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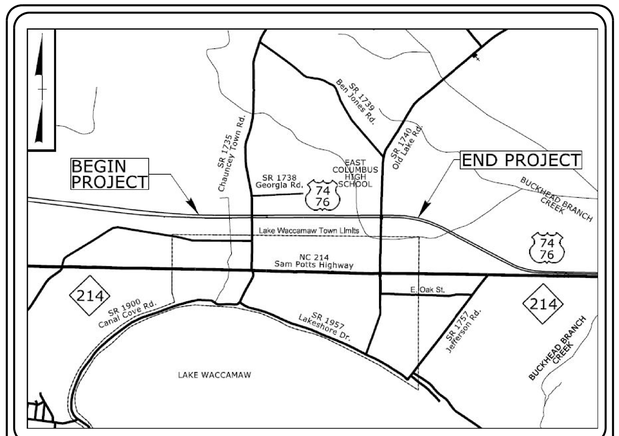
TIP PROJECT: R–5819/R5820



VICINITY MAP
NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

COLUMBUS COUNTY

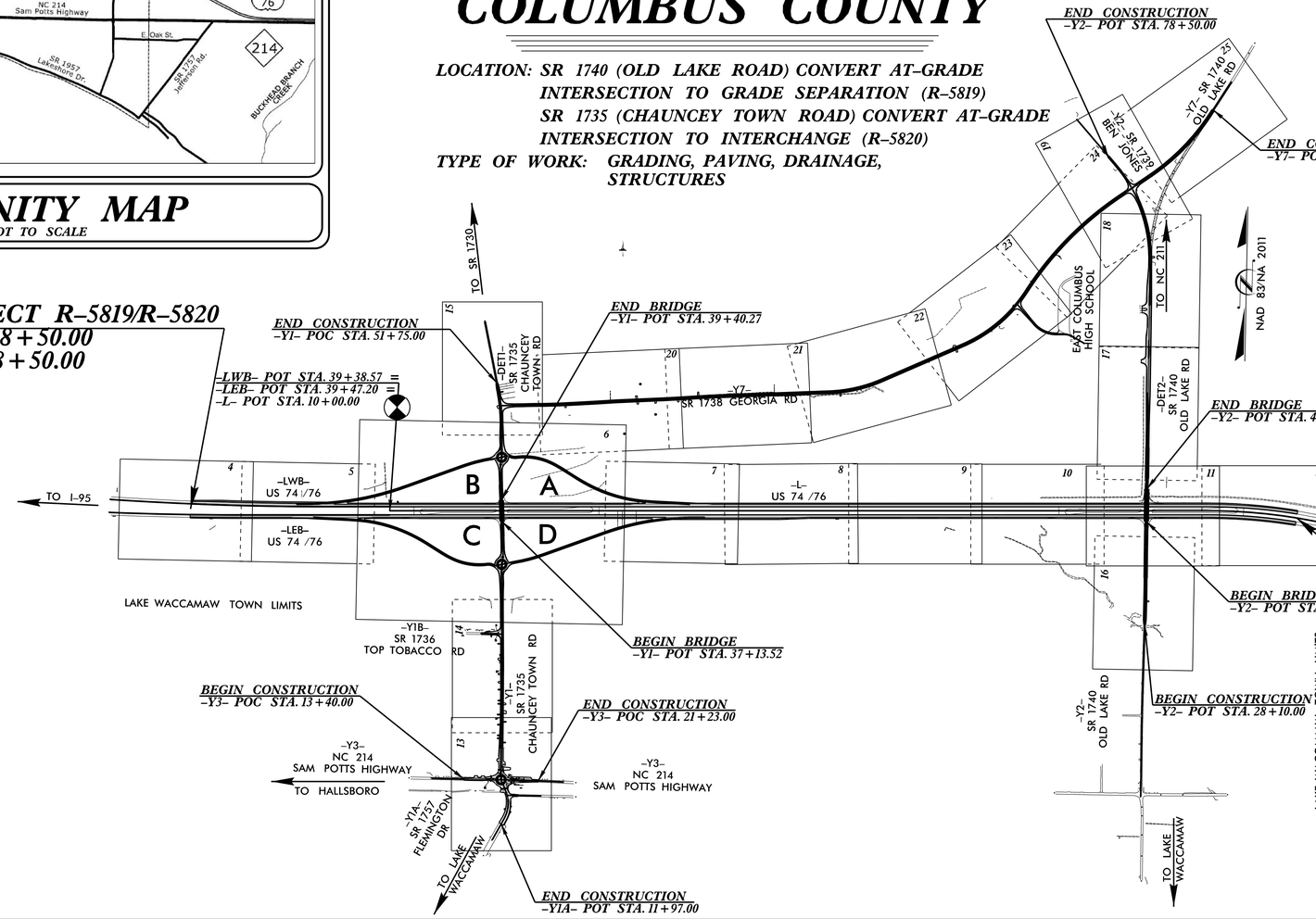
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5819 / R-5820	EC-1	

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

LOCATION: *SR 1740 (OLD LAKE ROAD) CONVERT AT–GRADE INTERSECTION TO GRADE SEPARATION (R–5819)*
SR 1735 (CHAUNCEY TOWN ROAD) CONVERT AT–GRADE INTERSECTION TO INTERCHANGE (R–5820)

TYPE OF WORK: *GRADING, PAVING, DRAINAGE, STRUCTURES*

BEGIN TIP PROJECT R–5819/R–5820
–LWB– POC STA. 18 + 50.00
–LEB– POC STA. 18 + 50.00



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.

END TIP PROJECT
R–5819/R–5820
–L– POC
STA. 105 + 30.00

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

GRAPHIC SCALE

50 25 0 50 100
PLANS

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE REGULATIONS SET FORTH BY THE NCG–010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.

VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

Prepared in the Office of:

VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

Designed by:

BRANDON BARHAM, PE ***3368***
NAME *LEVEL III CERTIFICATION NO.*

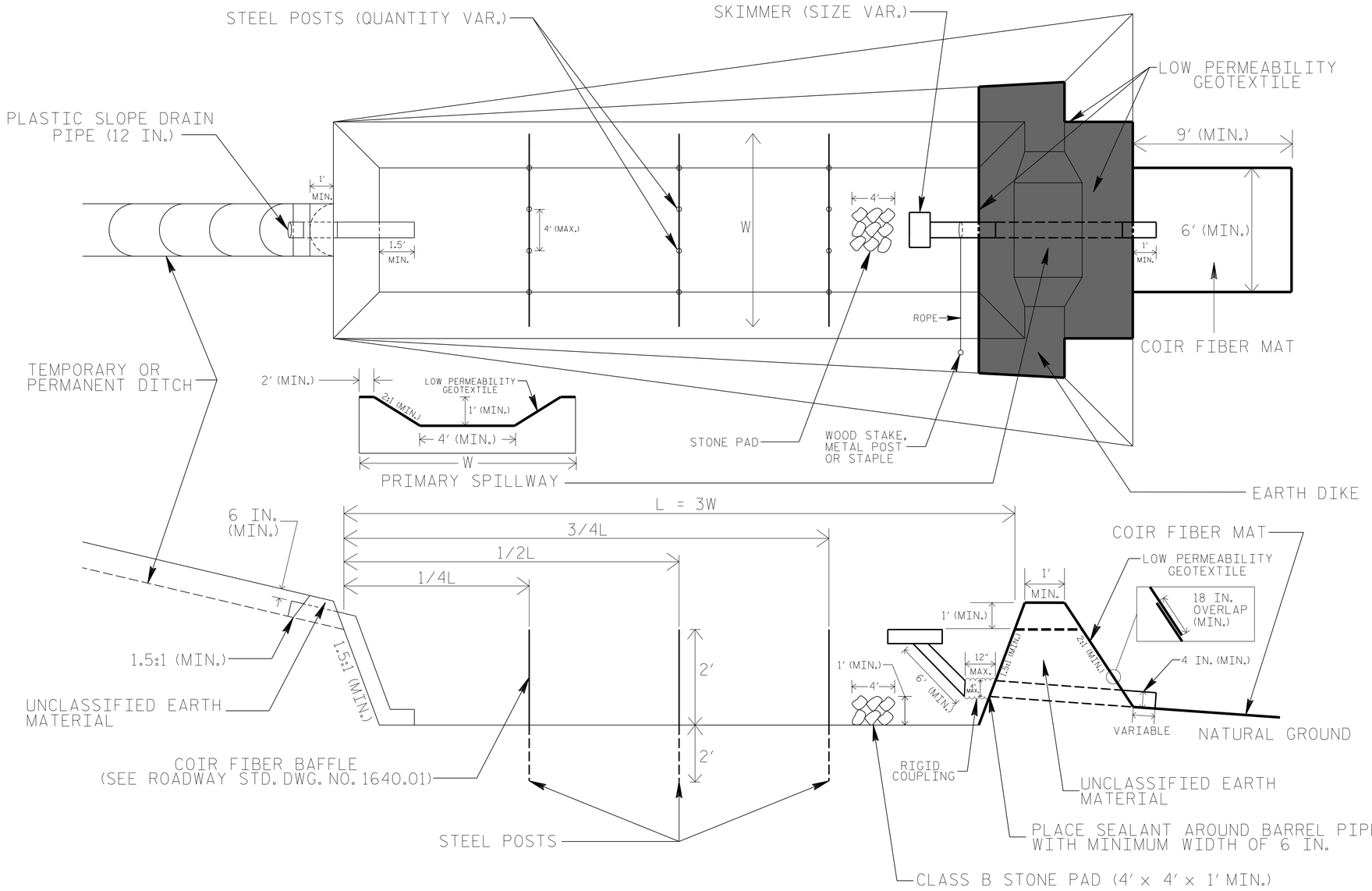
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated January 2018 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

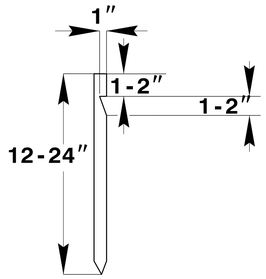
1604.01	Railroad Erosion Control Detail	1632.01	Rock Inlet Sediment Trap Type A
1605.01	Temporary Silt Fence	1632.02	Rock Inlet Sediment Trap Type B
1606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type 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-5819/R-5820	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

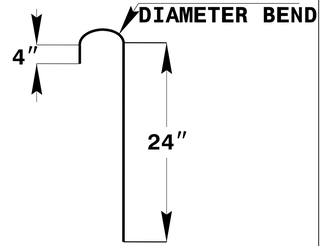
SKIMMER BASIN WITH BAFFLES DETAIL (EAST)



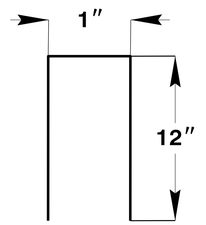
2" x 2" (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1" (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

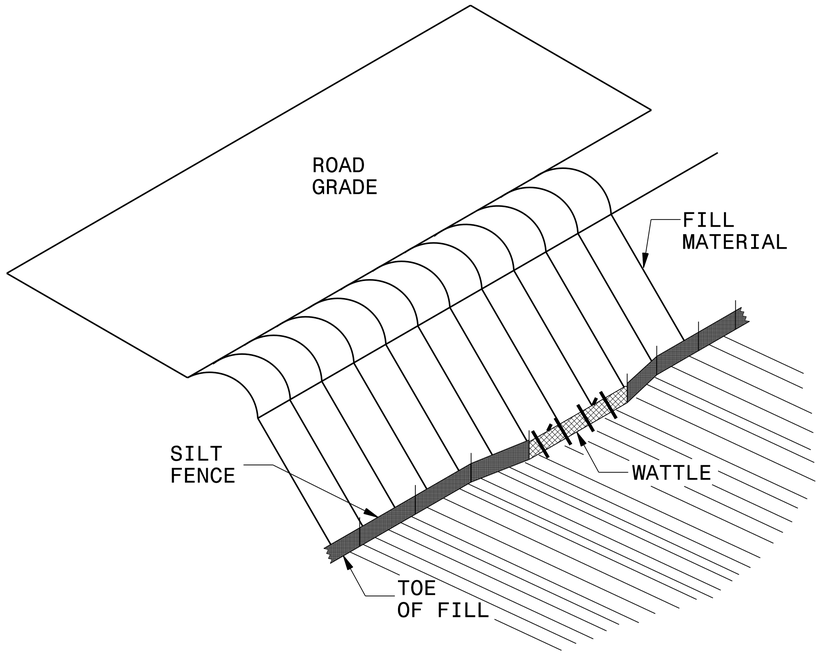
NOTES

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

SILT FENCE COIR FIBER WATTLE BREAK DETAIL

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



ISOMETRIC VIEW

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.

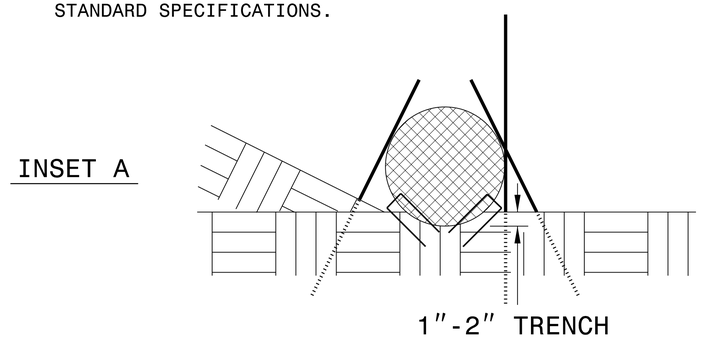
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.

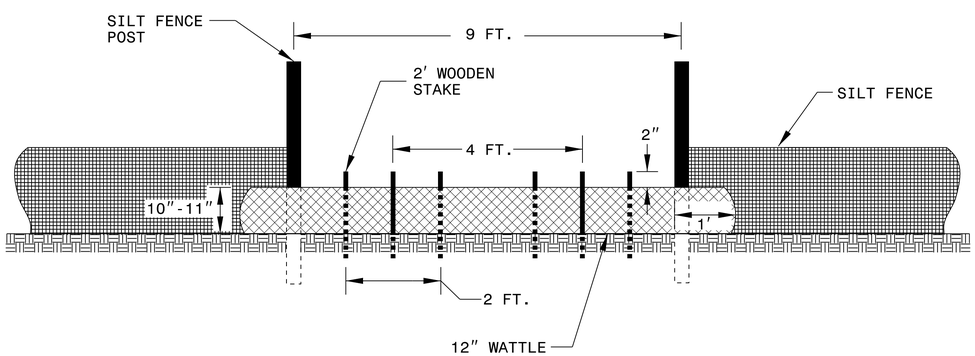
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

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

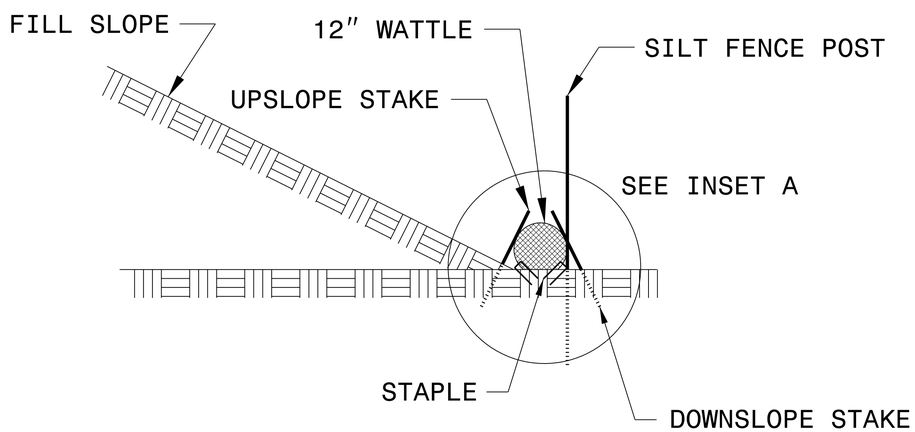
WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.

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





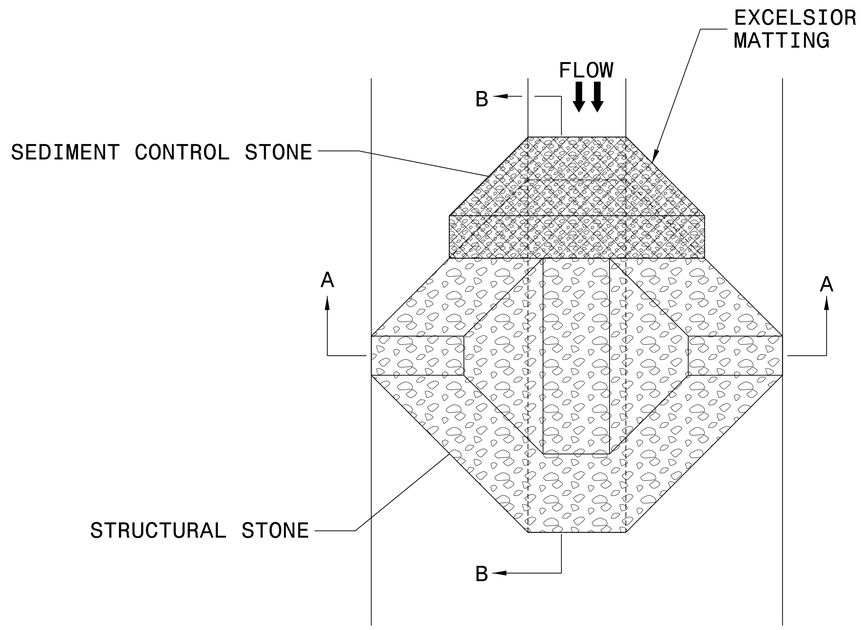
VIEW FROM SLOPE



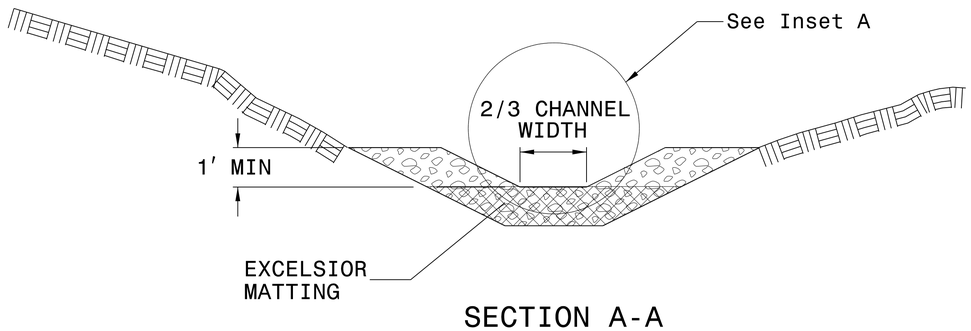
SIDE VIEW

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-2B
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

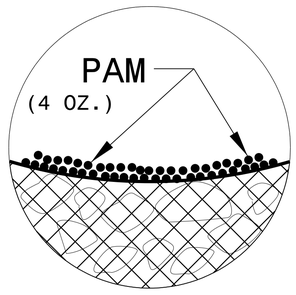
NOTES:

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

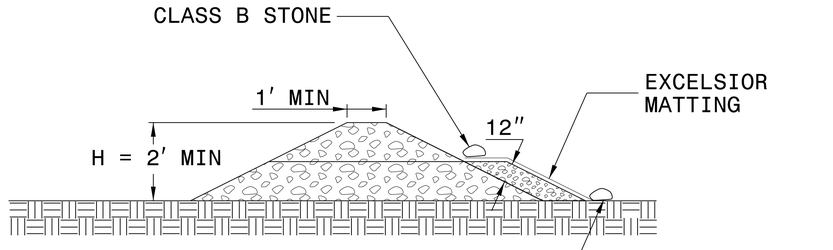
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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-5819/R-5820	EC-2C
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 1640-14.

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.

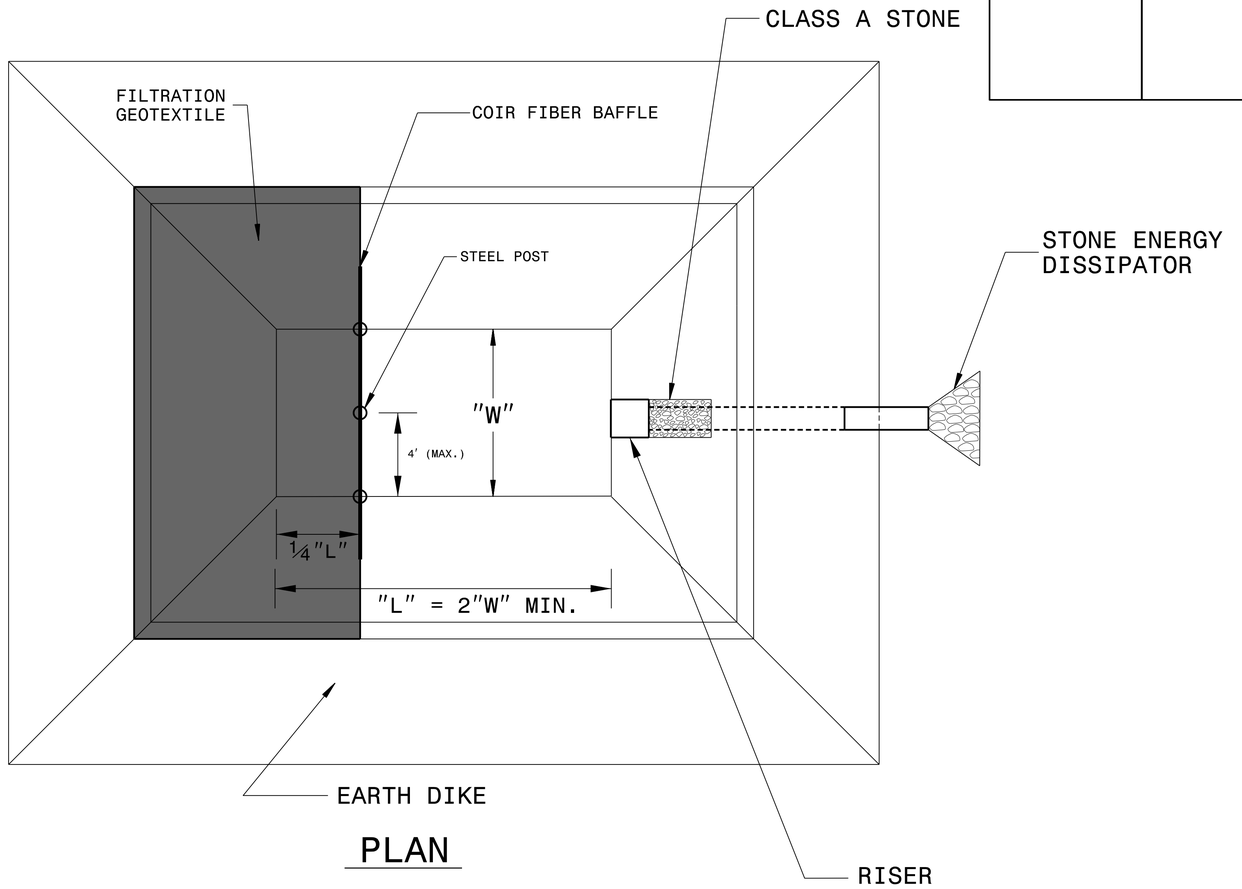
DO NOT EXCEED 3½ FT. IN HEIGHT FOR THE EARTH DIKES REQUIRED FOR BORROW PIT DEWATERING BASIN.

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

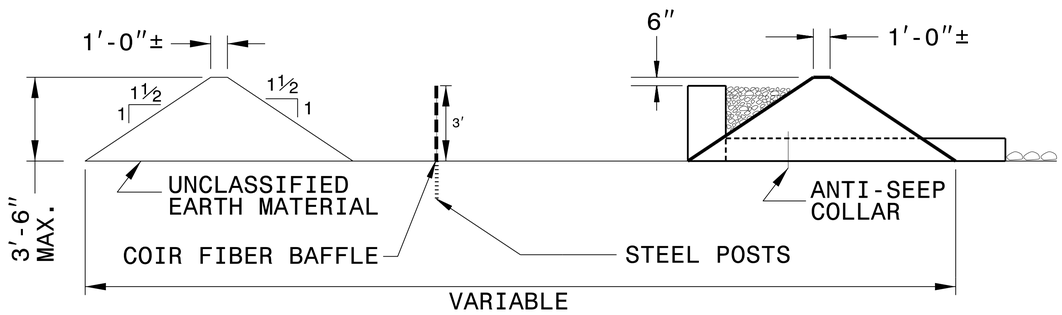
SUBMIT THE SIZE, LOCATION AND RISER PIPE MATERIAL FOR APPROVAL PRIOR TO CONSTRUCTION.

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

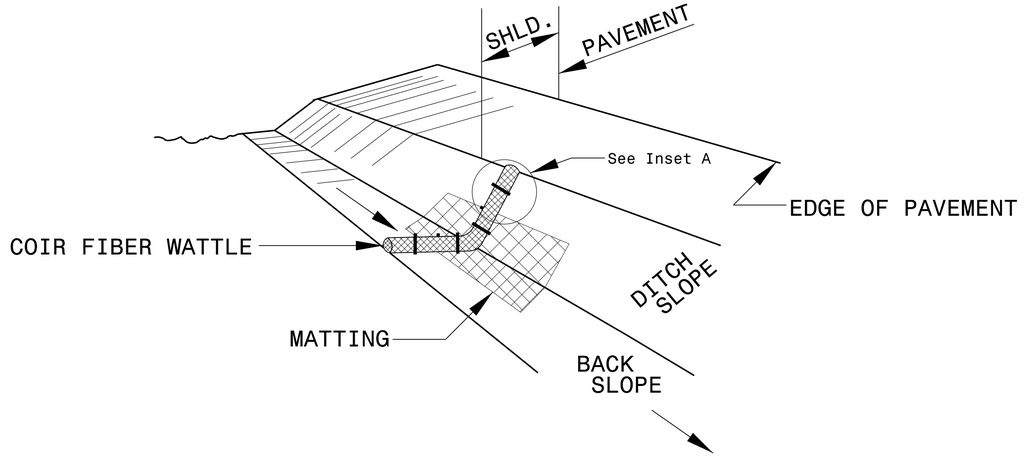


TYPICAL SECTION VIEW

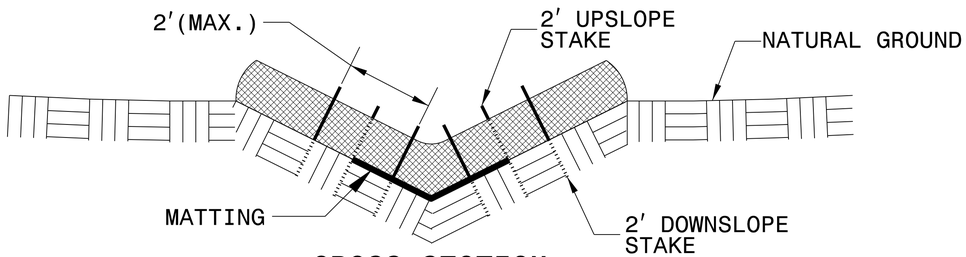
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-2D
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

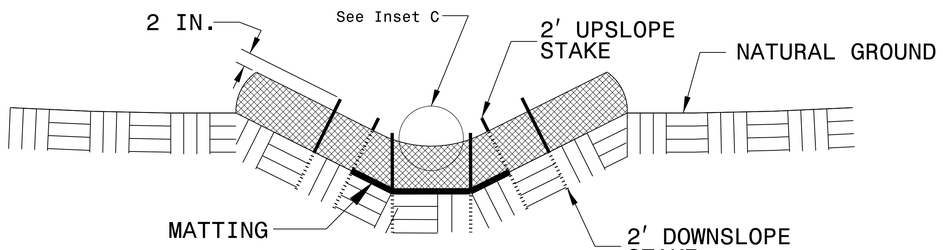
COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

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

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

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

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

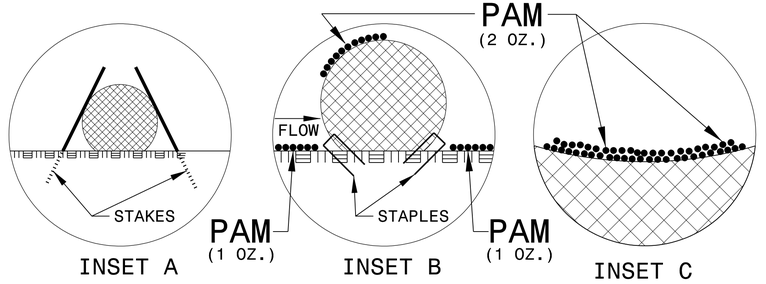
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

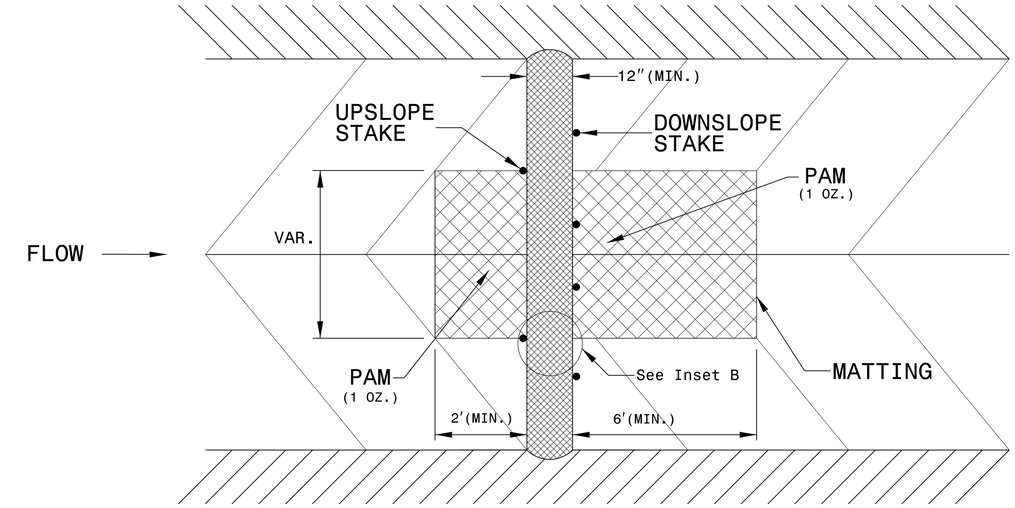
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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

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

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





TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
5/6	-LWB-	33+00	38+81	LT	2145
14/6	-Y1-	27+50	31+95	RT	745
6	-Y1-	33+65	35+00	RT	500
6	-Y1-	40+00	42+86	LT	460
6	-Y1-	40+50	43+00	RT	540
6/15	-Y1-	44+75	48+75	LT	650
6/7/8	-L-	33+85	51+00	RT	6325
9	-L-	60+00	61+49	MED	400
9	-L-	68+53	69+49	MED	260
10	-L-	77+59	78+19	MED	160
10	-L-	78+19	80+00	MED	485
10	-L-	82+27	83+99	MED	460
11	-L-	94+32	95+49	MED	315
13	-Y3-	12+40	14+15	LT	225
14	-Y1-	15+00	16+63	LT	200
14	-Y1-	16+62	17+80	RT	145
14	-Y1-	16+63	19+00	LT	285
15	-Y1-	49+50	52+60	LT	440
15	-Y1-	50+00	52+00	RT	295
15	-Y7-	10+50	12+50	RT	265
16	-Y2-	29+22	31+00	LT	230
16	-Y2-	29+50	32+00	RT	320
16/11	-Y2-	31+00	38+50	LT	955
16/11	-Y2-	32+00	38+50	RT	830
11/17	-Y2-	41+52	48+50	LT	1865
17	-Y2-	48+50	50+50	LT	575
11/17	-Y2-	41+62	46+50	RT	850
17	-Y2-	46+50	55+15	RT	1330
18	-Y2-	62+00	67+00	LT	855
19	-Y2-	76+00	79+00	LT	210

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
19/25	-Y7-	84+35	96+50	RT	3195
15/20	-Y7-	12+50	22+00	LT	1205
15/20	-Y7-	12+50	22+50	RT	1265
20	-Y7-	22+50	24+30	RT	230
20/21	-Y7-	22+00	28+50	LT	1120
21	-Y7-	28+50	37+50	LT	1440
21	-Y7-	34+00	37+50	RT	445
21	-Y7-	37+50	40+50	LT	620
21/22	-Y7-	37+50	43+50	RT	760
21/22	-Y7-	40+50	49+50	LT	2440
22/23	-Y7-	49+50	58+00	LT	1260
22/23	-Y7-	49+50	60+00	RT	1535
23	-Y7-	59+00	65+67	LT	830
23	-Y7-	60+00	65+35	RT	695
			SUBTOTAL		40360

SEE SHEET EC-3A FOR FINAL MATTING QUANTITY

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-3A

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

EXCELSIOR MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
6	-Y1RPB-	19+70	21+00	LT	265
6	-Y1RPC-	18+02	18+50	RT	75
				SUBTOTAL	340
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					217715
		SUBTOTAL FROM SHEET EC-3			40360
				TOTAL	258415
				SAY	271000

MATTING FOR EROSION CONTROL

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

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-3B
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

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

8/17/99

REVISIONS

–Y1– DETOUR

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
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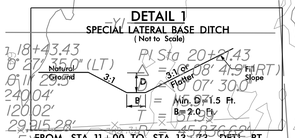
NC License # F-1333
formerly CALYX Engineers & Consultants

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-04/CONST.2B-1
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

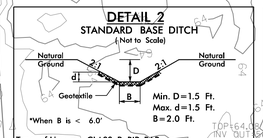
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 2B–1

DETAIL 1
SPECIAL LATERAL BASE DITCH
(Not to Scale)



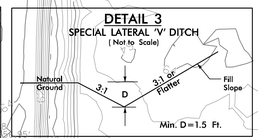
FROM STA. 11+00 TO STA. 13+73 –DET1– RT

DETAIL 2
STANDARD BASE DITCH
(Not to Scale)



Type of Liner = CLASS B RIP RAP
AT STA. 13+73 –DET1– RT

DETAIL 3
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

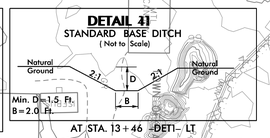


FROM STA. 13+73 TO STA. 15+00 –DET1– RT

DETAIL 4
LATERAL BASE DITCH
(Not to Scale)

FROM STA. 15+00 TO STA. 24+00 –DET1– RT

DETAIL 41
STANDARD BASE DITCH
(Not to Scale)



AT STA. 13+46 –DET1– LT

BEGIN CONSTRUCTION
–Y1B– POC STA. 10+00.00

END CONSTRUCTION
–Y1– PRC STA. 27+74.67

BEGIN WW FENCE
–Y1– STA. 27+97.63

END WW FENCE
–L– STA. 19+39.39

TERRY W. COCKERHAM AND HUSBAND, HAVEN E. COCKERHAM

WACCAMAW OUTDOOR SUPPLY, LLC

BOYS AND GIRLS HOMES OF NC, INC.

REMOVE AND RESET FENCE

RETAIN

STANDARD BASE DITCH
SLOPE = 0.3%
EST DDE = 5 CY
SEE DETAIL 3

CLASS B RIP RAP
EST 5 TONS
EST 14 SY GEOTEXTILE

SPECIAL LATERAL BASE DITCH
SEE DETAIL 1

STANDARD BASE DITCH
SLOPE = 8.2%
EST 15 TONS
EST 40 SY GEOTEXTILE
EST DDE = 3 CY
SEE DETAIL 2

SPECIAL LATERAL 'V' DITCH
SEE DETAIL 3

LATERAL BASE DITCH
SEE DETAIL 4

CLASS B RIP RAP
EST 5 TONS
EST 14 SY GEOTEXTILE

MODIFY FILL SIDE SLOPES TO FACILITATE DRAINAGE

INSTALL 24" TEMPORARY PIPE PRIOR TO CONSTRUCTION OF –YIRPD–

MATCHLINE –DET1– STA. 23+00.00
SEE SHEET 2B–2

NOTES:
PROP PAVED SHOULDER
FOR –DET1– PROFILE, SEE SHEET 44

3/14/2022
R5819_R5820_REV_EC_PSH2B-1_CG.dgn
E-Ridge, Jr.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 2B–2

REVISIONS

8/17/99

MATCHLINE –L– STA. 18+00.00
SEE SHEET 2B–4

–Y1– DETOUR

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PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-05/CONST.2B-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

DETAIL 4
LATERAL BASE DITCH
(Not to Scale)
Min. D=1.5 Ft.
B=5.0 Ft.
b=5.0 Ft.
FROM STA. 15+00 TO STA. 24+00 –DET1– RT

DETAIL 5
STANDARD BASE DITCH
(Not to Scale)
Min. D=1.5 Ft.
B=5.0 Ft.
FROM STA. 24+00 TO STA. 24+87 –DET1– RT
FROM STA. 24+39 TO STA. 24+67 –DET1– LT
FROM STA. 27+33 TO STA. 27+53 –DET1– RT

DETAIL 6
LATERAL BASE DITCH
(Not to Scale)
Min. D=1.5 Ft.
B=4.0 Ft.
FROM STA. 27+53 TO STA. 28+00 –DET1– RT
B=5.0 Ft.
FROM STA. 28+00 TO STA. 35+50 –DET1– RT

DETAIL 4
LATERAL BASE DITCH
DETAIL 5
STANDARD BASE DITCH
(Not to Scale)
Min. D=1.5 Ft.
B=4.0 Ft.
FROM STA. 15+00 TO STA. 24+00 –DET1– RT
FROM STA. 27+33 TO STA. 28+00 –DET1– RT
Min. D=1.5 Ft.
B=5.0 Ft.
b=5.0 Ft.
FROM STA. 24+00 TO STA. 24+87 –DET1– RT
FROM STA. 24+39 TO STA. 24+67 –DET1– LT
FROM STA. 27+33 TO STA. 27+53 –DET1– RT

DETAIL 7
LATERAL BASE DITCH
(Not to Scale)
100' LANE SHIFT LT
150' LANE SHIFT LT
Min. D=1.5 Ft.
B=4.0 Ft.
B=5.0 Ft.
FROM STA. 28+00 TO STA. 35+50 –DET1– RT

STANDARD BASE DITCH
SLOPE = 0.0%
EST DDE= 80 CY
SEE DETAIL 5

MODIFY FILL SIDE SLOPES
TO FACILITATE DRAINAGE

MODIFY FILL SIDE SLOPES
TO FACILITATE DRAINAGE

CLASS I RIP RAP
EST 40 TONS
EST 75 SY
GEOTEXTILE

CLASS B RIP RAP
EST 2 TONS
EST 7 SY GEOTEXTILE

LATERAL BASE DITCH
SEE DETAIL 4

STANDARD BASE DITCH
+/-300' AT 0.1% SLOPE
EST DDE=50 CY
SEE DETAIL 5

STANDARD BASE DITCH
+/-40' AT 3.5% SLOPE
EST DDE=196 CY
SEE DETAIL 5

CLASS I RIP RAP
EST 33 TONS
EST 62 SY GEOTEXTILE

STANDARD BASE DITCH
+/-38' AT 1.7% SLOPE
EST DDE=125 CY
SEE DETAIL 6

STANDARD BASE DITCH
+/-83' AT 0.1% SLOPE
EST DDE=63 CY
SEE DETAIL 5

CLASS B RIP RAP
EST 2 TONS
EST 7 SY GEOTEXTILE

LATERAL BASE DITCH
SEE DETAIL 7

INSTALL 24"
TEMPORARY PIPE PRIOR
TO CONSTRUCTION
OF –YIRPA–

CLASS B RIP RAP
EST 5 TONS
EST 14 SY GEOTEXTILE

NOTES:
PROP PAVED SHOULDER
PAVEMENT REMOVAL
FOR –DET1– PROFILE, SEE SHEET 44

MATCHLINE –DET1– STA. 23+00.00
SEE SHEET 2B–1

MATCHLINE –DET1– STA. 35+00.00
SEE SHEET 2B–3

MATCHLINE –L– STA. 27+50.00
SEE SHEET 2B–5

3/14/2022
R5819_R5820_REU_EC_PSH2B-2_CG.dgn
USER:Rachel Quitt

–Y1– DETOUR

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-06/CONST.2B-3
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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REVISIONS 8/17/99

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 2B–3

MATCHLINE –DET1– STA. 35+00.00 SEE SHEET 2B–2

NAD 83/NA 2011

END CONSTRUCTION –Y1– POC STA. 51+75.00

–Y1– POC Sta. 47+93.29

–Y1– PCC Sta. 50+42.64

–DET1– PRC Sta. 37+76.82

–DET1– PT Sta. 42+19.20

–Y1– POT Sta. 51+68+39.24

–Y1– CHAUNCEY TOWN RD.
SR 1735 CHAUNCEY TOWN RD 22' BST

–EY1C–
SR 1735 CHAUNCEY TOWN RD 21' BST

–Y1– PC Sta. 47+93.29

–Y1– PCC Sta. 50+42.64

–DET1– PRC Sta. 40+31.65

–Y7– PRC Sta. 10+00.00

–Y7– GEORGIA RD.

–Y7– PC Sta. 12+36.61

–Y7– PRC Sta. 12+72.72

–Y1– POC Sta. 49+33.78

–Y7– POT Sta. 10+00.00

–Y1–
PI Sta 47+30.17
Δ = 1°04' 44.7" (LT)
D = 0° 51' 16.9"
L = 126.25'
T = 63.13'
R = 6,703.57'
SE = NC

PI Sta 49+18.22
Δ = 8° 54' 20.5" (LT)
D = 3° 34' 17.6"
L = 249.35'
T = 124.93'
R = 1,604.22'
SE = 06

PI Sta 52+22.45
Δ = 1° 02' 20.5" (LT)
D = 0° 17' 20.2"
L = 359.81'
T = 179.81'
R = 19,830.00'
SE = NC

–Y7–
PI Sta 13+22.16
Δ = 1°02' 54.9" (RT)
D = 0° 36' 46.1"
L = 171.11'
T = 85.56'
R = 9,349.58'
SE = 025

–DET1–
PI Sta 36+00.46
Δ = 34° 47' 39.6" (LT)
D = 9° 32' 57.5"
L = 364.37'
T = 188.00'
R = 600.00'
SE = 06

PI Sta 39+06.19
Δ = 24° 20' 01.3" (RT)
D = 9° 32' 57.5"
L = 254.82'
T = 129.36'
R = 600.00'
SE = 03

PI Sta 41+25.68
Δ = 0° 32' 36.0" (LT)
D = 0° 17' 20.2"
L = 188.05'
T = 94.03'
R = 19,830.00'
SE = NC

BOATHOUSE SOLAR, LLC

JOSEPHINE B. SUTTON

EDDIE B. MITCHELL

DONALD O. FREEMAN AND WIFE, GLENNETTE J. FREEMAN

MELISSA A. CAMPBELL

ISRAEL CAMPBELL AND WIFE, JACQUELINE F. CAMPBELL

DAVID B. GOLDSTON, JR.

DODIE LEE JONES HEIRS

DOROTHY LEE JONES HEIRS

150' LANE SHIFT LT

50' TAPER LT/RT

SPECIAL LATERAL BASE DITCH SEE DETAIL 8

LATERAL BASE DITCH SEE DETAIL 7

TEMPORARY 18" RCP

END WW FENCE –Y1– STA. 48+58.72

+10.19 –Y7– 75.00' RT

+81.00 –Y7– 72.48' RT

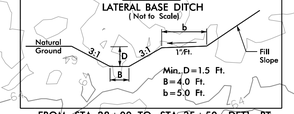
+18.99 –DET1– 62.00' RT

+58.00 –Y7– 50.00' LT 45.91' LT

+0.72 –Y7– 50.00' LT

NOTES:
PROP PAVED SHOULDER
FOR –DET1– PROFILE, SEE SHEET 44

DETAIL 7
LATERAL BASE DITCH
(Not to Scale)



FROM STA. 28+00 TO STA. 35+50 –DET1– RT

DETAIL 8
SPECIAL LATERAL BASE DITCH
(Not to Scale)

FROM STA. 35+50 TO STA. 40+50 –DET1– RT

3/14/2022
R5819_R5820_REU_EC_PSH2B-3_CG.dgn
USER: dwilliams

–Y1– DETOUR

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PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-07/CONST.2B-4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 2B–4

NAD 83/NA 2011

MATCHLINE –L– STA. 18+00.00
SEE SHEET 2B–2

REVISIONS

8/17/99

+90.00 –Y1RPB–
112.00' LT
102.48' LT

END WW FENCE
–Y1RPB– STA. 19+90.00

–Y1RPB– CS Sta. 20+59.72

–Y1RPB– ST Sta. 22+59.72

BOATHOUSE SOLAR, LLC (1)

+58.00 –Y1RPB–
112.00' LT
106.00' LT
101.81' LT

PDE

+30.43 –Y1RPB–
99.00' LT

BEGIN WW FENCE
–Y1RPB– STA. 17+30.43

N 69° 09' 26.5" E

–Y1RPB– TS Sta. 27+33.37

–LWB– POT STA. 39+38.57 =
–LEB– POT STA. 39+47.20 =
–L– POT STA. 10+00.00

N 88° 50' 29.9" E

–ELEB–

–EL–

–Y1RPC– CS Sta. 21+70.70

–Y1RPC– SC Sta. 25+87.70

–Y1RPC–

PI Sta 18+27.94
Δ = 20° 46' 51.2" (RT)
D = 3° 40' 22.1"
L = 565.80'
T = 286.04'
R = 1,560.00'
SE = 08

PIs Sta 21+87.74
Θs = 4° 24' 26.5"
Ls = 240.00'
LT = 160.05'
ST = 80.05'

PIs Sta 25+07.98
Θs = 10° 30' 35.0"
Ls = 240.00'
LT = 160.28'
ST = 80.26'

PI Sta 27+57.53
Δ = 29° 06' 20.4" (LT)
D = 8° 45' 29.1"
L = 332.33'
T = 169.83'
R = 654.20'
SE = 08

PI Sta 29+68.18
Δ = 39° 15' 54.3" (RT)
D = 42° 26' 28.7"
Δ = 92.52'
T = 48.16'
R = 135.00'
SE = 025

NOTES:
PROP PAVED SHOULDER
PAVEMENT REMOVAL

3/14/2022
...\R5819_R5820_REU_EC_PSH2B-4_CG.dgn
...\SE Ridge Out

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 2B-5

MATCHLINE -L- STA. 27+50.00
SEE SHEET 2B-2

-Y1- DETOUR

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PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-08/CONST.2B-5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

REVISIONS
8/17/99

-YIRPA- SRS Sta. 23+45.50
-YIRPA- CS Sta. 12+03.50
-YIRPA- SC Sta. 15+37.75
-YIRPA- TS Sta. 12+97.75
-YIRPD- CS Sta. 19+77.74
-YIRPD- ST Sta. 21+91.74
-L- US 74/76
Trib 6 WK
Trib 7 JS
N.C.D.O.T.
TERRY ANNE WARD COCKERHAM 2001 TRUST
TERRY ANNE WARD COCKERHAM, TRUSTEE
TERRY W. COCKERHAM
CEASAR LAVENDER, SR. HEIRS
WOODED
EXISTING R/W
48" WW 1/SRW
30" INC
US 74 WB/US 76 WB 32' BST
US 74 EB/US 76 EB 32' BST
TOP=60.17' INV=57.59'
INV=55.33'
INV=55.42'
±87.00 -YIRPD- 90.43' LT
±55.00 -YIRPD- 130.00' LT
±31.00 -YIRPD- 97.97' LT
PDE
WB

-YIRPD-
PI Sta 11+66.69
Θs = 1° 54' 10.1"
Ls = 180.00'
LT = 120.01'
ST = 60.01'

PI Sta 16+04.63
Δ = 15° 52' 44.1" (LT)
D = 2° 06' 51.2"
L = 751.05'
T = 377.95'
R = 2,710.00'

NOTES:
PROP PAVED SHOULDER
PAVEMENT REMOVAL

3/14/2022
R5819-R5820_REV_EC_PSH2B-5_CG.dgn
USER:RodFaull

8/17/99

REVISIONS

–Y2– DETOUR

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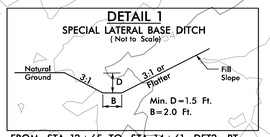
PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-09/CONST.2B-6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 2B–6

NAD 83/NA 2011

DETAIL 1
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 12+65 TO STA. 14+61 –DET2– RT
FROM STA. 14+75 TO STA. 22+50 –DET2– LT

HALLSBORO CONSTRUCTION COMPANY, INC.

CAREY F. BLANKS

JOHNIE KEETER, SR.

VERNON L. KEETER

CAROLINA MEDICAL CENTER, PA

–EY2B–

SR 1740 OLD LAKE RD 20' BST

–Y2– PRC Sta. 26+10.07

RETAIN

+84.00 24" INC.

50' TAPER LT & RT

SPECIAL LATERAL BASE DITCH SEE DETAIL 1

CLASS B RIP RAP
EST 3 TONS
EST 10 SY GEOTEXTILE

TEMPORARY RIP RAP CLASS B

2B24

2B23

2B25

SPECIAL LATERAL BASE DITCH SEE DETAIL 1
N 0° 18' 04.9" W

CFW

MATCHLINE –DET2– STA. 18+50.00
SEE SHEET 2B–7

BEGIN CONSTRUCTION
–Y2– POC STA. 28+10.00

–Y2–
PI Sta 30+35.83
Δ = 1° 29' 17.3" (LT)
D = 0° 10' 29.2"
L = 851.49'
T = 425.77'
R = 32,783.83'
SE = NC

NOTES:
PROP PAVED SHOULDER
FOR –DET2– PROFILE, SEE SHEET 45

3/14/2022
R5819_R5820_REU_EC_PSH2B-6_CG.dgn
USER:default

MATCHLINE –L– STA. 85+50.00
SEE SHEET 2B–9

–Y2– DETOUR

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 2B–7

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PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-10/CONST.2B-7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS
8/17/99

NAD 83/NA 2011

MATCHLINE –DET2– STA. 18+50.00
SEE SHEET 2B–6

MATCHLINE –DET2– STA. 31+00.00
SEE SHEET 2B–8

DETAIL 1
SPECIAL LATERAL BASE DITCH
(Not to Scale)
Natural Ground, 3:1, D, B, 3:1 or Flatter, Fill Slope
Min. D=1.5 Ft.
B=2.0 Ft.
FROM STA. 14+75 TO STA. 22+50 –DET2– LT
FROM STA. 25+98 TO STA. 34+00 –DET2– LT

DETAIL 9
BANK STABILIZATION
(Not to Scale)
3.0'min., 2.0', NWS, GEOTEXTILE
Type of Liner= CLASS I RIPRAP
FROM STA. 25+86 TO 25+98 –DET2– LT
FROM STA. 25+84 TO 25+98 –DET2– RT

DETAIL 10
SPECIAL LATERAL BASE DITCH
(Not to Scale)
Natural Ground, 3:1, D, B, 3:1 or Flatter, Fill Slope
Min. D=2.0 Ft.
B=2.0 Ft.
FROM STA. 25+98 TO STA. 38+00 –DET2– RT

TEMPORARY PIPE CONSTRUCTION SEQUENCE
STA. 25+78 –DET2–

1. INSTALL IMPERVIOUS DIKE UPSTREAM AND DOWNSTREAM OF 72" TEMPORARY PIPE.
2. UTILIZE SPECIAL STILLIING BASIN(S) UPSTREAM AND DOWNSTREAM TO DEWATER WORK AREA.
3. INSTALL 72" TEMPORARY PIPE AND BANK STABILIZATION.
4. REMOVE IMPERVIOUS DIKE FROM UPSTREAM AND DOWNSTREAM OF 72" TEMPORARY PIPE.

NOTES:
PROP PAVED SHOULDER
PAVEMENT REMOVAL
FOR –DET2– PROFILE, SEE SHEET 45

MATCHLINE –L– STA. 95+00.00
SEE SHEET 2B–10

3/14/2022
R5819_R5820_REV_EC_PSH2B-7_CG.dgn
USER:Rdelpuit

8/17/99

REVISIONS

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 2B–7

–Y2– DETOUR

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formerly CALYX Engineers & Consultants

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-10A/CONST.2B-8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DETAIL 1
SPECIAL LATERAL BASE DITCH
(Not to Scale)

FROM STA. 25+98 TO STA. 34+00 –DET2– LT

DETAIL 10
SPECIAL LATERAL BASE DITCH
(Not to Scale)

FROM STA. 25+98 TO STA. 38+00 –DET2– RT

END DETOUR CONSTRUCTION
–DET2– POT STA. 38+67.00 =
–Y2– POT STA. 54+20.58

350' LANE SHIFT LT & RT

33

COLUMBUS COUNTY BOARD OF EDUCATION

ATHLETICS FIELD

REMOVE AND RESET EXIST 72" CHAIN LINK FENCE

BEGIN 72" CHAIN LINK FENCE –Y2– STA. 48+16.46

BEGIN 72" CHAIN LINK FENCE –Y2– STA. 50+48.84

–DET2– PC Sta. 32+36.90

–DET2– PT Sta. 35+44.10

PROP 5' INCIDENTAL STONE PATH AS DIRECTED BY THE ENGINEER

+91.94 –Y2– 96.00' LT 91.00' LT

+12.00 –Y2– 88.00' LT 80.00' LT

+37.88 –Y2– 50.13' LT

+43.00 –Y2– 87.00' LT

+21.00 –Y2– 65.00' LT

+06.00 –Y2– 50.13' LT 65.00' LT

+19.00 –Y2– 87.00' LT

+50.00 –Y2– 53.00' LT

+04.00 –Y2– 54.00' LT 66.00' LT

+33.00 –Y2– 54.00' LT 66.00' LT

+02.00 –Y2– 55.00' LT 66.00' LT

+31.00 –Y2– 50.13' LT 66.00' LT

+00.00 –Y2– 50.13' LT 66.00' LT

+28.00 –Y2– 50.13' LT 66.00' LT

+03.00 –Y2– 50.13' LT 66.00' LT

+50.00 –Y2– 88.00' LT 65.00' LT 50.13' LT

+32.00 –Y2– 50.13' LT 66.00' LT

100' TAPER

–DET2– POT Sta. 41+46.42

TIE TO EX. 2'-6" CURB AND GUTTE

NAD 83/NA 2011

–EY2C–

–Y2– OLD LAKE RD

N 0° 18' 04.9" W

SPECIAL LATERAL BASE DITCH SEE DETAIL 1

150' LANE TAPER RT

100' TAPER

CFW

INC

–DET2–

SPECIAL LATERAL BASE DITCH SEE DETAIL 10

+28.61 –DET2– 50.00' RT

+88.36 –Y2– 50.00' RT

+85.37 –Y2– 72.00' RT

+80.00 –Y2– 61.00' RT

–DET2– PT Sta. 38+51.29

+37.89 –Y2– 210.34' RT

+88.10 –DET2– 50.00' RT

+68.00 –DET2– 53.00' RT

+48.00 –DET2– 54.00' RT

+40.00 –DET2– 53.00' RT

MATCHLINE –DET2– STA. 31+00.00
SEE SHEET 2B–7

DETAIL 1
SPECIAL LATERAL BASE DITCH
(Not to Scale)

FROM STA. 25+98 TO STA. 34+00 –DET2– LT

DETAIL 10
SPECIAL LATERAL BASE DITCH
(Not to Scale)

FROM STA. 25+98 TO STA. 38+00 –DET2– RT

32

RMS TIMBERLANDS, LLC

–DET2–

PI Sta 33+93.95	PI Sta 37+01.14
Δ = 29° 20' 05.3" (LT)	Δ = 29° 20' 05.3" (RT)
D = 9° 32' 57.5"	D = 9° 32' 57.5"
L = 307.19'	L = 307.19'
T = 157.04'	T = 157.04'
R = 600.00'	R = 600.00'
SE = 06	SE = 03

NOTES:
PROP PAVED SHOULDER
FOR –DET2– PROFILE, SEE SHEET 45

3/14/2022
R-5819_R5820_REU_EC_PSH2B-8_CG.dgn
USER:dfault

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 2B–7

–Y2– DETOUR

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5850	EC-10B/CONST.2B-9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS
8/17/99

NAD 83/NA 2011

BEGIN DETOUR CONSTRUCTION
–L– POT STA. 80+30.43

+53.00 –L–
200.40' LT

MARY KATHARINE SLEDGE PORT

COLUMBUS COUNTY BOARD OF EDUCATION

ATHLETICS FIELD

N 88° 50' 29.9" E
–L– US 74/76

REMOVE CONC ISLAND

REMOVE DETOUR PAVEMENT

US 74 WB/US 76 WB 32' BST

US 74 EB/US 76 EB 32' BST

+34.53

+98.88 –L–
199.55' RT

KATHARINE SLEDGE FORT

CAROLINA MEDICAL CENTER, PA

EXISTING R/W

MATCHLINE –L– STA. 85+50.00
SEE SHEET 2B–7

NOTES:
PROP PAVED SHOULDER
PAVEMENT REMOVAL

3/14/2022
\\Rdu1\Projects\R5819_R5820_REV_ECS_PSH2B-9_CG.dgn
USER:Rider, Quit

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 2B–7

–Y2– DETOUR

NV5 ENGINEERS & CONSULTANTS, INC.
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P: 919.851.1912 www.NV5.com
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PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-10C/CONST.2B-10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

8/17/99

MATCHLINE –L– STA. 95+00.00
SEE SHEET 2B–7

32
RMS TIMBERLANDS, LLC

+00.68 –L–
200.41' LT

+01.57 –L–
200.84' LT

+10.62 –L–
199.59' RT

EXISTING R/W

48" WW W/SBW

INV=50.08

INV=49.46

INV=53.37

TOP=55.79
INV=53.37

TOP=54.14
INV=51.61

12" PS

24" PS

4' PS

EX

03

04

05

+81.88

88'

REMOVE DETOUR PAVEMENT

REMOVE CONC. ISLAND

–L– US 74/76

–L– PC Sta. 96+00.63

–L–
PI Sta. 110+13.54
Δ = 27° 41' 10.3" (RT)
D = 0° 59' 57.4"
L = 2,770.62'
T = 1,412.91'
R = 5,733.71'

END DETOUR CONSTRUCTION
–L– POC STA. 99+70.21

END CONSTRUCTIO
–L– POC STA. 105+3

NAD 83/NA 2011

US 74 WB

US 74 EB/US 76 EB

CAROLINA MEDICAL CENTER, PA

WOODED

NOTES:
PROP PAVED SHOULDER
PAVEMENT REMOVAL

3/14/2022
...\R5819_R5820_REU_EC_PSH2B-10_CG.dgn
...\SE Detail.dgn

–Y1– DETOUR

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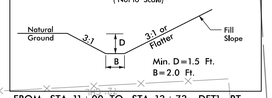
PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-11/CONST.2B-1
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99

REVISIONS

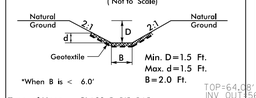
NAD 83/NA 2011

DETAIL 1
SPECIAL LATERAL BASE DITCH
(Not to Scale)



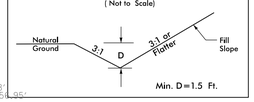
FROM STA. 11+00 TO STA. 13+73 –DET1– RT

DETAIL 2
STANDARD BASE DITCH
(Not to Scale)



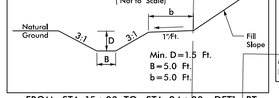
Type of Liner= CLASS B RIP RAP
AT STA. 13+73 –DET1– RT

DETAIL 3
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



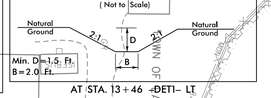
FROM STA. 13+73 TO STA. 15+00 –DET1– RT

DETAIL 4
LATERAL BASE DITCH
(Not to Scale)

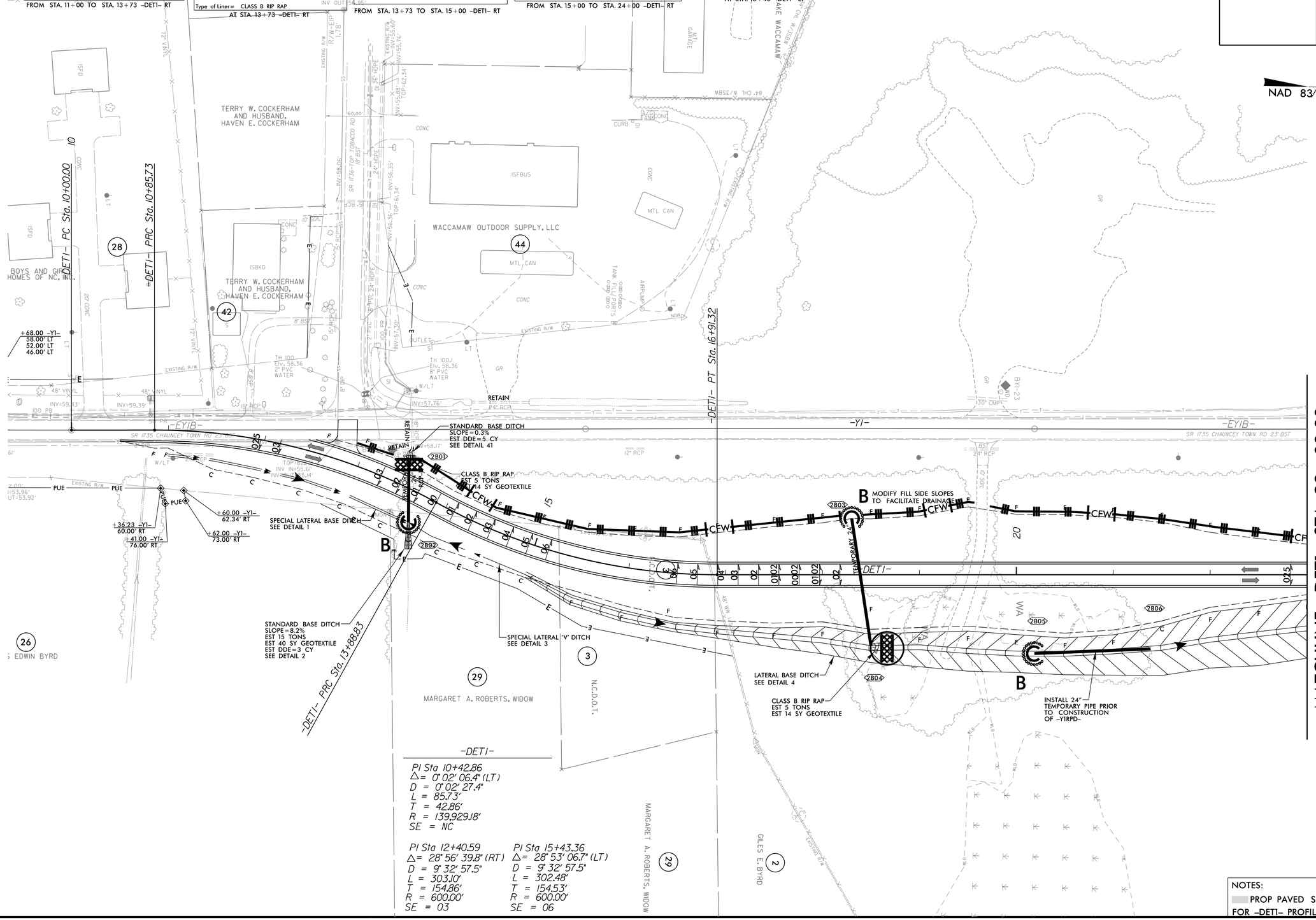


FROM STA. 15+00 TO STA. 24+00 –DET1– RT

DETAIL 4T
STANDARD BASE DITCH
(Not to Scale)



AT STA. 13+46 –DET1– LT



–DET1–

PI Sta 10+42.86
△= 0° 02' 06.4" (LT)
D = 0° 02' 27.4"
L = 85.73'
T = 42.86'
R = 139,929.18'
SE = NC

PI Sta 12+40.59
△= 28° 56' 39.8" (RT)
D = 9° 32' 57.5"
L = 303.10'
T = 154.86'
R = 600.00'
SE = 03

PI Sta 15+43.36
△= 28° 53' 06.7" (LT)
D = 9° 32' 57.5"
L = 302.48'
T = 154.53'
R = 600.00'
SE = 06

NOTES:
PROP PAVED SHOULDER
FOR –DET1– PROFILE, SEE SHEET 44

3/14/2022
R5819_R5820_REU_EC_PSH2B-1_FINAL.dgn
USER:dwolf

–Y1– DETOUR

MATCHLINE –L– STA. 18+00.00
SEE SHEET 2B–4

MATCHLINE –L– STA. 27+50.00
SEE SHEET 2B–5

MATCHLINE –DET1– STA. 23+00.00
SEE SHEET 2B–1

MATCHLINE –DET1– STA. 35+00.00
SEE SHEET 2B–3

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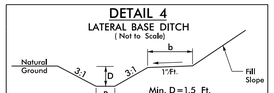
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # P-1333
formerly CALYX Engineers & Consultants

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-12/CONST.2B-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

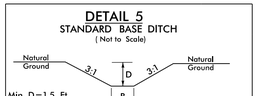
DETAIL 4
LATERAL BASE DITCH
(Not to Scale)



Min. D=1.5 Ft.
B=5.0 Ft.
b=5.0 Ft.

FROM STA. 15+00 TO STA. 24+00 –DET1– RT

DETAIL 5
STANDARD BASE DITCH
(Not to Scale)



Min. D=1.5 Ft.
B=5.0 Ft.

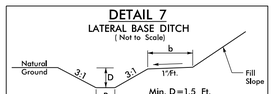
FROM STA. 24+00 TO STA. 24+87 –DET1– RT
FROM STA. 24+39 TO STA. 24+67 –DET1– LT
FROM STA. 27+33 TO STA. 27+53 –DET1– RT

DETAIL 6
STANDARD BASE DITCH
(Not to Scale)

Min. D=1.5 Ft.
B=4.0 Ft.

FROM STA. 27+53 TO STA. 28+00 –DET1– RT

DETAIL 7
LATERAL BASE DITCH
(Not to Scale)



Min. D=1.5 Ft.
B=4.0 Ft.
b=5.0 Ft.

FROM STA. 28+00 TO STA. 35+50 –DET1– RT

NAD 83/NA 2011

REVISIONS
8/17/99

STANDARD BASE DITCH
SLOPE = 0.0%
EST DDE= 80 CY
SEE DETAIL 5

CLASS B RIP RAP
EST 2 TONS
EST 7 SY GEOTEXTILE

LATERAL BASE DITCH
SEE DETAIL 4

STANDARD BASE DITCH
+/-40' AT 3.5% SLOPE
EST DDE=196 CY
SEE DETAIL 5

CLASS I RIP RAP
EST 33 TONS
EST 62 SY GEOTEXTILE

STANDARD BASE DITCH
+/-300' AT 0.1% SLOPE
EST DDE=50 CY
SEE DETAIL 5

CLASS I RIP RAP
EST 40 TONS
EST 75 SY
GEOTEXTILE

STANDARD BASE DITCH
+/-38' AT 1.7% SLOPE
EST DDE=125 CY
SEE DETAIL 6

STANDARD BASE DITCH
+/-83' AT 0.1% SLOPE
EST DDE=63 CY
SEE DETAIL 5

CLASS B RIP RAP
EST 2 TONS
EST 7 SY GEOTEXTILE

LATERAL BASE DITCH
SEE DETAIL 7

INSTALL 24"
TEMPORARY PIPE PRIOR
TO CONSTRUCTION
OF –Y1RPA–

CLASS B RIP RAP
EST 5 TONS
EST 14 SY GEOTEXTILE

MODIFY FILL SIDE SLOPES
TO FACILITATE DRAINAGE

MODIFY FILL SIDE SLOPES
TO FACILITATE DRAINAGE

–DET1– PC Sta. 34+12.46

NOTES:
PROP PAVED SHOULDER
PAVEMENT REMOVAL
FOR –DET1– PROFILE, SEE SHEET 44

DOROTHY LEE HEIRS
DOROTHY LEE JONES HEIRS
HAROLD SHAW, WIDOW

3/14/2022
R5819_R5820_REV_LEC_PSH2B-2_FINAL.dgn
USER:efaulk

–Y1– DETOUR

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-13/CONST.2B-3
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

REVISIONS 8/17/99

END DETOUR CONSTRUCTION
–DET1– POC STA. 40+50.00 = –Y1– POC STA. 51+15.77

NAD 83/NA 2011

MATCHLINE –DET1– STA. 35+00.00 SEE SHEET 2B-2

–DET1– PRC Sta. 37+76.82

–DET1– PT Sta. 42+19.70

–DET1– PRC Sta. 40+51.65

–EY1C–

–EY1C–

SR 1735 CHAUNCEY TOWN RD 22' BST

SR 1735 CHAUNCEY TOWN RD 27' BST

RETAIN

EXISTING R/W

BOATHOUSE SOLAR, LLC

JOSEPHINE B. SUTTON

WOODED

EDDIE B. MITCHELL

EDDIE B. MITCHELL

DONALD O. FREEMAN AND WIFE, GLENNETTE J. FREEMAN

SEPTIC

MELISSA A. CAMPBELL

ISFD

ISRAEL CAMPBELL AND WIFE, JACQUELINE F. CAMPBELL

W/LT

HTR

MTL CAN

DAVID B. GOLDSTON, JR.

EDDIE LEE JONES HEIRS

JONES

DOROTHY LEE JONES HEIRS

WOODS

SPECIAL LATERAL BASE DITCH SEE DETAIL 8

LATERAL BASE DITCH SEE DETAIL 7

TEMPORARY 18"

+10.19 –Y7– 75.00' RT

+81.00 –Y7– 72.48' RT

+18.99 –DET1– 62.00' RT

+58.00 –Y7– 50.00' LT 45.91' LT

+07.72 –Y7– 50.00' LT

INV=61.37'

INV=61.80'

15" RCP

18" RCP

50 PR

60" RCP

6' HDPE

15" RCP

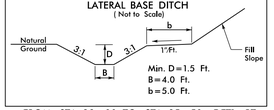
–DET1–

PI Sta 36+00.46
Δ = 34° 47' 39.6" (LT)
D = 9° 32' 57.5"
L = 364.37'
T = 188.00'
R = 600.00'
SE = 06

PI Sta 39+06.19
Δ = 24° 20' 01.3" (RT)
D = 9° 32' 57.5"
L = 254.82'
T = 129.36'
R = 600.00'
SE = 03

PI Sta 41+25.68
Δ = 0° 32' 36.0" (LT)
D = 0° 17' 20.2"
L = 188.05'
T = 94.03'
R = 19,830.00'
SE = NC

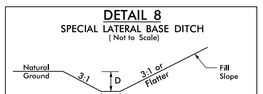
DETAIL 7
LATERAL BASE DITCH
(Not to Scale)



Min. D=1.5 Ft.
B=4.0 Ft.
b=5.0 Ft.

FROM STA. 28+00 TO STA. 35+50 –DET1– RT

DETAIL 8
SPECIAL LATERAL BASE DITCH
(Not to Scale)



Min. D=1.5 Ft.
B=4.0 Ft.

FROM STA. 35+50 TO STA. 40+50 –DET1– RT

NOTES:
PROP PAVED SHOULDER
FOR –DET1– PROFILE, SEE SHEET 44

3/14/2022
I:\5819_R5820.REU_EC_PSH2B-3_FINAL.dgn
USER:
E-Bidder Suite

–Y1– DETOUR

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
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P: 919.851.1912 www.NV5.com
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PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-14/CONST.2B-4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

8/17/99

NAD 83/NA 2011

+90.00 –Y1RPB–
112.00' LT
102.48' LT

+58.00 –Y1RPB–
112.00' LT
106.00' LT
101.81' LT

PDE

+30.43 –Y1RPB–
99.00' LT

72" CML W/SSBW

48" WW I/SBW

EXISTING R/W

MON

SS MH

SS

BOATHOUSE SOLAR, LLC (1)

WOODED

WB/US 76 WB 32" BST

–ELWB–

US 74 WB/US 76 WB 32" BST

EX

–EL–

DI
TOP=64.42'
INV=61.49'

–ELEB–

EB/US 76 EB 32" BST

US 74 EB/US 76 EB 32" BST

BL-3

BL-4

INV=58.99'

MATCHLINE –L– STA. 18+00.00
SEE SHEET 2B-2

DI
TOP=62.09'
INV=59.01'

12" PVC

DI
TOP=63.01'
INV IN=59.61'
INV OUT=59.60'

12" PVC

END UNK

CONC

CONC

NOTES:
PROP PAVED SHOULDER
PAVEMENT REMOVAL

3/14/2022
I:\R5819_R5820_REV\EC_PSH2B-4_FINAL.dgn
User:Rdeitrick

–Y1– DETOUR

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CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1313
formerly CALYX Engineers & Consultants

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-15/CONST.2B-5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

MATCHLINE –L– STA. 27+50.00
SEE SHEET 2B–2

N.C.D.O.T.

TERRY ANNE WARD COCKERHAM 2001 TRUST
TERRY ANNE WARD COCKERHAM, TRUSTEE

TERRY W. COCKERHAM

CEASAR LAVENDER, SR. HEIRS

WOODED

Trib-6 WK

Trib-7

JS-NORMAT JS

EXISTING R/W

48" WW I/SBW

US 74 WB/US 76 WB 32' BST

US 74 EB/US 76 EB 32' BST

–L–

TEMPORARY
72"

DI
TOP=60.17'
INV=57.59'

DI
TOP=58.45'
INV=55.79'

BL-6

BL-7

INV=56.33'

INV=55.42'

+87.00 –Y1RPD–
90.43' LT

+55.00 –Y1RPD–
130.00' LT

+31.00 –Y1RPD–
97.97' LT

PDE

TERRY W. COCKERHAM

WB

NOTES:
PROP PAVED SHOULDER
PAVEMENT REMOVAL

REVISIONS

8/17/99

3/14/2022
R5819_R5820_REU_EC_PSH2B-5_FINAL.dgn
SE Bridge Out

–Y2– DETOUR

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-16/CONST 2B-6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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3300 REGENCY PARKWAY, SUITE 100
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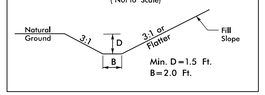
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

NAD 83/NA 2011

DETAIL 1
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 12+65 TO STA. 14+61 –DET2– RT
FROM STA. 14+75 TO STA. 22+50 –DET2– LT

HALLSBORO CONSTRUCTION COMPANY, INC.

CAREY F. BLANKS

JOHNIE KEETER, SR.

VERNON L. KEETER

CAROLINA MEDICAL CENTER, PA

Creek Branch

SR 1740 OLD LAKE RD 20' BST

–EY2B– 75 PR

EXISTING R/W

RETAIN

SPECIAL LATERAL BASE DITCH SEE DETAIL 1

CLASS B RIP RAP EST 3 TONS EST 10 SY GEOTEXTILE

N 0° 18' 04.9" W

MATCHLINE –DET2– STA. 18+50.00
SEE SHEET 2B–7

CAROLINA MEDICAL CENTER, PA

–DET2–

PI Sta 11+08.88	PI Sta 13+57.48	PI Sta 16+32.86
Δ = 0° 22' 50.1" (LT)	Δ = 32° 08' 21.9" (RT)	Δ = 32° 51' 46.3" (LT)
D = 0° 10' 29.2"	D = 11° 48' 48.8"	D = 11° 48' 48.8"
L = 217.76'	L = 272.06'	L = 278.18'
T = 108.88'	T = 139.71'	T = 143.03'
R = 32,783.83'	R = 485.00'	R = 485.00'
SE = EX	SE = 03	SE = 06

NOTES:
PROP PAVED SHOULDER
FOR –DET2– PROFILE, SEE SHEET 45

REVISIONS 8/17/99

3/14/2022
R5819_R5820_REV_EC_PSH2B-6_FINAL.dgn
IIIS Bidder 01

8/17/99

REVISIONS

MATCHLINE –L– STA. 85+50.00
SEE SHEET 2B–9

–Y2– DETOUR

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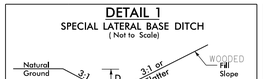
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1332
formerly CALYX Engineers & Consultants

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-17/CONST.2B-7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

DETAIL 1
SPECIAL LATERAL BASE DITCH
(Not to Scale)



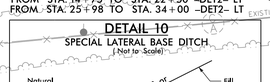
FROM STA. 14+75 TO STA. 22+50 –DET2– LT
FROM STA. 25+98 TO STA. 34+00 –DET2– LT

DETAIL 9
BANK STABILIZATION
(Not to Scale)

Type of Liner= CLASS I RIPRAP

FROM STA. 25+86 TO 25+98 –DET2– LT
FROM STA. 25+84 TO 25+98 –DET2– RT

DETAIL 10
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 25+98 TO STA. 38+00 –DET2– RT

MEDICAL CENTER, PA
48" WW W/ISBW
ISBW
EXISTING R/W
WOODED
GRASS
–7–
+73.58
249.59' RT
+46.00
4'
PS
36'
+02.00
100' LANE TAPER
+30.00
COLUMBUS COUNTY BOARD OF EDUCATION
ATHLETICS FIELD
33
+98.67
200.50' LT
50 PR
LYNNON ST
25 PR
–Y2– OLD LAKE RD
–EY2B–
SR 1740 OLD LAKE RD 20' BST
8" PVC
BY2-32
–Y2– OLD LAKE RD
CLASS I RIP RAP
ON BANKS ONLY
EST 13 TONS
EST 18 SY GEOTEXTILE
BANK STABILIZATION
W/CLASS I RIP RAP
EST 8 TONS
EST 11 SY GEOTEXTILE
SEE DETAIL 9
N 0° 18' 04.9" W
SPECIAL LATERAL BASE DITCH
SEE DETAIL 1
R=60'
4'
PS
36'
24'
70' TAPER
+20.14
2'
PS
20
22'
–DET2–
25
30
WOODED
CFW
+34.00
+64.00
21'
INC
+72.54
125' LANE
TAPER
LT & RT
+87.92
+67.92
+94.00
BANK STABILIZATION
W/CLASS I RIP RAP
EST 9 TONS
EST 12 SY GEOTEXTILE
SEE DETAIL 9
CLASS I RIP RAP
ON BANKS ONLY
EST 5 TONS
EST 9 SY GEOTEXTILE
+79.07 –DET2–
33.00' RT
+53.00 –DET2–
53.00' RT
SPECIAL LATERAL BASE DITCH
SEE DETAIL 10
48" WW W/ISBW
US 74 EB/US 76 EB 3' BST
US 74 WB/US 76 WB 3' BST
CAROLINA MEDICAL CENTER, PA
RMS TIMBERLANDS, LLC
32

MATCHLINE –DET2– STA. 18+50.00
SEE SHEET 2B–6

MATCHLINE –DET2– STA. 31+00.00
SEE SHEET 2B–8

MATCHLINE –L– STA. 95+00.00
SEE SHEET 2B–10

NOTES:
PROP PAVED SHOULDER
PAVEMENT REMOVAL
FOR –DET2– PROFILE, SEE SHEET 45

3/14/2022
R5819_R5820_REU_EC_PSH2B-7_FINAL.dgn
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–Y2– DETOUR

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-17A/CONST.2B-8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

END DETOUR CONSTRUCTION
–DET2– POT STA. 38+67.00 = –Y2– POT STA. 54+20.58

NAD 83/NA 2011

–DET2– POT Sta. 41+46.42

–DET2– PC Sta. 32+36.90

–DET2– PRC Sta. 35+44.10

–DET2– PT Sta. 38+51.29

MATCHLINE –DET2– STA. 31+00.00
SEE SHEET 2B–7

N 0° 18' 04.9" W

–Y2– OLD LAKE RD

–EY2C–

SR 1740 OLD LAKE RD 22' BST

150' LANE TAPER RT

SPECIAL LATERAL BASE DITCH SEE DETAIL 1

SPECIAL LATERAL BASE DITCH SEE DETAIL 10

ATHLETICS FIELD

COLUMBUS COUNTY BOARD OF EDUCATION

33

MTL BLEACHERS

PRESS BOX

PUMP STATION

WOODED

WOODS

24' POSTS

+91.94 –Y2– 96.00' LT 91.00' LT
+12.00 –Y2– 88.00' LT 80.00' LT
+37.88 –Y2– 50.13' LT
+43.00 –Y2– 87.00' LT
+21.00 –Y2– 65.00' LT
+06.00 –Y2– 50.13' LT 65.00' LT
+19.00 –Y2– 87.00' LT
+50.00 –Y2– 53.00' LT
+04.00 –Y2– 54.00' LT 66.00' LT
+33.00 –Y2– 54.00' LT 66.00' LT
+02.00 –Y2– 55.00' LT 66.00' LT
+31.00 –Y2– 50.13' LT 66.00' LT
+00.00 –Y2– 50.13' LT 66.00' LT
+28.00 –Y2– 50.13' LT 66.00' LT
+03.00 –Y2– 50.13' LT 66.00' LT
+50.00 –Y2– 88.00' LT 65.00' LT 50.13' LT
+32.00 –Y2– 50.13' LT 66.00' LT
+88.36 –Y2– 50.00' RT
+85.37 –Y2– 72.00' RT
+80.00 –Y2– 61.00' RT
+37.89 –Y2– 210.34' RT
+88.10 –DET2– 50.00' RT
+68.00 –DET2– 53.00' RT
+48.00 –DET2– 54.00' RT
+28.61 –DET2– 50.00' RT
+40.00 –DET2– 53.00' RT

TOP=59.17' INV IN=52.01' INV OUT=51.92'
TOP=57.57' INV IN=53.93' INV OUT=52.78' DI
TOP=58.85' INV IN (W)=50.68' INV OUT=50.68'
TOP=57.48' INV IN (N)=51.08' INV IN (W)=51.07' INV OUT=50.99'
TOP=57.37' INV IN=51.28' INV OUT=51.28'
TOP=57.28' INV IN=52.79' INV OUT=52.79'
TOP=57.40' INV IN=52.07' INV OUT=52.05'
TOP=56.98' INV IN (N)=51.11' INV IN (W)=52.24' INV OUT=52.63'

INV=50.73'
INV=50.49'

100 PR
25 PR

BY2-30

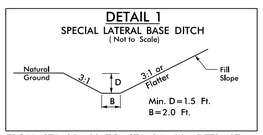
RW

EXISTING R/W

60' PRIVATE EASEMENT

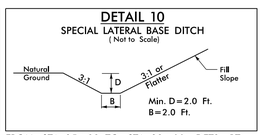
12' SOIL

DETAIL 1
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 25+98 TO STA. 34+00 –DET2– LT

DETAIL 10
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 25+98 TO STA. 38+00 –DET2– RT

32

RMS TIMBERLANDS, LLC

–DET2–

PI Sta 33+93.95	PI Sta 37+01.14
Δ = 29° 20' 05.3" (LT)	Δ = 29° 20' 05.3" (RT)
D = 9° 32' 57.5"	D = 9° 32' 57.5"
L = 307.19'	L = 307.19'
T = 157.04'	T = 157.04'
R = 600.00'	R = 600.00'
SE = 06	SE = 03

NOTES:
PROP PAVED SHOULDER
FOR –DET2– PROFILE, SEE SHEET 45

REVISIONS 8/17/99

3/14/2022
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8/17/99

REVISIONS

–Y2– DETOUR

NV5

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1393
formerly CALYX Engineers & Consultants

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5850	EC-17B/CONST.2B-9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

52
MARY KATHARINE SLEDGE FORT

33
COLUMBUS COUNTY BOARD OF EDUCATION

COLUMBUS COUNTY BOARD OF EDUCATION

ATHLETICS FIELD

+53.00 –L–
200.40' LT

BEGIN DETOUR CONSTRUCTION
–L– POT STA. 80+30.43

INV=51.56'

INV=51.12'

US 74 WB/US 76 WB 32' BST

US 74 EB/US 76 EB 32' BST

–EL–

TOP=56.20'
INV=53.47'

TOP=56.08'
INV=53.13'

+34.53

BL-11

KATHARINE SLEDGE FORT

WOODED

CAROLINA MEDICAL CENTER, PA

+98.88 –L–
199.55' RT

MATCHLINE –L– STA. 85+50.00
SEE SHEET 2B–7

NOTES:
PROP PAVED SHOULDER
PAVEMENT REMOVAL

3/14/2022
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–Y2– DETOUR

NV5
NV5 ENGINEERS & CONSULTANTS, INC.
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formerly CALYX Engineers & Consultants

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-17C/CONST.2B-10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99

REVISIONS

32

RMS TIMBERLANDS, LLC

NAD 83/NA 2011

MATCHLINE –L– STA. 95+00.00
SEE SHEET 2B-7

+00.68 –L–
200.41' LT

+01.57 –L–
200.84' LT

EXISTING R/W

48" WW W/ISBW

JS JS MIT

INV=50.19'

EX EX

4' RS

F

+81.88

–EL–

Dia. CONC

TOP=55.79'
INV=53.34'

BL-13

INV=49.46'

TOP=54.44'
INV=51.61'

US 74 WB

GR

BL-14

END DETOUR CONSTRUCTION
–L– POC STA. 99+70.21

US 74 EB/US 76 EB

+10.62 –L–
199.59' RT

48" WW W/ISBW

EXISTING R/W

CAROLINA MEDICAL CENTER, PA

WOODED

WOODED

NOTES:
PROP PAVED SHOULDER
PAVEMENT REMOVAL

3/14/2022
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CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

CALYX
ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-18/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS
8/17/99

NAD 83/NA 2011

1
BOATHOUSE SOLAR, LLC

EXISTING R/W
48" WW 175BW
MON
WOODED
TOP TOBACCO, L.P.

US 74 WB/US 76 WB 32' BST
-ELWB-
-ELEB-
US 74 EB/US 76 EB 32' BST
-LWB- US 74/76
-LEB- US 74/76
EX 025
R5819-102
INV-62.25
RETAIN
B

MATCHLINE -LWB- STA. 24+00.00
SEE SHEET 5

-LEB- PT Sta. 23+74.29

-LEB-
PI Sta 16+87.23
Δ = 2°14'05.1" (LT)
D = 0°09'45.4"
L = 1,374.29'
T = 687.23'
R = 35,235.00'
SE = NC

-LWB-
PI Sta 21+47.57
Δ = 3°46'28.9" (LT)
D = 0°09'52.3"
L = 2,294.30'
T = 1,147.57'
R = 34,825.00'
SE = NC

NOTES:

PROP PAVED SHOULDER
FOR –LEB– PROFILE, SEE SHEET 18
FOR –LWB– PROFILE, SEE SHEET 19

3/14/2022
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8/17/99

REVISIONS

CALYX
ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-19/CONST.05
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

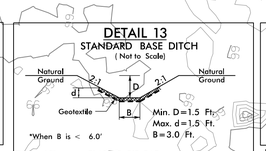
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

DETAIL 1
SPECIAL LATERAL BASE DITCH
(Not to Scale)

Min. D=1.5 Ft.
B=5.0 Ft.

FROM STA. 33+50 TO STA. 39+18 -LWB- RT

DETAIL 13
STANDARD BASE DITCH
(Not to Scale)

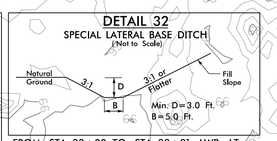


Min. D=1.5 Ft.
Max. d=1.5 Ft.
B=3.0 Ft.

*When B is < 6.0'

Type of Liner= CLASS B RIP RAP
AT STA. 15+96 -Y1RPB- LT
DDE = 20 CY

DETAIL 32
SPECIAL LATERAL BASE DITCH
(Not to Scale)



Min. D=3.0 Ft.
B=5.0 Ft.

FROM STA. 33+00 TO STA. 38+81 -LWB- LT

NAD 83/NA 2011

BOATHOUSE SOLAR, LLC

-YIRPB- ST Sta. 10+00.00 =
-LWB- Sta. 29+56.42, Off. 24.00'

-YIRPB- SC Sta. 11+80.00

-LWB- PT Sta. 32+94.30

STANDARD BASE DITCH
W/CLASS B RIP RAP
SLOPE=11.0%
EST 15 TONS
EST 35 SY GEOTEXTILE
EST DDE=20 CY
SEE DETAIL 13

+30.43 -Y1RPB
99.00' LT

SPECIAL LATERAL BASE DITCH
SEE DETAIL 32

MATCHLINE -LWB- STA. 24+00.00
SEE SHEET 4

MATCHLINE -LWB- STA. 37+00.00
SEE SHEET 6

-LWB- US 74/76

-LEB- US 74/76

-YIRPB-

US 74 WB/US 76 WB 32' BST

N 88° 50' 29.9" E

-ELEB-
US 74 EB/US 76 EB 32' BST

S 88° 09' 30.1" E

-YIRPC-

ADJUST 2GI

RETAIN

2GI

TRENCHLESS INSTALLATION
15" WELDED STEEL

EX0502

CLASS B RIP RAP
EST 2 TONS
EST 7 SY GEOTEXTILE

COLLAR AND EXTEND
EXISTING 15" RCP

SPECIAL LATERAL BASE DITCH
SEE DETAIL 1

-YIRPC- TS Sta. 13+01.89

-YIRPC- SC Sta. 15+41.89

CLASS B RIP RAP
EST 2 TONS
EST 7 SY GEOTEXTILE

48" WW I/SBW

EXISTING R/W

WOODED

GRASS

TOP TOBACCO, L.P.

-LWB-
PI Sta 21+47.57
Δ = 3° 46' 28.9" (LT)
D = 0° 09' 52.3"
L = 2,294.30'
T = 1,147.57'
R = 34,825.00'
SE = NC

-YIRPB-

PIs Sta 11+20.01	PI Sta 16+23.04
Θs = 1° 43' 07.9"	Δ = 16° 48' 05.3" (LT)
Ls = 180.00'	D = 1° 54' 35.5"
LT = 120.01'	L = 879.72'
ST = 60.01'	T = 443.04'
	R = 3,000.00'
	SE = 06

-YIRPC-

PIs Sta 14+61.94	PI Sta 18+27.94
Θs = 4° 24' 26.5"	Δ = 20° 46' 51.2" (RT)
Ls = 240.00'	D = 3° 40' 22.1"
LT = 160.05'	L = 565.80'
ST = 80.05'	T = 286.04'
	R = 1,560.00'
	SE = 08

NOTES:
PROP PAVED SHOULDER
FOR -LEB- PROFILE, SEE SHEET 18
FOR -LWB- PROFILE, SEE SHEET 19
FOR -Y1RPB- PROFILE, SEE SHEET 28
FOR -Y1RPC- PROFILE, SEE SHEET 29

3/14/2022
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USER:dlevitt

8/17/99

REVISIONS

ROW REVISION - 10/22/2021 - UPDATED PARCEL OWNER NAME ON PARCEL 38.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

SKETCH SHOWING BRIDGE IN RELATION TO PAVEMENT - NOT TO SCALE

MATCHLINE –Y1– STA. 47+00.00
SEE SHEET 15

MATCHLINE –LWB– STA. 37+00.00
SEE SHEET 5

MATCHLINE –L– STA. 34+00.00
SEE SHEET 7

MATCHLINE –Y1– STA. 28+00.00
SEE SHEET 14

60 x 30 x 2
1.5 inch Skimmer
with .875 inch
Orifice Diameter
7 ft. weir
ID 6.2

50 x 25 x 2
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
5 ft. weir
ID 6.1

55 x 25 x 2
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
5 ft. weir
ID 6.3

DETAIL 1
SPECIAL LATERAL BASE DITCH
(Not to Scale)
FROM STA 33+50 TO STA 39+18 -LWB- RT
FROM STA 39+18 TO STA 39+90 -LWB- LT
FROM STA 41+00 TO STA 51+00 -LWB- LT
FROM STA 20+60 TO STA 29+00 -1R- LT
FROM STA 27+50 TO STA 29+00 -1R- RT

DETAIL 2
STANDARD BASE DITCH
(Not to Scale)
FROM STA 18+02 TO 18+23 -1RPC- RT
DDE = 15 CY

DETAIL 3
SPECIAL LATERAL V DITCH
(Not to Scale)
FROM STA 18+02 TO STA 18+50 -1RPC- RT

DETAIL 4
STANDARD BASE DITCH
(Not to Scale)
FROM STA 19+19 TO 20+30 -Lw- LT
FROM STA 19+66 TO 20+47 -L- RT
DDE = 268 CY
FROM STA 36+05 TO 36+54 -Y1- RT
DDE = 60 CY
FROM STA 50+50 TO 51+58 -Y1- LT
DDE = 240 CY
FROM STA 36+54 TO 36+98 -Y1- RT
DDE = 195 CY

DETAIL 5
LATERAL BASE DITCH
(Not to Scale)
FROM STA 39+00 TO STA 51+95 -Y1- RT
FROM STA 33+00 TO STA 36+00 -Y1- RT
DDE = 2099 CY

DETAIL 6
LATERAL BASE DITCH
(Not to Scale)
FROM STA 40+00 TO STA 42+86 -Y1- LT
DDE = 1057 CY
FROM STA 40+00 TO STA 43+00 -Y1- RT
DDE = 1223 CY
FROM STA 46+00 TO STA 47+50 -Y1- RT
DDE = 723 CY
FROM STA 43+00 TO STA 47+50 -Y1- RT
DDE = 3404 CY

DETAIL 7
LATERAL BASE DITCH
(Not to Scale)
FROM STA 32+10 TO 32+50 -Y1- RT
DDE = 176 CY

DETAIL 8
MEDIAN V DITCH
(Not to Scale)
FROM STA 32+50 TO STA 33+50 -L- LT
FROM STA 32+98.88 TO STA 33+00 -L- RT

DETAIL 9
STANDARD BASE DITCH
(Not to Scale)
FROM STA 18+02 TO STA 18+23 -1RPA- LT
DDE = 15

DETAIL 10
STANDARD BASE DITCH
(Not to Scale)
FROM STA 18+70 -1YRPB- LT
DDE = 15 CY

DETAIL 20
STANDARD BASE DITCH
(Not to Scale)
Table of Stone - CLASS B RIP RAP

DETAIL 29
STANDARD BASE DITCH
(Not to Scale)
FROM STA 31+00 TO 32+50 -L- LT

DETAIL 30
SPECIAL LATERAL BASE DITCH
(Not to Scale)
FROM STA 32+00 TO STA 43+00 -L- LT
FROM STA 36+24 TO STA 38+85 -1YRPA- RT

DETAIL 31
STANDARD BASE DITCH
(Not to Scale)
FROM STA 32+27 TO 32+88 -L- RT
DDE = 13 CY

DETAIL 32
SPECIAL LATERAL BASE DITCH
(Not to Scale)
FROM STA 33+00 TO STA 38+81 -LWB- LT
FROM STA 19+50 TO STA 19+70 -1YRPB- LT

DETAIL 38
STANDARD BASE DITCH
(Not to Scale)
FROM STA 43+62 TO STA 19+60 -1YRPD- LT
DDE = 350 CY

NOTES:
PROP CONC. MEDIAN
PROP PAVED SHOULDER
FOR –LEB– PROFILE, SEE SHEET 26
FOR –LWB– PROFILE, SEE SHEET 27
FOR –L– PROFILE, SEE SHEET 28
FOR –Y1– PROFILE, SEE SHEET 32
FOR –Y1RPA– PROFILE, SEE SHEET 39
FOR –Y1RPB– PROFILE, SEE SHEET 40
FOR –Y1RPC– PROFILE, SEE SHEET 41
FOR –Y1RPD– PROFILE, SEE SHEET 42
FOR –Y1ROUND1– PROFILE, SEE SHEET 46
FOR –Y1ROUND2– PROFILE, SEE SHEET 46

GRAPHIC SCALE
50 25 0 50 100
PLANS

NAD 83/NA 2011

PROJECT REFERENCE NO.	SHEET NO.
R-5819 /R-5820	EC-20/CONST.06
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NIV15
NIV5 ENGINEERS & CONSULTANTS, PLLC.
1101 HAYNES STREET
CARY, NC 27513
PH 919.800.5312 www.NIV5.com
NC FIRM LICENSE NUMBER: P-1339

3/15/2022
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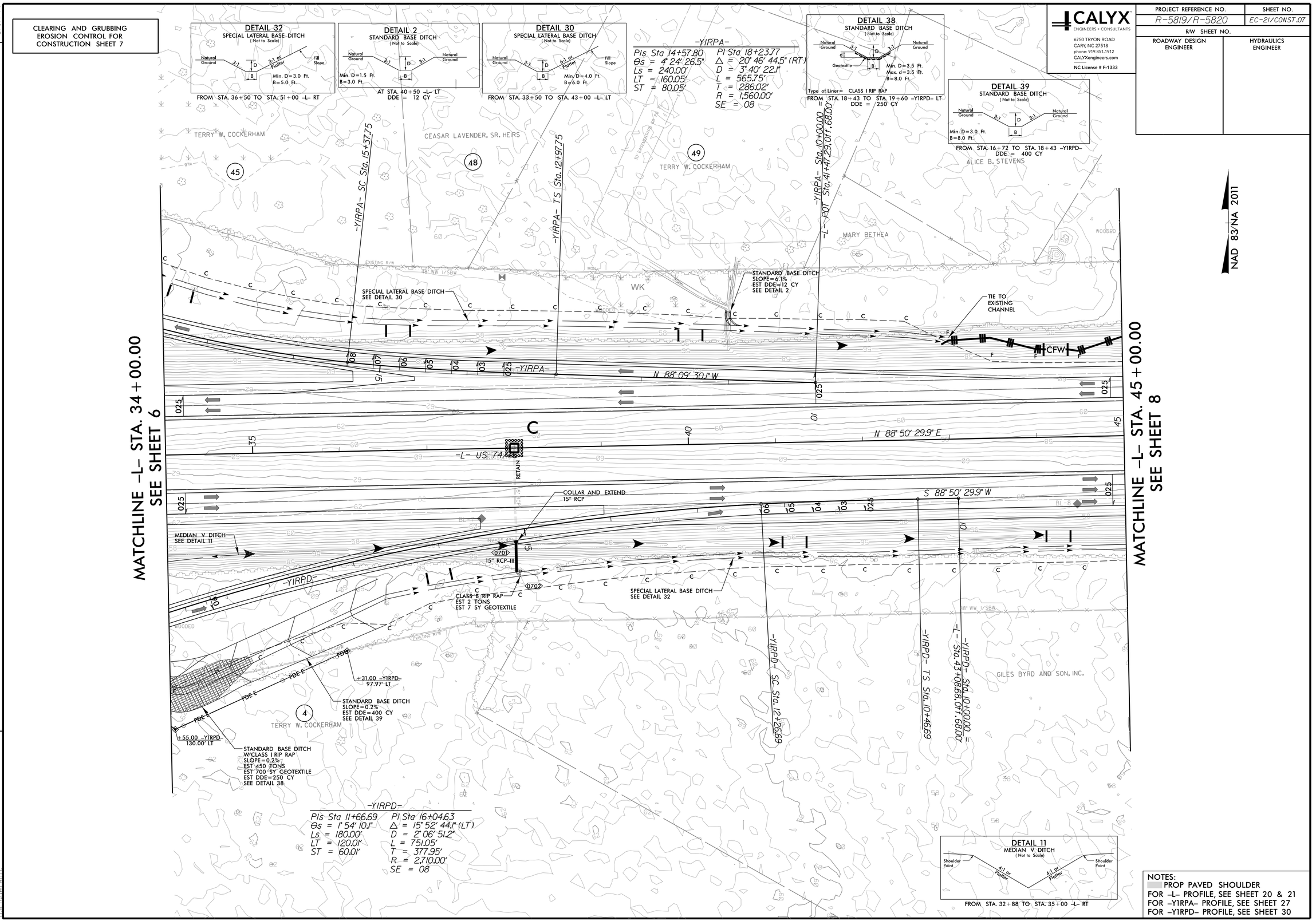
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

REVISIONS
8/17/99



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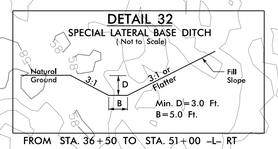
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

DETAIL 32
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 36+50 TO STA. 51+00 -L- RT

CALYX
ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-22/CONST.08
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

REVISIONS
8/17/99

MATCHLINE -L- STA. 45+00.00
SEE SHEET 7

MATCHLINE -L- STA. 59+00.00
SEE SHEET 9

LES BYRD AND SON, INC.
49
TERRY W. COCKERHAM
WOODED
52
MARY KATHARINE SLEDGE FORT
WOODED
EXISTING R/W
MON
48" WW
SBW
WK
CFW
F
025
US 74 WB/US 76 WB 32' BST
US 74 EB/US 76 EB 32' BST
C
2GI-D
0801
TOP=56.78
INV=54.78
TRENCHLESS INSTALLATION 18" WELDED STEEL
REMOVE
PLUG PIPE
N 88° 50' 29.9" E
-L- US 74/76
0803
2GI-D
0804
-EL-
GRASS
R5819-103
R5819-104
CLASS B RIP RAP
EST 3 TONS
EST 10 SY GEOTEXTILE
SPECIAL LATERAL BASE DITCH
SEE DETAIL 32
CLASS B RIP RAP
EST 2 TONS
EST 7 SY GEOTEXTILE
MARY KATHARINE SLEDGE FORT
WLB
GAS
FO
T

NOTES:
PROP PAVED SHOULDER

FOR -L- PROFILE, SEE SHEET 21

3/14/2022
R5819_R5820_REU_EC_PSH8_CO.dgn
USER:default

8/17/99

REVISIONS

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

DETAIL 11
MEDIAN V DITCH
(Not to Scale)

FROM STA. 60+00 TO STA. 64+20 -L- CL
FROM STA. 68+53 TO STA. 72+13 -L- CL

CALYX
ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-23/CONST.09
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

MATCHLINE -L- STA. 59+00.00
SEE SHEET 8

MATCHLINE -L- STA. 72+00.00
SEE SHEET 10

52
MARY KATHARINE SLEDGE FORT

MARY A. MACK

RGS CONSTRUCTION,INC.

SR 1305 RIC 527

N 88° 50' 29.9" E
-L- US 74/76

MEDIAN V DITCH
SEE DETAIL 11

<0901> Proj. DI
TOP=55.51
INV=51.51
RETAIN

<0902> Proj. DI
TOP=55.51
INV=51.51
RETAIN

CFW

WOODED

WC

EXISTING R/W

MON

8" WW I/SBW

48" WW I/SBW

WLB

025

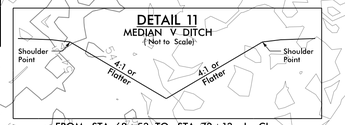
NOTES:
PROP PAVED SHOULDER

FOR -L- PROFILE, SEE SHEET 21 & 22

3/14/2022
...\R5819_R5820_REV_EC_PSH9_CO.dgn
USER:default

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10

DETAIL 11
MEDIAN V DITCH
(Not to Scale)



FROM STA. 68+53 TO STA. 72+13 -L- CL
FROM STA. 77+59 TO STA. 80+00 -L- CL
FROM STA. 82+27 TO STA. 89+31 -L- CL

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ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-24/CONST.10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS
8/17/99

MATCHLINE -L- STA. 72+00.00
SEE SHEET 9

NAD 83/NA 2011

52 MARY KATHARINE SLEDGE FORT

33 COLUMBUS COUNTY BOARD OF EDUCATION

WJ

48" WW W/SBW

REMOVE +/-15' 15" RCP

CLASS B RIP RAP EST 2 TONS EST 7 SY GEOTEXTILE

COLLAR AND EXTEND

1004 1003

REMOVE +/-13' 15" RCP

1006 1005

RETAIN

CFW

025

US 74 WB/US 76 WB 32' BST

COLLAR AND EXTEND

1002 RCP-IV

2GI

N 88° 50' 29.9" E
-L- US 74/76

REMOVE +/-11' 15" RCP

1001

REMOVE

MEDIAN V DITCH SEE DETAIL 11

-EL-

DI 1004

US 74 EB/US 76 EB 32' BST

MATCHLINE -L- STA. 85+00.00
SEE SHEET 11

WOODED

MARY KATHARINE SLEDGE FORT

EXISTING R/W

CAROLINA MEDICAL CENTER, PA

NOTES:
PROP PAVED SHOULDER

FOR -L- PROFILE, SEE SHEET 22

3/14/2022
R5819_R5820_REV_EC_PSH10_CG.dgn
USER: rider.quit

8/17/99

REVISIONS

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 11

UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE – C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC

MATCHLINE –L– STA. 85+00.00 SEE SHEET 10

MATCHLINE –Y2– STA. 44+00.00 SEE SHEET 17

MATCHLINE –L– STA. 97+00.00 SEE SHEET 12

MATCHLINE –Y2– STA. 34+50.00 SEE SHEET 16

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6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

PROJECT REFERENCE NO.	SHEET NO.
R-5819 /R-5820	EC-25/CONST.JI
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

-Y2-
PI Sta 30+35.83
△ = 1° 29' 17.3" (LT)
D = 0° 10' 29.2"
L = 851.49'
T = 425.77'
R = 32,783.83'
SE = NC

PI Sta 35+45.35
△ = 0° 23' 02.8" (RT)
D = 0° 13' 45.1"
L = 167.60'
T = 83.80'
R = 25,000.00'
SE = NC

-L-
PI Sta 110+13.54
△ = 27° 41' 10.3" (RT)
D = 0° 59' 57.4"
L = 2,770.62'
T = 1,412.91'
R = 5,733.71'
SE = 04

+87.00 –DET2– 53.00' RT
+70.07 –DET2– 55.00' RT

LATERAL BASE DITCH SEE DETAIL 16
LATERAL BASE DITCH SEE DETAIL 18
IMPERVIOUS DIKE
IMPERVIOUS DIKE
BEGIN SBG +51
END SBG +79
CONCRETE SLOPE PROTECTION
CLASS I RIP RAP EST 570 TONS EST 750 SY GEOTEXTILE
CLASS B RIP RAP EST 2 TONS 7 SY GEOTEXTILE
REMOVE EXISTING 2@6'X6' RCBC EST DDE=1050 CY
TRENCHLESS INSTALLATION 15" WELDED STEEL
MEDIAN V DITCH SEE DETAIL 11
MEDIAN V DITCH SEE DETAIL 11
LATERAL BASE DITCH SEE DETAIL 21
LATERAL BASE DITCH SEE DETAIL 21

ATHLETICS FIELD
COLUMBUS COUNTY BOARD OF EDUCATION
CAROLINA MEDICAL CENTER, PA
RMS TIMBERLANDS, LLC
OUTLET
EXISTING R/W
RETAIN

15" RCP-IV
TSD
CFW
TB 2GI 1101
TB 2GI 1102
1107 2GI
1108
TB 2GI 1103
TB 2GI 1104
1105 TB 2GI
1106 TB 2GI
1109 DI

N 88° 50' 29.9" E
-L- US 74/76
-L- POT Sta. 89+49.48
-Y2- POT Sta. 40+06.72
-Y2- PT Sta. 36+29.15
-Y2- PRC Sta. 34+61.55
-L- PC Sta. 96+00.

US 74 WB/US 76 WB 3F BST
US 74 EB/US 76 EB 3F BST
INV=50.08
INV=53.34

DETAIL 16
LATERAL BASE DITCH
(Not to Scale)
Natural Ground
GEOTEXTILE
Min. D = 4
Max. d = 4
B = 4.0 Ft
b = 5.0 Ft
Type of Liner = CLASS B RIP RAP
FROM STA. 41+52 TO STA. 48+50 –Y2– LT
DDE = 2561 CY

DETAIL 11
MEDIAN V DITCH
(Not to Scale)
Shoulder Point
4:1 or Flatter
FROM STA. 82+27 TO STA. 89+31 –L– CL
FROM STA. 94+32 TO STA. 99+30 –L– CL

DETAIL 21
LATERAL BASE DITCH
(Not to Scale)
Natural Ground
Fill Slope
Min. D=1.5 Ft.
B=2.0 Ft.
b=5.0 Ft.
FROM STA. 31+00 TO STA. 38+50 –Y2– LT, DDE = 807 CY
FROM STA. 32+00 TO STA. 38+50 –Y2– RT, DDE = 677 CY

DETAIL 18
LATERAL BASE DITCH
(Not to Scale)
Natural Ground
Fill Slope
Min. D=2.0 Ft.
B=3.0 Ft.
b=5.0 Ft.
FROM STA. 41+62 TO STA. 46+50 –Y2– RT, DDE = 3,404 CY

REMOVAL OF EXISTING CULVERT
CONSTRUCTION SEQUENCE
STA. 41+58 –Y2–

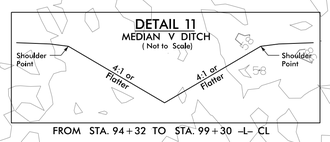
1. INSTALL IMPERVIOUS DIKE UPSTREAM AND DOWNSTREAM OF CULVERT.
2. UTILIZE SPECIAL STILLIING BASIN(S) UPSTREAM AND DOWNSTREAM TO DEWATER WORK AREA.
3. REMOVE EXISTING CULVERT.
4. CONSTRUCT CHANNEL AND INSTALL BANK STABILIZATION.
5. REMOVE IMPERVIOUS DIKE FROM UPSTREAM AND DOWNSTREAM OF NEW CHANNEL.

NOTES:
PROP PAVED SHOULDER
FOR –L– PROFILE, SEE SHEET 30 & 31
FOR –Y2– PROFILE, SEE SHEET 33

3/15/2022
R5819_R5820_REV_EC_PSH11_CG.dgn
E_Ride_Out1

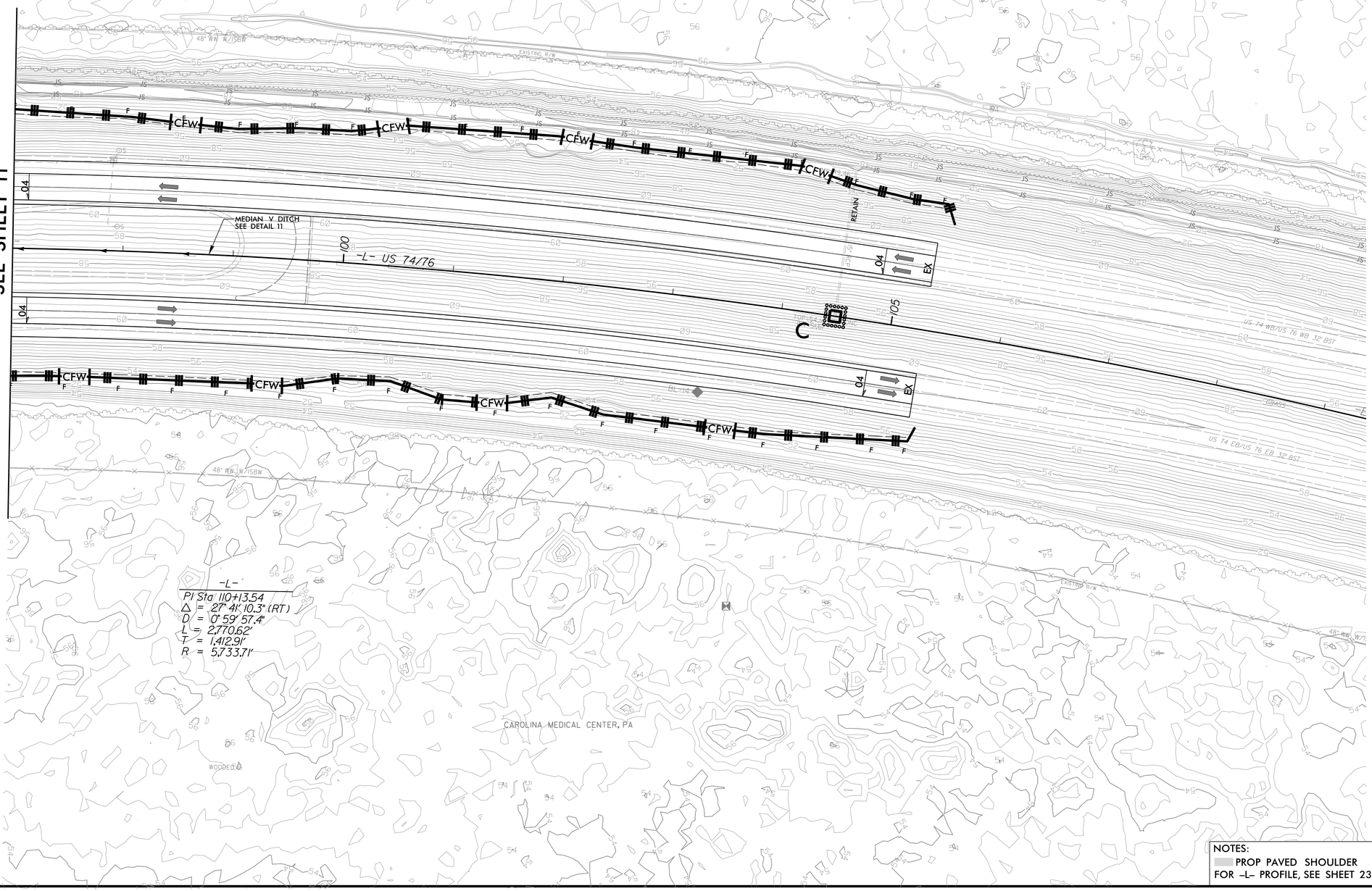
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 12

DETAIL 11
MEDIAN V DITCH
(Not to Scale)



FROM STA. 94+32 TO STA. 99+30 -L- CL

MATCHLINE -L- STA. 97+00.00
SEE SHEET 11



-L-
PI Sta 110+13.54
Δ = 27° 41' 10.3" (RT)
D = 0° 59' 57.4"
L = 2,770.62'
T = 1,412.91'
R = 5,733.71'

NAD 83/NA 2011

CALYX
ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-26/CONST12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTES:
PROP PAVED SHOULDER
FOR -L- PROFILE, SEE SHEET 23

REVISIONS
8/17/99

3/14/2022
...\R5819_R5820_REV_EC_PSH12_CG.dgn
...\ERickel.pltt

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 13

UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE – C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC

CALYX
ENGINEERS + CONSULTANTS
6750 TRYON ROAD
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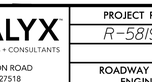
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	EC-27/CONST.13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

MATCHLINE –Y1– STA. 16+00.00
SEE SHEET 14

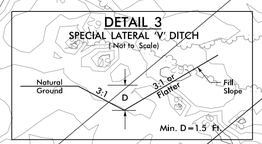
DETAIL 10
STANDARD BASE DITCH
(Not to Scale)



Min. D=1.5 Ft.
B=2.0 Ft.

FROM STA. 12+41 TO 14+15 –Y3– LT
DDE = 240 CY
AT STA. 13+65 –Y1– LT
DDE = 20 CY

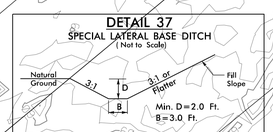
DETAIL 3
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



Min. D=1.5 Ft.

FROM STA. 12+30 TO STA. 21+56 –Y1– LT
FROM STA. 15+00 TO STA. 17+80 –Y1– RT

DETAIL 37
SPECIAL LATERAL BASE DITCH
(Not to Scale)



Min. D=2.0 Ft.
B=3.0 Ft.

FROM STA. 12+77 TO STA. 15+15 –Y3– RT
DDE = 6 CY

NOTES:
ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE NOTED
PROP CONC. ISLAND
PROP PAVED SHOULDER
PROP CONC. MOUNTABLE ISLAND
FOR –Y1– PROFILE, SEE SHEET 23
FOR –Y1A– PROFILE, SEE SHEET 31
FOR –Y3– PROFILE, SEE SHEET 31

REVISIONS

8/17/99

4/7/2022
R5819_R5820_REU_EC_PSH13_CG.dgn
:Default

REVISIONS

ROW REVISION - 7/26/2021 - COMBINED PARCELS 18 AND 19 INTO 18. MOVED PROPOSED DRIVEWAY TO EXISTING DRIVEWAY LOCATION ON PARCEL 28. ADDED TWO DRIVEWAYS TO PARCEL 27. ADDED 18" DRIVEWAY PIPE TO PARCEL 27. ADDED TWO 18" DRIVEWAY PIPES TO PARCEL 28.
ROW REVISION - 10/22/2021 - ADDED PARCEL 42 AND 44. ADDED TEMPORARY CONSTRUCTION EASEMENT TO PARCELS 42 AND 44.

8/17/99

3/15/2022
R5819_R5820_REV_EC_PSH14_CG.dgn

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 14

NV5 ENGINEERS & CONSULTANTS, INC.
6750 TRYON ROAD
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

PROJECT REFERENCE NO.	SHEET NO.
R-5819 /R-5820	EC-28/CONST.14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

-Y1-

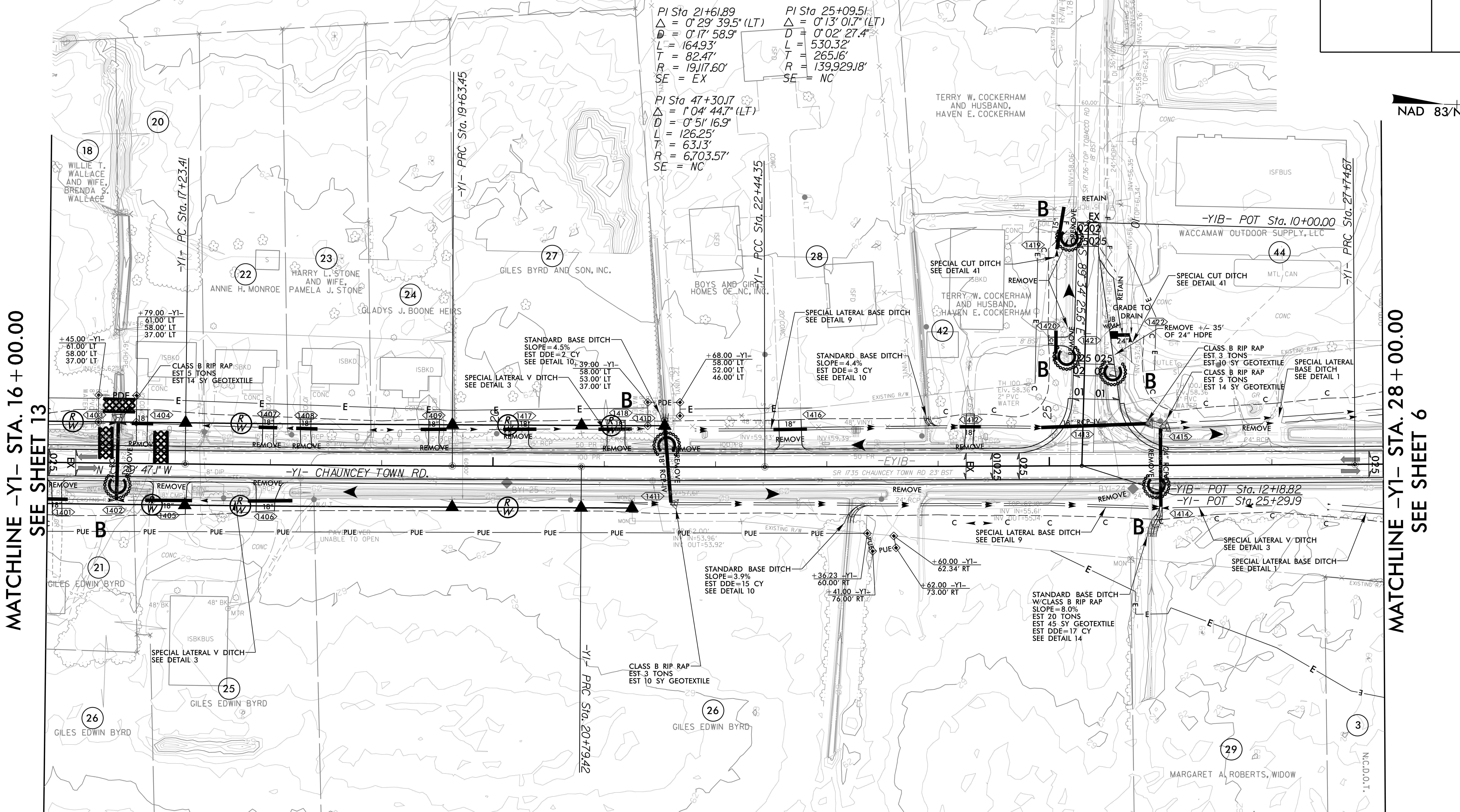
PI Sta 18+43.43
Δ = 0° 27' 35.0" (LT)
D = 0° 11' 29.5"
L = 240.04'
T = 120.02'
R = 29,915.28'
SE = EX

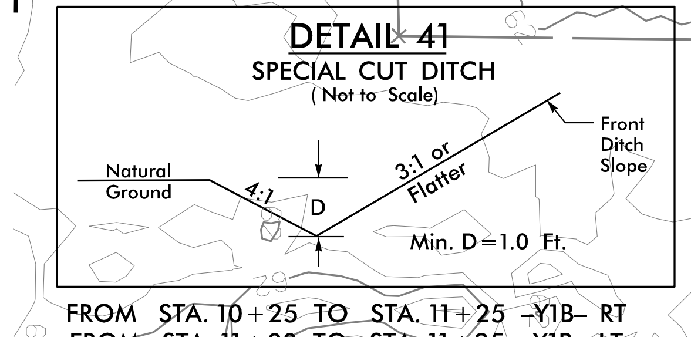
PI Sta 20+21.43
Δ = 0° 08' 41.9" (RT)
D = 0° 07' 30.0"
L = 115.97'
T = 57.99'
R = 45,836.62'
SE = EX

PI Sta 21+61.89
Δ = 0° 29' 39.5" (LT)
D = 0° 17' 58.9"
L = 164.93'
T = 82.47'
R = 19,117.60'
SE = EX

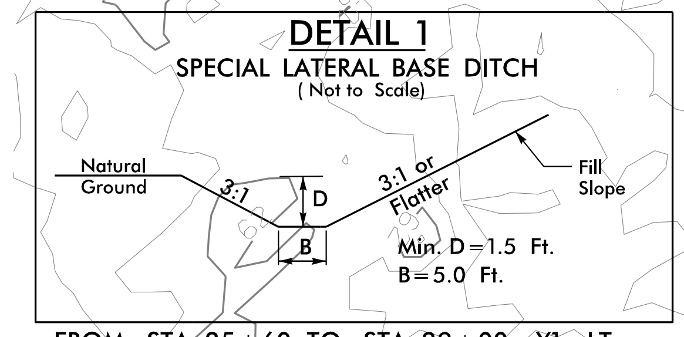
PI Sta 25+09.51
Δ = 0° 13' 01.7" (LT)
D = 0° 02' 27.4"
L = 530.32'
T = 265.16'
R = 139,929.18'
SE = NC

PI Sta 47+30.17
Δ = 1° 04' 44.7" (LT)
D = 0° 51' 16.9"
L = 126.25'
T = 63.13'
R = 6,703.57'
SE = NC

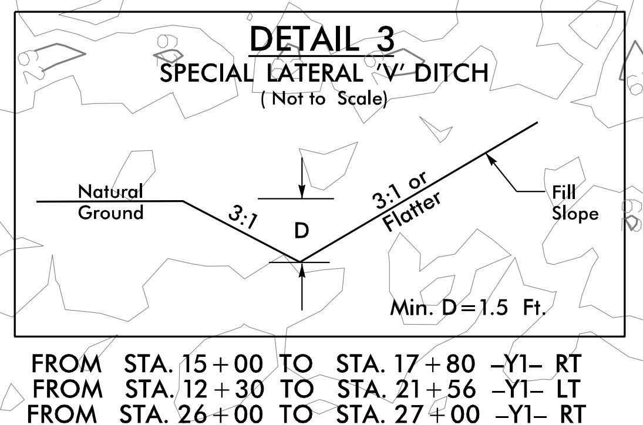



DETAIL 41
SPECIAL CUT DITCH
(Not to Scale)

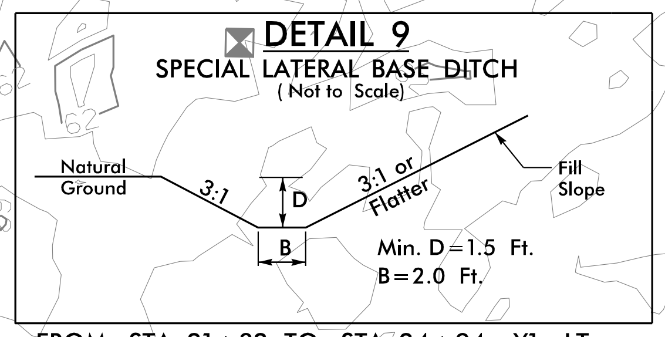
FROM STA. 10+25 TO STA. 11+25 -Y1B- RT
FROM STA. 11+00 TO STA. 11+25 -Y1B- LT


DETAIL 1
SPECIAL LATERAL BASE DITCH
(Not to Scale)

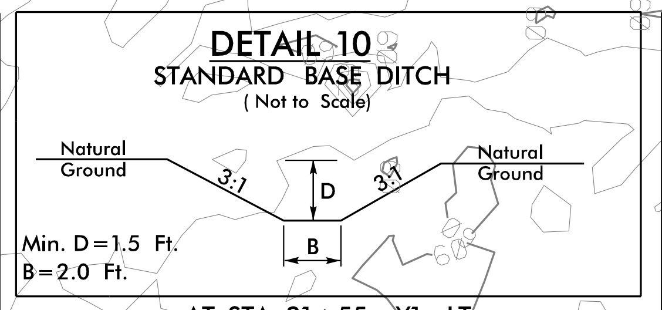
FROM STA. 25+60 TO STA. 29+00 -Y1- LT
FROM STA. 27+50 TO STA. 29+00 -Y1- RT


DETAIL 3
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

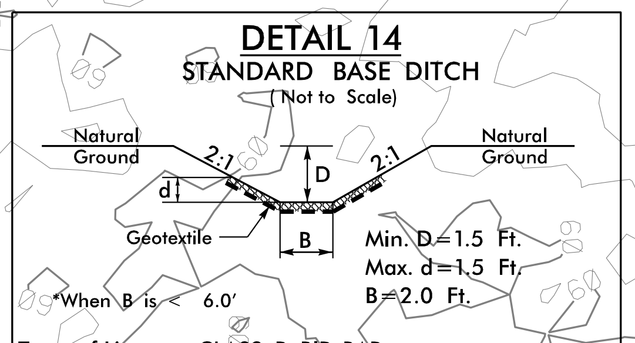
FROM STA. 15+00 TO STA. 17+80 -Y1- RT
FROM STA. 12+30 TO STA. 21+56 -Y1- LT
FROM STA. 26+00 TO STA. 27+00 -Y1- RT


DETAIL 9
SPECIAL LATERAL BASE DITCH
(Not to Scale)

FROM STA. 21+82 TO STA. 24+94 -Y1- LT
FROM STA. 21+00 TO STA. 26+00 -Y1- RT


DETAIL 10
STANDARD BASE DITCH
(Not to Scale)

AT STA. 21+55 -Y1- LT
DDE = 2 CY
AT STA. 23+25 -Y1- RT
DDE = 15 CY
AT STA. 23+90 -Y1- LT
DDE = 3 CY


DETAIL 14
STANDARD BASE DITCH
(Not to Scale)

AT STA. 26+00 -Y1- RT
DDE = 17 CY

NOTES:
ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE NOTED
▨ PROP PAVED SHOULDER
FOR -Y1- PROFILE, SEE SHEET 31 & 32

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 15

REVISIONS

8/17/99

DETAIL 8
SPECIAL LATERAL BASE DITCH
(Not to Scale)

FROM STA. 47+50 TO STA. 48+75 –Y1– LT
FROM STA. 47+50 TO STA. 49+00 –Y1– RT

DETAIL 9
SPECIAL LATERAL BASE DITCH
(Not to Scale)

FROM STA. 49+50 TO STA. 52+60 –Y1– LT
FROM STA. 50+00 TO STA. 52+00 –Y1– RT
FROM STA. 10+38 TO STA. 22+00 –Y7– LT
FROM STA. 10+50 TO STA. 24+30 –Y7– RT

DETAIL 10
STANDARD BASE DITCH
(Not to Scale)

AT STA. 49+50 –Y1– LT
DDE = 5 CY

NAD 83/NA 2011

CALYX
ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

PROJECT REFERENCE NO.	SHEET NO.
R-5819 /R-5820	EC-29/CONST.15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCHLINE –Y1– STA. 47+00.00
SEE SHEET 6

BOATHOUSE SOLAR, LLC

STANDARD BASE DITCH
SLOPE=0.9%
EST DDE= 5 CY
SEE DETAIL 10

SPECIAL LATERAL BASE DITCH
SEE DETAIL 8

SPECIAL LATERAL BASE DITCH
SEE DETAIL 9

JOSEPHINE B. SUTTON

EDDIE B. MITCHELL

–Y1– CHAUNCEY TOWN RD.

N 12° 17' 07.4" W

DONALD O. FREEMAN
AND WIFE,
GLENNETTE J. FREEMAN

EDDIE B. MITCHELL

MELISSA A. CAMPBELL

ISRAEL CAMPBELL
AND WIFE,
JACQUELINE F. CAMPBELL

+10.19 –Y7–
75.00' RT

–Y7– GEORGIA RD.

DAVID B. GOLDSTON, JR.

ADDIE LEE POUCH HEIRS

DOROTHY LEE JONES HEIRS

N 87° 46' 44.9" E

MATCH LINE –Y7– STA 14+00.00
SEE SHEET 20

NOTES:
ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE NOTED
PROP PAVED SHOULDER
FOR –Y1– PROFILE, SEE SHEET 32
FOR –Y7– PROFILE, SEE SHEET 35

3/4/2022
R5819_R5820_REU_EC_PSH15_CG.dgn
USER:Rebekah

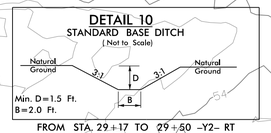
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 16

REVISIONS

CALYX
ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

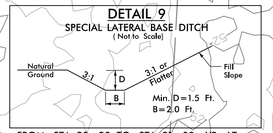
PROJECT REFERENCE NO.	SHEET NO.
R-5819 /R-5820	EC-30/CONST.16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DETAIL 10
STANDARD BASE DITCH
(Not to Scale)



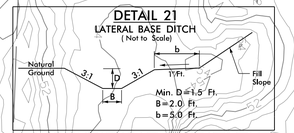
FROM STA. 29+17 TO 29+50 –Y2– RT
DDE = 8 CY

DETAIL 9
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 29+23 TO STA. 31+00 –Y2– LT
FROM STA. 29+50 TO STA. 32+00 –Y2– RT

DETAIL 21
LATERAL BASE DITCH
(Not to Scale)



FROM STA. 31+00 TO STA. 38+50 –Y2– LT
DDE = 807 CY
FROM STA. 32+00 TO STA. 38+50 –Y2– RT
DDE = 677 CY

NAD 83/NA 2011

HALLSBORO CONSTRUCTION COMPANY, INC.
CAREY F. BLANKS
JOHNIE KEETER, SR.
VERNON L. KEETER
HARSE H. COFFMAN AND WIFE, SARAH H. COFFMAN
CAROLINA MEDICAL CENTER, PA

–FY2R–
SR 1740 OLD LAKE RD 20' BST
–Y2– OLD LAKE RD
–Y2– PRC Sta. 26+10.07
–Y2–

RETAIN
REMOVE
EXISTING R/W
WOODED
ISFD
ISFG
CONC
MTR
WD VAN
END JUNK
5' CLAY
6' RCP
8' PVC
8' DIP
41' PVC
75' PR
48" WW W/ISBW
15" RCP-IV
15" W/ELBOWS
FBEGIN SBG +19
18'
1601
1602
1603 TB 2GI
1604 TB 2GI
1605
EX 2020sp
025
030

LATERAL BASE DITCH
SEE DETAIL 21
CLASS B RIP RAP
EST 2 TONS
EST 7 SY GEOTEXTILE
SPECIAL LATERAL BASE DITCH
SEE DETAIL 9
STANDARD BASE DITCH
SLOPE =0.3%
EST DDE =8 CY
SEE DETAIL 10

MATCHLINE –Y2– STA. 34+50.00
SEE SHEET 11

PI Sta 22+53.62
Δ = 0° 32' 51.9" (RT)
D = 0° 04' 36.6"
= 712.90'
= 356.45'
= 74,571.88'
E) = NC

PI Sta 30+35.83
Δ = 1° 29' 17.3" (LT)
D = 0° 10' 29.2"
L = 851.49'
T = 425.77'
R = 32,783.83'
SE = NC

NOTES:
ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE NOTED
PROP PAVED SHOULDER
FOR –Y2– PROFILE, SEE SHEET 33

3/14/2022
R5819-R5820_REV_EC_PSH16_CG.dgn
SE Baldwin

8/17/99

REVISIONS

CALYX
ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

PROJECT REFERENCE NO.	SHEET NO.
R-5819 / R-5820	EC-31/CONST.17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 17

MATCHLINE –Y2– STA. 44+00.00
SEE SHEET 11

MATCHLINE –Y2– STA. 57+25.00
SEE SHEET 18

DETAIL 15
SPECIAL CUT BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, B, 4:1 or Flatter, Front Ditch Slope

Min. D=1.5 Ft.
B=4.0 Ft.

FROM STA. 56+50 TO STA. 68+50 –Y2– RT

DETAIL 16
LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 3:1, d, D, 2:1, GEOTEXTILE, B, b, 1'Ft., Fill Slope

Min. D=4.5 Ft.
Max. d=4.5 Ft.
B=4.0 Ft.
b=5.0 Ft.

*When B is < 6.0'
Type of Liner= CLASS B RIP RAP

FROM STA. 41+52 TO STA. 48+50 –Y2– LT
DDE = 2561 CY

DETAIL 17
SPECIAL LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, B, 4:1 or Flatter, Fill Slope

Min. D=3.0 Ft.
B=4.0 Ft.

FROM STA. 48+50 TO STA. 50+50 –Y2– LT

DETAIL 18
LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, B, 3:1, b, 1'Ft., Fill Slope

Min. D=2.0 Ft.
B=3.0 Ft.
b=5.0 Ft.

FROM STA. 41+62 TO STA. 46+50 –Y2– RT
DDE = 3404 CY

DETAIL 19
SPECIAL LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, B, 3:1 or Flatter, Fill Slope

Min. D=1.5 Ft.
B=3.0 Ft.

FROM STA. 46+50 TO STA. 55+15 –Y2– RT

DETAIL 40
LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, B, 3:1, b, 1'Ft., Fill Slope

Min. D=4.0 Ft.
B=4.0 Ft.
b=5.0 Ft.

FROM STA. 46+50 TO STA. 48+50 –Y2– LT
DDE = 1062 CY

33
COLUMBUS COUNTY BOARD OF EDUCATION

ATHLETICS FIELD

CLASS B RIP RAP
EST 2 TONS
EST 7 SY GEOTEXTILE

LATERAL BASE DITCH
SEE DETAIL 16

LATERAL BASE DITCH
SEE DETAIL 40

RETAIN SYSTEM

+91.94 –Y2–
96.00' LT
91.00' LT

SPECIAL LATERAL BASE DITCH
SEE DETAIL 17

+12.00 –Y2–
88.00' LT
80.00' LT

TIE TO
EXISTING
DITCH

+43.00 –Y2–
87.00' LT

+21.00 –Y2–
65.00' LT

+19.00 –Y2–
87.00' LT

+06.00 –Y2–
50.13' LT
65.00' LT

+50.00 –Y2–
53.00' LT

+04.00 –Y2–
54.00' LT
66.00' LT

RETAIN

15" RCP–IV

15" W/ELBOWS

<1701> TB 2GI
<1702> TB 2GI
<1703> TB 2GI
<1704>

END SBG
+56

–EY2C–

N 0°18'04.9" W

SR 1740 OLD LAKE RD 22' BST

8" PVC DATUM

6" PVC DATUM

023.

025.

50' PR

55'

SPECIAL LATERAL BASE DITCH
SEE DETAIL 19

CLASS B RIP RAP
EST 2 TONS
EST 7 SY GEOTEXTILE

LATERAL BASE DITCH
SEE DETAIL 18

+88.10 –DET2–
50.00' RT

+68.00 –DET2–
53.00' RT

+48.00 –DET2–
54.00' RT

+40.00 –DET2–
53.00' RT

+28.61 –DET2–
50.00' RT

+85.37 –Y2–
72.00' RT

+80.00 –Y2–
61.00' RT

TIE TO EXISTING
DITCH

SPECIAL CUT BASE DITCH
SEE DETAIL 15

60' PRIVATE EASEMENT

32
RMS TIMBERLANDS, LLC

UTILIZE FABRIC INSERT INLET
PROTECTION DEVICES IN
LIEU OF ROCK INLET SEDIMENT
TRAPS, TYPE – C AS
DIRECTED TO AVOID IMPOUNDMENT
OF RUNOFF IN ROADWAY OPEN
TO TRAFFIC

NOTES:

PROP PAVED SHOULDER

FOR –Y2– PROFILE, SEE SHEET 33 & 34

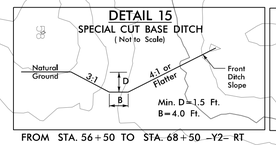
3/14/2022
R5819_R5820_REV_EC_PSH17_CG.dgn
ISTRadeFaulk

PROJECT REFERENCE NO.	SHEET NO.
R-5819 /R-5820	EC-32/CONST.18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

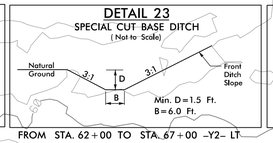
8/17/99

DETAIL 15
SPECIAL CUT BASE DITCH
(Not to Scale)



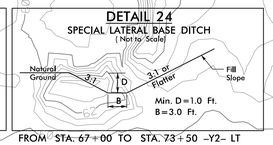
FROM STA. 56+50 TO STA. 68+50 –Y2– RT

DETAIL 23
SPECIAL CUT BASE DITCH
(Not to Scale)



FROM STA. 62+00 TO STA. 67+00 –Y2– LT

DETAIL 24
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 67+00 TO STA. 73+50 –Y2– LT

NAD 83/NA 2011

MATCH LINE –Y2– STA 57+25.00
SEE SHEET 17

MATCH LINE –Y2– STA 70+00.00
SEE SHEET 19

–Y2– PC Sta 69+54.93

COLUMBUS COUNTY BOARD OF EDUCATION

TIE TO EX. 2'-6" CURB AND GUTTER

DO NOT DISTURB SIGN

TIE TO EX. 2'-6" CURB AND GUTTER

+33.00 –Y2– 54.00' LT 66.00' LT
+02.00 –Y2– 55.00' LT 66.00' LT
+00.00 –Y2– 50.13' LT 66.00' LT
+31.00 –Y2– 50.13' LT 66.00' LT
+28.00 –Y2– 50.13' LT 66.00' LT
+03.00 –Y2– 50.13' LT 66.00' LT
+50.00 –Y2– 88.00' LT 65.00' LT 50.13' LT
+32.00 –Y2– 50.13' LT 66.00' LT
+83.00 –Y2– 88.00' LT
+00.00 –Y2– 80.00' LT
+50.00 –Y2– 83.00' LT
+50.00 –Y2– 54.00' LT
+90.00 –Y2– 47.00' LT
+49.00 –Y2– 56.45' RT
+34.93 –Y2– 61.00' RT
+00.00 –Y2– 66.00' RT

R=30'
R=50'
R=5.5

RETAIN

CB
DI
1802
1803
1804
1805
1806
1807

REMOVE +/- 14' OF EXISTING PIPE AND COLLAR AND EXTEND WITH 36" RCP-III

CONVERT TO JB

REMOVE +/- 36' OF EXISTING PIPE

REMOVE

SPECIAL CUT BASE DITCH SEE DETAIL 23

SPECIAL LATERAL BASE DITCH SEE DETAIL 24

SPECIAL CUT BASE DITCH SEE DETAIL 15

–Y2– OLD LAKE RD

SR 1740 OLD LAKE RD 22-BST

24" RCP
36" RCP
25 PR
100 PR

WOODS
PLANTED PINE
VAULT
TOP=57.37'
24" IN=52.76'
24" IN=52.77'
18" IN=53.81'
36" OUT=52.47'
TOP=57.18'
INV OUT=53.37'
TOP=58.70'
INV IN (N)=52.16'
INV IN (W)=52.22'
INV OUT=52.10'
TOP=57.70'
INV OUT=53.86'

54

A DIAL GRAY, III AND WIFE BETTY B GRAY

33

32
RMS TIMBERLANDS, LLC

32
RMS TIMBERLANDS2,LLC

TO POWER INC EASEMENT

TO PRIVATE EASEMENT

–Y2–
PI Sta 72+01.54
Δ = 41° 08' 11.3" (LT)
D = 3° 47' 39.9"
L = 1,084.13'
T = 566.62'
R = 1,510.00'
SE = 05

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 18

UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE – C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC

NOTES:
PROP PAVED SHOULDER
PAVEMENT REMOVAL
FOR –Y2– PROFILE, SEE SHEET 34

3/4/2022
R5819_R5820_REU_EC_PSH18_CG.dgn
USER: dwhite

PROJECT REFERENCE NO.	SHEET NO.
R-5819 /R-5820	EC-33/CONST.19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 19

NAD 83/NA 2011

REVISIONS 8/17/99

MATCH LINE -Y7- STA 80+00.00
SEE SHEET 24

MATCH LINE -Y2- STA 70+00.00
SEE SHEET 18

MATCH LINE -Y7- STA 87+00.00
SEE SHEET 25

-Y7- GEORGIA RD

-Y2- OLD LAKE RD.

-Y2- BEN JONES RD

-Y7- PT Sta. 82+37.35

-Y2- POC STA.74+29.94 =
-Y7- POT STA.84+02.93

-Y2- PCC Sta. 77+19.06

-Y2- PT Sta. 81+16.06

-Y2- PCC Sta. 80+55.14

-Y7- PC Sta. 86+33.28

N 54° 39' 53.0" E

N 41° 41' 29.6" W

-Y7-

PI Sta 75+47.67
Δ = 22° 53' 23.1" (RT)
D = 1° 38' 13.3"
L = 1,398.26'
T = 708.58'
R = 3,500.00'
SE = 03

PI Sta 90+98.48
Δ = 22° 52' 08.1" (LT)
D = 2° 29' 28.0"
L = 918.02'
T = 465.20'
R = 2,300.00'
SE = 04

-Y2-

PI Sta 72+01.54
Δ = 41° 08' 11.3" (LT)
D = 3° 47' 39.9"
L = 1,084.13'
T = 566.62'
R = 1,510.00'
SE = 05

PI Sta 78+87.10
Δ = 0° 06' 05.2" (LT)
D = 0° 01' 48.7"
L = 336.09'
T = 168.04'
R = 189,837.68'
SE = NC

PI Sta 80+85.60
Δ = 0° 09' 08.2" (LT)
D = 0° 15' 00.0"
L = 60.91'
T = 30.46'
R = 22,918.31'
SE = NC

54 A. DIAL GRAY, III AND WIFE, BETTY B. GRAY

54 A. DIAL GRAY, III AND WIFE BETTY B. GRAY

55 A. DIAL GRAY, III AND WIFE BETTY B. GRAY

32 RMS TIMBERLANDS, LLC

TOE PROTECTION
SEE DETAIL 25

SPECIAL LATERAL BASE DITCH
SEE DETAIL 24

STANDARD BASE DITCH
SLOPE=0.7%
EST DDE=8 CY
SEE DETAIL 2

CLASS B RIP RAP
EST 5 TONS
EST 14 SY GEOTEXTILE

SPECIAL LATERAL V DITCH
SEE DETAIL 26

R=55
50' TAPER

R=115

R=180

R=50

R=45

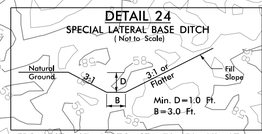
R=70

RETAIN

WOODS

EXIST. R/W

DETAIL 24
SPECIAL LATERAL BASE DITCH
(Not to Scale)

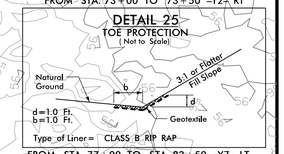


FROM STA. 67+00 TO STA. 73+50 -Y2- LT
FROM STA. 73+50 TO STA. 73+81 -Y2- RT
FROM STA. 84+36 TO STA. 93+50 -Y7- RT

DETAIL 2
STANDARD BASE DITCH
(Not to Scale)

FROM STA. 73+00 TO 73+50 -Y2- RT

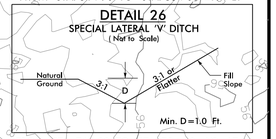
DETAIL 25
TOE PROTECTION
(Not to Scale)



d=1.0 Ft.
b=1.0 Ft.
Type of Liner= CLASS B RIP RAP

FROM STA. 77+00 TO STA. 83+50 -Y7- LT
FROM STA. 74+60 TO STA. 76+00 -Y2- LT
FROM STA. 77+00 TO STA. 83+59 -Y7- RT
FROM STA. 84+70 TO STA. 88+00 -Y7- LT

DETAIL 26
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



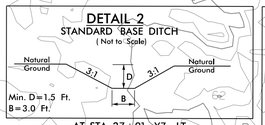
FROM STA. 76+00 TO STA. 79+00 -Y2- LT
FROM STA. 76+00 TO STA. 79+00 -Y2- RT

NOTES:
PROP PAVED SHOULDER
PAVEMENT REMOVAL
FOR -Y2- PROFILE, SEE SHEET 34 & 35
FOR -Y7- PROFILE, SEE SHEET 37 & 38

3/14/2022
R5819_R5820_REV_EC_PSH19_CO.dgn
USER:efaulk

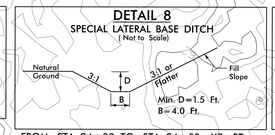
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 20

DETAIL 2
STANDARD BASE DITCH
(Not to Scale)



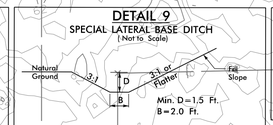
AT STA. 27+91 –Y7– LT

DETAIL 8
SPECIAL LATERAL BASE DITCH
(Not to Scale)



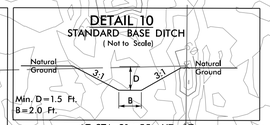
FROM STA. 24+30 TO STA. 34+50 –Y7– RT

DETAIL 9
SPECIAL LATERAL BASE DITCH
(Not to Scale)



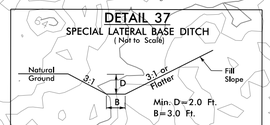
FROM STA. 10+38 TO STA. 22+00 –Y7– LT
FROM STA. 10+50 TO STA. 24+30 –Y7– RT

DETAIL 10
STANDARD BASE DITCH
(Not to Scale)



AT STA. 21+55 –Y7– LT

DETAIL 37
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 26+50 TO STA. 29+00 –Y7– LT

NV5
NV5 ENGINEERS & CONSULTANTS, INC.
6750 TRYON ROAD
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # P0333
formerly CALYX Engineers & Consultants

PROJECT REFERENCE NO.	SHEET NO.
R–5819 /R–5820	EC–34/CONST.20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

REVISIONS
ROW REVISION – 7/26/2021 – COMBINED PARCELS 39 AND 42 INTO 39, COMBINED PARCELS 43 AND 44 INTO 43.
ROW REVISION – 10/22/2021 – UPDATED PARCEL OWNER NAME ON PARCEL 38, ADDED DRIVEWAY AND 18" DRIVE PIPE ON PARCELS 45 AND 47.

MATCH LINE –Y7– STA 14+00.00
SEE SHEET 15

MATCH LINE –Y7– STA 28+00.00
SEE SHEET 21

–Y7–GEORGE RD

N 86°19'02.2" E

ISRAEL M. CAMPBELL AND WIFE, PATRICIA L. CAMPBELL
DAVID B. GOLDSTON, JR. HEIRS
NANCY M. SIGMON
SOIL BORINGS
TERRY ANNE WARD COCKERHAM 2001 TRUST
TERRY ANNE WARD COCKERHAM, TRUSTEE
DOROTHY LEE JONES HEIRS
HAROLD SHAW, WIDOWER
MARIAH L. GRAHAM HEIRS
MOSES LENNON, WIDOWER
FRANKIE D. CAMPBELL AND WIFE, MABEL C. CAMPBELL
GEORGE MAULTSBY HEIRS C/O HAROLD MAULTSBY
TERRY W. COCKERHAM
CEASAR LAVENDER, SR. HEIRS

+41.00 –Y7– 92.00' LT
75.00' LT
55.00' LT
40.00' LT

+77.00 –Y7– 60.00' LT
40.00' LT

+28.00 –Y7– 60.00' RT

+52.00 –Y7– 54.00' RT

STANDARD BASE DITCH
SLOPE = 1.4%
EST DDE = 5 CY
SEE DETAIL 10

STANDARD BASE DITCH
SLOPE = 2.3%
EST DDE = 5 CY
SEE DETAIL 2

SPECIAL LATERAL BASE DITCH
SEE DETAIL 9

SPECIAL LATERAL BASE DITCH
SEE DETAIL 37

SPECIAL LATERAL BASE DITCH
SEE DETAIL 8

CLASS B RIP RAP
EST 8 TONS
EST 21 SY GEOTEXTILE

FILL EXISTING CHANNEL TO ELEV. = 59.5'

30" RCP–IV
24" RCP–IV
18" RCP–IV
15" RCP–IV
24" RCP
18"
REMOVE
JB w/MH
PDE
PUE
DI
BY7-48

NOTES:
PROP PAVED SHOULDER
ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE NOTED
FOR –Y7– PROFILE, SEE SHEET 35 & 36

4/8/2022
R5819_R5820_REV_EC_PSH20_CG.dgn
SFRider.ult

PROJECT REFERENCE NO.	SHEET NO.
R-5819 /R-5820	EC-35/CONST.21
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 21

NAD 83/NA 2011

REVISIONS 8/17/99

MATCH LINE -Y7- STA 28+00.00 SEE SHEET 20

MATCH LINE -Y7- STA 42+00.00 SEE SHEET 22

-Y7-
PI Sta 27+72.88
△ = 0° 52' 06.7" (LT)
D = 0° 43' 40.9"
L = 119.30'
T = 59.65'
R = 7,870.00'
SE = NC

PI Sta 32+11.93
△ = 1° 18' 44.8" (RT)
D = 0° 43' 40.9"
L = 180.27'
T = 90.14'
R = 7,870.00'
SE = NC

-Y7- PT Sta. 28+32.53

+05.00 -Y7-
60.00' LT
40.00' LT

STANDARD BASE DITCH
SLOPE =3.2%
EST DDE =5 CY
SEE DETAIL 2
TIE INTO EXISTING SIDE SLOPE

STANDARD BASE DITCH
SLOPE =4.1%
EST DDE =4 CY
SEE DETAIL 2
TIE INTO EXISTING SIDE SLOPE

+46.00 -Y7-
70.00' LT
40.00' LT

+22.00 -Y7-
70.00' LT

CLASS B RIP RAP
EST 5 TONS
EST 14 SY GEOTEXTILE

+43.00 -Y7-
40.96' LT

SPECIAL LATERAL BASE DITCH
SEE DETAIL 37

SPECIAL LATERAL BASE DITCH
SEE DETAIL 1

SPECIAL LATERAL BASE DITCH
SEE DETAIL 35

CLASS B RIP RAP
EST 5 TONS
EST 14 SY GEOTEXTILE

+64.00 -Y7-
68.00' LT
60.00' LT
50.00' LT

STANDARD BASE DITCH
SLOPE =2.2%
EST DDE =5 CY
SEE DETAIL 7

+95.00 -Y7-
68.00' LT
60.00' LT
50.00' LT

SPECIAL LATERAL BASE DITCH
SEE DETAIL 34

N 85° 26' 55.6" E

N 86° 45' 40.4" E

-Y7- GEORGIA RD

Open Water

REMOVE

STANDARD BASE DITCH
SLOPE =4.3%
EST DDE =8 CY
SEE DETAIL 10

+05.00 -Y7-
58.00' RT
40.00' RT

+41.00 -Y7-
58.00' RT
40.00' RT

+52.00 -Y7-
41.96' RT
59.00' RT

SPECIAL LATERAL BASE DITCH
SEE DETAIL 8

SPECIAL LATERAL BASE DITCH
SEE DETAIL 9

-Y7- PC Sta. 31+21.79

-Y7- PT Sta. 33+02.96

CEASAR LAVENDER, SR. HEIRS

TERRY W. COCKERHAM

NANCY M. SIGMON

MARY KATHARINE SLEDGE FORT

WOODS

WM

WO

DETAIL 1
SPECIAL LATERAL BASE DITCH
(Not to Scale)
Natural Ground, 3:1, D, B, 3:1 or Flatter, Fill Slope
Min. D=1.5 Ft.
B=5.0 Ft.
FROM STA. 29+00 TO STA. 35+50 -Y7- LT

DETAIL 2
STANDARD BASE DITCH
(Not to Scale)
Natural Ground, 3:1, D, B, 3:1, Natural Ground
Min. D=1.5 Ft.
B=3.0 Ft.
AT STA. 30+60 -Y7- LT
AT STA. 30+98 -Y7- LT

DETAIL 7
STANDARD BASE DITCH
(Not to Scale)
Natural Ground, 3:1, D, B, 3:1, Natural Ground
Min. D=1.5 Ft.
B=4.0 Ft.
AT STA. 38+80 -Y7- LT

DETAIL 8
SPECIAL LATERAL BASE DITCH
(Not to Scale)
Natural Ground, 3:1, D, B, 3:1 or Flatter, Fill Slope
Min. D=1.5 Ft.
B=4.0 Ft.
FROM STA. 24+30 TO STA. 34+50 -Y7- RT

DETAIL 9
SPECIAL LATERAL BASE DITCH
(Not to Scale)
Natural Ground, 3:1, D, B, 3:1 or Flatter, Fill Slope
Min. D=1.5 Ft.
B=2.0 Ft.
FROM STA. 34+50 TO STA. 44+00 -Y7- RT

DETAIL 10
STANDARD BASE DITCH
(Not to Scale)
Natural Ground, 3:1, D, B, 3:1, Natural Ground
Min. D=1.5 Ft.
B=2.0 Ft.
AT STA. 30+27 -Y7- RT

DETAIL 34
SPECIAL LATERAL BASE DITCH
(Not to Scale)
Natural Ground, 3:1, D, B, 3:1 or Flatter, Fill Slope
Min. D=3.0 Ft.
B=6.0 Ft.
FROM STA. 40+50 TO STA. 49+50 -Y7- LT

DETAIL 35
SPECIAL LATERAL BASE DITCH
(Not to Scale)
Natural Ground, 3:1, D, B, 3:1 or Flatter, Fill Slope
Min. D=2.0 Ft.
B=6.0 Ft.
FROM STA. 35+50 TO STA. 40+50 -Y7- LT

DETAIL 37
SPECIAL LATERAL BASE DITCH
(Not to Scale)
Natural Ground, 3:1, D, B, 3:1 or Flatter, Fill Slope
Min. D=2.0 Ft.
B=3.0 Ft.
FROM STA. 22+00 TO STA. 29+00 -Y7- LT

NOTES:
PROP PAVED SHOULDER
ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE NOTED
FOR -Y7- PROFILE, SEE SHEET 36

3/14/2022
R5819_R5820_REV_EC_PSH21_CC.dgn
USER: cwilt

PROJECT REFERENCE NO.	SHEET NO.
R-5819 /R-5820	EC-36/CONST.22
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

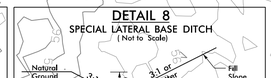
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 22

DETAIL 1
SPECIAL LATERAL BASE DITCH
(Not to Scale)

Min. D = 1.5 Ft.
B = 5.0 Ft.

FROM STA. 44+00 TO STA. 49+50 –Y7– RT

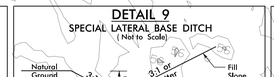
DETAIL 8
SPECIAL LATERAL BASE DITCH
(Not to Scale)



Min. D = 1.5 Ft.
B = 4.0 Ft.

FROM STA. 49+50 TO STA. 60+00 –Y7– RT
FROM STA. 49+50 TO STA. 52+00 –Y7– LT

DETAIL 9
SPECIAL LATERAL BASE DITCH
(Not to Scale)



Min. D = 1.5 Ft.
B = 2.0 Ft.

FROM STA. 34+50 TO STA. 44+00 –Y7– RT
FROM STA. 52+00 TO STA. 58+00 –Y7– LT

DETAIL 34
SPECIAL LATERAL BASE DITCH
(Not to Scale)

Min. D = 3.0 Ft.
B = 6.0 Ft.

FROM STA. 40+50 TO STA. 49+50 –Y7– LT

DETAIL 36
STANDARD BASE DITCH
(Not to Scale)

Min. D = 3.0 Ft.
B = 6.0 Ft.

AT STA. 49+50 –Y7– RT

–Y7–
PI Sta 47+44.93
Δ = 21° 23' 05.4" (LT)
D = 3° 47' 39.9"
L = 563.59'
T = 285.11'
R = 1,510.00'
SE = 05

NAD 83/NA 2011

MATCH LINE –Y7– STA 42+00.00
SEE SHEET 21

MATCH LINE –Y7– STA 56+00.00
SEE SHEET 23

N 86° 45' 40.4" E

–Y7– PC Sta 44+59.82

–Y7– PT Sta 50+12.34

N 65° 24' 30.9" E

MARY KATHARINE SLEDGE FORT

PINE PLANTATION

–Y7– GEORGIA RD.

SPECIAL LATERAL BASE DITCH
SEE DETAIL 34

SPECIAL LATERAL BASE DITCH
SEE DETAIL 8

SPECIAL LATERAL BASE DITCH
SEE DETAIL 9

SPECIAL LATERAL BASE DITCH
SEE DETAIL 1

SPECIAL LATERAL BASE DITCH
SEE DETAIL 8

SPECIAL LATERAL BASE DITCH
SEE DETAIL 9

+65.00 –Y7–
50.00' RT

+19.00 –Y7–
50.00' RT

CLASS B RIP RAP
EST 5 TONS
EST 14 SY GEOTEXTILE

+14.00 –Y7–
117.00' RT

+95.00 –Y7–
133.00' RT

STANDARD BASE DITCH
SLOPE = 0.2%
EST DDE = 10 CY
SEE DETAIL 36

HW 2201
2202
2203
18"

NOTES:
PROP PAVED SHOULDER

FOR –Y7– PROFILE, SEE SHEET 36 & 37

REVISIONS

8/17/99

3/14/2022
R5819-R5820_REV_EC_PSH22_CO.dgn
USER:Brad Faulk

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 23

OUTLET DETAIL
N.T.S

EXCAVATION = 70 CY

NG

2@11'x6' RCBC

CLASS I RIP RAP (TYP)
W/ GEOTEXTILE
THICKNESS = 2'

AT STA. 65+52 -Y7- RT

INLET DETAIL
N.T.S

NG

2@11'x6' RCBC

AT STA. 65+85 -Y7- LT

MATCH LINE
-DR1- STA 14+00.00 SEE SHEET 23

+33.00 -DR1-
40.00' LT

DO NOT DISTURB
CHILLER

+59.00 -DR1-
61.00' LT

+36.00 -DR1-
10.00' LT

+50.00 -DR1-
41.00' RT

COLUMBUS COUNTY
BOARD OF EDUCATION
DB 408 PG 896
PB 50 PG 91

33

-DR1- SCHOOL DRIVE

N 68° 45' 07.4" E

+50.00 -DR1-
29.00' RT

GRADE TO DRAIN

+68.00 -DR1-
10.00' LT

-DR1- PT Sta. 15+33.72

+09.00 -DR1-
20.00' RT

-DR1- PC Sta. 16+08.48

END CONSTRUCTION
-DR1- POC STA. 16+61.58

+68.00 -DR1-
20.00' RT

-DR1- PT Sta. 17+03.01

S 61° 09' 37.7" E

COLUMBUS COUNTY
BOARD OF EDUCATION
DB 408 PG 896
PB 50 PG 91

33

COLUMBUS COUNTY BOARD OF EDUCATION

NAD 83/NA 2011

-Y7- PRC Sta. 68+39.09

MATCH LINE -Y7- STA 56+00.00
SEE SHEET 22

Trib-14

SPECIAL LATERAL BASE DITCH
SEE DETAIL 9

R=20'

R=20'

-Y7- PC Sta. 59+52.66

SPECIAL LATERAL BASE DITCH
SEE DETAIL 9

PINE PLANTATION

SPECIAL LATERAL BASE DITCH
SEE DETAIL 8

N 65° 24' 35.9" E

SPECIAL LATERAL BASE DITCH
SEE DETAIL 9

-Y7- GEORGIA RD.

52

MARY KATHARINE SLEDGE FORT

IMPERVIOUS DIKE AND SILT BAGS
TO BE UTILIZED TO CONSTRUCT
THE PROPOSED RCBC BASED ON SITE
CONDITIONS ON DAY OF INSTALLATION

SEE INLET DETAIL

2@11'x6' RCBC

R=50'

REMOVE

PDE

36" RCP III
EQUALIZER
PIPE

-DR1- SCHOOL DRIVE

S 41° 59' 55.7" E

-DR1- POT Sta. 10+00.00
-Y7- POC Sta. 66+75.00

COLUMBUS COUNTY
BOARD OF EDUCATION

33

CLASS I RIP RAP
ON BANKS ONLY
EST 70 TONS
EST 130 SY GEOTEXTILE

CLASS I RIP RAP
EST 10 TONS
EST 23 SY
GEOTEXTILE

JOHN FRANKLIN SMITH, HEIRS
AND
DAVID B. GOLDSTON, SR. HEIRS

53

SEE OUTLET
DETAIL

EXCAVATE THE EXISTING
UNPAVED ROADWAY
EMBANKMENT
TO NATURAL GROUND
DDE=70 CY

-DR1- PC Sta. 12+75.85

MATCH LINE -Y7- STA 70+00.00
SEE SHEET 24

MATCH LINE -DR1- STA 14+00.00
SEE INSET

-Y7-
PI Sta. 64+09.06
△ = 33° 38' 06.0" (LT)
D = 3° 47' 39.9"
L = 886.43'
T = 456.40'
R = 1,510.00'
SE = 05

PI Sta 75+47.67
△ = 22° 53' 23.1" (RT)
D = 1° 38' 13.3"
L = 1,398.26'
T = 708.58'
R = 3,500.00'
SE = 03

DETAIL 8
SPECIAL LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, 3:1 or Flatter, Fill Slope, B
Min. D = 1.5 Ft.
B = 4.0 Ft.

FROM STA. 49+50 TO STA. 60+00 -Y7- RT

DETAIL 9
SPECIAL LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, 3:1 or Flatter, Fill Slope, B
Min. D = 1.5 Ft.
B = 2.0 Ft.

FROM STA. 52+00 TO STA. 58+00 -Y7- LT
FROM STA. 59+00 TO STA. 65+67 -Y7- LT
FROM STA. 60+00 TO STA. 65+35 -Y7- RT

NOTES:
PROP PAVED SHOULDER
FOR -Y7- PROFILE, SEE SHEET 37
FOR -DR1- PROFILE, SEE SHEET 47

NV5
NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

PROJECT REFERENCE NO.	SHEET NO.
R-5819 /R-5820	EC-37/CONST.23
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS
8/17/99
ROW REVISION - 12/30/2021 - UPDATED PARCEL OWNER NAME ON PARCEL 53. ADD -DR1-.

4/8/2022
R5819_R5820_REU_EC_PSH23_CG.dgn
USER:dpaul

PROJECT REFERENCE NO.	SHEET NO.
R-5819 /R-5820	EC-38/CONST.24
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

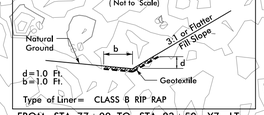
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 24

NAD 83/NA 2011

REVISIONS

8/17/99

DETAIL 25
TOE PROTECTION
(Not to Scale)



d = 1.0 Ft.
b = 1.0 Ft.

Type of Liner = CLASS B RIP RAP

FROM STA. 77+00 TO STA. 83+50 -Y7- LT
FROM STA. 77+00 TO STA. 83+59 -Y7- RT

-Y7-
PI Sta 75+47.67
△ = 22° 53' 23.1" (RT)
D = 1° 38' 13.3"
L = 1,398.26'
T = 708.58'
R = 3,500.00'
SE = 03

A. DIAL GRAY, III AND WIFE BETTY B. GRAY

33 COLUMBUS COUNTY BOARD OF EDUCATION

54 A. DIAL GRAY, III AND WIFE BETTY B. GRAY

+86.00 -Y7-
58.00' LT
53.00' LT
40.00' LT

+14.00 -Y7-
58.00' LT
53.00' LT
40.00' LT

30" RCP-III EQUALIZER PIPE

PDE

2401

2402

TOE PROTECTION SEE DETAIL 25

-Y7- GEORGIA RD

-Y7- GEORGIA RD.

+82.00 -Y7-
58.00' RT
48.00' RT
40.00' RT

+19.00 -Y7-
58.00' RT
48.00' RT
40.00' RT

CLASS I RIP RAP
EST 11 TONS
EST 22 SY GEOTEXTILE

TOE PROTECTION SEE DETAIL 25

MATCH LINE -Y7- STA 70+00.00 SEE SHEET 23

MATCH LINE -Y7- STA 80+00.00 SEE SHEET 19

BY7-58

BY7-59

BY7-60

WOODS

FARM TAP

HOUSE

BK SCHOOL

DI TOP=57.23
INV=54.73
15" RCP
INV=54.91
18" RCP

33 COLUMBUS COUNTY BOARD OF EDUCATION

54 A. DIAL GRAY, III AND WIFE BETTY B. GRAY

NOTES:
PROP PAVED SHOULDER

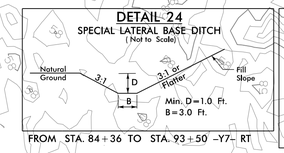
FOR -Y7- PROFILE, SEE SHEET 37

3/14/2022
R5819_R5820_REU_EC_PSH24_CG.dgn
Default

PROJECT REFERENCE NO.	SHEET NO.
R-5819 /R-5820	EC-39/CONST.25
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 25

DETAIL 24
SPECIAL LATERAL BASE DITCH
(Not to Scale)

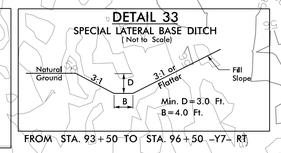


FROM STA. 84+36 TO STA. 93+50 –Y7– RT

DETAIL 25
TOE PROTECTION
(Not to Scale)

Type of Liner = CLASS B RIP RAP
FROM STA. 84+70 TO STA. 88+00 –Y7– LT

DETAIL 33
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 93+50 TO STA. 96+50 –Y7– RT

–Y7–
PI Sta 90+98.48
Δ = 22° 52' 08.1" (LT)
D = 2° 29' 28.0"
L = 918.02'
T = 465.20'
R = 2,300.00'
SE = 04

NAD 83/NA 2011

–Y7– POT Sta 99+51.02

–Y7– POT Sta 95+51.30

N 31° 47' 44.9" E

55
A. DIAL GRAY, III AND
WIFE BETTY B. GRAY

32
RMS TIMBERLANDS, LLC

WOODS
PLANTED PINE
WX
WBB
WLB
BTM
EYPC
CFW
RW

TOE PROTECTION
SEE DETAIL 25

SPECIAL LATERAL BASE DITCH
SEE DETAIL 24

SPECIAL LATERAL BASE DITCH
SEE DETAIL 33

–Y7– OLD LAKE RD

MATCH LINE –Y7– STA 87+00.00
SEE SHEET 19

NOTES:
PROP PAVED SHOULDER
PAVEMENT REMOVAL
FOR –Y7– PROFILE, SEE SHEET 38

REVISIONS

8/17/99

3/14/2022
...\R5819_R5820_REV_EC_PSH25_CG.dgn
...\SSEFidelault