 52 PG 29

KENNETH R. GAUTIER DB 906 PG 763 DB 1016 PG 147 DB 1575 PG 978 DB 1136 PG 607 MB 52 PG 29

UNNAMED TRIB TO BEARSKIN SWAMP (BRA) INTERMITTANT JURISDICTIONAL STREAM

CLASS 'B' RIP RAP STREAM BANKS ONLY EST 2 TONS EST 7 SY FF

TOE PROTECTION EST 65 SY PSRM SEE DETAIL 10 SHEET 2-F

ACCESS POINT

PUE

CFW

REMOVE

PROP. DRAINAGE UNDER R-2303D

STA. 1097+00.00 –L– END STATE PROJECT R-2303C BEGIN STATE PROJECT R-2303D

R/W ACQUIRED UNDER R-2303D

FOR –L– PROFILE SEE SHEET 46

03-MAY-2013 11:06
R:\Environmental\Design\2303c_EC_psh_30.dgn
jmcdaniel

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-34/CONST.31
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 31

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

NAD 83/95

MATCH LINE -Y26- STA. 11+50 SEE SHEET NO. 5

-Y26- +00 EX. R/W 40' LT

-Y26- POT Sta. 16+00.00 END CONSTRUCTION

POT Sta. 16+25.44

TIE EXISITING DITCH INTO PROPOSED

-Y26- +00 EX. R/W 37' RT

PT Sta. 14+81.44
BEARING AH = S 69° 25' 50.7" E

-Y26- +50 45' LT

-Y26- +80 50' RT

LATERAL 'V' DITCH SEE DETAIL I SHEET 2-F

-Y26- +50 50' LT

-Y26- +50 50' LT

TIE PROPOSED DITCH INTO EXISTING

-Y26- +78 EX. R/W'

-Y26- POC Sta. 12+47.52
-Y27- POT Sta. 10+00.00

-Y27- +80 EX. R/W'

PC Sta. 10+39.24

-Y27- +40 45' RT

-Y27- +34 67.76' RT

-Y27- +52 76' RT

-Y27- +72 48.90' RT

-Y27- +35 45' RT

-Y27- +04.28 69.23' LT

-Y27- +06 77' LT

TIE EXISITING DITCH INTO PROPOSED

-Y27- +30 66.01' LT

-Y27- +70 70' LT

PT Sta. 11+97.61
BEARING AH = N 69° 32' 01.3" W

-Y27- +45 62.33' LT

LATERAL 'V' DITCH SEE DETAIL I SHEET 2-F

-Y27- +46 72 & 82' LT

-Y27- +46 72 & 83' LT

-Y27- +75 55' LT

ROBERT EARL LANE DB 1313 PG 139 DB 1475 PG 52 DB 1586 PG 58 MB 45 PG 58 MB 37 PG 60

PROPERTY ORIENTED FROM TAX MAP SCALED (60') FROM NEAREST WESTERN PROPERTY LINE TAX MAP PARCEL 1414-72-5855

JUAN TORRES DB 1859 PG 660 MB 45 PG 58

AMBERLY L. HOBBS DB 1416 PG 176 MB 45 PG 58

S 20°28'40" W 139.98'

S 20°28'40" W 139.77'

S 69°25'50.7" E 507.69'

S 69°32'01.3" W 380.61'

S 69°37'08" E 480.26'

S 69°34'27.2" E 537.39'

S 15°19'53" W 353.69'

S 15°19'53" W 30.13'

N 39°39'52" E 283.64'

S 05°00'33" E 187.56'

S 04°56'55" E 71.00'

30' INGRESS & EGRESS EASEMENT

REBAR

SOIL

SOIL & GR

W/L

ISLAND

C&G

8:1

FOR -Y26- PROFILE SEE SHEET 47
FOR -Y27- PROFILE SEE SHEET 47

03-MAY-2013 11:34
R:\Engineering\Projects\Design\2303c_EC_psh_31.dgn
Microstation V8 (RENV247778)

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-35/CONST.32
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/96

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 32

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

22 x 44 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
14 ft. weir
ID 32.1

-Y32- POT Sta. 13+50.00
BEGIN CONSTRUCTION
BEARING BACK =
S 13° 07' 30.2" E

-Y32- POT Sta. 18+33.00
-Y32A- POT Sta. 10+00.00
BEARING AH =
S 46° 35' 27.6" W

PT Sta. 21+50.54
BEARING AH =
S 71° 20' 42.3" E

-Y31- POT Sta. 15+70.00
BEGIN CONSTRUCTION

-Y32A- POT Sta. 12+50.00
END CONSTRUCTION

-Y31- POT Sta. 16+82.50
-Y32- POT Sta. 22+91.35

PC Sta. 14+97.16
PT Sta. 11+49.26
PC Sta. 10+45.36

KATHERINE L. PERNELL
ALAN M. BROWN
DB 1577 PG 83

HUBERT MATTHEWS
DB 1121 PG 153

JAMES B. NUNNERY, JR.
DB 1121 PG 156

LINDA LEE NUNNERY
DB 1073 PG 715

CAROL B. ADAIR
DB 1761 PG 906
MB 34 PG 95

THORNTON HOMES CO.
DB 1672 PG 166
MB 34 PG 95

CAROL ADAIR
DB 1354 PG 844

NELLIE & ELTON WILSON HEIRS
DB 722 PG 336

MARY E. FAIRCLOTH
DB 1434 PG 41

GEORGE C. EDWARDS
DB 1337 PG 613

GEORGE C. EDWARDS
DB 832 PG 500

S.M.P. FARMS
DB 762 PG 437

T. L. EDWARDS
DB 792 PG 323
DB 1337 PG 609

DAVID JOHN MIXON
DB 1688 PG 992

UNNAMED TRIB TO
LITTLE COHARIE CREEK

LATERAL 'V' DITCH
SEE DETAIL 5
SHEET 2-F

LATERAL 4' BASE DITCH
SEE DETAIL 23
SHEET 2-G

LATERAL
4' BASE DITCH
W/ CLASS 'B' RIP RAP
EST 19 TONS
EST 129 SY FF
SEE DETAIL 19
SHEET 2-G

OUTLET PROTECTION
CLASS 'B' RIP-RAP
EST 17 TONS
EST 42 SY FF

OUTLET PROTECTION
CLASS 'B' RIP-RAP
STREAM BANKS ONLY
EST 15 TONS
EST 42 SY FF

TIE INTO EXISTING DITCHES

MATCH LINE -Y31- STA. 20+00 SEE SHEET NO. 12

FOR -Y31- PROFILE SEE SHEET 49
FOR -Y32- PROFILE SEE SHEET 49
FOR -Y32A- PROFILE SEE SHEET 50

08-MAY-2013 11:38
H:\Environmental\Design\2303c_EC_psh_32.dgn
User:dfletcher
PSFNAME=EC_PSH_32.PSF

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-36/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

08-MAY-2013 15:45
R:\Environmental\Design\r2303c_EC_psh_04.dgn
wichandler1 AT RENV247778

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-37/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

NAD 83/95

-Y25- PT Sta. 13+93.98
BEARING AH = S 8° 19' 05.2" W

PC Sta. 15+33.32

40 x 10 x 3
ID 5.1F

-Y25- POC Sta. 16+40.00
BEGIN CONSTRUCTION

60 x 16 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
8 ft. weir
ID 5.1

-Y25- +40 EX. R/W 50' RT

LATERAL 'V' DITCH SEE DETAIL 5 SHEET 2-F

LATERAL 'V' DITCH W/ CLASS 'B' RIP RAP EST 9 TONS EST 36 SY FF SEE DETAIL 6 SHEET 2-F

-Y25- +68 63' & 52.88' RT

+20 END FENCE

-Y25- +80 70' & 54.09' RT

JAMES FRANKLIN BUTLER JR. DB 1334 PG 001 -Y25- +95 71' & 55.57' RT

LATERAL 'V' DITCH SEE DETAIL 1 SHEET 2-F

ACCESS POINT

+34.00 110' LT

SC Sta. 739+37.21

NANCY T. FAIRCLOTH DB 1347 PG 819

OUTLET PROTECTION CLASS 'B' RIP RAP EST 3 TONS EST 14 SY FF

HUBERT AUTRY HEIRS MB 88-E-17 DB 559 PG 508 MB 71 PG 85

PT Sta. 18+13.17
BEARING AH = S 10° 01' 47.9" W

+80 130' LT BEGIN FENCE

LATERAL 'V' DITCH SEE DETAIL 5 SHEET 2-F

FALSE SUMP SEE DETAIL 7 SHEET 2-F

+55 100' LT

TOE PROTECTION CLASS 'B' RIP RAP EST 52 TONS EST 115 SY FF SEE DETAIL 8 SHEET 2-G

WW FENCE

CHRISTOPHER MICHAEL GREENE, et al DB 1082 PG 487 WB 03E/84

FALSE SUMP SEE DETAIL 7 SHEET 2-F

+30 100.00' LT

+43 128' LT

+63 123' LT

TOE PROTECTION EST 9 SY PSRM SEE DETAIL 10 SHEET 2-F

+58 100' LT ACCESS POINT

+25 END SHEET 2-F

+15 100' LT END PARTIAL C/A BEGIN LIMITED C/A

BEGIN FENCE

KIMBERLY LANE HOBBS ROBERT EURAL LANE DB 1150 PG 72 DB 1026 PG 720 DB 1215 PG 836

-L- POC Sta. 751+04.07
-Y26- POT Sta. 10+00.00
BEARING AH = S 4° 04' 16.9" E

LATERAL 'V' DITCH SEE DETAIL 1 SHEET 2-F

MATCH LINE -L- STA. 738+00 SEE SHEET NO. 4

MATCH LINE -L- STA. 752+00 SEE SHEET NO. 6

+16.55 END CL FENCE

+76.55 BEGIN CL FENCE

+72 116 & 126' RT

+37.21 105' RT

+30 END CL FENCE

+41 116 & 126' RT

-L- POC Sta. 740+11.25
-Y25- POT Sta. 18+60.14

LATERAL 'V' DITCH SEE DETAIL 1 SHEET 2-F

JEFFERSON B. STRICKLAND LT DB 1657 PG 873 MB 42 PG 100

+90 BEGIN CL FENCE

+35 105' RT 119' RT 142' RT

+68 105' RT 121' RT 142' RT

TIE EXISTING DITCH INTO PROPOSED

OUTLET PROTECTION CLASS 'B' RIP RAP STREAM BANK ONLY EST 7 TONS EST 22 SY FF

+95.64 105' RT

+94.08 END CL FENCE

+35.00 EX. R/W

+54.00 BEGIN CL FENCE

+43.91 EX. R/W

+38 137.23' RT

LATERAL 'V' DITCH W/ CLASS 'B' RIP RAP EST 40 TONS EST 160 SY SEE DETAIL 9 SHEET 2-F

+31 150' RT

+88 158' RT

TIE EXISTING DITCH INTO PROPOSED

+00 110' RT END PARTIAL C/A BEGIN LIMITED C/A

+70 110' RT

WW FENCE

CL FENCE

OUTLET PROTECTION CLASS 'B' RIP RAP EST 3 TONS EST 10 SY FF

LATERAL 'V' DITCH SEE DETAIL 1 SHEET 2-F

PC Sta. 11+39.22

+50 107' RT END FENCE

+65 135' RT BEGIN FENCE

LATERAL 'V' DITCH SEE DETAIL 1 SHEET 2-F

MATCH LINE -Y26- STA. 11+50 SEE SHEET NO. 31

+76 217' RT

+22.33 224.00' RT

UNNAMED TRIB TO BIG SWAMP (BSC) INTERMITTANT JURISDICTIONAL STREAM

TO BE DEEDED TO PIEDMONT NATURAL GAS CORP.

ERNEST J. MAROSCHAK DB 835 PG 812 DB 836 PG 349 DB 1183 PG 675 DB 1617 PG 761

+30 EX. R/W

+45.00 177.85' RT

-Y27- +23 01.56' LT

-Y27- +95 45' LT

-Y27- +88 100' LT

LATERAL 'V' DITCH SEE DETAIL 1 SHEET 2-F

END CONSTRUCTION
-Y27- POT Sta. 15+87.00

60 x 20 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
12 ft. weir
ID 5.4F

58 x 14 x 3
ID 5.3F

CHARLES G. SESSOMS DB 1150 PG 478 DB 1244 PG 171 DB 1438 PG 588 MB 42 PG 100

NC 24 BYPASS AND -Y26-

11,750	NC 24 -L-		NC 24 -L-	7,060
18,630				11,220
	4,690	≤200		
	7,410	≤200		
	4,690			
	7,410			

2013 ADT
2033 ADT

FOR -L- PROFILE SEE SHEET 33
FOR -Y25- PROFILE SEE SHEET 47
FOR -Y26- PROFILE SEE SHEET 47
FOR -Y27- PROFILE SEE SHEET 47

08-MAY-2013 15:48
R:\Env_Unit\Env_Eng\Design\2303c_EC_psh_05.dgn
w:\projects\R-2303C RENGALI 2778

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-38/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/93

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

NAD 83'95

Install Silt Fence above Rock Fill Elevation on Slope.

Place Matting for Erosion Control on Slope as Work Allows.

27 x 10 x 3
ID 6.5F

39 x 11 x 3
ID 6.6F

40 x 16 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
8 ft. weir
ID 6.3F

36 x 10 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 6.3

MATCH LINE -L- STA. 752+00 SEE SHEET NO. 5

MATCH LINE -L- STA. 766+00 SEE SHEET NO. 7

FLOATING TURBIDITY CURTAIN

UTILIZE ROCK FILL FROM STA 755+60 TO 759+70 LT UP TO ELEVATION 131.0

PREFORMED SCOUR HOLE OUTLET PROTECTION CLASS 'B' RIP RAP EST 8 TONS EST 16 SY FF EST 25 SY PSRM SEE DETAIL 2 SHEET 2-F

ROBERT EURAL LANE
KIMBERLY LANE HOBBS
DB 1150 PG 72
DB 1026 PG 720
DB 1215 PG 836

BOREN CLAY PRODUCTS
DB 874 PG 496

CS Sta. 764+03.90

FALSE SUMP SEE DETAIL 7 SHEET 2-F

+90 100' LT 110' LT

+95 100' LT 110' LT

+75 160' LT

+61 160' LT 166' LT

+81 160' LT 166' LT

+25 160' LT

+00 100' LT END FULL C/A BEGIN LIMITED C/A

+70 75' LT BEGIN SBG +07.97

+90 110' LT

+00 100' LT

+30 100' LT 105. LT

+70 100' LT 105. LT END SBG +51.97

+03.90 100' LT

+85 85' LT

+70 100.81' LT

+95 100.85' LT 106' LT

+15 100.79' LT 106' LT

+20 85' LT

+35 100.67' LT

CHORD

150' TAPER

300' TAPER

60' TAPER

WW FENCE

SBG

GRAU 350

PSH

PDE

TSD

OUTLET PROTECTION CLASS 'B' RIP RAP EST 2 TONS EST 7 SY FF

LATERAL 2' BASE DITCH SEE DETAIL 11 SHEET 2-G

TIE EXISTING DITCH TO PROPOSED

58 x 20 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
12 ft. weir
ID 6.4F

+25 135' RT END LIMITED C/A BEGIN FULL C/A

+96 135' RT

+47 164' RT

+97 170' RT

+78 135' RT

+00 135' RT END FULL C/A BEGIN LIMITED C/A

LATERAL 2' BASE DITCH W/ CLASS 'B' RIP RAP EST 65 TONS EST 348 SY FF SEE DETAIL 12 SHEET 2-G

+45 85' RT

+35 90' RT

+03.90 135' RT

+55 127.72' RT

+02 121.72' RT

+43 192' RT

+05 215' RT

PREFORMED SCOUR HOLE OUTLET PROTECTION CLASS 'B' RIP RAP EST 8 TONS EST 16 SY FF EST 25 SY PSRM SEE DETAIL 2 SHEET 2-F

BOREN CLAY PRODUCTS
DB 874 PG 496

5' BASE TAIL DITCH SEE DETAIL 13 SHEET 2-G 100 LF @ 0.1% EST 50 CY. DDE

OUTLET PROTECTION CLASS 'B' RIP RAP EST 8 TONS EST 21 SY FF

UTILIZE ROCK FILL FROM STA 755+00 TO 758+60 RT UP TO ELEVATION 131.0

PONDS TO BE DRAINED DURING CONSTRUCTION

52 x 18 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
10 ft. weir
ID 6.1F

60 x 13 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
5 ft. weir
ID 6.2F

11 x 45 x 3
1.5 inch Skimmer
with 0.50 inch
Orifice Diameter
4 ft. weir
ID 6.2

Install Silt Fence above Rock Fill Elevation on Slope.

Place Matting for Erosion Control on Slope as Work Allows.

FLOATING TURBIDITY CURTAIN

FOR -L- PROFILE SEE SHEET 34

SBG: SHOULDER BERM GUTTER

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Microstation 8.9
Default RDW247768

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-39/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

Install Silt Fence above Rock Fill Elevation on Slope.

Place Matting for Erosion Control on Slope as Work Allows.

NAD 83/95

MATCH LINE -L- STA. 766+00 SEE SHEET NO. 6

MATCH LINE -L- STA. 780+00 SEE SHEET NO. 8

ST Sta. 766+03.90

SR 1403 OLD BRICK MILL RD 20' BST

TIE EXISTING DITCH INTO PROPOSED

-Y28- +94 46' LT

-Y28- POT Sta. 12+00.00 BEGIN CONSTRUCTION

-Y28- +00 EX. R/W 40' RT

-Y28- +00 EX. R/W 40' LT

-Y28- +11 64' RT

-Y28- +31 64' RT

-Y28- +27 41.86' RT

CLEAN SILT OUT OF OUTLET AND GRADE TO DRAIN

-Y28- +75 45.17' RT 90' RT

-Y28- +95 46.55' RT 90' RT

-Y28- +45 50' RT

-Y28- +65 60' LT

LATERAL 'V' DITCH SEE DETAIL 5 SHEET 2-F

37 x 13 x 3 ID 7.2F

RETAIN EX 24" RCP AND EXTEND 12 LF. W/ CONCRETE COLLAR

LATERAL 'V' DITCH SEE DETAIL 5 SHEET 2-F

-Y28- +68 115' LT

-Y28- +66 126' LT

+36 126.22' LT

LATERAL 'V' DITCH SEE DETAIL 1 SHEET 2-F

44 x 12 x 3 ID 7.3F

+95 115' LT

WW FENCE

+85 115' LT 130' LT

OUTLET PROTECTION CLASS 'B' RIP RAP EST 2 TONS EST 7 SY FF

FLOATING TURBIDITY CURTAIN

LATERAL 'V' DITCH SEE DETAIL 1 SHEET 2-F

+03.90 100' LT

+10 100' LT END FENCE

150' TAPER

300' TAPER

180-60-180 6.5' OS

REMOVE (0701)

15" RCP-N

18" RCP-III

(0703)

(0704)

(0705)

(0707)

(0708)

(0709)

(0710)

(0711)

(0712)

(0713)

(0714)

(0715)

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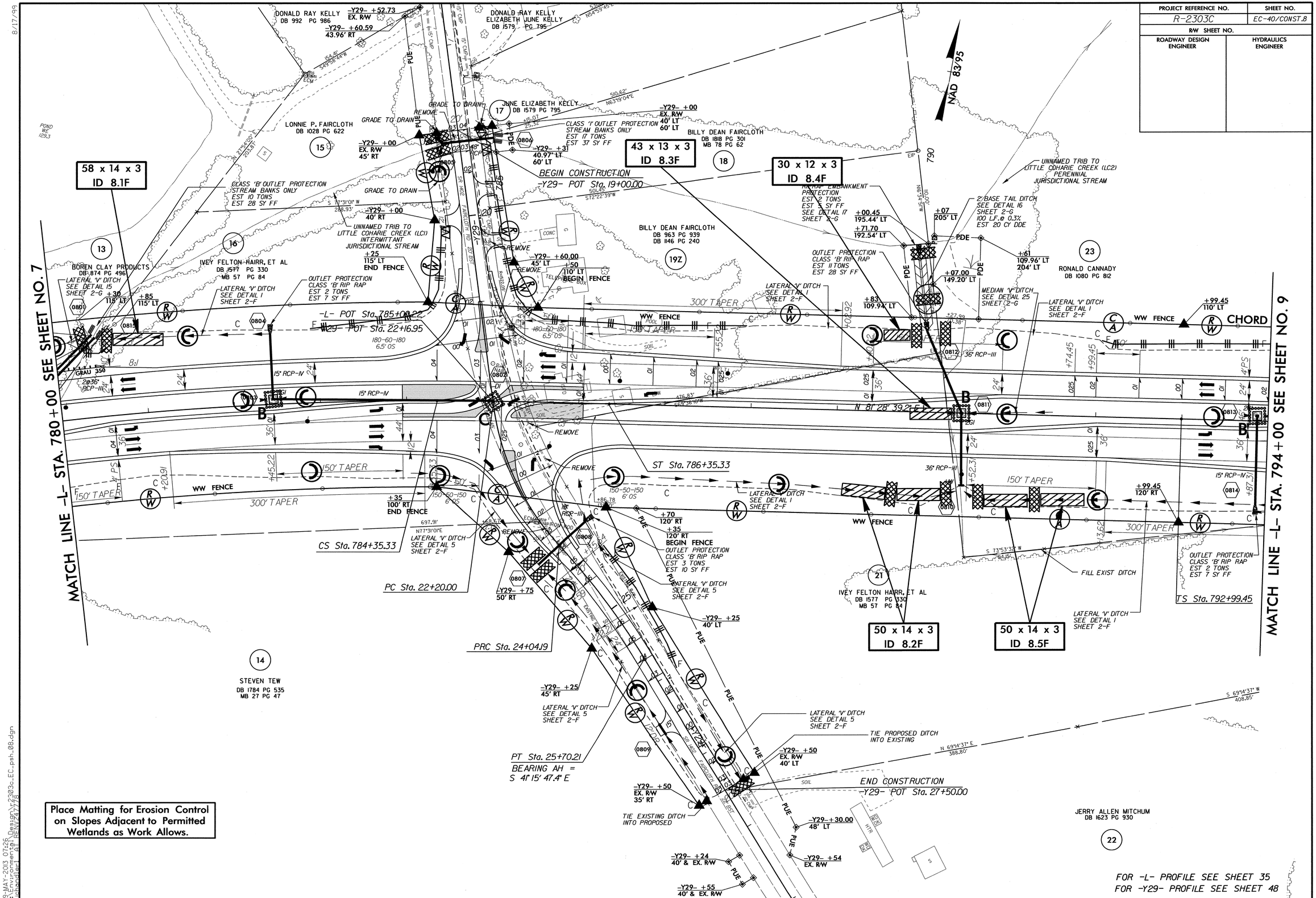
(0745)

(0746)

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-40/CONST.8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

8/17/99

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w:\chandler1 AT RENV247778

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-41/CONST.9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/95

-Y30- POT Sta. 10+00.00
BEARING AH =
S 3° 31' 21.4" E

-Y30- +00
EX. R/W

BEGIN CONSTRUCTION
-Y30- POT Sta. 11+00.00

GRADE TO DRAIN

-Y30- +00
EX. R/W

RONALD CANNADY
DB 1080 PG 812

LATERAL 'V' DITCH
SEE DETAIL 5
SHEET 2-F

23

+92
115' LT
END FENCE

-L- POC Sta. 796+42.31
-Y30- POT Sta. 13+49.32

+99.40
110' LT

+98.47
ON P/L
BEGIN FENCE

+75.23
ON P/L

300' TAPER

WW FENCE

150' TAPER

25

EVA BROCK, ETAL
DB 1088 PG 392

EVA BROCK
DB 995 PG 73

24

+95
95' LT
130' LT
END LIMITED C/A
BEGIN FULL C/A

+75
130' LT
END FULL C/A
BEGIN LIMITED C/A

51 x 21 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
13 ft. weir
ID 9.1

50 x 12 x 3
ID 9.4F

30 x 11 x 3
ID 9.3F

CLASS I OUTLET PROTECTION
STREAM BANKS ONLY
ESC 38 TONS
EST 78 SY FF

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

+76.65
105' LT

CHORD

REMOVE

15" RCP-IV

72" RCP-III

CAT-1

8:1

WILLIAM S. WELLONS, JR
DB 1310 PG 964

29

N53°05'47"W 1138.07'

805

800

795

MATCH LINE -L- STA. 794+00 SEE SHEET NO. 8

MATCH LINE -L- STA. 808+00 SEE SHEET NO. 10

+87.37
PL
END CHL FENCE
BEGIN WW FENCE

+00
PL

+75
174.54' RT
END FULL C/A
BEGIN LIMITED C/A

+76.65
115' RT

LATERAL 'V' DITCH
SEE DETAIL 1
SHEET 2-F

27

30

ST Sta. 807+76.65

JAMES DINO WILLIAMS JR.
DB 1051 PG 666
DB 3349 PG 151
MB 8 PG 42
MB 25 PG 76

RICHARD S. HALL
DB 1328 PG 53
MB 25 PG 76

28

80 x 20 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
12 ft. weir
ID 9.2F

54 x 16 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
8 ft. weir
ID 9.2F

CS Sta.

UNNAMED TRIB TO
LITTLE COHARIE CREEK (LC4)
INTERMITTANT
JURISDICTIONAL STREAM

R=517.15'

N 25°12'41" E
208.10'

+86.64
PL

CL FENCE

S 86°36'53" E 210.94'

S 86°37'18" E 80.00'

S 86°36'53" E 485.72'

S 86°37'18" E 80.00'

S 86°36'53" E 485.72'

S 86°37'18" E 80.00'

S 86°36'53" E 22.00'

S 86°37'18" E 80.00'

S 86°36'53" E 32.55'

S 86°37'18" E 80.00'

N 03°22'42" E 200.00'

N 03°22'42" E 995.97'

N 03°22'42" E 200.00'

N 03°22'42" E 200.00'

N 03°22'42" E 200.00'

N 03°22'42" E 200.00'

N 03°22'42" E 200.00'

N 03°22'42" E 200.00'

WATTIE ROBINSON
DB 955 PG 86
MB 8 PG 42

SHIRLEY J. OWENS
DB 988 PG 682
MB 8 PG 42

JACOLYN B. CLARK
DB 1467 PG 605
MB 8 PG 42

EDWARD C. MAXWELL
DB 1089 PG 568
MB 8 PG 42

DARRYL L. ANDERSON
DB 1746 PG 770
MB 8 PG 42

MARY L. UNDERWOOD
DAVID E. UNDERWOOD
DB 1567 PG 831
MB 8 PG 42

JACOLYN B. CLARK
DB 1406 PG 774
MB 8 PG 42

BOBBY EARL JACKSON
DB 1066 PG 259
MB8PG42

26

IVEY FELTON HAIRR, ET AL
DB 1577 PG 330
MB 57 PG 84

21

JERRY ALLEN MITCHUM
DB 1623 PG 930

ANGEL LUIS RIVERA-MORENO
DB 1658 PG 13
MB 8 PG 42

LESTER FREEMAN
DB 925 PG 547
MB 8 PG 42

KELLY E. BLACK
AND
AMY L. BLACK
DB 1773 PG 841
MB 8 PG 42

-Y30- +75
60' RT

+99.45
120' RT

-Y30- +17
48.33' RT
END FENCE

-Y30- +65
EX. R/W
35' RT

SC Sta. 794+99.45

-Y30- +17
47.06 LT
BEGIN CHL FENCE

-Y30- +65
EX. R/W
35' LT

UNNAMED TRIB TO
LITTLE COHARIE CREEK
NON-JURISDICTIONAL STREAM

LATERAL 'V' DITCH
SEE DETAIL 5
SHEET 2-F

TIE EXISTING DITCH
INTO PROPOSED

END CONSTRUCTION
-Y30- POT Sta. 15+65.00

SR 1401 MYRTLE RD 26' BST

SR 1401 LUCAS RD 20' BST

EXISTING R/W

60.00'

ISBKD

WD DECK

10' CONC

12" RCP

ISFD
ABAND
TELEPHONE BOX

B
ABAND

CEM

FALSE SUMP
SEE DETAIL 8
SHEET 2-G

LATERAL 'V' DITCH
SEE DETAIL 1
SHEET 2-F

LATERAL 'V' DITCH
SEE DETAIL 5
SHEET 2-F

NC 24 BYPASS & SR 1401 (LUCAS RD.)		
	400 / 400	
7,260 / 11,420	NC 24 BYP	200 / 200 — 200 / 200
		NC 24 BYP 7,460 / 11,620
	200 / 200 — 200 / 200	
	-Y30- SR 1401	
	400 / 400	2013 ADT / 2033 ADT

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

08-MAY-2013 07:38
R:\Environmental Design\2303c_EC_psh_00.dgn
User:jlee
Level: ALL REN/REF/TTR

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-42/CONST.10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/95

MATCH LINE -L- STA. 808+00 SEE SHEET NO. 9

MATCH LINE -L- STA. 822+00 SEE SHEET NO. 11

50 x 12 x 3
ID 9.4F

66 x 16 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
8 ft. weir
ID 10.2

50 x 13 x 3
ID 10.3F

52 x 14 x 3
ID 10.1F

32 x 12 x 3
ID 10.2F

29

WILLIAM S. WELLONS, JR
DB 1310 PG 964

30

RUFUS W. HALL, ET AL
DB 1363 PG 314

31

TOMMY DAVID CAIN, ET AL
DB 806 PG 805
DB 806 PG 807

PREFORMED SCOUR HOLE
OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 8 TONS
EST 16 SY FF
EST 25 SY PSRM
SEE DETAIL 2
SHEET 2-F

295.08'
N62°56'50"E

RUFUS W. HALL, ET AL
DB 1363 PG 314

+06
105' LT
119' LT

+48
105' LT
119' LT

BEGIN SBG +23.49

PDE

PSH

TSD

END SBG +08.26

+29
105' LT
114' LT

+71
105' LT
114' LT

WW FENCE

CFW

+78.66
133.65'

GRAU 350

8:1

15" CSP
W/ ELBOWS

15" RCP-IV

18" RCP-III

-L- S 79°42'38.2" E

893.97'
N62°56'50"E

538.58'
S24°31'49"W

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 2 TONS
EST 7 SY FF

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

+03
105' LT
114' LT

+28
105' LT
114' LT

+23.26
236.59'

+62.31
AXLE
N59°03'
N59°03'36"W

LATERAL 'V' DITCH
SEE DETAIL 1
SHEET 2-F

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 2 TONS
EST 7 SY FF

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

N 54°26'43" W
1408.94'

FOR -L- PROFILE SEE SHEET 36

SBG: SHOULDER BERM GUTTER

09-MAY-2013 07:45
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$chandler AT PBN/247778

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-43/CONST.11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/95

MATCH LINE -L- STA. 822+00 SEE SHEET NO. 10

MATCH LINE -L- STA. 836+00 SEE SHEET NO. 12

825 830 835

31 TOMMY DAVID CAIN, ET AL
DB 806 PG 805
DB 806 PG 807

32 CAROL B. ADAIR
DB 1761 PG 906
MB 34 PG 95

33 NELLIE & ELTON WILSON HEIRS
DB 739 PG 659

34 THORNTON HOMES CO.
DB 1672 PG 166
MB 34 PG 95

35 CAROL ADAIR
DB 1354 PG 844

+75 105' LT

+65 105' LT 130' LT

AXLE

+90.73 211.18' N55°41'08"W

177.40' S54°30'W/E

OUTLET PROTECTION CLASS 'B' RIP RAP EST 2 TONS EST 7 SY FF

WW FENCE

LATERAL 'V' DITCH SEE DETAIL I SHEET 2-F

LATERAL 2' BASE DITCH SEE DETAIL II SHEET 2-G

+55.55 130' LT END LIMITED C/A BEGIN FULL C/A

CHORD

1102 1104 1101 1103 1105

15" RCP-III

CAT-1

40' +55.55 8:1 +75.55

640.40' S54°30'W/E

-L- S 79°42'38.2" E

4' PS 24' 46' 24' 4' PS

025 02 01 00 01 24' 02 03

20' 40' +55.55

30" RCP-III

343.65' S54°30'W/E

+75 115' RT

LATERAL 'V' DITCH SEE DETAIL I SHEET 2-F

+86.29 23.45'

FALSE SUMP SEE DETAIL 7 SHEET 2-F

+17.24 13.95'

+80.00 115' RT 130' RT

+55.55 130' RT END LIMITED C/A BEGIN FULL C/A

LATERAL 2' BASE DITCH SEE DETAIL 14 SHEET 2-G

TS Sta. 834+55.55

RUFUS W. HALL, ET AL
DB 1363 PG 314

NELLIE BULLARD WILSON
DB 739 PG 659

752.77' N55°41'08"W

NELLIE & ELTON WILSON HEIRS
DB 722 PG 336

FOR -L- PROFILE SEE SHEET 36

03-MAY-2013 07:51
R:\Environmental Design\2303c_EC_psh_11.dgn
Expanded 11" REV 24.7.78

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-44/CONST.12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-45/CONST.13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/95

20 x 138 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
22 ft. weir
ID 12.1

50 x 13 x 3
ID 13.2F

40 x 13 x 3
ID 13.3F

50 x 17 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
9 ft. weir
ID 13.1F

56 x 17 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
9 ft. weir
ID 13.4F

MATCH LINE -L- STA. 850+00 SEE SHEET NO. 12

MATCH LINE -L- STA. 864+00 SEE SHEET NO. 14

855

860

40
S.M.P. FARMS
DB 762 PG 437

41
BELLE L. PARKER
DB 1023 PG 98
MB 27 PG 42

PREFORMED SCOUR HOLE
OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 8 TONS
EST 16 SY FF
EST 25 SY PSRM
SEE DETAIL 2
SHEET 2-F

+30
130' LT
END LIMITED C/A
BEGIN FULL C/A

+78
130' LT
137' LT

+17
130' LT
137' LT

PDE

MEDIAN 'V' DITCH
SEE DETAIL 25
SHEET 2-G

+50
130' LT
END FULL C/A
BEGIN LIMITED C/A

TOE PROTECTION
CLASS 'B' RIP RAP
EST 42 TONS
EST 93 SY FF
SEE DETAIL 8
SHEET 2-G

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

+95
130' LT
165' LT

UTILIZE ROCK FILL FROM
STA 860+45 TO 864+45 LT
UP TO ELEVATION 100.0

UNNAMED TRIB TO
LITTLE COHARIE CREEK (LC7)
PERENNIAL
JURISDICTIONAL STREAM

OUTLET CHANNEL
IMPROVEMENTS
SEE DETAIL 29
SHEET 2-H

+00
164.55' LT

+45.50
165' LT

+90
165' LT

WW FENCE

CHORD

CAT-1

8:1

150' TAPER

29.96

18" RCP-IV

18" RCP-III

1 @ 10' X 10' RCBC

BEGIN
EBG +48.66

10 PS

+45.50

40'

GRAU 350

SBG

BEGIN SBG +75.82

18" CSP W/ ELBOWS
AND W/ ROD & LUG
CONNECTORS

24"

LATERAL 'V' DITCH
SEE DETAIL 1
SHEET 2-F

+50
110' RT
END FULL C/A
BEGIN LIMITED C/A

+20
110' RT
130'RT

LATERAL 'V' DITCH
SEE DETAIL 1
SHEET 2-F

LATERAL 'V' DITCH
W/ CLASS 'B' RIP RAP
EST 30 TONS
EST 120 SY FF
SEE DETAIL 9
SHEET 2-F

LATERAL 'V' DITCH
SEE DETAIL 15
SHEET 2-G

+15
130' RT
155' RT

FALSE SUMP
SEE DETAIL 24
SHEET 2-G

TOE PROTECTION
CLASS 'B' RIP RAP
EST 20 TONS
EST 44 SY FF
SEE DETAIL 8
SHEET 2-G

+45.50
155' RT

+50
155.73' RT

+10
155.34' RT

+45.50
155' RT

INLET CHANNEL
IMPROVEMENTS
EST 60 SY COIR FIBER MAT
SEE DETAIL 28
SHEET 2-H

CS Sta. 861+45.50

ST Sta. 863+45.50

UTILIZE ROCK FILL FROM
STA 861+75 TO 864+15 RT
UP TO ELEVATION 100.0

Place Matting for Erosion Control
on Slopes Adjacent to Permitted
Wetlands as Work Allows.

FOR -L- PROFILE SEE SHEET 37

SBG: SHOULDER BERM GUTTER

03-MAY-2013 08:05
R:\Roadway\Design\r2303c_EC_psh_13.dgn
richardier
$$$$ BENTLEY SYSTEMS, INC.

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-46/CONST.14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE -L- STA. 864+00 SEE SHEET NO. 13

MATCH LINE -L- STA. 878+00 SEE SHEET NO. 15

NAD 83'95

100 x 25 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
17 ft. weir
ID 14.1

102 x 24 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
16 ft. weir
ID 14.2

40 x 16 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
8 ft. weir
ID 14.1F

BELLE L. PARKER
DB 1023 PG 98
MB 27 PG 42

BOBBY WAYNE JACKSON
DB 1332 PG 570
MB 27 PG 42

ELVIS W. JACKSON
DB 1792 PG 582
MB 27 PG 42

BELLE LEE PARKER
DB 1023 PG 98
DB 1751 PG 851
MB 27 PG 42

UTILIZE ROCK FILL FROM STA. 860+45 TO 864+45 LT UP TO ELEVATION 100.0

UNNAMED TRIB TO LITTLE COHARIE CREEK (LC7) PERENNIAL JURISDICTIONAL STREAM

PREFORMED SCOUR HOLE OUTLET PROTECTION CLASS 'B' RIP RAP EST 8 TONS EST 16 SY FF EST 25 SY PSRM SEE DETAIL 2 SHEET 2-F

-Y33A- POT Sta. 10+00.00
BEGIN CONST.
-D4- PT Sta. 10+94.37

PC Sta. 10+66.22

PT Sta. 10+55.59
BEARING AH =
S 6° 15' 52.3" W

GRADE TO DRAIN

-Y33A- +34
108' LT

-Y33A- +25
46.79' LT
87' LT

-D5- PC Sta. 10+00.00
BEGIN CONST.

PT Sta. 10+17.31
BEARING AH =
S 57° 11' 53.4" W

-Y33A- +73
46.85' LT
90' LT

-Y33A- POT Sta. 10+47.60
-D5- POT Sta. 11+00.74

-D4- PC Sta. 10+00.00
BEGIN CONST.

-Y33A- S 32° 48' 06.6" E

-L- S 32° 51' 52.9" E

+25
120' LT
165' LT
175' LT

+54
175' LT
347' LT

+03
175' LT
347' LT

2' BASE TAIL DITCH
SEE DETAIL 16
SHEET 2-G
180 LF @ 0.19%
EST 85 CY DDE

LATERAL 'V' DITCH
SEE DETAIL 5
SHEET 2-F

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 5 TONS
EST 14 SY FF

LATERAL 'V' DITCH
SEE DETAIL 5
SHEET 2-F

18" CSP W/ ELBOWS AND W/ ROD & LUG CONNECTORS

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

WW FENCE

END SBG +75.01

GRAL 350

END SBG +56.20

+75
90' LT

+25
90' LT

+75
100' LT

+55
100' LT

+85
110' RT
130' RT

+55
110' RT

+00
130' RT
155' RT

FLARE 'V' DITCH
TO CREATE 10' WEIR
W/ CLASS 'B' RIP RAP
EST 13 TONS
EST 35 SY FF
SEE DETAIL 3
SHEET 2-F

LATERAL 'V' DITCH
W/ CLASS 'B' RIP RAP
EST 35 TONS
EST 140 SY FF
SEE DETAIL 26
SHEET 2-H

LATERAL 'V' DITCH
SEE DETAIL 1
SHEET 2-F

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

TOE PROTECTION
CLASS B RIPRAP
EST 22 TONS
EST 50 SY FF
SEE DETAIL 8
SHEET 2-G

NATURAL SPRING

STREAM LOCATION UNKNOWN

APPROXIMATE SCRUB

24" RCP-IV

24" RCP-III

18" RCP-III

18" RCP-IV

15" RCP-IV

15" RCP-III

FOR -L- PROFILE SEE SHEET 38
FOR -Y33A- PROFILE SEE SHEET 53
FOR -D4- & -D5- PROFILE SEE SHEET 56
SBG: SHOULDER BERM GUTTER

03-MAY-2013 08:12
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Richard.Adams RENV4177A8

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-47/CONST.15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/95

MATCH LINE -L- STA. 878+00 SEE SHEET NO. 14

MATCH LINE -L- STA. 892+00 SEE SHEET NO. 16

UNNAMED TRIB TO LITTLE COHARIE CREEK (LC8) INTERMITTANT JURISDICTIONAL STREAM

THOMAS L. SUTTON ET UX DB 1230 PG 719 — 45

BELLE LEE PARKER DB 1023 PG 98 DB 1751 PG 851 MB 27 PG 42 — 43

LILLIAN LEIGH HERRING DB 1468 PG 41 DB 877 PG 615 MB 29 PG 44 — 44

HEAD STONE ONLY NO BARIAL DATES

THOMAS L. SUTTON DB 572 PG 399 — 45

40 x 12 x 3 ID 15.4F

52 x 14 x 3 ID 15.6F

40 x 13 x 3 ID 15.8F

38 x 12 x 3 1.5 inch Skimmer with 0.50 inch Orifice Diameter 4 ft. weir ID 15.10F

38 x 12 x 3 ID 15.9F

42 x 13 x 3 ID 15.2F

40 x 13 x 3 ID 15.3F

38 x 16 x 3 1.5 inch Skimmer with 0.625 inch Orifice Diameter 8 ft. weir ID 15.1F

43 x 16 x 3 1.5 inch Skimmer with 0.625 inch Orifice Diameter 8 ft. weir ID 15.5F

34 x 12 x 3 1.5 inch Skimmer with 0.375 inch Orifice Diameter 4 ft. weir ID 15.2

38 x 12 x 3 ID 15.7F

44 x 16 x 3 1.5 inch Skimmer with 0.625 inch Orifice Diameter 8 ft. weir ID 15.3

-D6- POT Sta. 10+00.00
-D6- POC Sta. 10+04.00
BEGIN CONST.

PC Sta. 10+66.15
PT Sta. 11+01.95
S 79° 48' 34.1" W

PT Sta. 10+67.61
BEARING AH =
S 42° 15' 08.7" W

-Y33A- POT Sta. 27+29.66
-D6- POT Sta. 11+15.37

-D7- POT Sta. 10+00.00
BEARING AH =
S 38° 47' 18.7" W
BEGIN CONST.

PC Sta. 11+27.93
PT Sta. 11+50.19

-D7- POT Sta. 11+75.2
BEARING BK =
S 54° 17' 55.8" W

-D8- POT Sta. 10+00.00
BEARING AH =
S 72° 33' 53.8" W

PC Sta. 10+32.48

-D8- POC Sta. 10+40.00
BEGIN CONST.

PT Sta. 10+86.12

-Y33A- POT Sta. 30+81.40
-D8- POT Sta. 11+57.19
BEARING BK =
S 57° 11' 53.4" W

S 32° 48' 06.6" E -Y33A-

S 57° 51' 52.9" E -L-

TOE PROTECTION CLASS 'B' RIP RAP EST 20 TONS EST 45 SY FF SEE DETAIL 8 SHEET 2-G

OUTLET CHANNEL IMPROVEMENTS SEE DETAIL 30 SHEET 2-H

OUTLET PROTECTION CLASS 'B' RIP RAP EST 5 TONS EST 16 SY FF

FALSE SUMP SEE DETAIL 7 SHEET 2-F

LATERAL 'V' DITCH SEE DETAIL 1 SHEET 2-F

PREFORMED SCOUR HOLE OUTLET PROTECTION CLASS 'B' RIP RAP EST 8 TONS EST 16 SY FF EST 25 SY PSRM SEE DETAIL 2 SHEET 2-F

TOE PROTECTION CLASS 'B' RIP RAP EST 50 TONS EST 115 SY FF SEE DETAIL 8 SHEET 2-G

INLET CHANNEL IMPROVEMENTS EST 25 SY COIR FIBER MAT SEE DETAIL 30 SHEET 2-H

TOE PROTECTION CLASS 'B' RIP RAP EST 35 TONS EST 75 SY FF SEE DETAIL 8 SHEET 2-G

TOE PROTECTION EST 275 SY PSRM SEE DETAIL 10 SHEET 2-F

30" RCP-IV
30" RCP-III
15" RCP-IV
18" RCP-IV
18" RCP-III
15" RCP
24" RCP
1 @ 7'0" RCBC

LOCATION UNKNOWN

WW FENCE
W FENCE

BEGIN SBG
END SBG
SBG
GRAU 350

TSD
PSH
PCON SBG +18.72

FOR -L- PROFILE SEE SHEET 38
FOR -Y33A- PROFILE SEE SHEET 53
FOR -D6-, -D7-, -D8- PROFILE SEE SHEET 57
SBG: SHOULDER BERM GUTTER

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

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PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-48/CONST.16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE -L- STA. 892+00 SEE SHEET NO. 15

MATCH LINE -L- STA. 906+00 SEE SHEET NO. 17

NAD 83/95

SEWER TREATMENT PLANT

TOWN OF ROSEBORO
DB 1160 PG 603

TANK

WE 1017
HOG LAGOON

WE 1002

WD. & MTL. HOG HOUSE (ABAND)

WD. & MTL. HOG HOUSE

72" CHL & 2SBW

36" CONC.

GATES

CONC. LIFT STATION

N 31° 15' 49" W
188.26'

N 31° 15'
241.

46 x 14 x 3
ID 16.5F

50 x 14 x 3
ID 16.4F

55 x 14 x 3
ID 16.1F

CARL T. WOLFORD
DB 1202 PG 639
MB 31 PG 85

JOHNNY GENE
DB 1501 PG
MB 31 PG 85

TOE PROTECTION
CLASS 'B' RIP RAP
EST. 40 TONS
EST. 90 SY FF
SEE DETAIL 8
SHEET 2-G

FALSE SUMP
SEE DETAIL 18
SHEET 2-G

TOE PROTECTION
EST 275 SY PSRM
SEE DETAIL 10
SHEET 2-F

45

THOMAS L. SUTTON
DB 572 PG 399

35

LATERAL 'A' DITCH
SEE DETAIL 5
SHEET 2-F

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

40

N 58° 44' 14" E
339.42'

+29.67
51.43'

-Y33A-

S 32° 48' 06.6" E

WW FENCE

895

S 32° 51' 52.9" E

18" RCP-IV

15" RCP-IV

906.88'

+35.18
74.82'

+75.29
28.21'

N 37° 26' 41" W
77.73'

N 37° 26' 41" W
88.42'

N 37° 26' 41" W
235.40'

WILLIE EDWARD WILLIAMS
DB 1107 PG 09

TROY K. AUTRY
SHIRLEY S. AUTRY
DB 1372 PG 316
MB 31 PG 85

PATRICIA A. BRYANT
DB 1522 PG 498
MB 31 PG 85

CARL T. WOLFORD
DB 1202 PG 639

JACOLYN B. CLARK
DB 1466 PG 660
MB 31 PG 85

OLLIS H. AVERITTE
DB 847 PG 219

CHRISTAL WEAVER FREEMAN
WB 04E PG 439

45 x 13 x 3
ID 16.7F

50 x 14 x 3
ID 16.2F

50 x 14 x 3
ID 16.3F

52 x 14 x 3
ID 16.6F

48 x 16 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
8 ft. weir
ID 16.1

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

FALSE SUMP
SEE DETAIL 24
SHEET 2-G

SPECIAL CUT DITCH
SEE DETAIL 21
SHEET 2-G

+30
125' RT

+25
125' RT
135' RT

+36.00
136' RT

+85
125' RT
170' RT

+46
245' RT

+51.15
EXIST R/W

+52
EX. R/W

+36.61
EX. R/W

+25
EX. R/W

+20
180' LT

+10
189' LT

+87
165' LT

+83
EX. R/W
50' LT

+04
EX. R/W
50' LT

POT Sta. 10+00.00

-Y33B- POT Sta.10+15.00
BEGIN CONSTRUCTION

-Y33B- POT Sta.10+90.52
END CONSTRUCTION

POT Sta. 11+14.25

-Y33B-

S 61° 25' 05.4" W

N 69° 26' 32" E

N 41° 43' 56" E
281.54'

N 37° 28' 29" W
211.28'

S 45° 54' 00" W
100.00'

N 45° 54' 00" E
100.00'

N 62° 01' 01" W
62.56'

S 62° 01' 01" E
88.30'

S 24° 46' 39" E
131.31'

N 37° 37' 25" W
73.27'

REBAR

EIP

ISBKD

SCRUB

TSD

PUE

R/W

C/A

SAMPSON CO. GIS
OP THIS PARCEL)

NG, et al

279
235
66
09
51

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jchandler
Standard: AASHTO_RENV2017.78

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-49/CONST.17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE -L- STA. 906+00 SEE SHEET NO. 16

MATCH LINE -L- STA. 920+00 SEE SHEET NO. 18

NAD 83/95

1.5 inch Skimmer with 0.375 inch Orifice Diameter 17 ft. weir with 3 ft. weir height ID 17.2F (See Earthen Dam with Skimmer Detail)

Install Silt Fence above Rock Fill Elevation on Slope.

Place Matting for Erosion Control on Slope as Work Allows.

42 x 13 x 3 ID 17.7F

22 x 55 x 3 1.5 inch Skimmer with 1.0 inch Orifice Diameter 14 ft. weir ID 17.1

39 x 13 x 3 ID 17.4F

78 x 24 x 3 1.5 inch Skimmer with 1.25 inch Orifice Diameter 16 ft. weir ID 17.2

FLOATING TURBIDITY CURTAIN

TOE PROTECTION CLASS 'B' RIP RAP EST 40 TONS EST 90 SY FF SEE DETAIL 8 SHEET 2-G

PC Sta. 47+33.22

OUTLET CHANNEL IMPROVEMENTS SEE DETAIL 33 SHEET 2-H

PREFORMED SCOUR HOLE OUTLET PROTECTION CLASS 'B' RIP RAP EST 8 TONS EST 16 SY FF EST 25 SY PSRM SEE DETAIL 2 SHEET 2-F

UTILIZE ROCK FILL FROM STA. 912+85 TO 913+90 LT UP TO ELEVATION 105.0

OUTLET PROTECTION CLASS 'I' RIP RAP EST 17 TONS EST 38 CY FF

PT Sta. 56+16.53

BEARING AH= S 58° 06' 24.7" E

STATE OF NORTH CAROLINA DB 1076 PG 605

CARL T. WOLFORD DB 1202 PG 639

TIE INTO RCBC

8'x9' RCBC

BEGIN SBG +27.9

LATERAL 'V' DITCH SEE DETAIL 5 SHEET 2-F

LATERAL 'V' DITCH SEE DETAIL I SHEET 2-F

FALSE SUMP SEE DETAIL 24 SHEET 2-G

FALSE SUMP SEE DETAIL 18 SHEET 2-G

PC Sta. 57+03.08

SC Sta. 909+28.77

TS Sta. 906+48.77

GRADE TO DRAIN

MEDIAN 'V' DITCH SEE DETAIL 25 SHEET 2-G

INLET CHANNEL IMPROVEMENTS EST 80 SY COIR FIBER MAT SEE DETAIL 32 SHEET 2-H

UNNAMED TRIB TO LITTLE COHARIE CREEK (LC9) PERENNIAL JURISDICTIONAL STREAM

TOE PROTECTION CLASS 'B' RIP RAP EST 55 TONS EST 26.5' FF SEE DETAIL 8 SHEET 2-G

FALSE SUMP SEE DETAIL 7 SHEET 2-F

WALNUT ST. (PER MB I PG 166)

DILLON ST. (PER MB I PG 166)

RIPRAP EMBANKMENT PROTECTION EST 2 TONS EST 5 SY FF SEE DETAIL 17 SHEET 2-G

UNNAMED TRIB TO LITTLE COHARIE CREEK (LC10) INTERMITTANT JURISDICTIONAL STREAM

LATERAL 'V' DITCH W/ CLASS 'B' RIP RAP EST 46 TONS EST 184 SY FF SEE DETAIL 9 SHEET 2-F

WW FENCE

CHAIN LINK FENCE

BEGIN CHAIN LINK FENCE

WHITE INVESTMENT CO. DB 1292 PG 957

35 x 14 x 3 1.5 inch Skimmer with 0.50 inch Orifice Diameter 6 ft. weir ID 17.1F

33 x 12 x 3 ID 17.3F

55 x 14 x 3 ID 17.5F

38 x 14 x 3 1.5 inch Skimmer with 0.50 inch Orifice Diameter 6 ft. weir ID 17.6F

65 x 20 x 3 1.5 inch Skimmer with 1.0 inch Orifice Diameter 12 ft. weir ID 17.8F

FOR -L- PROFILE SEE SHEET 39

FOR -Y33A- PROFILE SEE SHEET 54

SBG: SHOULDER BERM GUTTER

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Microstation 8.9 RENV217768

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-50/CONST.18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/95

60 x 20 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
12 ft. weir
ID 18.1F

48 x 13 x 3
ID 18.2F

44 x 13 x 3
ID 18.4F

29 x 13 x 3
ID 18.3F

MATCH LINE -L- STA. 920+00 SEE SHEET NO. 17

MATCH LINE -L- STA. 934+00 SEE SHEET NO. 19

-L- +22 476' LT
-L- +81 447' LT
-L- +90 353' LT
-L- +50 337' LT
-L- +10 300' LT
-L- +62 302.95' LT
-L- +00 305' LT
PDE
2' BASE TAIL DITCH SEE DETAIL 16 SHEET 2-G 180 LF.@ 0.3% EST 110 CY DDE
OUTLET PROTECTION CLASS 'B' RIP RAP EST 3 TONS EST 10 SY FF
EIP
PRBK Sta. 80+94.71
18" RCP-III
STATE OF NORTH CAROLINA DB 1076 PG 605
57
REMOVE
-L- POC Sta. 923+76.07
-Y33A- POT Sta. 65+06.17
-Y33- POT Sta. 10+00.00
+00 130' LT END FENCE
+50 100' LT
150' TAPER
300' TAPER
R 751
S 9°12'53.4"W 466.17'
BENJAMIN R. GOFF, III DB 1126 PG 466
60
2' BASE TAIL DITCH SEE DETAIL 16 SHEET 2-G 50 LF.@ 0.3% EST 8 CY DDE
-Y33A- POC Sta. 63+42.50
-D9- POT Sta. 10+98.90
-D9- POT Sta. 10+00.00
BEARING AH S 80°18'35.5" W
BEGIN CONST.
-D9- +55 35.55' RT
-D9- +00 20' RT
-D9- +00 20' LT
FALSE SUMP SEE DETAIL 7 SHEET 2-F
PT Sta. 63+92.08
-D9- +29 27.71' LT
+60 145' LT BEGIN FENCE
180-60-180 6.5' OS
+83 145' LT 162' LT
PUE
+05 145' LT 165' LT
FALSE SUMP SEE DETAIL 7 SHEET 2-F
FALSE SUMP SEE DETAIL 7 SHEET 2-F
925
930
JEFFREY LYNN CARLISLE DB 1234 PG 453
62
CLARENCE OLIVER CARLISLE DB 949 PG 189
63
64
-D2- POT Sta. 10+00.00
BEARING AH S 16°12'53.7" E
-D2- POT Sta. 10+05.00
BEGIN CONSTRUCTION
PC Sta. 10+07.09
+20 145' LT END FULL C/A BEGIN PARTIAL C/A END FENCE
+75 148' LT END LIMITED C/A BEGIN FULL C/A END WW FENCE BEGIN CL FENCE
+20 170' LT
FALSE SUMP SEE DETAIL 18 SHEET 2-G
+48 207' LT
SPECIAL LATERAL 'V' DITCH SEE DETAIL 9 SHEET 2-F
PRC Sta. 10+60.32
+81 205' LT
+60 170' LT
PT Sta. 11+11.98
THE EXISTING DITCH IS TO BE PROFILED
+20 145' LT BEGIN FENCE
+73 4.64' LT
+30 90' LT
9.27' LT
ACCESS POINT
REMOVE
MEDIAN 'V' DITCH SEE DETAIL 4A SHEET 2-F
18" RCP-III
24" RCP-III
15" RCP-IV
18" RCP-IV
1801
1802
1803
1804
1805
1806
1810
1811
1812
1813
-Y33- +90 EX. R/W
PT Sta. 14+20.19
PC Sta. 15+12.79
-Y33- +24 EX. R/W
-Y33- POC Sta. 15+44.00
END CONSTRUCTION
-Y33- +40 PROP. R/W
-Y33- +20 40' LT
-Y33- +12.78 EX. R/W
-Y33- +15 40' LT
-Y33- +44 EX. R/W
59
ELTON WARREN WILSON DB 1091 PG 52
(SEP) (ABAND) (ILLEGIBLE)
58
WHITE INVESTMENT CO. DB 1292 PG 957
CHAIN LINK FENCE
LATERAL 'V' DITCH SEE DETAIL 1 SHEET 2-F
+83.41 END CHAIN LINK FENCE
+93.76 110' RT
+25 END FENCE
+25 BEGIN FENCE
WW FENCE
PC Sta. 10+71.22
-L- +21.37 EX. R/W 110' RT 122' RT
-L- +20.94 EX. R/W
LATERAL 'V' DITCH SEE DETAIL 1 SHEET 2-F
SPECIAL CUT DITCH W/ CLASS 'B' RIP RAP EST 30 TONS EST 120 SY FF SEE DETAIL 27 SHEET 2-H
+75 110' RT 150' RT END LIMITED C/A BEGIN FULL C/A
61
CHARLES DUBOSE DB 7811 PG 153
FALSE SUMP SEE DETAIL 24 SHEET 2-G
SPECIAL CUT DITCH SEE DETAIL 21 SHEET 2-G
-D2- POT Sta. 11+80.47
CS Sta. 933+44.39
+40 125' RT 143' RT 150' RT
+20 125' RT END FULL C/A BEGIN PARTIAL C/A
+25 157' RT
+44.39 125' RT
+37 142' RT 150' RT
+52 141' RT 152' RT
TOE PROTECTION CLASS 'B' RIP RAP EST 73 TONS EST 162 SY FF SEE DETAIL 8 SHEET 2-G
PUE
FALSE SUMP SEE DETAIL 24 SHEET 2-G

NC 24 BYPASS AND -Y33-

8,530	NC 24 -L-	≤200	NC 24 -L-	12,620
12,850		≤200		19,660
		4,090		
		6,810		

2013 ADT
2033 ADT

FOR -L- PROFILE SEE SHEET 40
FOR -Y33A- PROFILE SEE SHEET 54
FOR -Y33- PROFILE SEE SHEET 50
FOR -D2- PROFILE SEE SHEET 56
FOR -D9- PROFILE SEE SHEET 57

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Richardson, Jennifer A. BENZ21758

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-5I/CONST.19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/95

MATCH LINE -L- STA. 934+00 SEE SHEET NO. 18

MATCH LINE -L- STA. 948+00 SEE SHEET NO. 20

50 x 15 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
7 ft. weir
ID 19.2

64
RICCI TADLOCK
DB 1460 PG 622

60
BENJAMIN R. GOFF, III
DB 1126 PG 466

65
ANN W. WHEELER AND JANE B. COPELAND
DB 1288 PG 843
DB 1288 PG 853
DB 1288 PG 856
DB 1389 PG 845

61
CHARLES DUBOSE
DB 781PG 153

66
CHARLES B. WILLIAMS AND LELA J. WILLIAMS
DB 1548 PG 13

ST Sta. 936+24.39

BEGIN APPROACH SLAB
-L- STA.941+40.83

BEGIN BRIDGE
-L- STA.941+65.00

END BRIDGE
-L- STA.944+60.00

END APPROACH SLAB
-L- STA.944+84.17

CHORD

BEGIN SBG +48.81

BEGIN SBG +04.37

END SBG +40.00

BEGIN SBG +84.99

BEGIN SBG +85.00

END SPECIAL GRADING
-L- POT STA.946+88.00

BEGIN SPECIAL GRADING
-L- POT STA.939+45.00

N 66°16'21.3" E -L-

S 70°44'47" W
213.26' (DB)
N68°20'04"E

PROPERTY OWNER TO RETAIN DRIVEWAY PIPE

SPECIAL LATERAL 'V' DITCH
SEE DETAIL 1
SHEET 2-F

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 2 TONS
EST 7 SY FF

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

+24.39
110' LT
120' LT
END CL FENCE
BEGIN WW FENCE

+05
BEGIN FENCE

WW FENCE

CLASS II RIP RAP
EST 800 TONS
EST 850 SY FF

+30
120' LT

CLASS II RIP RAP

TOP OF BANK

EXCAVATION
EST 4300 CY

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 2 TONS
EST 7 SY FF

+25.00
115' LT
120' LT

EDGE OF WATER
+00
120' LT

+06.58
115' LT

+53
151.06' LT

+38
115' LT

12" W.V. ELBOWS
AND W/ ROD & LUG
CONNECTORS

18" CSP W/ ELBOWS
AND W/ ROD & LUG
CONNECTORS

TOE PROTECTION
CLASS 'B' RIP RAP
EST 73 TONS
EST 162 SY FF
SEE DETAIL 8
SHEET 2-G

+04
140' RT

+24.39
125' RT

47 x 13 x 3
ID 19.2F

OUTLET PROTECTION
CLASS '1' RIP RAP
EST 4 TONS
EST 12 SY FF

32 x 14 x 3
1.5 inch Skimmer
with 0.50 inch
Orifice Diameter
6 ft. weir
ID 19.1F

+80
141' RT

34 x 11 x 3
ID 19.3F

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 2 TONS
EST 7 SY FF

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 2 TONS
EST 7 SY FF

+26
125' RT

+13.96
141' RT

+34.56
125' RT

+97.58
125.00' RT

+21
262.16' RT

+02
125' RT

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 2 TONS
EST 7 SY FF

+31
142' RT

CONNECTORS

+05
203' RT

PREFORMED SCOUR HOLE
OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 8 TONS
EST 16 SY FF
EST 25 SY PSRM
SEE DETAIL 2
SHEET 2-F

15 x 32 x 3
1.5 inch Skimmer
with 0.50 inch
Orifice Diameter
7 ft. weir
ID 19.4F

CLASS II RIP RAP
EST 775 TONS
EST 825 SY FF

LITTLE COHARIE CREEK (LC6)
PERENNIAL
JURISDICTIONAL STREAM

SREMC 100' POWERLINE RIGHT OF WAY

PUE

NOTE:
UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

FOR -L- PROFILE SEE SHEET 40

SBG: SHOULDER BERM GUTTER

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8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-52/CONST.20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

NAD 83/95

MATCH LINE -L- STA. 948+00 SEE SHEET NO. 19

MATCH LINE -L- STA. 962+00 SEE SHEET NO. 21

ANN W. WHEELER AND JANE B. COPELAND
DB 1288 PG 843
DB 1288 PG 853
DB 1288 PG 856
DB 1389 PG 845

SRDMC 150' POWERLINE RIGHT OF WAY

65

67

ANN W. WHEELER, ET AL
DB 1288 PG 843
DB 1288 PG 853
DB 1288 PG 856
DB 1389 PG 845

50 x 20 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
12 ft. weir
ID 20.2F

20 x 117 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
20 ft. weir
ID 20.1F

LATERAL 2' BASE DITCH TO CONNECT WETLANDS AND BREACH BERM SEE DETAIL II SHEET 2-G

MEDIAN 'V' DITCH SEE DETAIL 25 SHEET 2-G

OUTLET PROTECTION CLASS 'B' RIP RAP EST 2 TONS EST 7 SY FF

FALSE SUMP SEE DETAIL 7 SHEET 2-F

TOE PROTECTION EST 30 SY PSRM SEE DETAIL 10 SHEET 2-F

LATERAL 'V' DITCH SEE DETAIL I SHEET 2-F

+65 115' LT END PARTIAL C/A BEGIN FULL C/A

+13 115' LT 141' LT

+34 115' LT 142' LT

+25 115' LT END FULL C/A BEGIN PARTIAL C/A

+04 END WW FENCE

ACCESS POINT

END SBG +53.26

+64 BEGIN CL FENCE

+54 142' RT 152' RT

+75 141' RT 151' RT

+65 125' RT 135' RT END PARTIAL C/A BEGIN FULL C/A

+65 128' RT

+25 116' RT

+25 100' RT 135' RT END FULL C/A BEGIN PARTIAL C/A

+26 END FENCE

+84 ACCESS POINT BEGIN FENCE

END SBG +79.74

PREFORMED SCOUR HOLE OUTLET PROTECTION CLASS 'B' RIP RAP EST 8 TONS EST 16 SY FF EST 25 SY PSRM SEE DETAIL 2 SHEET 2-F

PREFORMED SCOUR HOLE OUTLET PROTECTION CLASS 'B' RIP RAP EST 8 TONS EST 16 SY FF EST 25 SY PSRM SEE DETAIL 2 SHEET 2-F

FALSE SUMP SEE DETAIL 7 SHEET 2-F

FALSE SUMP SEE DETAIL 18 SHEET 2-G

FALSE SUMP SEE DETAIL 7 SHEET 2-F

66

CHARLES B. WILLIAMS AND LELA J. WILLIAMS
DB 1548 PG 13

18" CSP W/ ELBOWS AND W/ ROD & LUG CONNECTORS

48" RCP-III EQ.PIPE PLACE AT NATURAL GROUND ELEVATION

GUARDRAIL R=20

GUARDRAIL R=32

N 66°16'26"W

2110.22'
S66°45'07"W

FOR -L- PROFILE SEE SHEET 41
SBG: SHOULDER BERM GUTTER

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8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-53/CONST.21
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/95

60 x 20 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
12 ft. weir
ID 21.3F

35 x 11 x 3
ID 21.2F

140 x 21 x 3
1.5 inch Skimmer
with 1.50 inch
Orifice Diameter
13 ft. weir
ID 21.1F

MATCH LINE -L- STA. 962+00 SEE SHEET NO. 20

MATCH LINE -L- STA. 976+00 SEE SHEET NO. 22

69 ANN HARPER WHEELER
DB 1389 PG 842
MB 19 PG 59
MB 38 PG 79

67 ANN W. WHEELER, ET. AL
DB 1288 PG 843
DB 1288 PG 853
DB 1288 PG 856
DB 1389 PG 845

68 TODD ALLEN WHEELER
DB 1497 PG 935

71 JANE B. COPELAND
DB 1389 PG 853

73 CHARLES B. WILLIAMS
DB 1548 PG 13

72 CHARLES B. WILLIAMS
DB 1548 PG 13

66 CHARLES B. WILLIAMS AND LELA J. WILLIAMS
DB 1548 PG 13

70 AUBREY PAXTON CRUMPLER
DB 1199 PG 137

GEORGE HALL, JR
DB 856 PG 441

BILLY RAY HALL
DB 1361PG 664

FULTON WAYNE BROCK
DB 1329 PG 612

UNNAMED TRIB TO LITTLE COHARIE CREEK NON-JURISDICTIONAL STREAM

-L- POC Sta. 967+66.94
-Y34- POT Sta. 10+00.00
BEARING AH = S 20° 05' 20.0" E

PC Sta. 10+49.41

PT Sta. 13+04.13

POT Sta. 15+07.15

TS Sta. 964+22.87

SC Sta. 966+22.87

CS Sta. 972+67.63

ST Sta. 974+67.63

TIE PROPOSED DITCH INTO EXISTING

LATERAL 'V' DITCH SEE DETAIL 1 SHEET 2-F

FALSE SUMP SEE DETAIL 7 SHEET 2-F

LATERAL 2' BASE DITCH SEE DETAIL 14 SHEET 2-G

LATERAL 'V' DITCH SEE DETAIL 5 SHEET 2-F

EXISTING ROADWAY TO BE DEMOLISHED AND AREA GRADED TO DRAIN AWAY FROM FILL SLOPE

GRADE TO DRAIN

OUTLET PROTECTION CLASS 'B' RIP RAP EST 15 TONS EST 37 SY FF

OUTLET PROTECTION CLASS 'B' RIP RAP EST 3 TONS EST 10 SY FF

OUTLET PROTECTION CLASS 'B' RIP RAP EST 2 TONS EST 7 SY FF

-Y34- POT Sta. 13+80.00
END CONSTRUCTION

-Y34- +80 EX. R/W 45' LT

-Y34- +80 EX. R/W 40' RT

-Y34- +60 ON PROP. R/W

-Y34- +40 50' LT

-Y34- +40.00 EX. R/W

-Y34- +45 55' RT

-L- +70 115' RT BEGIN FENCE

+10.00 END FENCE

+70.00 BEGIN FENCE

+00 END FENCE

+69 BEGIN FENCE

+94 END FENCE

+54 BEGIN FENCE

+03 END FENCE

+63 BEGIN FENCE

+70 END FENCE

+30 BEGIN FENCE

+41.13 EX. R/W END FENCE

+67 EX. R/W

+53 115' LT 121' LT

+77 129' LT

+83 115' LT

+67.63 115' LT

+46 136' LT

+48 110.32' LT

+67 137' LT

+06.43 110' LT

+22.87 115' LT

+22.87 100' RT

+95 117' RT 127' RT

+16 118' RT 127' RT

+67.63 115' RT

+78 126' RT 136' RT

+58 127' RT 137' RT

CHORD

ACCESS POINT

REMOVE

150' TAPER

300' TAPER

50' TAPER

15' RCP-IV

18" RCP-III

15" RCP-IV

15" RCP-III

15" RCP-IV

36" PVC RAIL

15" RCP

24" RCP

18" RCP

15" RCP-IV NC 24 25' BST

24" PS

36" CONC

48" CONC

48" WD

ISBLKD

ISFD

SOIL

POND WE 103.4

LANDSCAPE TIMBERS

WW FENCE

CL FENCE

EXISTING R/W

EXISTING R/W BEGIN

EXISTING R/W END

SR 1239 UNDERWOOD RD

NC 24 & SR 1239
(-Y34- UNDERWOOD RD.)

12,620 NC 24 19,660 BYP
NC 24 12,620 BYP 19,660
≤200 200
≤200 200
-Y34- SR 1239
260
420
2013 ADT
2033 ADT

FOR -L- PROFILE SEE SHEET 41
FOR -Y34- PROFILE SEE SHEET 51

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PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-54/CONST.22
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NC 24 & SR 1301
(-Y35- MARION-AMOS RD.)

790
1,270
-Y35- SR 1301
330 620 | 460 620
12,620 NC 24 19,660 BYP | NC 24 12,750 BYP 19,660
2013 ADT
2033 ADT

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

NAD 83/95

MATCH LINE -L- STA. 976+00 SEE SHEET NO. 21

MATCH LINE -L- STA. 990+00 SEE SHEET NO. 23

-Y35- POT Sta. 10+00.00
-Y35- POT Sta. 12+25.00
BEGIN CONSTRUCTION
-L- POT Sta. 977+44.76
-Y35- POT Sta. 14+88.26
S 19° 14' 37" E
RETAIN
TIE EXISTING DITCH INTO PROPOSED
REMOVE
-Y35- +00 EX. R/W
-Y35- +05 58' RT
-Y35- +24 55' RT
-Y35- +20 EX. R/W
-Y35- +25 EX. R/W 45' RT
-Y35- +25 EX. R/W 50' LT
-Y35- +53 51.27' LT
-Y35- +40 55' RT
-Y35- +35 55' LT
+60 110' LT END FENCE
+50 115' LT BEGIN FENCE
+54 115' LT
+25 95' LT 115' LT
+30 BEGIN WW FENCE
+58 95' LT 111' LT END PARTIAL C/A BEGIN FULL C/A
+88 95' LT 111' LT END FULL C/A BEGIN PARTIAL C/A
+10 END CL FENCE
+45 BEGIN FENCE
+89 END FENCE
+47 END WW FENCE
+56 100' RT END PARTIAL C/A BEGIN FULL C/A BEGIN CL FENCE
+76 100' RT END FULL C/A BEGIN PARTIAL C/A END FENCE
+50 115' RT 120' RT
+70 100' RT 120' RT
LATERAL 'V' DITCH SEE DETAIL 5 SHEET 2-F
LATERAL 'V' DITCH SEE DETAIL 1 SHEET 2-F
LATERAL 2' BASE DITCH SEE DETAIL 14 SHEET 2-G
FALSE SUMP SEE DETAIL 7 SHEET 2-F
TOE PROTECTION EST. 53 SY PSRM SEE DETAIL 10 SHEET 2-F
OUTLET PROTECTION CLASS B RIPRAP EST. 11 TONS EST. 28 SY FF
300' TAPER
150' TAPER
ACCESS POINT
WW FENCE
CL FENCE
36" RCP-N
24" RCP
18" RCP
15" RCP
10" PVC
NC 24 25' BST
WHEELCHAIR RAMP
FOR -L- PROFILE SEE SHEET 42
FOR -Y35- PROFILE SEE SHEET 51

CHARLES B. WILLIAMS DB 1548 PG 13 (73)
CHARLES B. WILLIAMS AND LELA J. WILLIAMS DB 1548 PG 13 (73)
AMANDA SCOTT EVANS DB 1530 PG 654 (75)
ROSCOE MAURICE HOLLAND, JR. DB 1719 PG 620 (77)
CHARLES B. WILLIAMS AND LELA J. WILLIAMS DB 1548 PG 13 (72)
ROGER RAY ROYAL DB 835 PG 448 (74)
ROGER RAY ROYAL DB 837 PG 595 (74)
FRANK ARNETTE DB 1610 PG 700 (78)
WILLIE JAMEY THOMPSON DB 1357 PG 587 (79)
KENNETH BETHEL WILHELMINA WILLIAMS DB 1643 PG 872 DB 1711 PG 560 (80)
SUNRISE PROPERTIES AND RENTALS, LLC DB 1691PG 642 (81)
ESSIE BLACKMON OATES DB 1807 PG 665 (82)
MILLARD T. OWEN III DB 1206 PG 105
KENNETH WILLIAMS DB 1512 PG 543
KENANNA HOLDINGS, LLC DB 1608 PG 162
JOYCE ANN MACK JOSEPH DB 1380 PG 690

980 985 990

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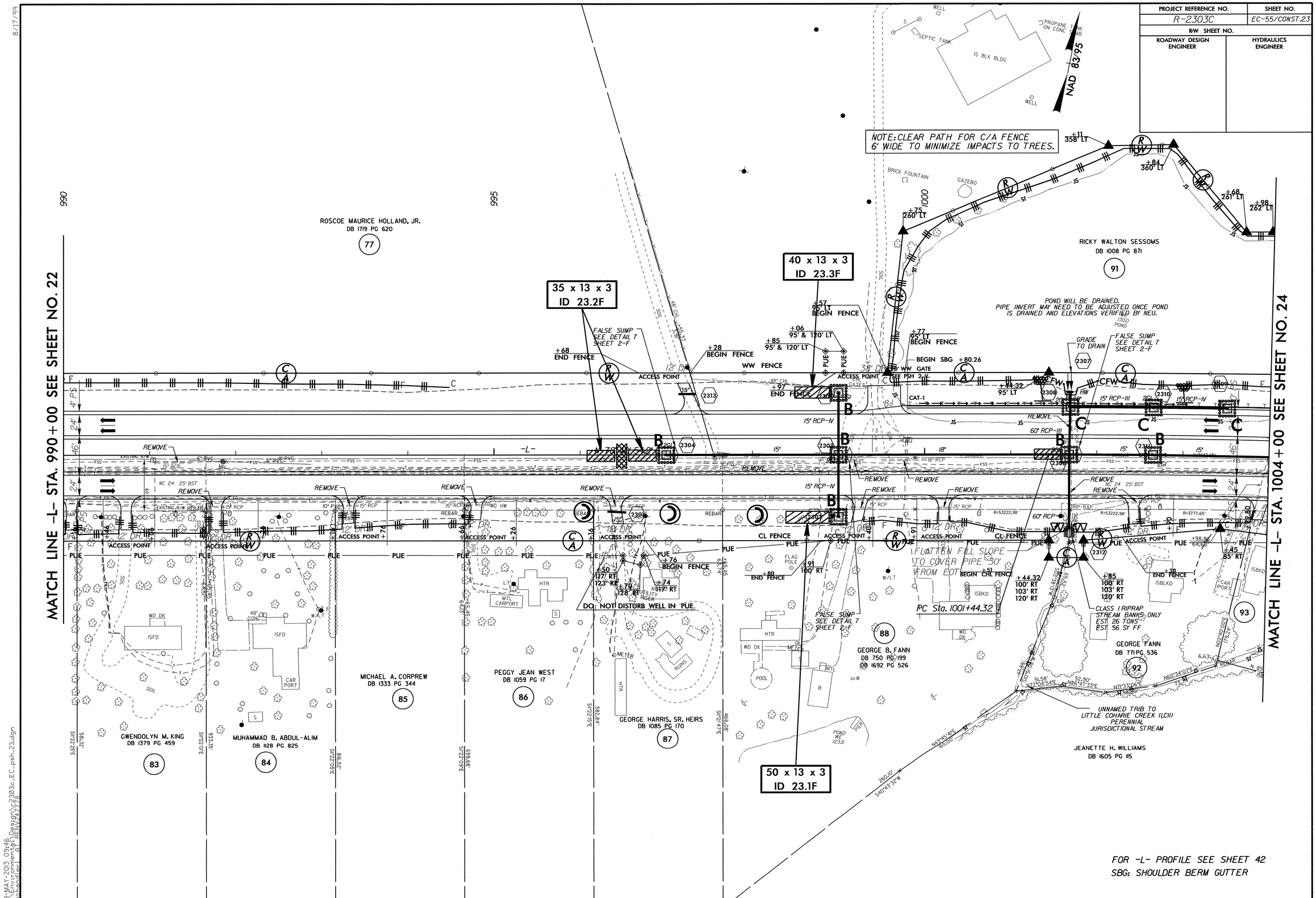
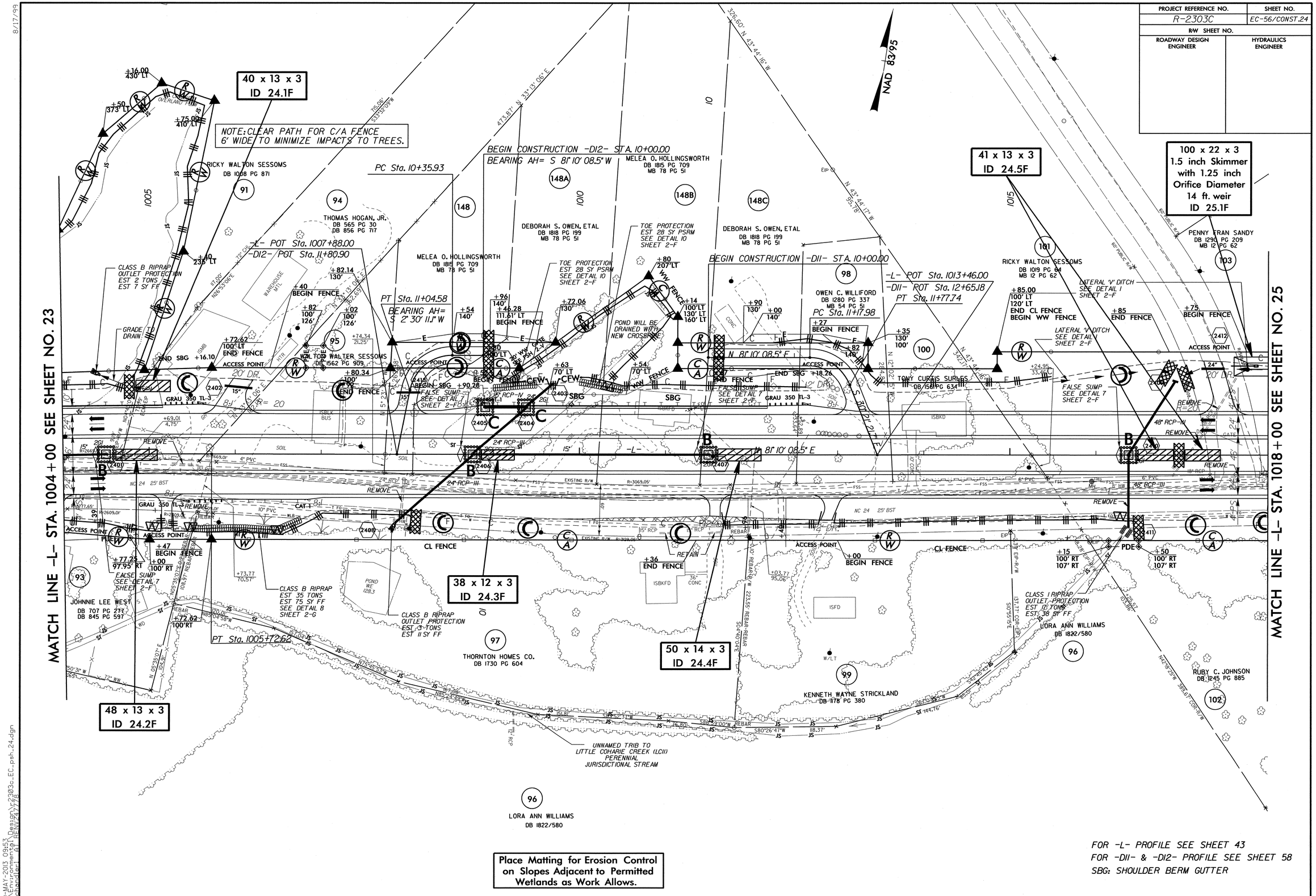
richardlar


PROJECT REFERENCE NO.
R-2303C
SHEET NO.
EC-55/CONST.23
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
NAD 83/95
NOTE: CLEAR PATH FOR C/A FENCE 6' WIDE TO MINIMIZE IMPACTS TO TREES.
MATCH LINE -L- STA. 990+00 SEE SHEET NO. 22
MATCH LINE -L- STA. 1004+00 SEE SHEET NO. 24
ROSCOE MAURICE HOLLAND, JR.
DB 1719 PG 620
77
RICKY WALTON SESSOMS
DB 1008 PG 871
91
35 x 13 x 3
ID 23.2F
40 x 13 x 3
ID 23.3F
50 x 13 x 3
ID 23.1F
POND WILL BE DRAINED. PIPE INVERT MAY NEED TO BE ADJUSTED ONCE POND IS DRAINED AND ELEVATIONS VERIFIED BY NEU.
FALSE SUMP SEE DETAIL 7 SHEET 2-F
GRADE TO DRAIN
FLATTEN FILL SLOPE TO COVER PIPE 30' FROM EOT
PC Sta. 1001+44.32
DO NOT DISTURB WELL IN PUE.
CLASS I RIPRAP STREAM BANKS ONLY EST 26 TONS EST 56 SY FF
UNNAMED TRIB TO LITTLE COHARIE CREEK (LCII) PERENNIAL JURISDICTIONAL STREAM
GWENDOLYN M. KING
DB 1379 PG 459
83
MUHAMMAD B. ABDUL-ALIM
DB 1128 PG 825
84
MICHAEL A. CORPREW
DB 1333 PG 344
85
PEGGY JEAN WEST
DB 1059 PG 17
86
GEORGE HARRIS, SR. HEIRS
DB 1085 PG 170
87
GEORGE B. FANN
DB 750 PG 199
DB 1692 PG 526
88
GEORGE FANN
DB 771 PG 536
92
93
JEANETTE H. WILLIAMS
DB 1605 PG 115
FOR -L- PROFILE SEE SHEET 42
SBG: SHOULDER BERM GUTTER

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-56/CONST.24
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

FOR -L- PROFILE SEE SHEET 43
FOR -D11- & -D12- PROFILE SEE SHEET 58
SBG: SHOULDER BERM GUTTER

8/17/99

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wichandler1 AT RENV247778
8/17/99

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-58/CONST.26
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

35 x 13 x 3 1.5 inch Skimmer with 0.50 inch Orifice Diameter 5 ft. weir ID 26.3F

45 x 13 x 3 1.5 inch Skimmer with 0.50 inch Orifice Diameter 5 ft. weir ID 26.5F

50 x 12 x 3 ID 26.4F

30 x 12 x 3 1.5 inch Skimmer with 0.375 inch Orifice Diameter 4 ft. weir ID 26.1F

35 x 13 x 3 1.5 inch Skimmer with 0.50 inch Orifice Diameter 5 ft. weir ID 26.2F

12 x 38 x 3 4 ft. weir (See Infiltration Basin Detail) ID 26.2IB

36 x 11 x 3 ID 26.6F

MATCH LINE -L- STA. 1032+00 SEE SHEET NO. 25

MATCH LINE -L- STA. 1046+00 SEE SHEET NO. 27

-L- POC Sta. 1032+15.99
-Y36- POT Sta. 10+00.00
BEARING AH = S 13° 34' 20.5" E

R/W ABANDONMENT

-D3-POT Sta. 10+00.00
BEGIN CONSTRUCTION
BEARING AH
S 54° 12' 15.9" E

PC Sta. 11+43.80
PT Sta. 11+69.32

-D3-POT Sta. 12+12.92
BEARING BK
S 24° 57' 46.1" E

PC Sta. 10+98.00

-Y36A- POT Sta. 10+20.00
BEGIN CONSTRUCTION

-Y36A- POT Sta. 10+94.65
END CONSTRUCTION

POT Sta. 10+00.00

POT Sta. 11+33.12

CS Sta. 1033+49.53
ST Sta. 1035+49.53

BEGIN SBG +00.00

END SBG +53.26

END SBG +06.31

BEGIN SBG +98.16

TS Sta. 1040+19.41

SC Sta. 1042+19.41

-Y37- POT Sta. 12+60.00
BEGIN CONSTRUCTION

PC Sta. 14+56.74

PT Sta. 12+57.29

PRC Sta. 17+41.99

-Y37-POC Sta. 18+11.46
-SR2- POT Sta. 12+86.38
BEARING BK
S 49° 07' 02.8" W

CHORD
N 64° 58' 58.0" E

CHORD
N 79° 58' 26.5" E

CHORD
N 82° 24' 49" E

CHORD
N 82° 24' 49" E

ABANDON R/W

REMOVE ASPHALT IN ABANDONMENT AREA

PREFORMED SCOUR HOLE OUTLET PROTECTION CLASS 'B' RIP RAP
EST 8 TONS
EST 16 SY FF
EST 25 SY PSRM
SEE DETAIL 2
SHEET 2-F

OUTLET PROTECTION CLASS B RIPRAP
EST 2 TONS
EXT 7 SY FF

OUTLET PROTECTION CLASS B RIPRAP
EST 5 TONS
EXT. 14 SY FF

CLASS I RIPRAP STREAM BANKS ONLY
EST 17 TONS
EST 38 SY FF

OUTLET PROTECTION CLASS 'B' RIP RAP
EST 5 TONS
EST 14 CY FF

OUTLET PROTECTION CLASS 'B' RIP RAP
EST 8 TONS
EST 21 CY FF

REMOVE EXIST 18" RCP AND ADJACENT ROADWAY FILL GRADE DITCH TO MATCH NATURAL CONDITION

UNNAMED TRIB TO BEARSKIN SWAMP (BRI) PERENNIAL JURISDICTIONAL STREAM

UNNAMED TRIB TO BEARSKIN SWAMP (BR2) NON-JURISDICTIONAL STREAM

EXTND EXIST 24" RCP 20 LF W/ CONC COLLAR

EXTND EXIST 24" RCP 24 LF W/ CONC COLLAR

LATERAL 'V' DITCH SEE DETAIL 5 SHEET 2-F

MEDIAN 'V' DITCH SEE DETAIL 25 SHEET 2-G

FALSE SUMP SEE DETAIL 7 SHEET 2-F

GRADE TO DRAIN

ACCESS POINT

108 JOHN KEITH HOBBS, ETUX AND THOMAS DALE HOBBS, JR., ETUX DB 1690 PG 33 MB 10 PG 80

113 AMOS BUTLER HEIRS DB 162 PG 381 DB 284 PG 60 MB 25 PG 58

112 MATTHEW D. NEAL, ETUX AND PATRICK G. NEAL, ETUX DB 1740 PG 423 MB 10 PG 80

114 JAMES EARL RF SAMPSON DB 762 PG 237

115 BERLENE MONK BUTLER DB 955 PG 551

JAMES GODWIN DB 1378 PG 168

FOREST MONK DB 1212 PG 820

CL FENCE

WW FENCE

09-MAY-2013 10:38
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M:\Hydraulics\Permits\R-2303C_RENV#21778

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-59/CONST.27
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99

NAD 83/95

ROGER R. ROYAL
DB 1314 PG 218

N 84° 34' 33" W
212.28'

N 84° 34' 33" W
407.71'

TERA CULBRETH
DB 967 PG 995
MB. 14 PAGE 15

115

116

HAROLD T. CULBRETH
DB 1434 PG 195

N 5° 05' 47" E
202.21'

PT Sta. 19+74.12
BEARING AH =
S 19° 48' 15.5" E
PC Sta. 12+14.86

-SR2- POT Sta. 10+04.30
BEGIN CONSTRUCTION
BEARING AH =
N 82° 15' 23.3" W

-Y37- +06
EX. R/W

120

WILMA FOWLER
DB 1304 PG 483

635.44'
S84°35'27"E

1050

1055

WILMA FOWLER
DB 1304 PG 483

85 x 20 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
12 ft. weir
ID 27.1F

TRANSITION PROTECTION
PSRM EST 20 SY
SEE DETAIL 10
SHEET 2-F

124

SAMPSON COUNTY
DB 933 PG 606

+42
EX. R/W

+78
125' LT
BEGIN FENCE

-L- POC Sta. 1046+27.39

-Y37- POT Sta. 20+28.30

+80
159' LT

+83
139' LT

+61
125' LT

PUE

WW FENCE

+05.96
125' LT
END LIMITED C/A
BEGIN FULL C/A

LATERAL 'V' DITCH
SEE DETAIL 1
SHEET 2-F

+05.96
135' LT

CHORD

TS Sta. 1056+70.64

SC Sta. 1058+70.64

+50
105' LT

+70.64
105' LT

+44
105' LT
137' LT

+82
105' LT
137' LT

PDE

MATCH LINE -L- STA. 1046+00 SEE SHEET NO. 26

MATCH LINE -L- STA. 1060+00 SEE SHEET NO. 28

300' TAPER

150' TAPER

40'

50' TAPER

REMOVE

15" RCP-IV

18" RCP-IV

15" RCP-N

18" RCP-N

N 87° 57' 01.7" E

200.32'
N79°46'29"E

S85°50'17"W

+56.15

+29.00

+30.61

+79.39

+64.39

+85.96

+44.39

+24.39

+45.96

+82

+70.64

+90.64

+32

+10.64

+12

R 42'

8' PS

PC Sta. 20+73.95

+25
110' RT
BEGIN FENCE

-Y37- +15
50' LT

PT Sta. 21+74.90
BEARING AH =
S 39° 05' 06.2" E

+05.96
110' RT
END LIMITED C/A
BEGIN FULL C/A

CS Sta. 1052+05.96

+05.96
110' RT

CL FENCE
ST Sta. 1054+05.96

+50
109.98' RT

+00
135' RT

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 2 TONS
EST 7 SY FF

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 3 TONS
EST 10 SY FF

LATERAL 'V' DITCH
SEE DETAIL 5
SHEET 2-F

LATERAL 'V' DITCH
SEE DETAIL 1
SHEET 2-F

-Y37- +00
EX. R/W

-Y37- POT Sta. 23+00.00
END CONSTRUCTION

-Y37- +65.72
35.95' RT

-Y37- +82
EX. R/W

-Y37- +11
49' LT

-Y37- +30
55' LT

-Y37- +37
EX. R/W

POT Sta. 24+67.93

S 39° 05' 06.2" E

107.28'

TERA CULBRETH
MB. 14 PAGE 15

TERA CLYDE CULBRETH
DB 961 PG 250

ELLA MAE WHITE
DB 646 PG 258

BRENDA TATUM
DB 1357 PG 422

WILLIAM HALLETT
DB 1357 PG 729

MINNIE ANNETA BENNET
DB 1261 PG 449

EDWARD PARKER
DB 862 PG 650

JIMMY L. COOPER
DB 862 PG 539

CLARA PARKER
DB 526 PG 426

WENDELL W. BUTLER
DB 768 PG 771

JOHNNY C. BASS
DB 931 PG 331

JOHNNY C. BASS
DB 1221 PG 166

GILBERT L. OATES
DB 1058 PG 246

LUTRELL BUTLER JR.
DB 768 PG 829

SUDIE MAE BETHEA JOHNSON
DB 933 PG 765
DB 720 PG 423

JUDITH ANN BETHEA
DB 1145 PG 724

RETHA BETHEA
DB 1242 PG 841

CHRS DESENTIS
DB 1568 PG 745

VALERIE ELMA P. CAIN
DB 1107 PG 318

FOR -L- PROFILE SEE SHEET 44

FOR -Y37- PROFILE SEE SHEET 52

FOR -SR2- PROFILE SEE SHEET 55

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R:\Projects\R-2303C_RENEW\27\PSH

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-60/CONST.28
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

32 x 12 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 28.1F

47 x 13 x 3
ID 28.3F

NAD 83/95

MATCH LINE -L- STA. 1060+00 SEE SHEET NO. 27

MATCH LINE -L- STA. 1074+00 SEE SHEET NO. 29

SAMPSON COUNTY
DB 933 PG 606

CEMETERY

SANITARY SEWER LIFT STATION

124

TOWER

ISBK

BK COLUMNS

MTL GATES

12" CHLASSBW

1065

1070

POND WS IV

POWER BOX

TOE PROTECTION
CLASS 'B' RIP RAP
EST 45 TONS
EST 95 SY FF
SEE DETAIL 8
SHEET 2-G

TOE PROTECTION
CLASS 'B' RIP RAP
EST 20 TONS
EST 45 SY FF
SEE DETAIL 8
SHEET 2-G

LATERAL 'V' DITCH
SEE DETAIL 1
SHEET 2-F

LATERAL 'V' DITCH
W/ CLASS 'B' RIP RAP
EST 15 TONS
EST 35 SY FF
SEE DETAIL 9
SHEET 2-F

TOE PROTECTION
CLASS 'B' RIP RAP
EST 40 TONS
EST 85 SY FF
SEE DETAIL 8
SHEET 2-G

FALSE SUMP
SEE DETAIL 18
SHEET 2-G

CS Sta. 1071+58.12

ST Sta. 1073+58.12

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

+55
105' LT
END FULL C/A
BEGIN PARTIAL C/A

WW FENCE

150' TAPER

CFW-F

RETAIN

+23
199' LT

+54
188' LT

+40.26
150.63' LT
ACCESS POINT

+21
152' LT

+55
130' LT

+75
BEGIN FENCE

+58.12
105' LT

+80
102.71' LT

CHORD

+58.12
100' LT

HTR BUS

+68
105' LT

+24
105' LT

END SBG +03.52

BEGIN SBG
+30.36

+55
END FENCE

GRAU 350 TL-3

CAT-1

72" RCP-IN

15" RCP-IV

72" RCP-III

18"

15" RCP

RIP-RAP

EXISTING R/W

REMOVE

LATERAL 'V' DITCH
SEE DETAIL 1
SHEET 2-F

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 2 TONS
EST 5 SY

END FULL C/A
BEGIN PARTIAL C/A

CL FENCE

LATERAL 'V' DITCH
SEE DETAIL 5
SHEET 2-F

PC Sta. 10+00.00

THE EXISTING DITCH INTO PROPOSED

+25
135' RT

-Y36B- +25
EX. R/W
TIE EXISTING DITCH
INTO PROPOSED

-Y36B-
S 61° 15' 58.8" W

+86.66
EX. R/W

+86
152' RT

-DRIO- +56.67
26.86' LT

TIE EXISTING DITCH
INTO PROPOSED

-DRIO- +40
EX. R/W

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 8 TONS
EST 30 SY FF

N 82° 37' 05.3" E
124.02'

POT Sta. 9+50.00

-DRIO- POT Sta. 10+25.48
BEGIN CONST.

-DRIO- +30
ON ROW

-Y36B- +36.99
EXIST. ROW
TIE EXISTING DITCH
INTO PROPOSED

-Y36B- POC Sta.10+25.00
BEGIN CONSTRUCTION

-Y36B- +06
EX. R/W
46' LT

PT Sta. 11+40.45

-Y36B-
END C

LATERAL 'V' DITCH
SEE DETAIL 5
SHEET 2-F

LATERAL 'V' DITCH
W/ CLASS 'B' RIP RAP
EST 50 TONS
EST 200 SY FF
SEE DETAIL 26
SHEET 2-H

-DRIO- +46
30' RT

-DRIO- POT Sta. 14+12.29
END PROFILE

POT Sta. 14+21.42

-DRIO- +21
25' LT

UNNAMED TRIB TO
BEARSKIN SWAMP (BRT)
INTERMITTANT
JURISDICTIONAL STREAM

CLASS I RIP RAP
STREAM BANKS ONLY
EST 38 TONS
EXT 78 SY FF

TOE PROTECTION
CLASS 'B' RIP RAP
EST 35 TONS
EST 70 SY FF
SEE DETAIL 8
SHEET 2-G

126

WASTE INDUSTRIES, LLC
DB 1659 PG 416
DB 1659 PG 419

-L- +55.11
307.66' RT

-L- +84
346' RT

-L- +09
335' RT

TIE TO EXISTING DRIVEWAY

R 200'

+30.00
105' RT
130' RT

+58.12
105' RT
BEGIN FENCE

+85
END FENCE

+09
157' RT
168' RT

+29
156' RT
167' RT

+90
BEGIN SBG

+58.12
105' RT

TSD

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

RETAIN

WATERLINE OBSCURED

SOIL

Modified Silt Basin
Type 'B'
74 x 27 x 3
19 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 28.2F

74 x 27 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
19 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 28.2F

15 x 30 x 3
1.5 inch Skimmer
with 0.50 inch
Orifice Diameter
7 ft. weir
ID 28.2

32 x 11 x 3
ID 28.4F

FOR -L- PROFILE SEE SHEET 45
FOR -Y36B- PROFILE SEE SHEET 51
FOR -DRIO- PROFILE SEE SHEET 58
SBG: SHOULDER BERM GUTTER

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R:\STIMPSON\Documents\R-2303C_EC_28.rpt
Microstation V8 RENV24778

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-61/CONST.29
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

NOTE:
UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

NAD 83/95

MATCH LINE -L- STA. 1074+00 SEE SHEET NO. 28

MATCH LINE -L- STA. 1088+00 SEE SHEET NO. 30

124
SAMPSON COUNTY
DB 933 PG 606

128
T&W DEVELOPMENT
DB 1369 PG 743

130
BERTHILDA BARBOZA ROBLES
DB 1367 PG 770

126
WASTE INDUSTRIES, LLC
DB 1659 PG 416
DB 1659 PG 419

129
BARON M. VAN LIEW
DB 1209 PG 765

1075 1080 1085

36 x 11 x 3
ID 29.2F

46 x 16 x 3
1.5 inch Skimmer with 0.625 inch Orifice Diameter
8 ft. weir
ID 29.2

44 x 18 x 3
1.5 inch Skimmer with 0.875 inch Orifice Diameter
10 ft. weir
ID 29.1

33 x 11 x 3
ID 29.2F

32 x 11 x 3
ID 29.3F

44 x 13 x 3
1.5 inch Skimmer with 0.50 inch Orifice Diameter
5 ft. weir
ID 29.4F

TOE PROTECTION
CLASS 'B' RIP RAP
EST 40 TONS
EST 85 SY FF
SEE DETAIL 8
SHEET 2-G

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

BEGIN SBG +53.56

MEDIAN 'V' DITCH
SEE DETAIL 25
SHEET 2-G

+20
100' LT
115' LT

WW FENCE

CLASS II RIP RAP
EST 700 TONS
EST 750 SY FF

+90
115' LT

END SBG +06.74

CLASS II RIP RAP

BEGIN BRIDGE
-L- STA.1080+32.00

TOP OF BANK

EDGE OF WATER

EXCAVATION
EST. 1100 CY

+07
115' LT

BEGIN SBG +02.00

FALSE SUMP
SEE DETAIL 7
SHEET 2-F

END APPROACH SLAB
-L- STA.1082+01.17

+00
115' LT

END SBG +75.00

-L- POT Sta. 1087+13.09
-Y38- POT Sta. 10+00.00
BEARING Ahd=
S 37° 57' 54.8" E

+55
END FENCE

ISFD

ISBKD +92
138' LT

+98
100' LT

ACCESS POINT

GRAU 350 TL-3
REMOVE

+70
100' LT

REMOVE

18" RCP
FALSE SUMP
SEE DETAIL 7
SHEET 2-F

REMOVE

POSSIBLE

N 59° 09' 28.5" E

BEGIN SPECIAL GRADING
-L- POT STA.1074+00.00

END SPECIAL GRADING
-L- POT STA.1084+00.00

300' TAPER

180-60-180
6.5' OS

+55
115' RT
END FENCE

+20
56' RT
18" CSP W/ ELBOWS
AND W/ ROD & LUG
CONNECTORS

+06.57

END SBG +94.47

BEGIN SBG +02.00

+50
105' RT
115' RT

+90
115' RT

END SBG +07.00

OUTLET PROTECTION
CLASS B RIP RAP
EST 2 TONS
EST 7 SY FF

BEGIN APPROACH SLAB
-L- STA.1080+07.83

END BRIDGE
-L- STA.1081+77.00

BEARSKIN SWAMP (BR3)
PERENNIAL
JURISDICTIONAL STREAM

CLASS II RIP RAP
EST 800 TONS
EST 850 SY FF

+89
115' RT
140' RT

+32
115' RT
140' RT

PREFORMED SCOUR HOLE
OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 8 TONS
EST 16 SY FF
EST 25 SY PSRM
SEE DETAIL 2
SHEET 2-F

+53
141' RT
151' RT

+74
141' RT
151' RT

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 8 TONS
EST 21 SY FF

OUTLET CONDITION
SEE DETAIL 36

+38
+95
65' RT

TOE PROTECTION
EST 17 SY PSRM
SEE DETAIL 10
SHEET 2-F

CLASS B RIPRAP
STREAM BANKS ONLY
EST 14 TONS
EST 34 SY FF

UNNAMED TRIB TO
BEARSKIN SWAMP (BR4)
INTERMITTANT
JURISDICTIONAL STREAM

INLET CONDITION
SEE -Y38A- +30

Y38 +50
EX. R/W

-Y38- POT Sta. 12+50.00
END CONSTRUCTION

LATERAL 2' BASE DITCH
SEE DETAIL 14
SHEET 2-G

FOR -L- PROFILE SEE SHEET 45
FOR -Y38- PROFILE SEE SHEET 52
SBG: SHOULDER BERM GUTTER

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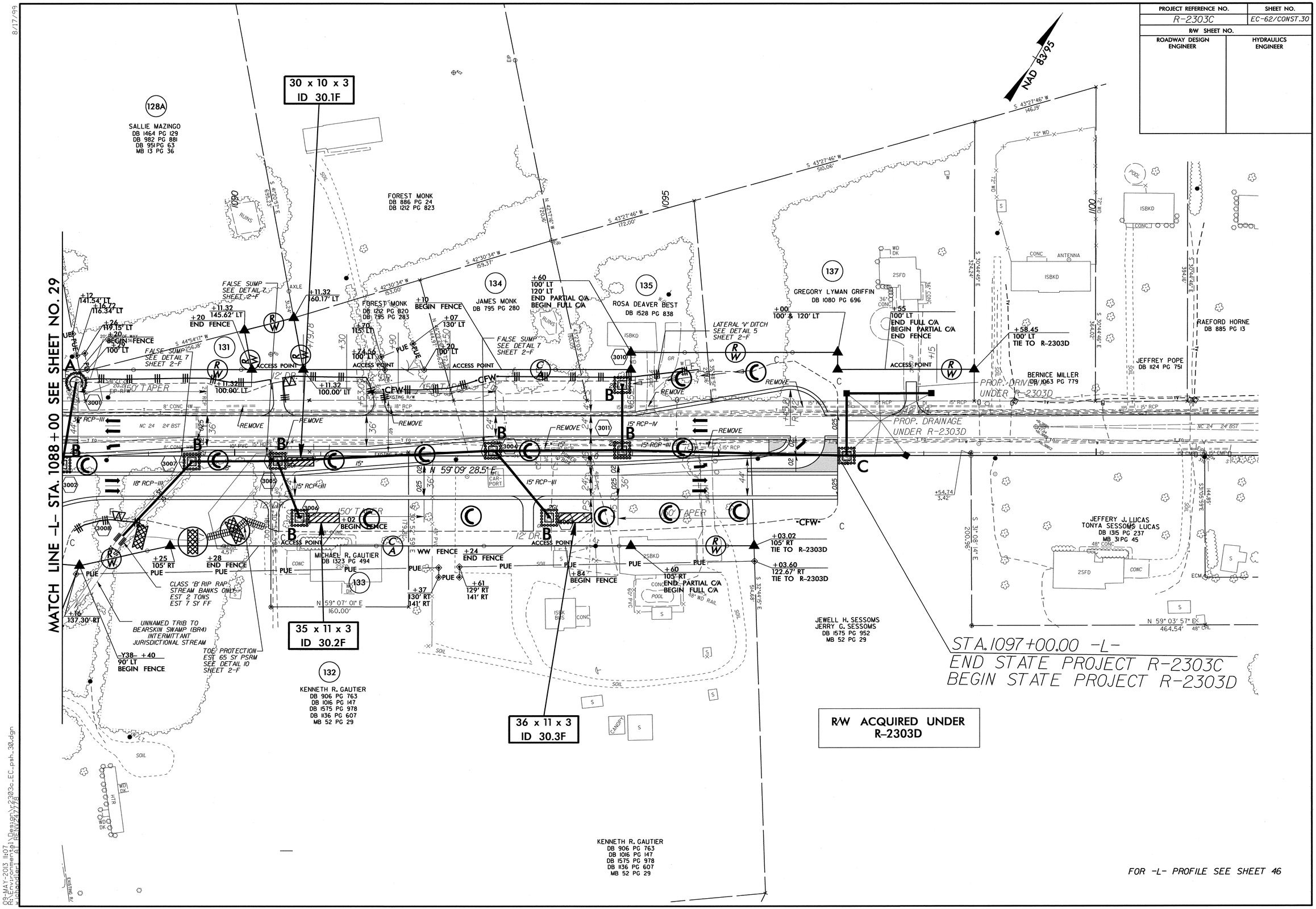
richardlar AT RENV247778

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-62/CONST.30
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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wichandler1 AT RENV247778

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-63/CONST.31
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/95

MATCH LINE -Y26- STA. 11+50 SEE SHEET NO. 5

-Y26- +00
EX. R/W
40' LT

-Y26- +00
EX. R/W
37' RT

-Y26- +50
45' LT

-Y26- +50
50' LT

-Y26- +50
50' LT

-Y26- +80
50' RT

-Y26- +78
EX. R/W

-Y27- +40
45' RT

-Y27- +34
57.76' RT

-Y27- +52
76' RT

-Y27- +72
48.90' RT

-Y27- +35
45' RT

-Y27- +80
EX. R/W

-Y27- +04.28
69.23' LT

-Y27- +06
77' LT

-Y27- +30
66.07' LT

-Y27- +70
70' LT

-Y27- +45
62.53' LT

-Y27- +45
72 & 82' LT

-Y27- +44
73 & 83' LT

-Y27- +75
55' LT

-Y26- POC Sta. 12+47.52
-Y27- POT Sta. 10+00.00

PC Sta. 10+39.24

PT Sta. 14+81.44
BEARING AH =
S 69° 25' 50.7" E

POT Sta. 16+25.44

-Y26- POT Sta. 16+00.00
END CONSTRUCTION

POT Sta. 11+97.61
BEARING AH =
N 69° 32' 01.3" W

TIE EXISITING DITCH INTO PROPOSED

TIE PROPOSED DITCH INTO EXISTING

LATERAL 'V' DITCH SEE DETAIL I SHEET 2-F

PROPERTY ORIENTED FROM TAX MAP SCALED (60°) FROM NEAREST WESTERN PROPERTY LINE TAX MAP PARCEL 1434-72-6858

ROBERT EUGENE LANE DB 1313 PG 173 DB 1476 PG 172 DB 1596 PG 173 MB 45 PG 58 MB 37 PG 60

LUIS TORRES DB 1359 PG 660 MB 45 PG 58

J. WHEELY L. HOBBS DB 1416 PG 176 MB 45 PG 58

30' INGRESS & EGRESS EASEMENT

S 15°19'35" W
353.69'

S 20°28'40" W
139.36'

S 20°28'40" W
139.77'

S 69°25'50.7" E
1803.00'

N 69°32'01.3" W
1806.61'

S 69°34'27" E
537.89'

S 69°31'18" E
480.26'

S 05°00'33" E
187.56'

S 04°56'55" E
71.00'

N 29°58'27" W
N 29°56'52" S

FOR -Y26- PROFILE SEE SHEET 47
FOR -Y27- PROFILE SEE SHEET 47

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Microstation 8.1 REVISED 7-7-98

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2303C	EC-64/CONST.32
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 1983

KATHERINE L. PERNELL
ALAN M. BROWN
DB 1577 PG 83
141

HUBERT MATTHEWS
DB 1121 PG 153

JAMES B. NUNNERY, JR.
DB 1121 PG 156

LINDA LEE NUNNERY
DB 1073 PG 715

JAMES B. NUNNERY, JR.
DB 1121 PG 156
142

CAROL B. ADAIR
DB 1761 PG 906
MB 34 PG 95
32

THORNTON HOMES CO.
DB 1672 PG 166
MB 34 PG 95
34

CAROL ADAIR
DB 1354 PG 844
35

KATHERINE L. PERNELL
ALAN M. BROWN
DB 1577 PG 83
141

MARY E. FAIRCLOTH
DB 1434 PG 41
140

NELLIE & ELTON WILSON HEIRS
DB 722 PG 336
33

GEORGE C. EDWARDS
DB 1337 PG 613
143

GEORGE C. EDWARDS
DB 832 PG 500
143

S.M.P. FARMS
DB 762 PG 437

T. L. EDWARDS
DB 792 PG 323
DB 1337 PG 609
145

DAVID JOHN MIXON
DB 1689 PG 992
146

38 x 13 x 3
ID 32.1F

35 x 10 x 3
ID 32.3F

34 x 12 x 3
ID 32.2F
37

-Y32- +60 54' LT
-Y32- +81 51' LT
-Y32- +77 EX. R/W
-Y32- +50 EX. R/W
-Y32- +15 40' LT
-Y32- +50 EX. R/W
-Y32- +00 45' RT
-Y32- +64 EX. R/W
-Y32- +26 47' RT
-Y32- +25 58' RT
-Y32- +43 61' RT
-Y32- +45 50' RT
-Y32- +00 45' LT
-Y32- +30 60' LT
-Y32- +50 50' LT
-Y32- +50 50' RT
-Y32A- +82 87' RT
-Y32A- +86 95' RT
-Y32A- +95 81' RT
-Y32A- +91 73' RT
-Y32A- +15 EX. R/W
-Y32A- +50 40' LT
-Y32A- +00 40' LT
-Y32A- +50 EX. R/W
-Y32A- +75 50' RT
-Y32A- +06 43' LT 53.86' LT
-Y32A- +29 EX. R/W 56' LT
-Y32A- +50 EX. R/W
-Y31- +70 EX. R/W
-Y31- +08 43.56 LT
-Y31- +02 60' LT
-Y31- +34 71' LT
-Y31- +40 55' LT
-Y31- +10 45' LT
-Y31- +65 45' RT
-Y32- +00 65' LT
-Y32- +50 50' LT
-Y32- +85 55' RT

-Y32- POC Sta. 18+33.00
-Y32A- POT Sta. 10+00.00
BEARING AH =
S 46° 35' 27.6" W

-Y31- POT Sta. 15+70.00
BEGIN CONSTRUCTION

PT Sta. 21+50.54
BEARING AH =
S 71° 20' 42.3" E

-Y32- POT Sta. 13+50.00
BEGIN CONSTRUCTION
BEARING BACK =
S 13° 07' 30.2" E

PC Sta. 14+97.16

RC Sta. 10+45.36

PT Sta. 11+49.26

-Y32A- POT Sta. 12+50.00
END CONSTRUCTION

-Y31- POT Sta. 16+82.50
-Y32- POT Sta. 22+91.35

TIE INTO EXISTING DITCHES

LATERAL 'V' DITCH
SEE DETAIL 5
SHEET 2-F

LATERAL 4' BASE DITCH
SEE DETAIL 23
SHEET 2-G

LATERAL
4' BASE DITCH
W/ CLASS 'B' RIP RAP
EST 19 TONS
EST 129 SY FF
SEE DETAIL 19
SHEET 2-G

OUTLET PROTECTION
CLASS 'B' RIP RAP
EST 17 TONS
EST 42 SY FF

OUTLET PROTECTION
CLASS 'B' RIP RAP
STREAM BANKS ONLY
EST 15 TONS
EST 42 SY FF

UNNAMED TRIB TO
LITTLE COHARIE CREEK

REMOVE

RETAIN

TIE INTO
EXIST DITCHES

S 18° 32' 57.5" W

S 17° 56' 18" E

MATCH LINE -Y31- STA. 20+00 SEE SHEET NO. 12

FOR -Y31- PROFILE SEE SHEET 49
FOR -Y32- PROFILE SEE SHEET 49
FOR -Y32A- PROFILE SEE SHEET 50

09-MAY-2013 11:39
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Microstation 8.1 REV 2.1.778