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TIP PROJECT: R-5719

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5719	EC-1	

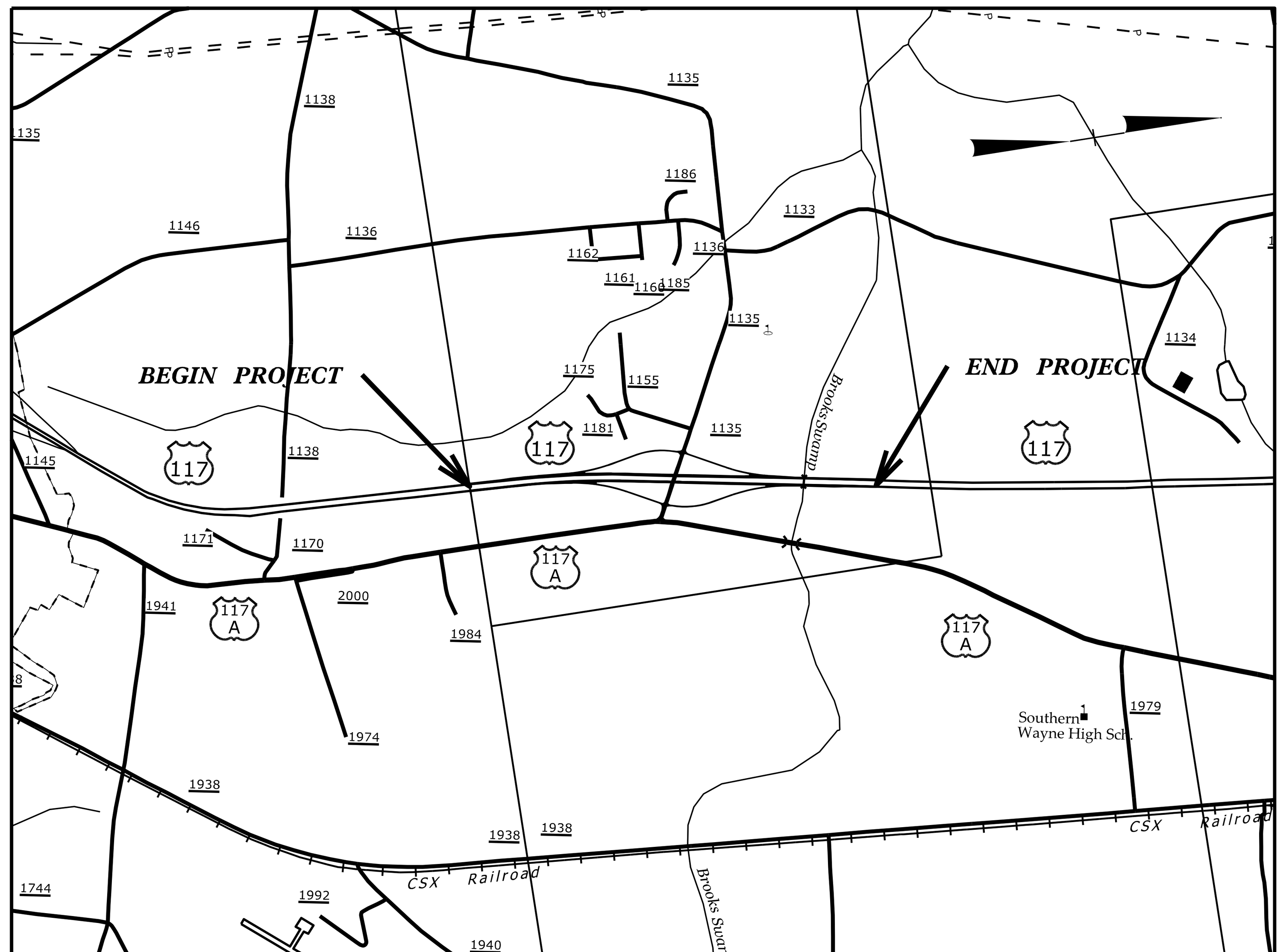
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
50473.1.FD1	NHP-0117(31)	PE
50473.3.1		CONST

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

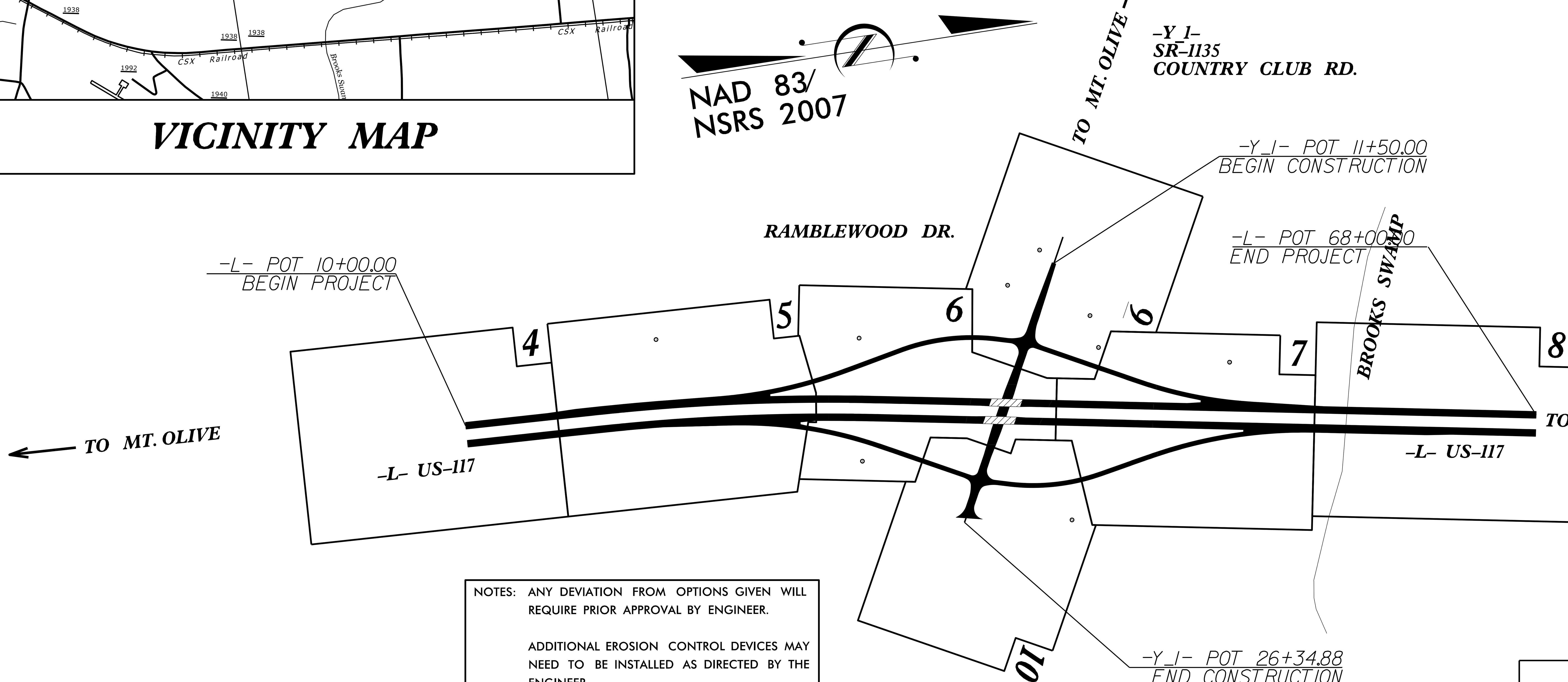
PLAN FOR PROPOSED HIGHWAY EROSION CONTROL

WAYNE COUNTY

LOCATION: US-117 AND SR-1135 (COUNTRY CLUB RD.) INTERCHANGE
TYPE OF WORK: GRADING, DRAINAGE, PAVING, STRUCTURE



VICINITY MAP



NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III
THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.

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.

ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT

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

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

GRAPHIC SCALE

0 50
PLANS

0 50
PROFILE (HORIZONTAL)

0 10
PROFILE (VERTICAL)

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

Prepared In the Office of:

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

Designed by:

DUSTIN D. CREECH, P.E. ***3019***
NAME LEVEL III CERTIFICATION NO.

Reviewed In the Office of:

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

2012 STANDARD SPECIFICATIONS

Reviewed by:

JEFF WALSTON, P.E., CPESC, CPSWQ

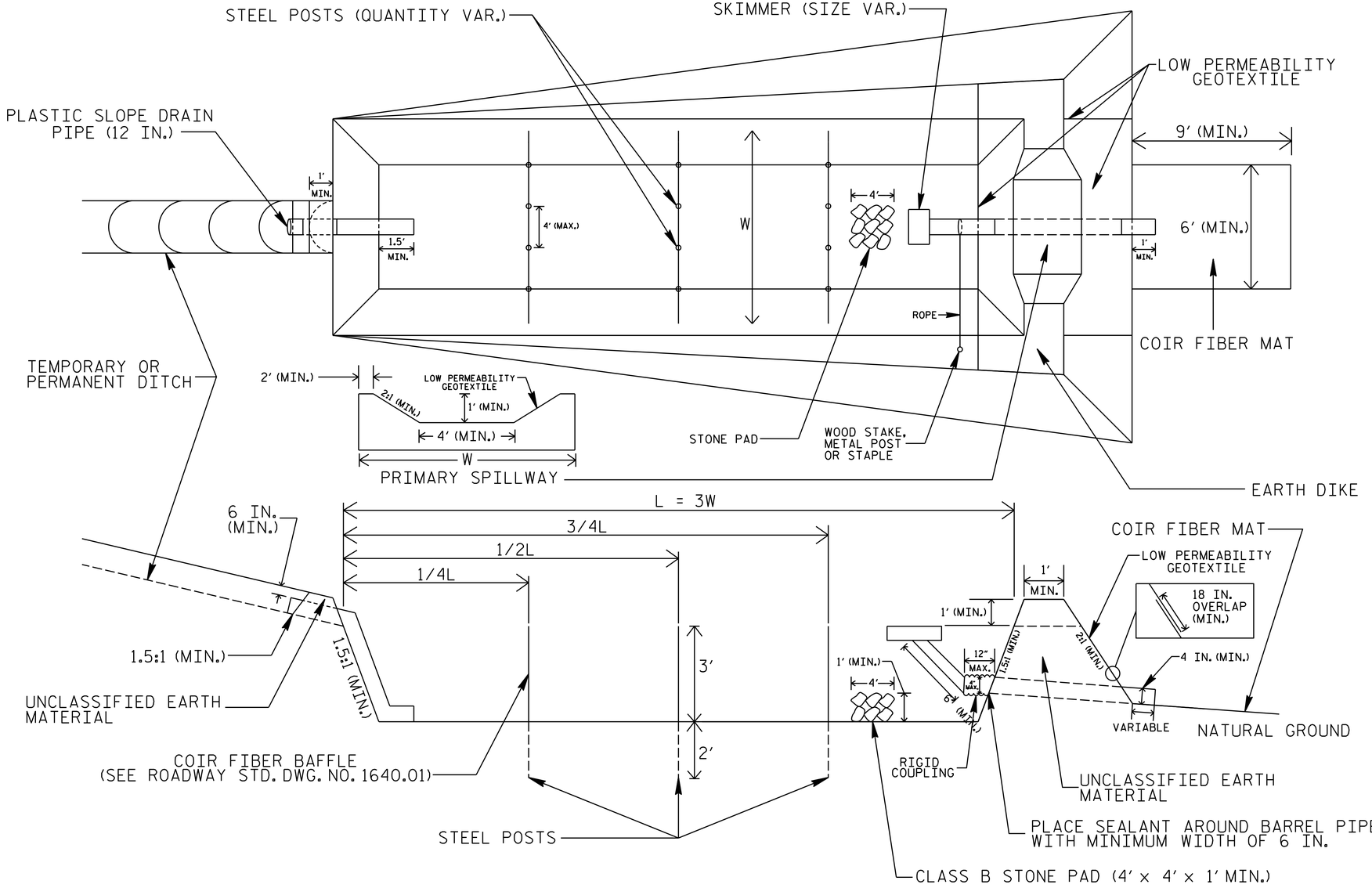
Roadway Standard Drawings

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

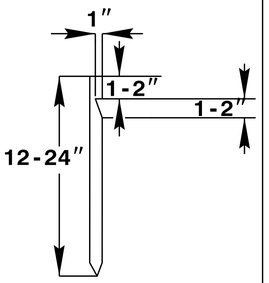
1604.01	Railroad Erosion Control Detail	1632.01	Rock Inlet Sediment Trap Type A
1605.01	Temporary Silt Fence	1632.02	Rock Inlet Sediment Trap Type B
1606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type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

PROJECT REFERENCE NO.	SHEET NO.
R-5719	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

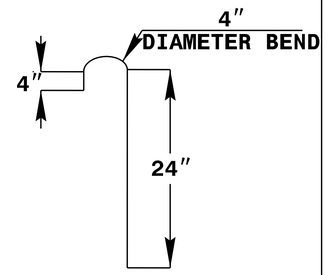
SKIMMER BASIN WITH BAFFLES DETAIL (EAST)



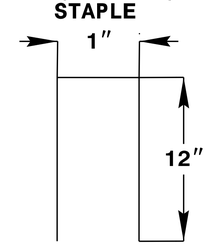
2" x 2" (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1" (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

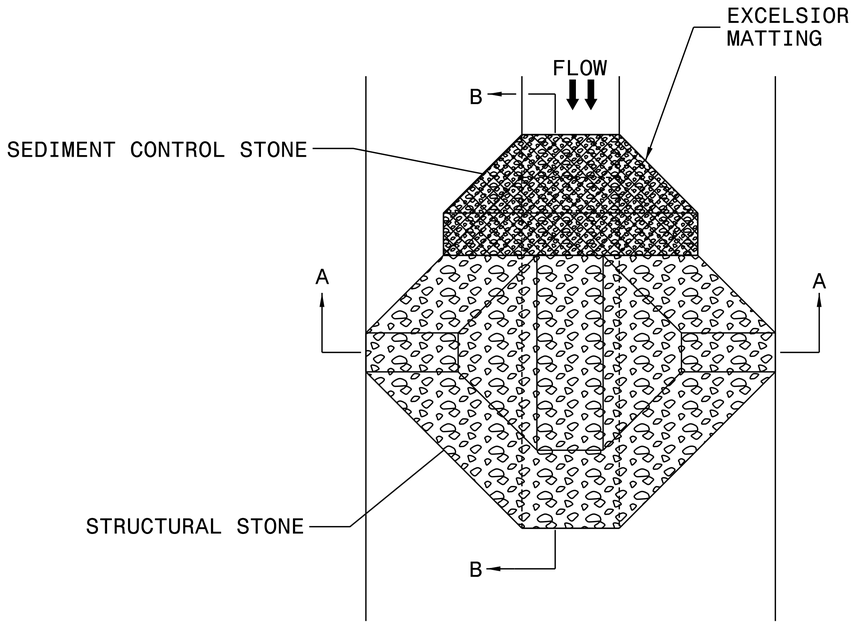
NOTES

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 PRIMARY 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. LOW PERMEABILITY GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

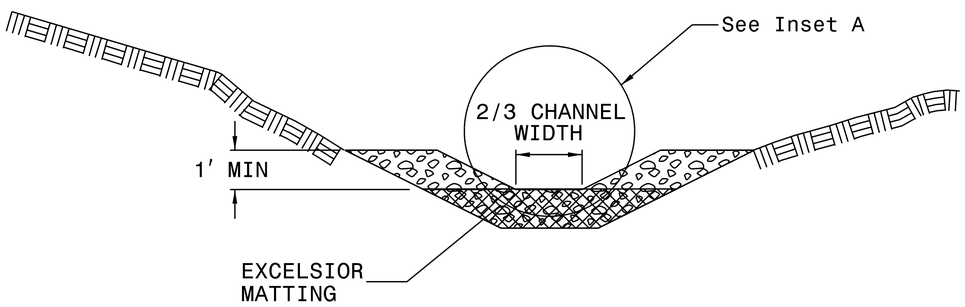
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-5719	EC-2A
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

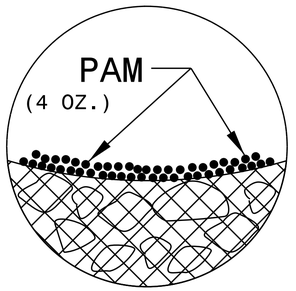
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

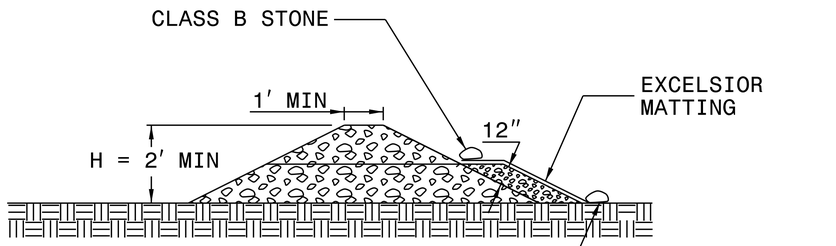
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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



INSET A

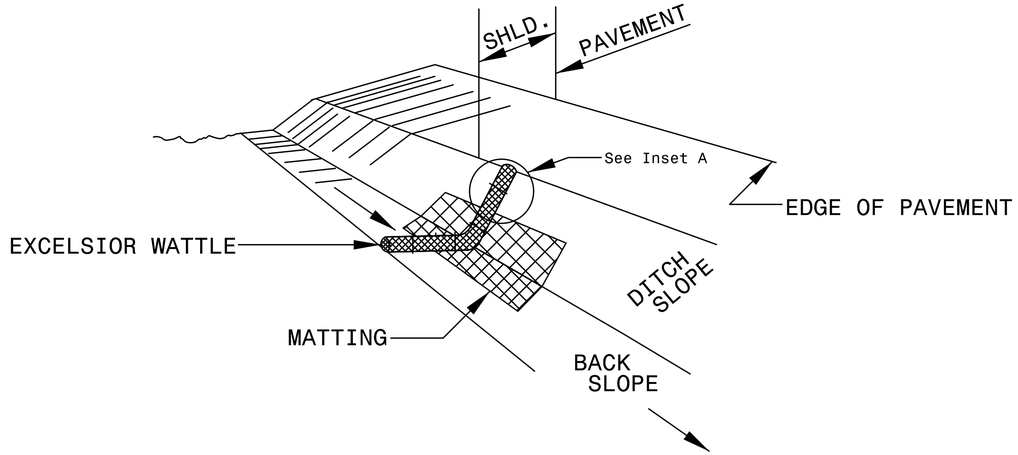


SECTION B-B

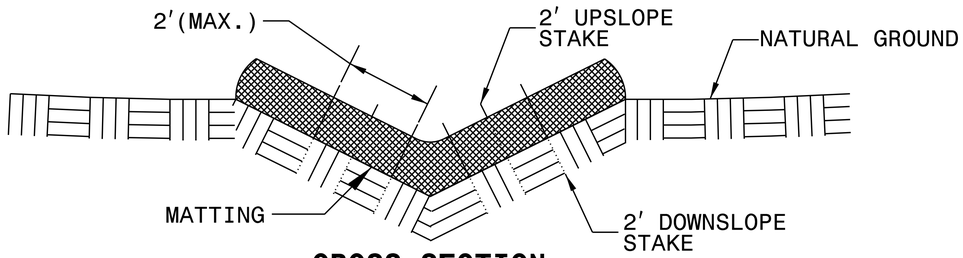
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-5719	EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

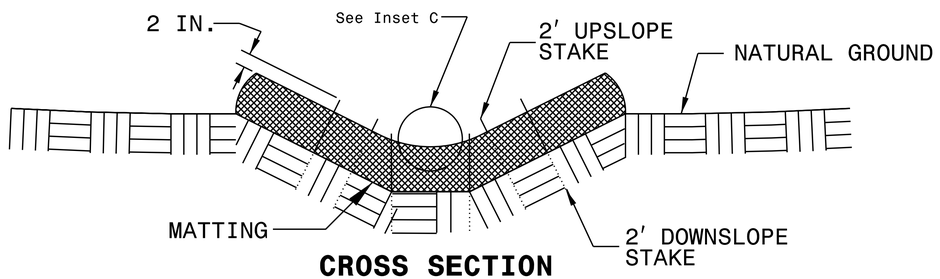
WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



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.

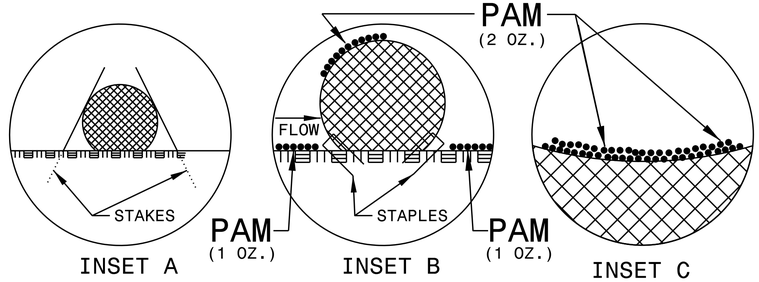
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

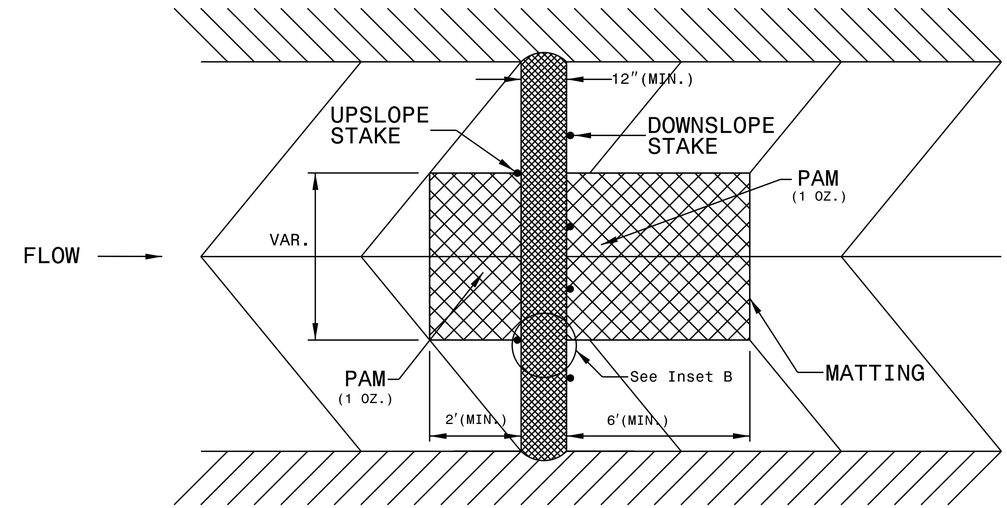
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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.

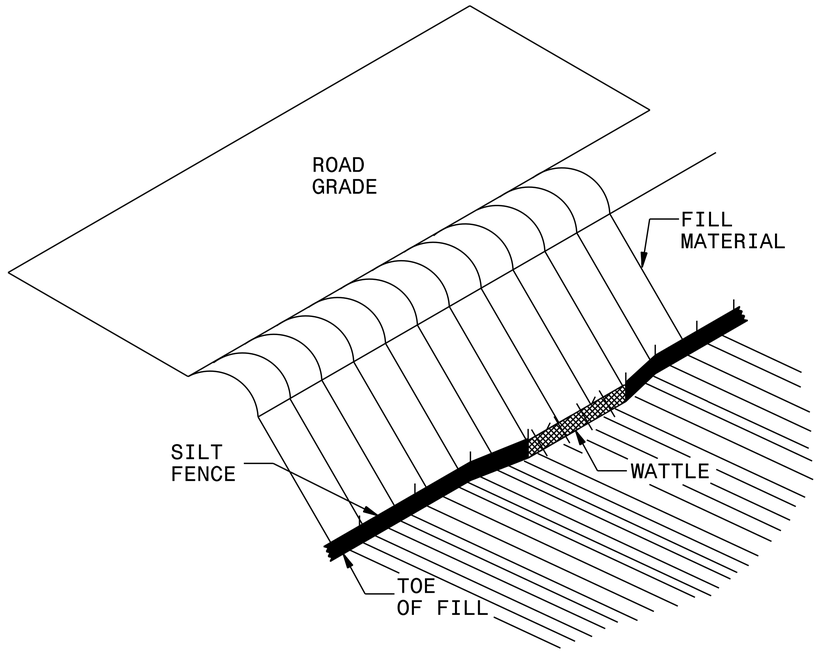




TOP VIEW

SILT FENCE WATTLE BREAK DETAIL

PROJECT REFERENCE NO.	SHEET NO.
R-5719	EC-2C
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



ISOMETRIC VIEW

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR 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.

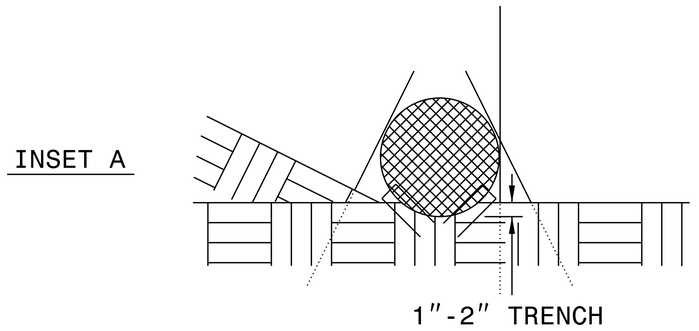
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.

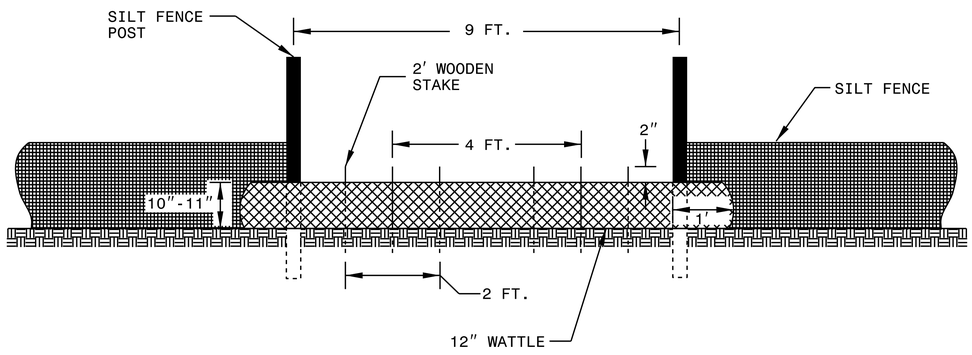
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

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

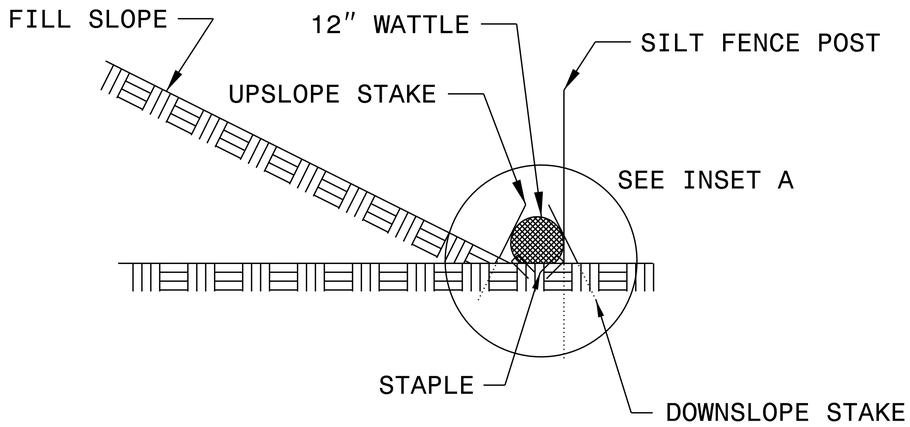
WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.

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





VIEW FROM SLOPE



SIDE VIEW

PROJECT REFERENCE NO.	SHEET NO.
R-5719	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)
7	-RAMP A-	10+00	11+00	RT	539
7	-RAMP D-	11+00	12+00	LT	589
7	-L-	55+00	56+00	LT	559
8	-RAMP D-	10+00	11+00	LT	406
8	-L-	56+00	56+50	LT	268
8	-L-	56+50	58+50	LT	614
8	-L-	58+50	62+50	LT	1818
8	-L-	57+00	63+00	RT	1411
				SUBTOTAL	6204
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					11,666
				TOTAL	17,870
				SAY	17,870

MATTING FOR EROSION CONTROL

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

PROJECT REFERENCE NO.	SHEET NO.
R-5719	EC-3A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

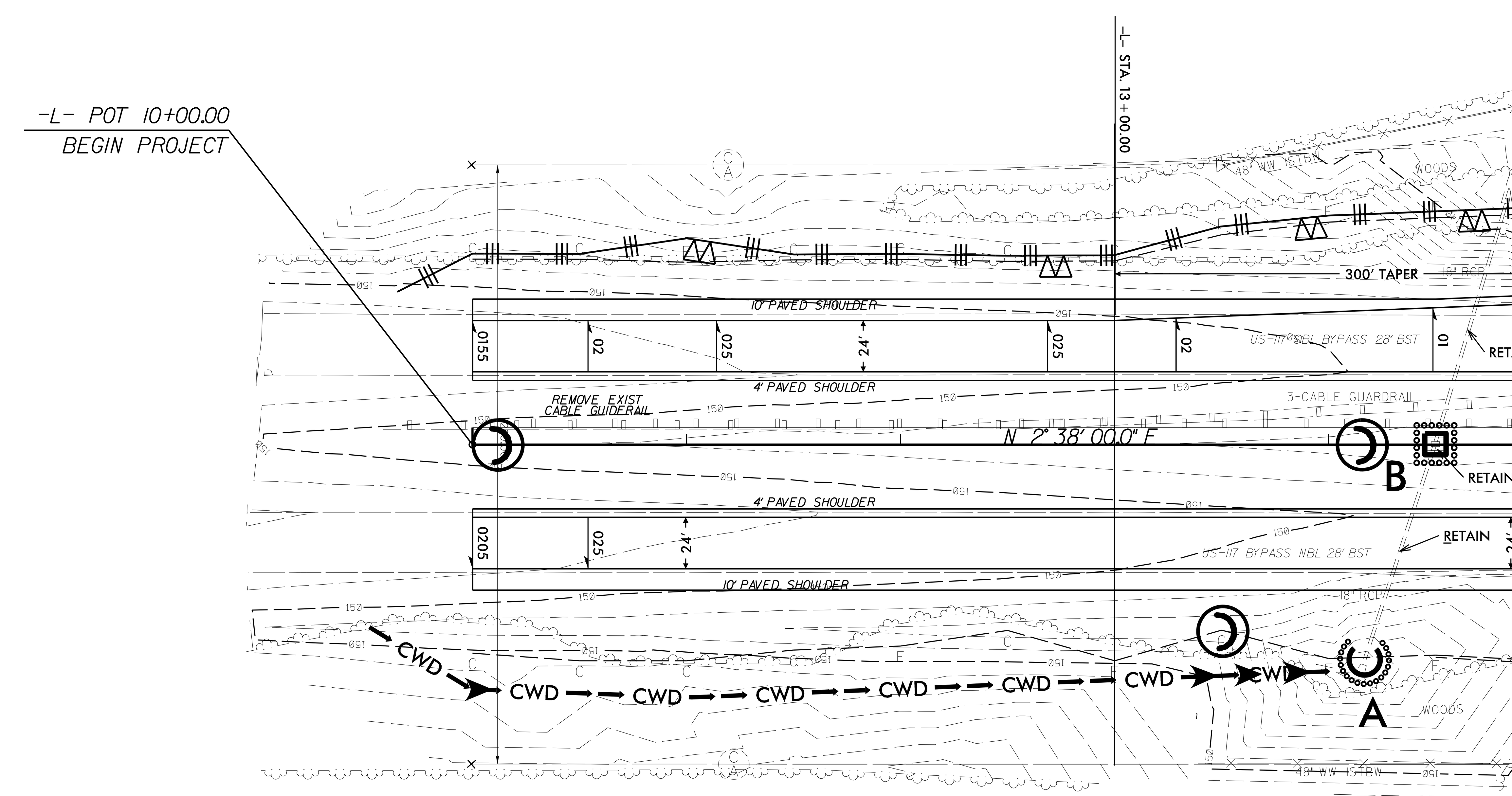
SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

PROJECT REFERENCE NO.	SHEET NO.
R-5719	EC-04/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

NOTE:
SEE SHEETS 11,12,13 FOR -L- RT PROFILE
SEE SHEETS 13,14,15 FOR -L- LT PROFILE

KERMIT SHELTON PRICE
CAROL PRICE KALEEL
DB 1619 PG 663



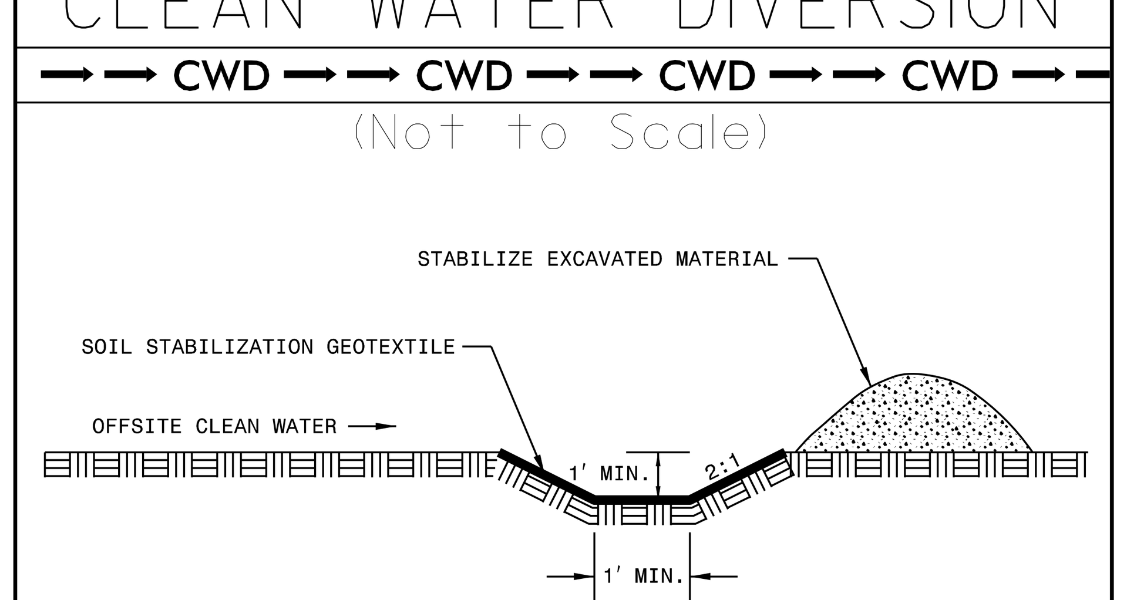
MATCH LINE -L- STA. 15+00 SEE SHEET 5

KERMIT SHELTON PRICE
CAROL PRICE KALEEL
DB 1619 PG 663

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

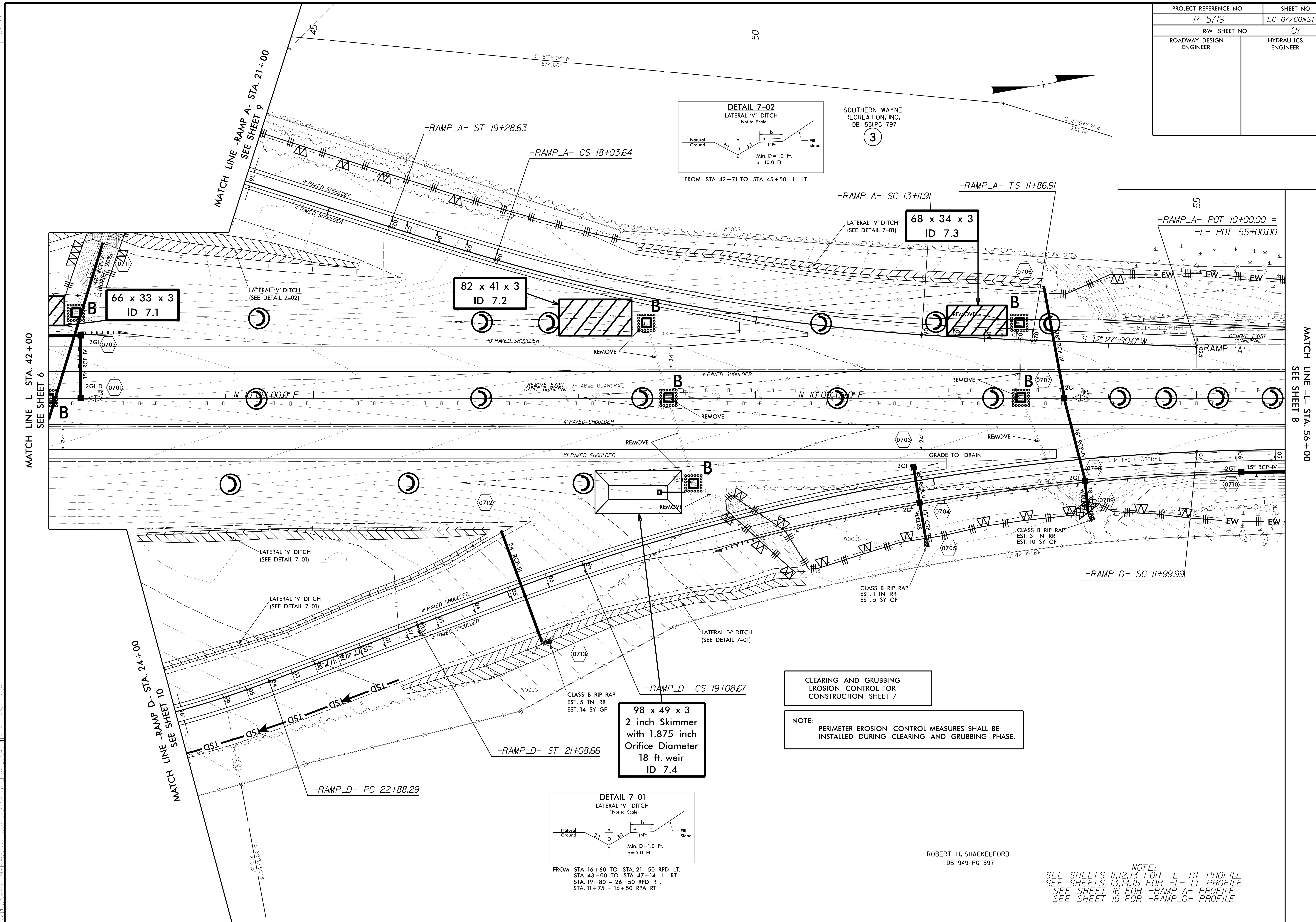
CLEAN WATER DIVERSION




PROJECT REFERENCE NO. R-5719
SHEET NO. EC-05/CONST.05
R/W SHEET NO. 05
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
NOTE:
SEE SHEETS 11,12,13 FOR -L- RT PROFILE
SEE SHEETS 13,14,15 FOR -L- LT PROFILE
SEE SHEET 17 FOR -RAMP_B- PROFILE
SEE SHEET 18 FOR -RAMP_C- PROFILE
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5
NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.
DETAIL 5-03 SPECIAL CUT DITCH w/HINGE (Not to Scale)
FROM STA. 10+50 TO STA. 14+00 RPB LT.
STA. 10+00 TO STA. 13+80 RPC RT.
DETAIL 5-04 LATERAL 'V' DITCH (Not to Scale)
Min. D=1.0 Ft. b=5.0 Ft.
FROM STA. 14+50 TO STA. 18+00 RPB LT.
-L-
PIs Sta 17+68.72
Θs = 0° 45' 00.0"
Ls = 300.00'
LT = 200.00'
ST = 100.00'
PI Sta 24+70.95
Δ = 6° 01' 00.2" (RT)
D = 0° 30' 00.0"
L = 1,203.34'
T = 602.23'
R = 11,459.16'
MARGARET K. PRICE DB 085E PG 663
CLEAN WATER DIVERSION
CWD CWD CWD CWD
(Not to Scale)
STABILIZE EXCAVATED MATERIAL
SOIL STABILIZATION GEOTEXTILE
OFFSITE CLEAN WATER
1' MIN.
-RAMP_B-
PIs Sta 13+12.26
Θs = 2° 17' 30.6"
Ls = 200.00'
LT = 133.34'
ST = 66.68'
PI Sta 16+31.37
Δ = 11° 31' 58.2" (LT)
D = 2° 17' 30.6"
L = 503.21'
T = 252.46'
R = 2,500.00'
SE = 07
-RAMP_B- POT 10+00.00 = -L- POC 20+96.59
-RAMP_B- TS 11+78.91
-RAMP_B- SC 13+78.91
CLASS I RIP RAP EST. 11 TN. RR EST. 22 SY GF
CLASS B RIP RAP EST. 3 TN RR EST. 10 SY GF
SPECIAL CUT DITCH W/HINGE (SEE DETAIL 5-03)
LATERAL 'V' DITCH (SEE DETAIL 5-04)
MATCH LINE -RAMP_B- STA. 18+00 SEE SHEET 6
MATCH LINE -L- STA. 15+00 SEE SHEET 4
MATCH LINE -L- STA. 29+00 SEE SHEET 6
MATCH LINE -RAMP_C- STA. 16+50 SEE SHEET 6
REMOVE 23'-30" RCP
FLOWABLE FILL
REMOVE 31'-30" RCP
REMOVE DI & 31'-30" RCP
SPECIAL MEDIAN DITCH (SEE DETAIL 5-02)
REMOVE EXIST CABLE GUIDERAIL
4' PAVED SHOULDER
10' PAVED SHOULDER
N 2° 38' 00.0" E
N 7° 20' 23.1" E
70 x 35 x 3 ID 12.1
92 x 46 x 3 2 inch Skimmer with 1.75 inch Orifice Diameter 16 ft. weir ID 5.2
SPECIAL CUT DITCH W/HINGE (SEE DETAIL 5-01)
-L- TS 15+68.72
-L- SC 18+68.72
-RAMP_C- POT 10+00.00 = -L- POC 22+00.00
-RAMP_C- SC 13+08.66
-RAMP_C- TS 11+58.66
JACKIE L. GRAHAM DB 2937 PG 299
JACKIE L. GRAHAM & BRENDA P. GRAHAM DB 1244 PG 174 PC F PG 130
MARGARET K. PRICE DB 085E PG 663
KERMIT SHELTON PRICE CAROL PRICE KALEEL DB 1619 PG 663
DETAIL 5-02 MEDIAN V DITCH (Not to Scale)
FROM STA. 22+00 TO STA. 22+50 -L-
DETAIL 5-01 SPECIAL CUT DITCH w/HINGE (Not to Scale)
Min. D=1.0 Ft.
FROM STA. 15+00 TO STA. 20+50 -L- RT.
MARGARET K. PRICE DB 085E PG 663 PC M SLIDE 78J
-RAMP_C-
PIs Sta 12+58.67
Θs = 1° 52' 30.0"
Ls = 150.00'
LT = 100.01'
ST = 50.01'
PI Sta 16+46.65
Δ = 16° 46' 42.7" (RT)
D = 2° 30' 00.0"
L = 671.14'
T = 337.99'
R = 2,291.83'
SE = 06
REVISIONS


PROJECT REFERENCE NO. R-5719
SHEET NO. EC-06/CONST.06
R/W SHEET NO. 06
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
DETAIL 6-02
LATERAL 'V' DITCH (Not to Scale)
Min. D=1.0 Ft.
b=5.0 Ft.
FROM STA. 18+00 TO STA. 20+50 RPB LT.
STA. 21+50 TO STA. 26+50 RPB RT.
STA. 13+80 TO STA. 21+50 RPC RT.
DETAIL 6-01
LATERAL 'V' DITCH (Not to Scale)
Min. D=Varies 1.0 Ft. to 0 Ft.
Max. d=1.0 Ft.
b=Varies 5.0 Ft. to 26.0 Ft.
Type of Liner=CL B Rip-Rap
FROM STA. 23+70 TO STA. 24+50 RPB LT.
DETAIL 6-03
LATERAL BASE DITCH (Not to Scale)
Min. D=1.0 Ft.
B=2.0 Ft.
b=10.0 Ft.
FROM STA. 37+50 TO STA. 39+29 -L- LT.
STA. 40+15 TO STA. 42+60 -L- LT.
DETAIL 6-04
LATERAL 'V' DITCH (Not to Scale)
Min. D=1.0 Ft.
b=10.0 Ft.
FROM STA. 30+50 TO STA. 37+50 -L- LT.
STA. 33+00 TO STA. 37+50 -L- RT.
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 6
NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.
KENNETH EARL JOYNER DB 1348 PG 844
JOHN RICHARD BELL III & WIFE DB 1213 PG 422 PC F SLIDE 182
CHRISTOPHER WORTH & WIFE BRANDI WORTH DB 2065 PG 580
HAYWOOD G. CUMMINGS & MEV P. W DB 1213 PG 425
70 x 35 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
9 ft. weir
ID 6.5
78 x 39 x 3
2 inch Skimmer
with 1.625 inch
Orifice Diameter
11 ft. weir
ID 6.4
EASEMENT FOR TEMPORARY EROSION CONTROL DEVICE
-RAMP B- 24+00.00 84.27'/100.00' LT
-RAMP B- 23+60.00 85.01'/100.00' LT
CLASS B RIP RAP EST. 30 TN RR EST. 68 SY GF
MATCH LINE -RAMP B- STA. 27+00 SEE SHEET 9
1200 / 1500
300 / 500
600 / 900
13200 / 26000
14400 / 27700
400 / 600
1300 / 1900
2000 / 2600
ADT 2015
ADT 2040
MARGARET K. PRICE DB 085E PG 663
-RAMP_B- ST 20+82.12
-RAMP_B- CS 18+82.13
MATCH LINE -RAMP B- STA. 18+00 SEE SHEET 5
-RAMP B-
PIs Sta 19+48.80
Θs = 2°17' 30.2"
Ls = 199.99'
LT = 133.34'
ST = 66.67'
PI Sta 25+73.52
Δ = 27°27' 47.1" (RT)
D = 5°12' 31.3"
L = 527.25'
T = 268.79'
R = 1,100.00'
SE = .06
RUNOFF = 165'
66 x 33 x 3
ID 6.3
MATCH LINE -Y 1- STA. 17+50 SEE SHEET 9
CLASS B RIP RAP EST. 5 TN RR EST. 14 SY GF
-L-
PIs Sta 31+72.06
Θs = 0°44' 59.8"
Ls = 299.98'
LT = 199.99'
ST = 99.99'
66 x 33 x 3
ID 7.1
MATCH LINE -L- STA. 29+00 SEE SHEET 5
MATCH LINE -L- STA. 42+00 SEE SHEET 7
N 10°09'00.0" E
3-CABLE GUARDRAIL
-L- CS 30+72.06
-L- ST 33+72.04
62 x 31 x 3
ID 6.1
80 x 35 x 3
ID 6.2
-L- POT 39+11.12
-Y_1- POT 20+00.00
MATCH LINE -Y 1- STA. 22+00 SEE SHEET 10
-RAMP_C- CS 19+79.80
-RAMP_C- ST 21+29.79
CLASS I RIP RAP EST. 11 TN RR EST. 22 SY GF
MATCH LINE -RAMP C- STA. 16+50 SEE SHEET 5
MATCH LINE -RAMP C- STA. 23+00 SEE SHEET 10
TESSIE S. PIERCE DB 848 PG 391 PC F PG 130
108 x 54 x 3
2.5 inch Skimmer
with 2.125 inch
Orifice Diameter
22 ft. weir
ID 13.6
-RAMP C-
PIs Sta 20+29.80
Θs = 1°52' 29.6"
Ls = 149.99'
LT = 100.00'
ST = 50.00'
JAMES T. LOGAN DB 1296 PG 326
XEON ENTERPRISES INC. DB 2626 PG 824
REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-5719	EC-07/CONST.07
R/W SHEET NO.	07
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE -RAMP_A- STA. 21+00 SEE SHEET 9
MATCH LINE -L- STA. 42+00 SEE SHEET 6
MATCH LINE -L- STA. 56+00 SEE SHEET 8
MATCH LINE -RAMP_D- STA. 24+00 SEE SHEET 10
DETAIL 7-02
LATERAL 'V' DITCH
(Not to Scale)
Natural Ground
Fill Slope
Min. D=1.0 Ft.
b=10.0 Ft.
FROM STA. 42+71 TO STA. 45+50 -L- LT
SOUTHERN WAYNE RECREATION, INC.
DB 1551PG 797
3
S 15°29'04" W
834.60'
S 27°04'57" W
252.81'
-RAMP_A- ST 19+28.63
-RAMP_A- CS 18+03.64
-RAMP_A- SC 13+11.91
-RAMP_A- TS 11+86.91
-RAMP_A- POT 10+00.00 =
-L- POT 55+00.00
68 x 34 x 3
ID 7.3
82 x 41 x 3
ID 7.2
66 x 33 x 3
ID 7.1
LATERAL 'V' DITCH
(SEE DETAIL 7-02)
LATERAL 'V' DITCH
(SEE DETAIL 7-01)
4' PAVED SHOULDER
10' PAVED SHOULDER
WOODS
REMOVE
REMOVE EXIST CABLE GUIDERAIL
3-CABLE GUARDRAIL
N 10°03'00.0" E
S 12°27'00.0" W
RAMP 'A'
METAL GUARDRAIL
REMOVE EXIST GUARDRAIL
48" WW ISTBW
GRADE TO DRAIN
2GI
2GI-D
15" RCP-IV
18" RCP-IV
24" RCP-III
48" RCP-V (BURIED 20%)
0701
0702
0703
0704
0705
0706
0707
0708
0709
0710
0711
0712
0713
CLASS B RIP RAP
EST. 3 TN RR
EST. 10 SY GF
CLASS B RIP RAP
EST. 1 TN RR
EST. 5 SY GF
CLASS B RIP RAP
EST. 5 TN RR
EST. 14 SY GF
-RAMP_D- SC 11+99.99
-RAMP_D- CS 19+08.67
-RAMP_D- ST 21+08.66
-RAMP_D- PC 22+88.29
98 x 49 x 3
2 inch Skimmer
with 1.875 inch
Orifice Diameter
18 ft. weir
ID 7.4
TSD
EW
DETAIL 7-01
LATERAL 'V' DITCH
(Not to Scale)
Natural Ground
Fill Slope
Min. D=1.0 Ft.
b=5.0 Ft.
FROM STA. 16+60 TO STA. 21+50 RPD LT.
STA. 43+00 TO STA. 47+14 -L- RT.
STA. 19+80 - 26+50 RPD RT.
STA. 11+75 - 16+50 RPA RT.
ROBERT H. SHACKELFORD
DB 949 PG 597
REVISIONS

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

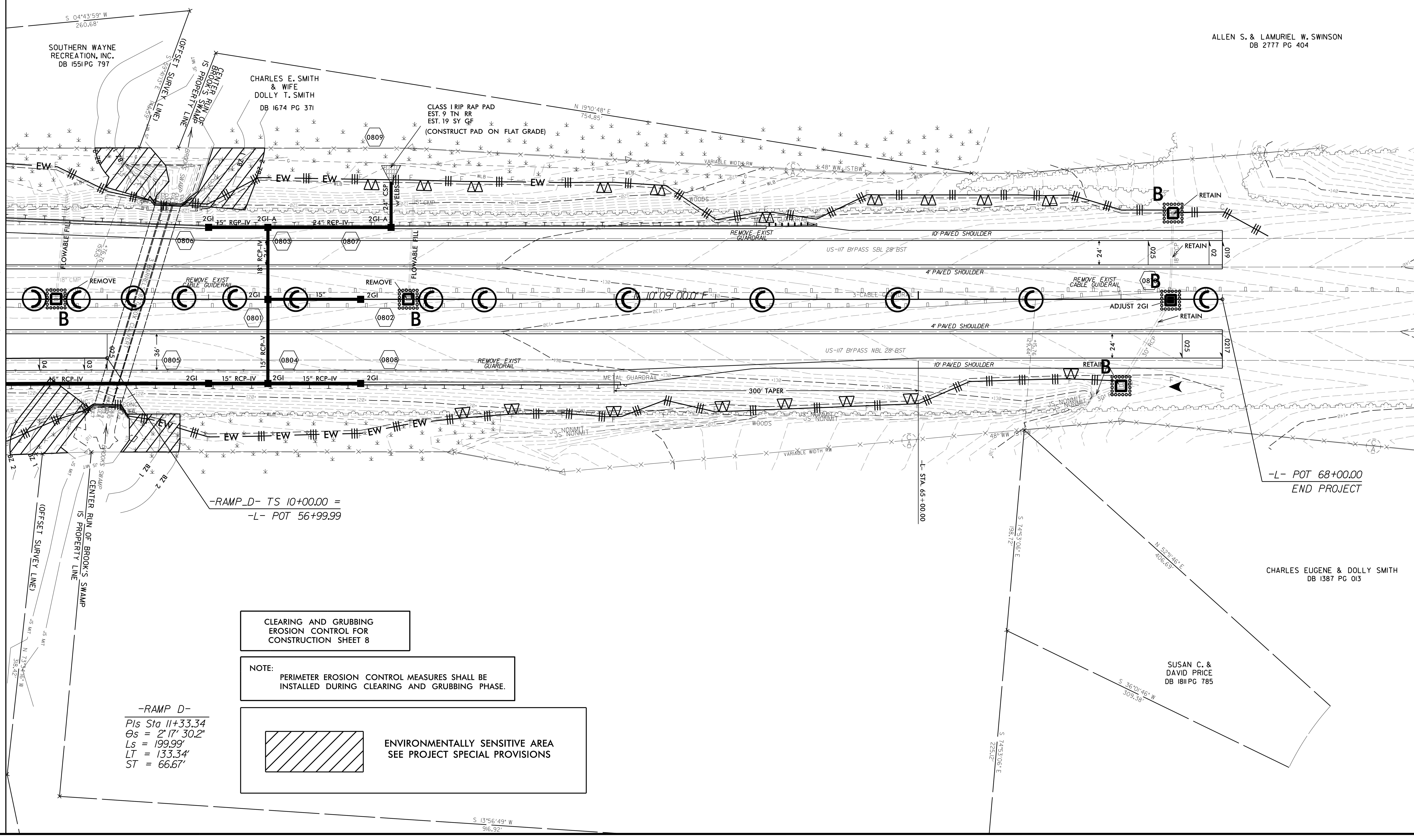
NOTE:
SEE SHEETS 11,12,13 FOR -L- RT PROFILE
SEE SHEETS 13,14,15 FOR -L- LT PROFILE
SEE SHEET 16 FOR -RAMP_A- PROFILE
SEE SHEET 19 FOR -RAMP_D- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
R-5719	EC-08/CONST.08
R/W SHEET NO.	08
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:
SEE SHEETS 11,12,13 FOR -L- RT PROFILE
SEE SHEETS 13,14,15 FOR -L- LT PROFILE

REVISIONS

MATCH LINE -L- STA. 56+00
SEE SHEET 7



60
65
SOUTHERN WAYNE RECREATION, INC. DB 1551 PG 797
(OFFSET SURVEY LINE)
CENTER RUN OF BROOK'S SWAMP IS PROPERTY LINE
CHARLES E. SMITH & WIFE DOLLY T. SMITH DB 1674 PG 371
CLASS I RIP RAP PAD EST. 9 TN RR EST. 19 SY GF (CONSTRUCT PAD ON FLAT GRADE)
ALLEN S. & LAMURIEL W. SWINSON DB 2777 PG 404
REMOVE EXIST GUARDRAIL
US-117 BYPASS SBL 28' BST
US-117 BYPASS NBL 28' BST
10' PAVED SHOULDER
4' PAVED SHOULDER
REMOVE EXIST CABLE GUIDERAIL
FLOWABLE FILL
ADJUST 2GI
RETAIN
REMOVE
300' TAPER
WOODS
-RAMP_D- TS 10+00.00 = -L- POT 56+99.99
-L- STA. 65+00.00
-L- POT 68+00.00 END PROJECT
CHARLES EUGENE & DOLLY SMITH DB 1387 PG 013
SUSAN C. & DAVID PRICE DB 1811 PG 785

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

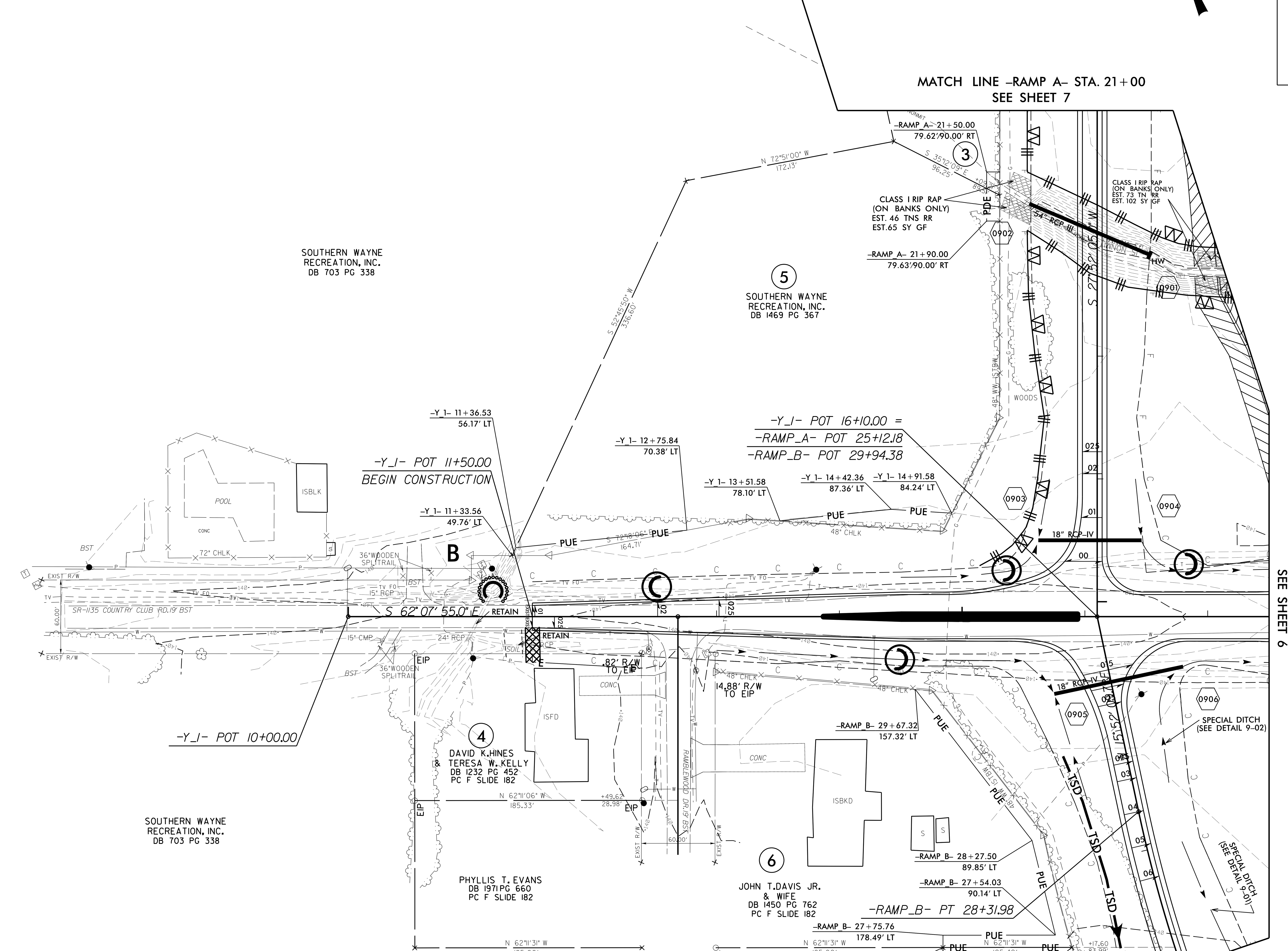
-RAMP D-
PIs Sta 11+33.34
Θs = 2° 17' 30.2"
Ls = 199.99'
LT = 133.34'
ST = 66.67'

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

PROJECT REFERENCE NO.	SHEET NO.
R-5719	EC-09/CONST.09
R/W SHEET NO.	09
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

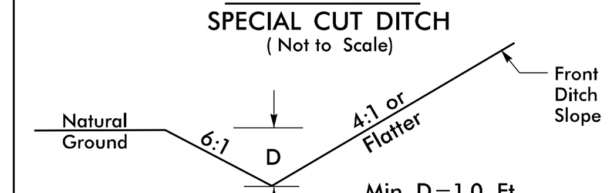
REVISIONS



MATCH LINE -RAMP A- STA. 21+00
SEE SHEET 7
MATCH LINE -Y 1- STA. 17+50
SEE SHEET 6
MATCH LINE -RAMP B- STA. 27+00
SEE SHEET 6
SOUTHERN WAYNE RECREATION, INC. DB 703 PG 338
5 SOUTHERN WAYNE RECREATION, INC. DB 1469 PG 367
4 DAVID K.HINES & TERESA W.KELLY DB 1232 PG 452 PC F SLIDE 182
SOUTHERN WAYNE RECREATION, INC. DB 703 PG 338
PHYLLIS T. EVANS DB 1971 PG 660 PC F SLIDE 182
6 JOHN T.DAVIS JR. & WIFE DB 1450 PG 762 PC F SLIDE 182
HAYWOOD G. CUMMINGS & WIFE DB 1182 PG 889 PC F SLIDE 182
HAYWOOD G. CUMMINGS & MEV P. W DB 1213 PG 425
-Y_1- POT 11+50.00
BEGIN CONSTRUCTION
-Y_1- POT 10+00.00
-Y_1- POT 16+10.00 =
-RAMP_A- POT 25+12.18
-RAMP_B- POT 29+94.38
-RAMP_B- PT 28+31.98
S 62° 07' 55.0" E
SR-1135 COUNTRY CLUB RD.
CLASS I RIP RAP (ON BANKS ONLY) EST. 46 TNS RR EST. 65 SY GF
CLASS I RIP RAP (ON BANKS ONLY) EST. 73 TN RR EST. 102 SY GF
SPECIAL DITCH (SEE DETAIL 9-02)
SPECIAL DITCH (SEE DETAIL 9-01)
18" RCP-IV
RETAIN
TSD
PUE

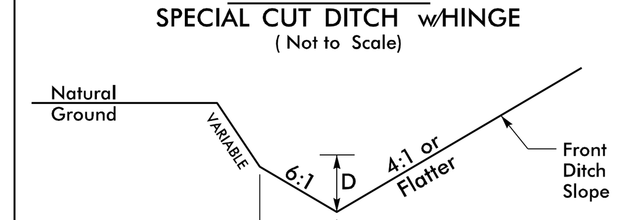
-RAMP B-
PI Sta 25+73.52
Δ = 27° 27' 47.1" (RT)
D = 5° 12' 31.3"
L = 527.25'
T = 268.79'
R = 1,100.00'
SE = .06
RUNOFF = 165'

DETAIL 9-01
SPECIAL CUT DITCH
(Not to Scale)



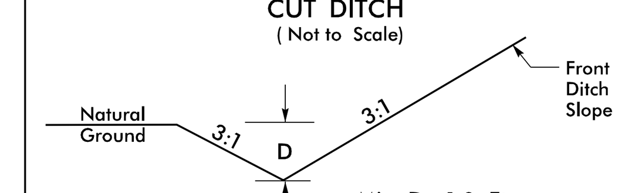
FROM STA. 27+00 TO STA. 28+00 RPB RT.
STA. 24+00 TO STA. 24+50 RPA RT.
STA. 24+00 TO STA. 24+50 RPA LT.

DETAIL 9-02
SPECIAL CUT DITCH w/HINGE
(Not to Scale)



FROM STA. 28+50 TO STA. 29+40 RPB RT.
STA. 28+50 TO STA. 29+50 RPB LT.

DETAIL 9-03
CUT DITCH
(Not to Scale)



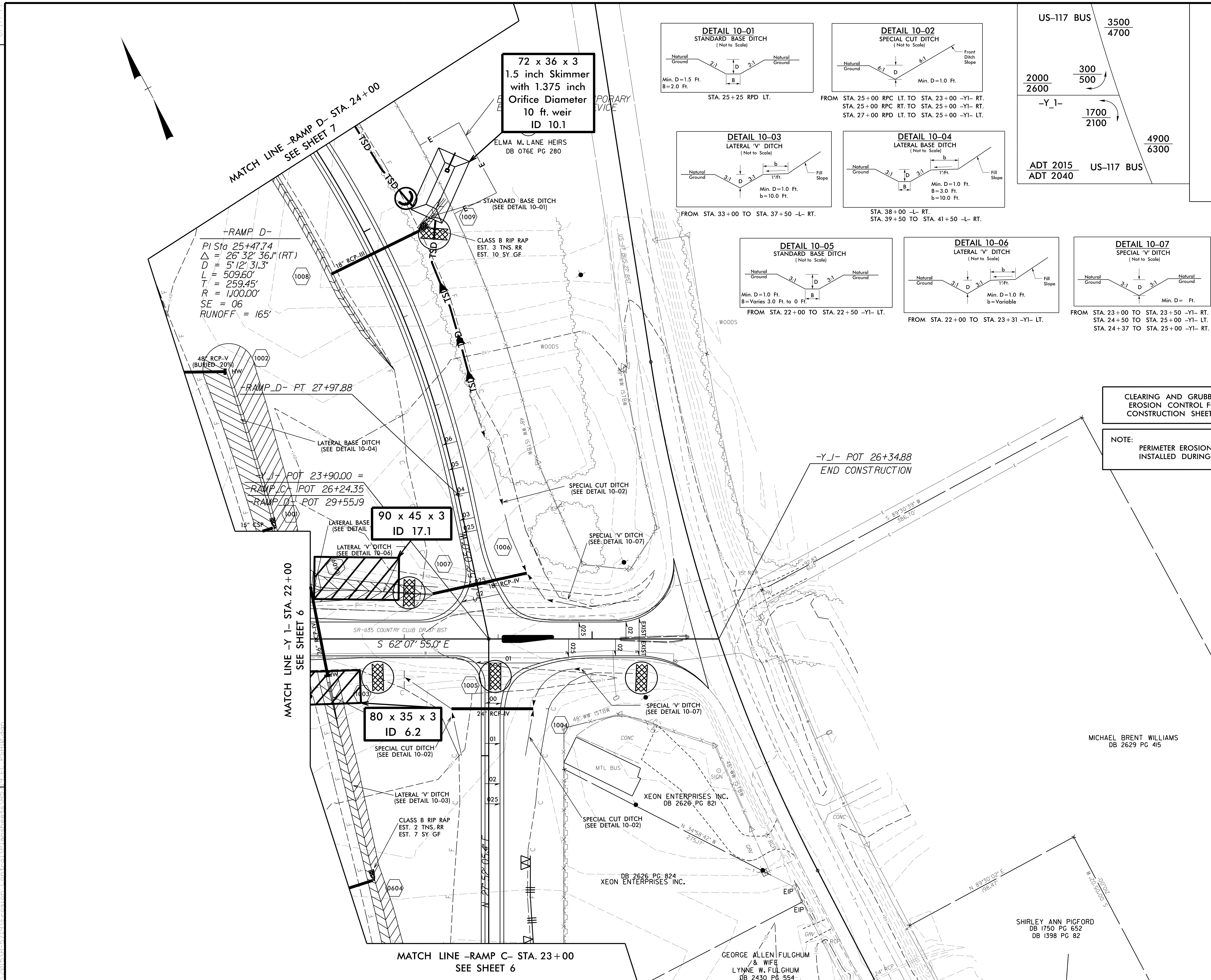
FROM STA. 13+00 TO STA. 15+70 -Y1- RT.
STA. 14+50 TO STA. 15+62 -Y1- LT.
STA. 16+46 TO STA. 18+30 -Y1- LT.
STA. 16+80 TO STA. 18+90 -Y1- RT.

PROJECT REFERENCE NO.	SHEET NO.
R-5719	EC-10/CONST.10
R/W SHEET NO.	10
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.



US-117 BUS
3500
4700
2000
2600
300
500
-Y_1-
1700
2100
4900
6300
ADT 2015
ADT 2040
US-117 BUS
DETAIL 10-01
STANDARD BASE DITCH
(Not to Scale)
Natural Ground
Min. D=1.5 Ft.
B=2.0 Ft.
STA. 25+25 RPD LT.
DETAIL 10-02
SPECIAL CUT DITCH
(Not to Scale)
Front Ditch Slope
Min. D=1.0 Ft.
FROM STA. 25+00 RPC LT. TO STA. 23+00 -Y1- RT.
STA. 25+00 RPC RT. TO STA. 25+00 -Y1- RT.
STA. 27+00 RPD LT. TO STA. 25+00 -Y1- LT.
DETAIL 10-03
LATERAL 'V' DITCH
(Not to Scale)
Fill Slope
Min. D=1.0 Ft.
b=10.0 Ft.
FROM STA. 33+00 TO STA. 37+50 -L- RT.
DETAIL 10-04
LATERAL BASE DITCH
(Not to Scale)
Min. D=1.0 Ft.
B=3.0 Ft.
b=10.0 Ft.
STA. 38+00 -L- RT.
STA. 39+50 TO STA. 41+50 -L- RT.
DETAIL 10-05
STANDARD BASE DITCH
(Not to Scale)
Min. D=1.0 Ft.
B=Varies 3.0 Ft. to 0 Ft.
FROM STA. 22+00 TO STA. 22+50 -Y1- LT.
DETAIL 10-06
LATERAL 'V' DITCH
(Not to Scale)
Min. D=1.0 Ft.
b=Variable
FROM STA. 22+00 TO STA. 23+31 -Y1- LT.
DETAIL 10-07
SPECIAL 'V' DITCH
(Not to Scale)
Min. D= Ft.
FROM STA. 23+00 TO STA. 23+50 -Y1- RT.
STA. 24+50 TO STA. 25+00 -Y1- LT.
STA. 24+37 TO STA. 25+00 -Y1- RT.
MATCH LINE -RAMP D- STA. 24+00
SEE SHEET 7
72 x 36 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
10 ft. weir
ID 10.1
ELMA M. LANE HEIRS
DB 076E PG 280
STANDARD BASE DITCH
(SEE DETAIL 10-01)
CLASS B RIP RAP
EST. 3 TNS. RR
EST. 10 SY GF
-RAMP D-
PI Sta 25+47.74
Δ = 26° 32' 36.1" (RT)
D = 5° 12' 31.3"
L = 509.60'
T = 259.45'
R = 1,100.00'
SE = .06
RUNOFF = 165'
48" RCP-V
(BURIED 20%)
-RAMP_D- PT 27+97.88
LATERAL BASE DITCH
(SEE DETAIL 10-04)
-Y_1- POT 23+90.00 =
-RAMP_C- POT 26+24.35
-RAMP_D- POT 29+55.19
90 x 45 x 3
ID 17.1
LATERAL 'V' DITCH
(SEE DETAIL 10-06)
SPECIAL CUT DITCH
(SEE DETAIL 10-02)
SPECIAL 'V' DITCH
(SEE DETAIL 10-07)
WOODS
SR-1935 COUNTRY CLUB DR.
S 62° 07' 55.0" E
MATCH LINE -Y 1- STA. 22+00
SEE SHEET 6
80 x 35 x 3
ID 6.2
SPECIAL CUT DITCH
(SEE DETAIL 10-02)
LATERAL 'V' DITCH
(SEE DETAIL 10-03)
CLASS B RIP RAP
EST. 2 TNS. RR
EST. 7 SY GF
SPECIAL 'V' DITCH
(SEE DETAIL 10-07)
MTL BUS
XEON ENTERPRISES INC.
DB 2626 PG 821
SPECIAL CUT DITCH
(SEE DETAIL 10-02)
DB 2626 PG 824
XEON ENTERPRISES INC.
GEORGE ALLEN FULGHUM
& WIFE
LYNNE W. FULGHUM
DB 2430 PG 554
-Y_1- POT 26+34.88
END CONSTRUCTION
ELMA M. LANE HEIRS
DB 076E PG 280
MICHAEL BRENT WILLIAMS
DB 2629 PG 415
SHIRLEY ANN PIGFORD
DB 1750 PG 652
DB 1398 PG 82
MATCH LINE -RAMP C- STA. 23+00
SEE SHEET 6

PROJECT REFERENCE NO.	SHEET NO.
R-5719	EC-11/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

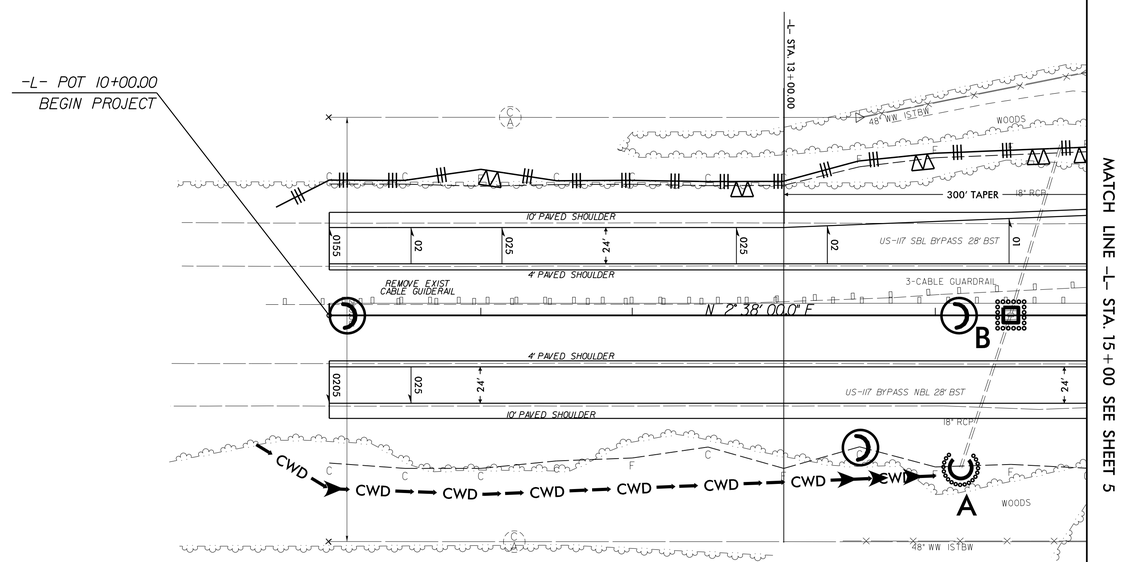
NOTE:
SEE SHEETS 11,12,13 FOR -L- RT PROFILE
SEE SHEETS 13,14,15 FOR -L- LT PROFILE

10

KERMIT SHELTON PRICE
CAROL PRICE KALEEL
DB 1619 PG 663

15

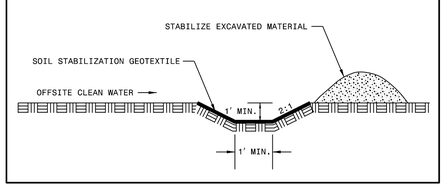
MATCH LINE -L- STA. 15+00 SEE SHEET 5



CLEAN WATER DIVERSION

CWD → CWD → CWD → CWD →

(Not to Scale)



KERMIT SHELTON PRICE
CAROL PRICE KALEEL
DB 1619 PG 663

REVISIONS

8/17/99

2/7/2017
8:46:41 AM
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PROJECT REFERENCE NO. R-5719
SHEET NO. EC-12/CONST.05
R/W SHEET NO. 05
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
NOTE:
SEE SHEETS 11,12,13 FOR -L- RT PROFILE
SEE SHEETS 13,14,15 FOR -L- LT PROFILE
SEE SHEET 17 FOR -RAMP_B- PROFILE
SEE SHEET 18 FOR -RAMP_C- PROFILE
-L-
PIs Sta 17+68.72
Θs = 0° 45' 00.0"
Ls = 300.00'
LT = 200.00'
ST = 100.00'
PI Sta 24+70.95
Δ = 6° 01' 00.2" (RT)
D = 0° 30' 00.0"
L = 1,203.34'
T = 602.23'
R = 11,459.16'
MARGARET K. PRICE
DB 085E PG 663
DETAIL 5-03
SPECIAL CUT DITCH w/HINGE
(Not to Scale)
Natural Ground
6:1 or Flatter
Front Ditch Slope
Min. D = 1.0 Ft.
FROM STA. 10+50 TO STA. 14+00 RPB LT.
STA. 10+00 TO STA. 13+80 RPC RT.
DETAIL 5-04
LATERAL 'V' DITCH
(Not to Scale)
Fill Slope
Min. D = 1.0 Ft.
b = 5.0 Ft.
FROM STA. 14+50 TO STA. 18+00 RPB LT.
CLEAN WATER DIVERSION
CWD CWD CWD CWD
(Not to Scale)
STABILIZE EXCAVATED MATERIAL
SOIL STABILIZATION GEOTEXTILE
OFFSITE CLEAN WATER
1' MIN.
-RAMP_B-
PIs Sta 13+12.26
Θs = 2° 17' 30.6"
Ls = 200.00'
LT = 133.34'
ST = 66.68'
PI Sta 16+31.37
Δ = 11° 31' 58.2" (LT)
D = 2° 17' 30.6"
L = 503.21'
T = 252.46'
R = 2,500.00'
SE = 07
-RAMP_B- 10+03.00 87.00'/96.00' LT
-RAMP_B- 10+29.00 88.26'/96.00' LT
-RAMP_B- POT 10+00.00 = -L- POC 20+96.59
74 x 37 x 3 ID 12.2
CLASS I RIP RAP EST. 11 TN. RR EST. 22 SY GF
-RAMP_B- TS 11+78.91
-RAMP_B- SC 13+78.91
SPECIAL CUT DITCH W/HINGE (SEE DETAIL 5-03)
LATERAL 'V' DITCH (SEE DETAIL 5-04)
CLASS B RIP RAP EST. 3 TN RR EST. 10 SY GF
60 x 30 x 2 ID 12.3
MATCH LINE -RAMP B- STA. 18+00 SEE SHEET 6
MATCH LINE -L- STA. 29+00 SEE SHEET 6
MATCH LINE -RAMP C- STA. 16+50 SEE SHEET 6
MATCH LINE -L- STA. 15+00 SEE SHEET 4
WOODS
PDE
REMOVE
REMOVE 23'-30" RCP
FLOWABLE FILL
4' PAVED SHOULDER
10' PAVED SHOULDER
3-CABLE GUARDRAIL
N 2° 38' 00.0" E
N 4° 31' 29.5" E
N 7° 20' 23.1" E
SPECIAL MEDIAN DITCH (SEE DETAIL 5-02)
REMOVE EXIST CABLE GUIDERAIL
SPECIAL CUT DITCH W/HINGE (SEE DETAIL 5-01)
-L- TS 15+68.72
-L- SC 18+68.72
70 x 35 x 3 ID 12.1
SPECIAL CUT DITCH W/HINGE (SEE DETAIL 5-03)
-RAMP_C- POT 10+00.00 = -L- POC 22+00.00
-RAMP_C- SC 13+08.66
-RAMP_C- TS 11+58.66
JACKIE L. GRAHAM DB 2937 PG 299
JACKIE L. GRAHAM & BRENDA P. GRAHAM DB 1244 PG 174 PC F PG 130
MARGARET K. PRICE DB 085E PG 663
KERMIT SHELTON PRICE CAROL PRICE KALEEL DB 1619 PG 663
DETAIL 5-02
MEDIAN V DITCH
(Not to Scale)
Shoulder Point
4:1 or Flatter
FROM STA. 22+00 TO STA. 22+50 -L-
DETAIL 5-01
SPECIAL CUT DITCH w/HINGE
(Not to Scale)
Natural Ground
6:1 or Flatter
Front Ditch Slope
Min. D = 1.0 Ft.
FROM STA. 15+00 TO STA. 20+50 -L- RT.
MARGARET K. PRICE DB 085E PG 663 PC M SLIDE 78J
-RAMP_C-
PIs Sta 12+58.67
Θs = 1° 52' 30.0"
Ls = 150.00'
LT = 100.01'
ST = 50.01'
PI Sta 16+46.65
Δ = 16° 46' 42.7" (RT)
D = 2° 30' 00.0"
L = 671.14'
T = 337.99'
R = 2,291.83'
SE = 06
REVISIONS

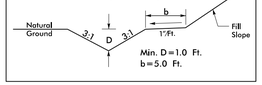
8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-5719	EC-13/CONST.06
R/W SHEET NO.	06
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

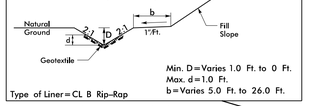
1200 / 1500
-Y_1-
13200 / 26000 -L- 300 / 500
600 / 900 14400 / 27700
-L-
400 / 600
1300 / 1900
-Y_1-
2000 / 2600
ADT 2015
ADT 2040

DETAIL 6-02
LATERAL 'V' DITCH
(Not to Scale)



FROM STA. 18+00 TO STA. 20+50 RPB LT.
STA. 21+50 TO STA. 26+50 RPB RT.
STA. 13+80 TO STA. 21+50 RPC RT.

DETAIL 6-01
LATERAL 'V' DITCH
(Not to Scale)



FROM STA. 23+70 TO STA. 24+50 RPB LT.

DETAIL 6-03
LATERAL BASE DITCH
(Not to Scale)

FROM STA. 37+50 TO STA. 39+29 -L- LT.
STA. 40+15 TO STA. 42+60 -L- LT.

DETAIL 6-04
LATERAL 'V' DITCH
(Not to Scale)

FROM STA. 30+50 TO STA. 37+50 -L- LT.
STA. 33+00 TO STA. 37+50 -L- RT.

KENNETH EARL JOYNER
DB 1348 PG 844
PC F SLIDE 182

JOHN RICHARD BELL III & WIFE
DB 1213 PG 422
PC F SLIDE 182

CHRISTOPHER WORTH & WIFE BRANDI WORTH
DB 2065 PG 580

HAYWOOD G. CUMMINGS & WIFE MELVA W.
DB 823 PG 425

MARGARET K. PRICE
DB 085E PG 663

TESSIE S. PIERCE
DB 848 PG 391
PC F PG 130

JAMES T. LOGAN
DB 1296 PG 326

XEON ENTERPRISES INC.
DB 2626 PG 824

EASEMENT FOR TEMPORARY EROSION CONTROL DEVICE

-RAMP_B- 24+00.00
84.27/100.00' LT

-RAMP_B- 23+60.00
85.01/100.00' LT
LATERAL 'V' DITCH
(SEE DETAIL 6-01)

-RAMP_B- PC 23+04.73

-RAMP_B- ST 20+82.12

-RAMP_B- CS 18+82.13

-L- CS 30+72.06

-RAMP_C- CS 19+79.83

-RAMP_C- ST 20+89.79

-L- ST 33+72.04

-L- POT 39+11.12

-Y_1- POT 20+00.00

CLASS B RIP RAP
EST. 30 TN RR
EST. 68 SY GF

CLASS B RIP RAP
EST. 5 TN RR
EST. 14 SY GF

CLASS B RIP RAP
EST. 8 TN RR
EST. 21 SY GF

CLASS I RIP RAP
EST. 11 TN RR
EST. 22 SY GF

58 x 29 x 3
ID 13.4

56 x 28 x 3
ID 13.3

106 x 53 x 3
2.5 inch Skimmer
with 2.375 inch
Orifice Diameter
42 ft. weir
ID 13.1

62 x 31 x 3
ID 13.5

108 x 54 x 3
2.5 inch Skimmer
with 2.125 inch
Orifice Diameter
22 ft. weir
ID 13.6

LATERAL 'V' DITCH
(SEE DETAIL 6-02)

LATERAL 'V' DITCH
(SEE DETAIL 6-04)

LATERAL BASE DITCH
(SEE DETAIL 6-03)

MATCH LINE -RAMP B- STA. 27+00
SEE SHEET 9

MATCH LINE -Y 1- STA. 17+50
SEE SHEET 9

MATCH LINE -RAMP B- STA. 18+00
SEE SHEET 5

MATCH LINE -L- STA. 29+00
SEE SHEET 5

MATCH LINE -RAMP C- STA. 16+50
SEE SHEET 5

MATCH LINE -RAMP C- STA. 23+00
SEE SHEET 10

MATCH LINE -Y 1- STA. 22+00
SEE SHEET 10

MATCH LINE -L- STA. 42+00
SEE SHEET 7

WOODS

REMOVE

3-CABLE GUARDRAIL

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PROJECT REFERENCE NO.	SHEET NO.
R-5719	EC-14/CONST.07
R/W SHEET NO.	07
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS 8/17/99

-RAMP_A-

PIs Sta 18+45.30	PI Sta 15+58.72	PIs Sta 12+70.25
Θs = 1° 33' 44.6"	△ = 12° 17' 35.4" (RT)	Θs = 1° 33' 45.0"
Ls = 124.99'	D = 2° 30' 00.0"	Ls = 125.00'
LT = 83.33'	L = 491.73'	LT = 83.34'
ST = 41.67'	T = 246.81'	ST = 41.67'
	R = 2,291.83'	
	SE = 06	

MATCH LINE -RAMP A- STA. 21+00 SEE SHEET 9

MATCH LINE -L- STA. 42+00 SEE SHEET 6

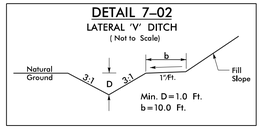
MATCH LINE -L- STA. 56+00 SEE SHEET 8

MATCH LINE -RAMP D- STA. 24+00 SEE SHEET 10

S 15°29'04" W 834.60'

S 27°04'57" W 252.81'

DETAIL 7-02
LATERAL 'V' DITCH
(Not to Scale)



FROM STA. 42+71 TO STA. 45+50 -L- LT

SOUTHERN WAYNE RECREATION, INC. DB 1551 PG 797

3

54 x 27 x 3 ID 14.1

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

-RAMP_A- ST 19+28.63

-RAMP_A- CS 18+03.64

-RAMP_A- SC 13+11.91

-RAMP_A- TS 11+86.91

-RAMP_A- POT 10+00.00 = -L- POT 55+00.00

68 x 34 x 3 ID 14.6

LATERAL 'V' DITCH (SEE DETAIL 7-02)

LATERAL 'V' DITCH (SEE DETAIL 7-01)

54 x 27 x 3 ID 14.7

40 x 20 x 3 ID 14.2

-RAMP_D- SC 11+99.99

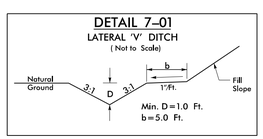
-RAMP_D- CS 19+08.67

-RAMP_D- ST 21+08.66

-RAMP_D- PC 22+88.29

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

DETAIL 7-01
LATERAL 'V' DITCH
(Not to Scale)



FROM STA. 16+60 TO STA. 21+50 RPD LT.
STA. 43+00 TO STA. 47+14 -L- RT.
STA. 19+80 – 26+50 RPD RT.
STA. 11+75 – 16+50 RPA RT.

-RAMP D-

PI Sta 25+47.74	PIs Sta 19+75.34	PI Sta 15+56.72	PIs Sta 11+33.34
△ = 26° 32' 36.1" (RT)	Θs = 2° 17' 30.2"	△ = 16° 14' 30.2" (LT)	Θs = 2° 17' 30.2"
D = 5° 12' 31.3"	Ls = 199.99'	D = 2° 17' 30.6"	Ls = 199.99'
L = 509.60'	LT = 133.34'	L = 708.68'	LT = 133.34'
T = 259.45'	ST = 66.67'	T = 356.73'	ST = 66.67'
R = 1,100.00'		R = 2,500.00'	
SE = 06		SE = 07	
RUNOFF = 165'			

ROBERT H. SHACKELFORD
DB 949 PG 597

NOTE:
SEE SHEETS 11,12,13 FOR -L- RT PROFILE
SEE SHEETS 13,14,15 FOR -L- LT PROFILE
SEE SHEET 16 FOR -RAMP_A- PROFILE
SEE SHEET 19 FOR -RAMP_D- PROFILE

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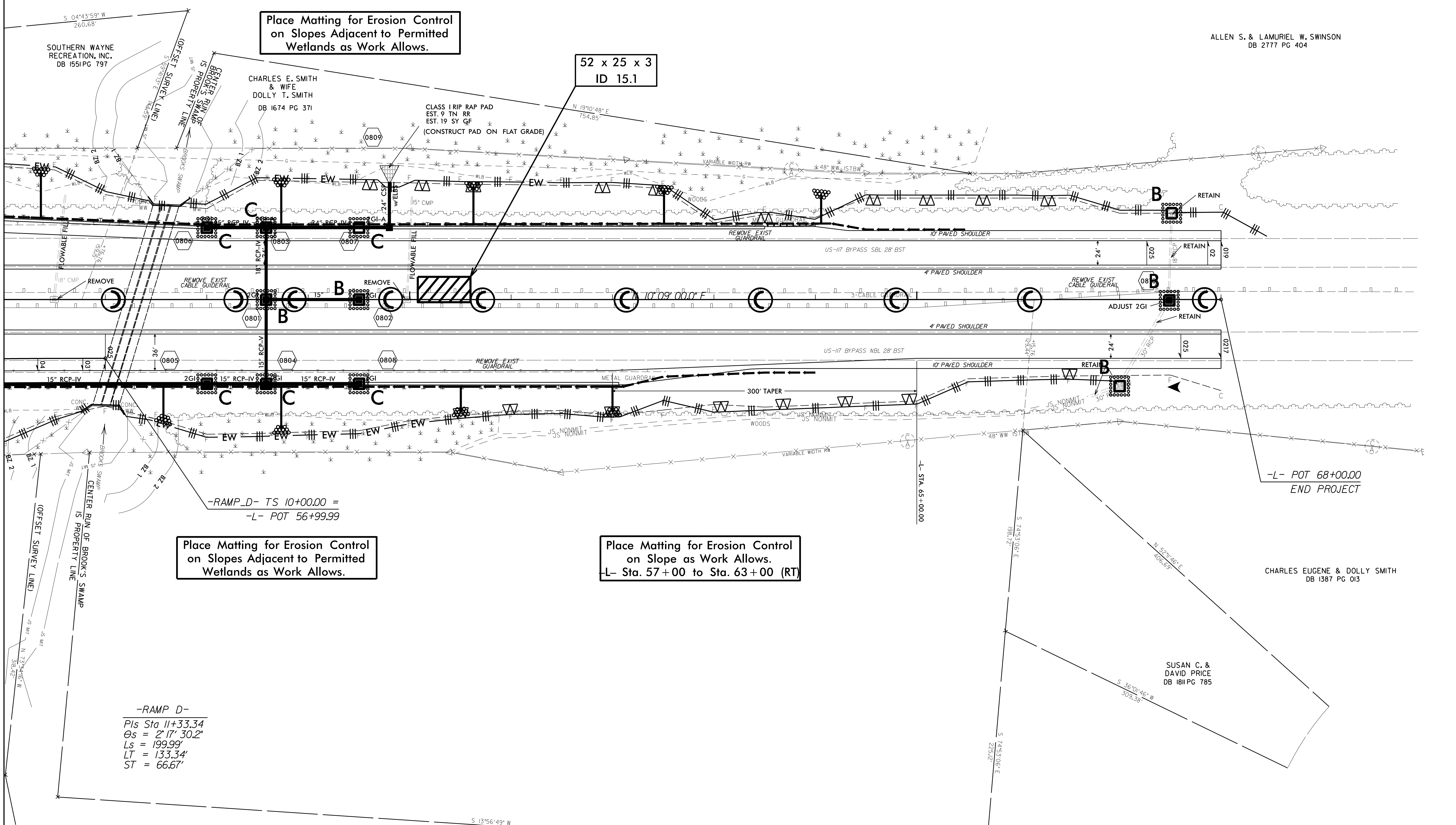
PROJECT REFERENCE NO.	SHEET NO.
R-5719	EC-15/CONST.08
R/W SHEET NO.	08
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

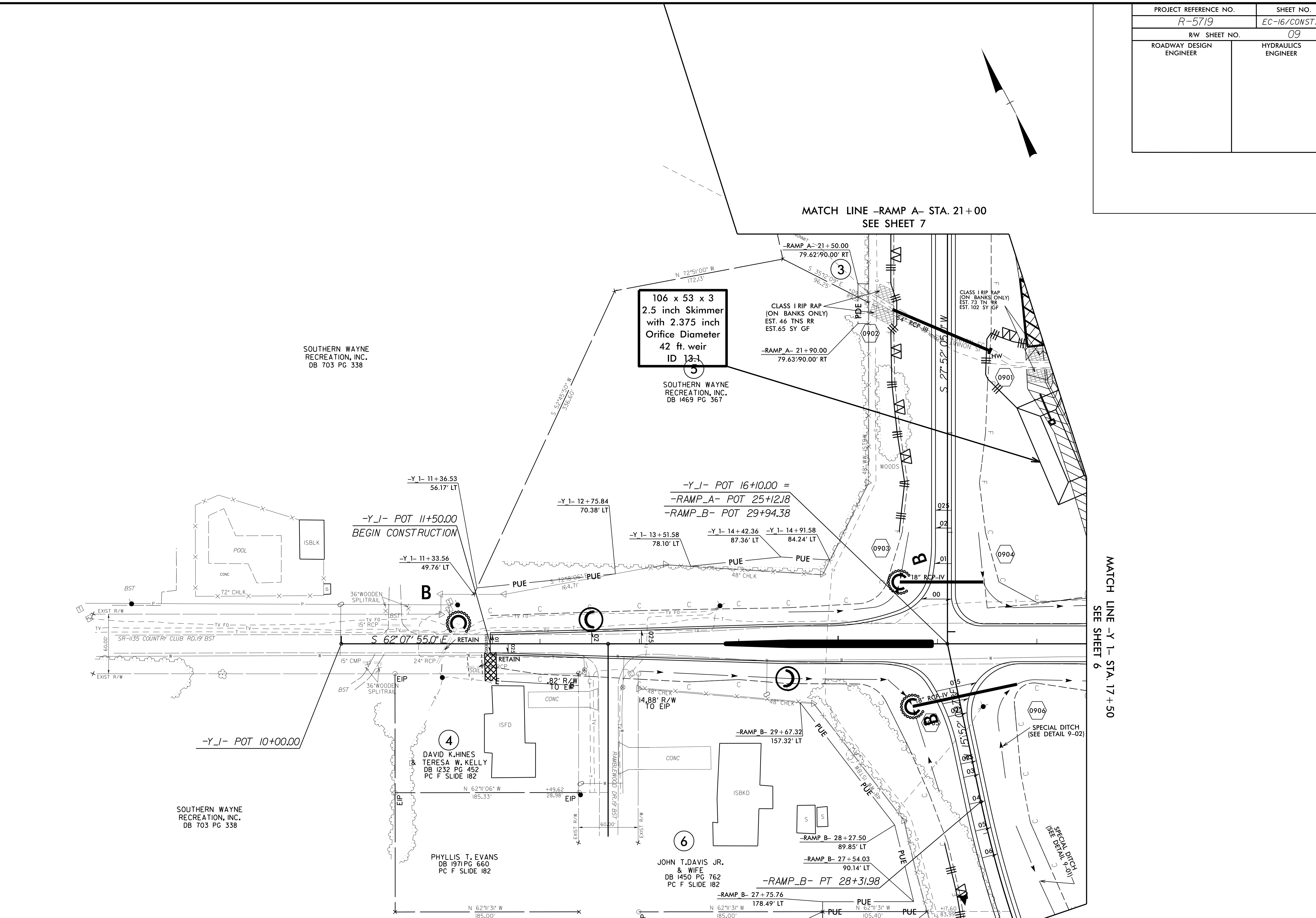
NOTE:
SEE SHEETS 11,12,13 FOR -L- RT PROFILE
SEE SHEETS 13,14,15 FOR -L- LT PROFILE



60
65
MATCH LINE -L- STA. 56+00
SEE SHEET 7
Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.
52 x 25 x 3
ID 15.1
SOUTHERN WAYNE RECREATION, INC.
DB 1551 PG 797
CHARLES E. SMITH & WIFE DOLLY T. SMITH
DB 1674 PG 371
CLASS I RIP RAP PAD
EST. 9 TN RR
EST. 19 SY GF
(CONSTRUCT PAD ON FLAT GRADE)
ALLEN S. & LAMURIEL W. SWINSON
DB 2777 PG 404
(OFFSET SURVEY LINE)
CENTER RUN OF BROOK'S SWAMP IS PROPERTY LINE
RETAIN
REMOVE
REMOVE EXIST CABLE GUIDERAIL
REMOVE EXIST GUARDRAIL
US-117 BYPASS SBL 28' BST
US-117 BYPASS NBL 28' BST
4' PAVED SHOULDER
10' PAVED SHOULDER
FLOWABLE FILL
ADJUST 2GI
300' TAPER
METAL GUARDRAIL
WOODS
VARIABLE WIDTH RW
-L- STA. 65+00.00
-L- POT 68+00.00
END PROJECT
-RAMP_D- TS 10+00.00 =
-L- POT 56+99.99
Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.
Place Matting for Erosion Control on Slope as Work Allows.
-L- Sta. 57+00 to Sta. 63+00 (RT)
CHARLES EUGENE & DOLLY SMITH
DB 1387 PG 013
SUSAN C. & DAVID PRICE
DB 1811 PG 785
-RAMP D-
PIs Sta 11+33.34
Θs = 2°17' 30.2"
Ls = 199.99'
LT = 133.34'
ST = 66.67'

PROJECT REFERENCE NO.	SHEET NO.
R-5719	EC-16/CONST.09
R/W SHEET NO.	09
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

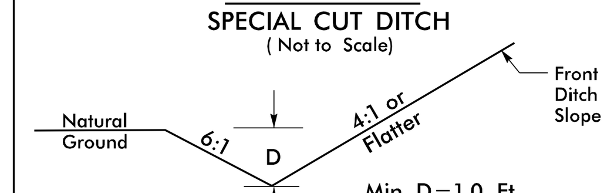


MATCH LINE -RAMP A- STA. 21+00
SEE SHEET 7
106 x 53 x 3
2.5 inch Skimmer
with 2.375 inch
Orifice Diameter
42 ft. weir
ID 13-1
SOUTHERN WAYNE
RECREATION, INC.
DB 703 PG 338
SOUTHERN WAYNE
RECREATION, INC.
DB 1469 PG 367
CLASS I RIP RAP
(ON BANKS ONLY)
EST. 46 TNS RR
EST.65 SY GF
-RAMP_A- 21+50.00
79.62'/90.00' RT
-RAMP_A- 21+90.00
79.63'/90.00' RT
CLASS I RIP RAP
(ON BANKS ONLY)
EST. 73 TN RR
EST. 102 SY GF
-Y_I- POT 16+10.00 =
-RAMP_A- POT 25+12.18
-RAMP_B- POT 29+94.38
-Y_I- POT 11+50.00
BEGIN CONSTRUCTION
-Y_I- POT 10+00.00
S 62°07' 55.0" E
SR-1135 COUNTRY CLUB RD.
MATCH LINE -Y_1- STA. 17+50
SEE SHEET 6
DAVID K.HINES
& TERESA W. KELLY
DB 1232 PG 452
PC F SLIDE 182
SOUTHERN WAYNE
RECREATION, INC.
DB 703 PG 338
PHYLLIS T. EVANS
DB 1971 PG 660
PC F SLIDE 182
JOHN T.DAVIS JR.
& WIFE
DB 1450 PG 762
PC F SLIDE 182
HAYWOOD G. CUMMINGS
& MEV P. W
DB 1213 PG 425
HAYWOOD G. CUMMINGS
& WIFE
DB 1182 PG 889
PC F SLIDE 182
-RAMP_B- PT 28+31.98
SPECIAL DITCH
(SEE DETAIL 9-02)
MATCH LINE -RAMP B- STA. 27+00
SEE SHEET 6

DETAIL 9-01

SPECIAL CUT DITCH

(Not to Scale)

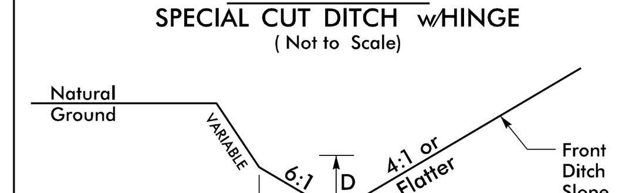


FROM STA. 27+00 TO STA. 28+00 RPB RT.
STA. 24+00 TO STA. 24+50 RPA RT.
STA. 24+00 TO STA. 24+50 RPA LT.

DETAIL 9-02

SPECIAL CUT DITCH w/HINGE

(Not to Scale)

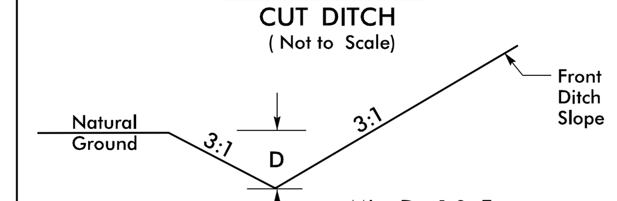


FROM STA. 28+50 TO STA. 29+40 RPB RT.
STA. 28+50 TO STA. 29+50 RPB LT.

DETAIL 9-03

CUT DITCH

(Not to Scale)



FROM STA. 13+00 TO STA. 15+70 -Y1- RT.
STA. 14+50 TO STA. 15+62 -Y1- LT.
STA. 16+46 TO STA. 18+30 -Y1- LT.
STA. 16+80 TO STA. 18+90 -Y1- RT.

-RAMP B-

PI Sta 25+73.52
△ = 27° 27' 47.1" (RT)
D = 5° 12' 31.3"
L = 527.25'
T = 268.79'
R = 1,100.00'
SE = 06
RUNOFF = 165'


PROJECT REFERENCE NO. R-5719
SHEET NO. EC-17/CONST10
R/W SHEET NO. 10
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
US-117 BUS
3500 / 4700
2000 / 2600
300 / 500
-Y_1-
1700 / 2100
4900 / 6300
ADT 2015
ADT 2040
DETAIL 10-01
STANDARD BASE DITCH
(Not to Scale)
Min. D=1.5 Ft.
B=2.0 Ft.
STA. 25+25 RPD LT.
DETAIL 10-02
SPECIAL CUT DITCH
(Not to Scale)
Min. D=1.0 Ft.
FROM STA. 25+00 RPC LT. TO STA. 23+00 -Y1- RT.
STA. 25+00 RPC RT. TO STA. 25+00 -Y1- RT.
STA. 27+00 RPD LT. TO STA. 25+00 -Y1- LT.
DETAIL 10-03
LATERAL 'V' DITCH
(Not to Scale)
Min. D=1.0 Ft.
b=10.0 Ft.
FROM STA. 33+00 TO STA. 37+50 -L- RT.
DETAIL 10-04
LATERAL BASE DITCH
(Not to Scale)
Min. D=1.0 Ft.
B=3.0 Ft.
b=10.0 Ft.
STA. 38+00 -L- RT.
STA. 39+50 TO STA. 41+50 -L- RT.
DETAIL 10-05
STANDARD BASE DITCH
(Not to Scale)
Min. D=1.0 Ft.
B=Varies 3.0 Ft. to 0 Ft.
FROM STA. 22+00 TO STA. 22+50 -Y1- LT.
DETAIL 10-06
LATERAL 'V' DITCH
(Not to Scale)
Min. D=1.0 Ft.
b=Variable
FROM STA. 22+00 TO STA. 23+31 -Y1- LT.
DETAIL 10-07
SPECIAL 'V' DITCH
(Not to Scale)
FROM STA. 23+00 TO STA. 23+50 -Y1- RT.
STA. 24+50 TO STA. 25+00 -Y1- LT.
STA. 24+37 TO STA. 25+00 -Y1- RT.
MATCH LINE -RAMP D- STA. 24+00 SEE SHEET 7
EASEMENT FOR TEMPORARY EROSION CONTROL DEVICE
ELMA M. LANE HEIRS DB 076E PG 280
STANDARD BASE DITCH (SEE DETAIL 10-01)
CLASS B RIP RAP EST. 3 TNS. RR EST. 10 SY GF
68 x 34 x 3 ID 17.4
50 x 25 x 3 ID 17.3
-RAMP D- PT 27+97.88
140 x 70 x 3
3 inch Skimmer
with 2.75 inch
Orifice Diameter
37 ft. weir
ID 17.5
-Y_1- POT 23+90.00 =
-RAMP C- POT 26+24.35
-RAMP D- POT 29+55.19
90 x 45 x 3 ID 17.1
LATERAL 'V' DITCH (SEE DETAIL 10-06)
SPECIAL CUT DITCH (SEE DETAIL 10-02)
SPECIAL 'V' DITCH (SEE DETAIL 10-07)
-Y_1- POT 26+34.88
END CONSTRUCTION
SR-1135 COUNTRY CLUB DR.
S 62° 07' 55.0" E
MATCH LINE -Y 1- STA. 22+00 SEE SHEET 6
LATERAL BASE DITCH (SEE DETAIL 10-04)
SPECIAL CUT DITCH (SEE DETAIL 10-02)
SPECIAL 'V' DITCH (SEE DETAIL 10-07)
120 x 60 x 3
2.5 inch Skimmer
with 2.25 inch
Orifice Diameter
27 ft. weir
ID 17.6
MTL BUS
XEON ENTERPRISES INC. DB 2626 PG 821
SPECIAL CUT DITCH (SEE DETAIL 10-02)
DB 2626 PG 824 XEON ENTERPRISES INC.
MICHAEL BRENT WILLIAMS DB 2629 PG 415
SHIRLEY ANN PIGFORD DB 1750 PG 652 DB 1398 PG 82
GEORGE ALLEN FULGHUM & WIFE LYNNE W. FULGHUM DB 2430 PG 554
MATCH LINE -RAMP C- STA. 23+00 SEE SHEET 6
REVISIONS