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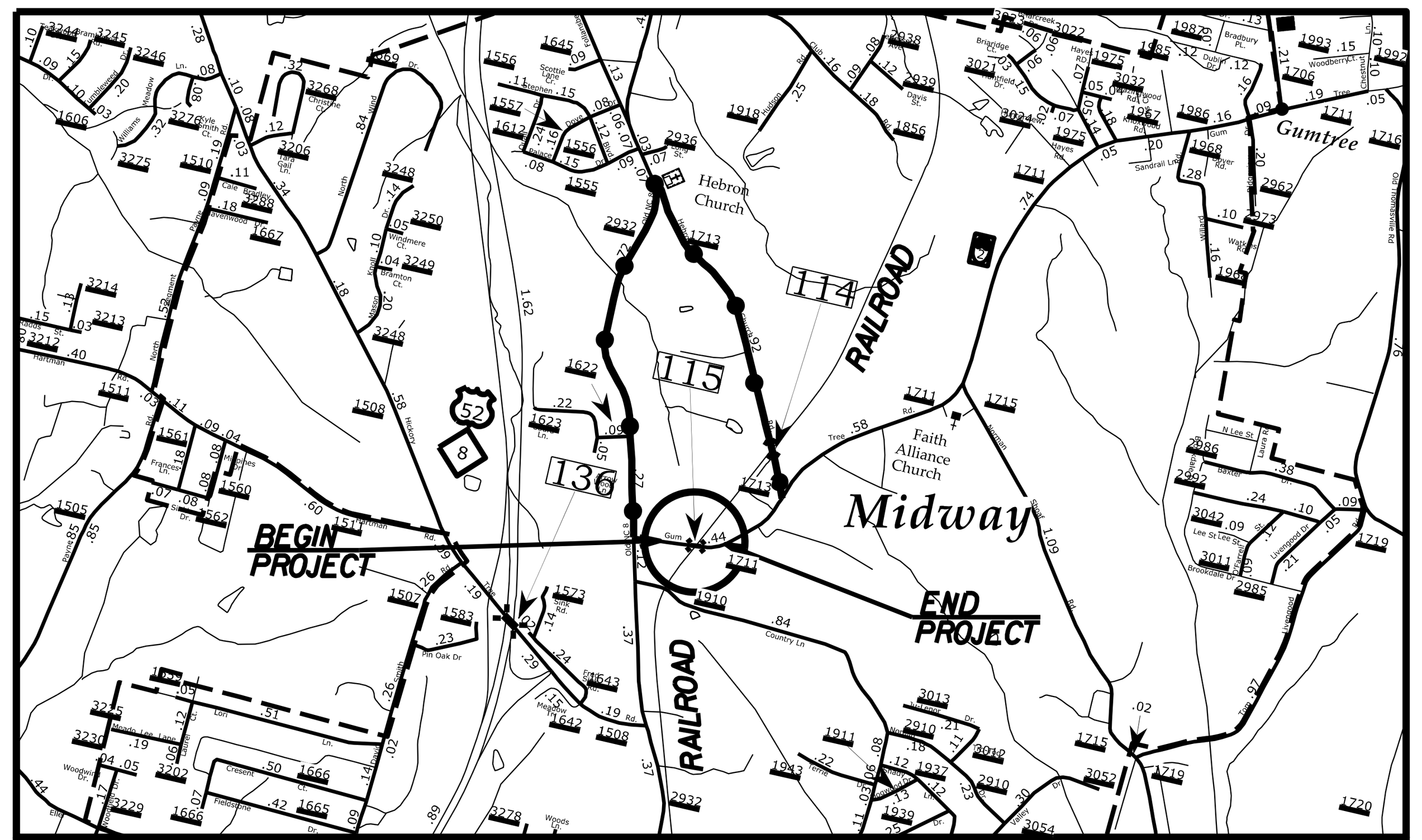
TIP PROJECT: B-5765

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5765	EC-1	12

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
45721.1.1	N/A	P.E.
45721.2.1	N/A	R/W, UTL
45721.3.1	N/A	CONSTRUCTION



VICINITY MAP N.T.S.

NOTE: SEE SPECIAL DETAIL SHEETS 2C-1 AND 2C-2 FOR OFFSITE DETOUR INTERSECTION IMPROVEMENTS

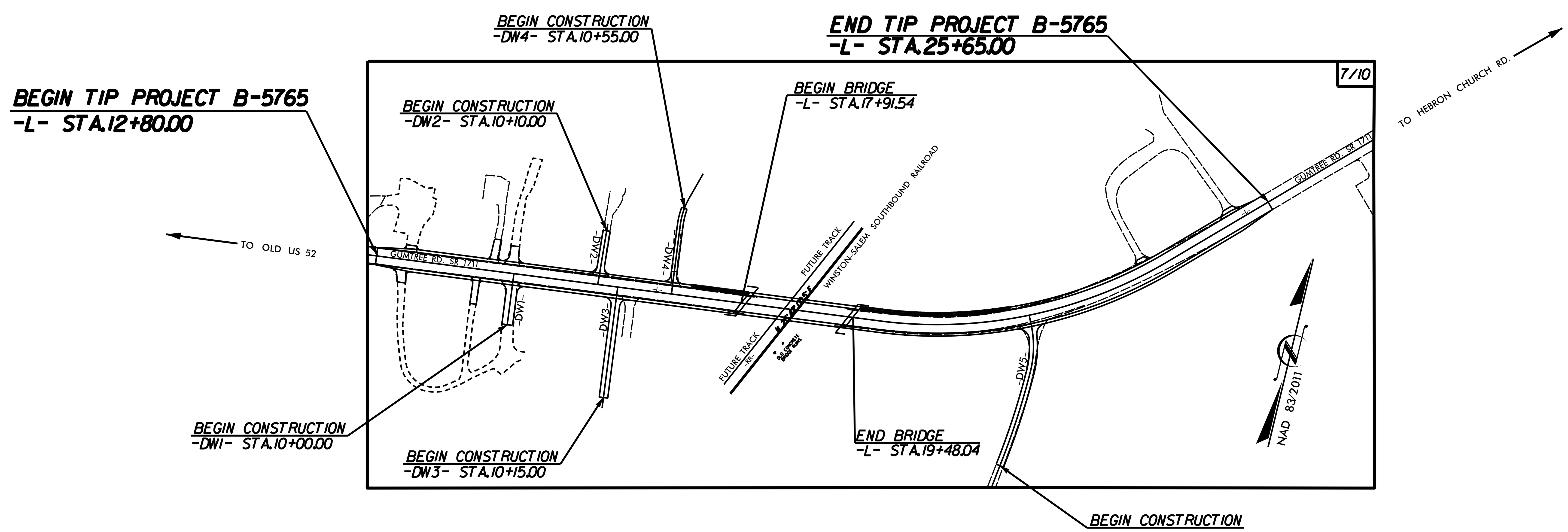
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

DAVIDSON COUNTY

LOCATION: REPLACE BRIDGE NO. 115 ON SR 1711 (GUMTREE ROAD) OVER WINSTON-SALEM SOUTHBOUND RAILROAD

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	
1630.05	Temporary Diversion	
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	SW / CFW
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
1630.06	Special Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

GRAPHIC SCALE

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.

PARRISH&PARTNERS

Prepared in the Office of:

PARRISH AND PARTNERS
11325 N. COMMUNITY HOUSE RD.
CHARLOTTE, NC 28277

Designed by:

KEVIN HIGGINS, PE — *4000*
NAME — *LEVEL III CERTIFICATION NO.*

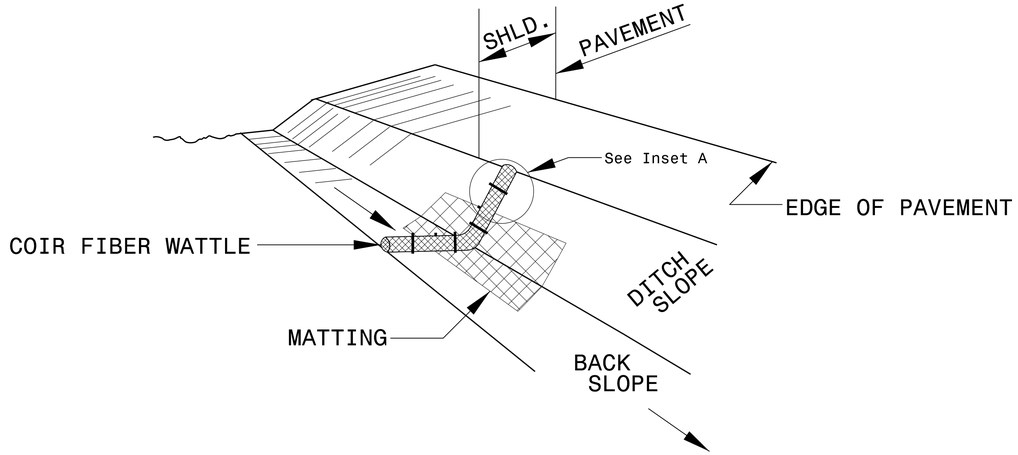
Roadway Standard Drawings

The following roadway <u>english</u> 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.

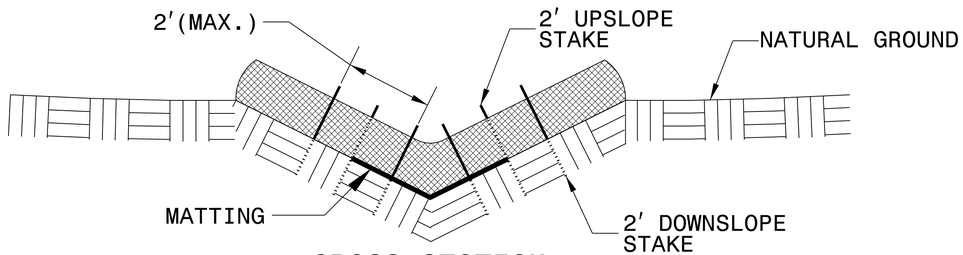
1604.01 Railroad Erosion Control Detail
1605.01 Temporary Silt Fence
1606.01 Special Sediment Control Fence
1607.01 Gravel Construction Entrance
1622.01 Temporary Berms and Slope Drains
1630.01 Riser Basin
1630.02 Silt Basin Type B
1630.03 Temporary Silt Ditch
1630.04 Stilling Basin
1630.05 Temporary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

PROJECT REFERENCE NO.	SHEET NO.
B-5765	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

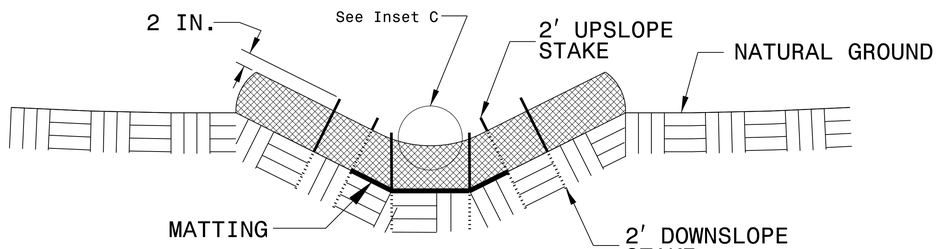
COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



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.

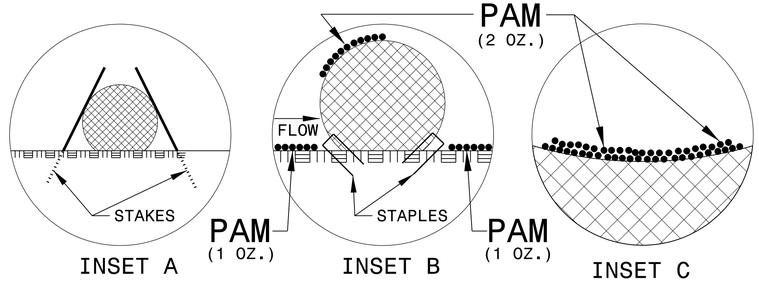
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

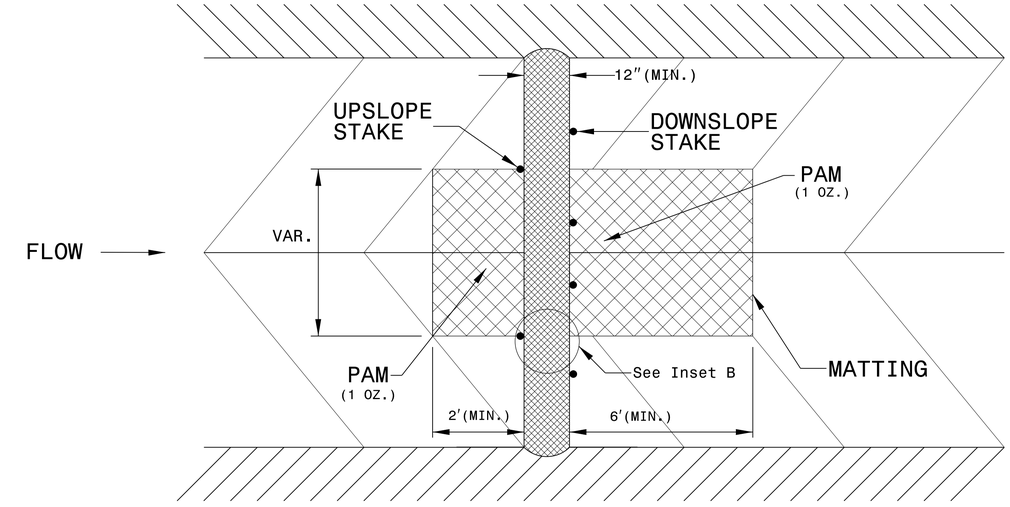
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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.

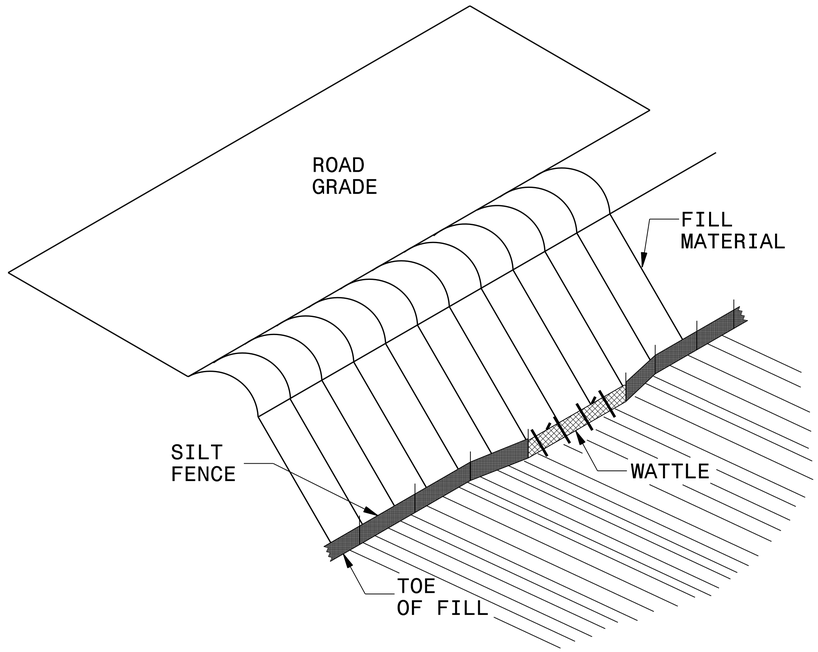




TOP VIEW

SILT FENCE COIR FIBER WATTLE BREAK DETAIL

PROJECT REFERENCE NO.	SHEET NO.
B-5765	EC-3
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.

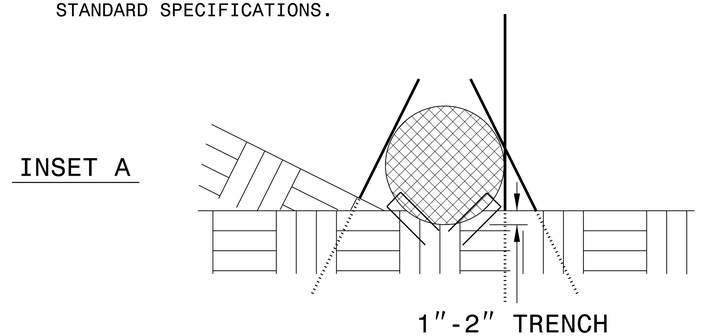
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.

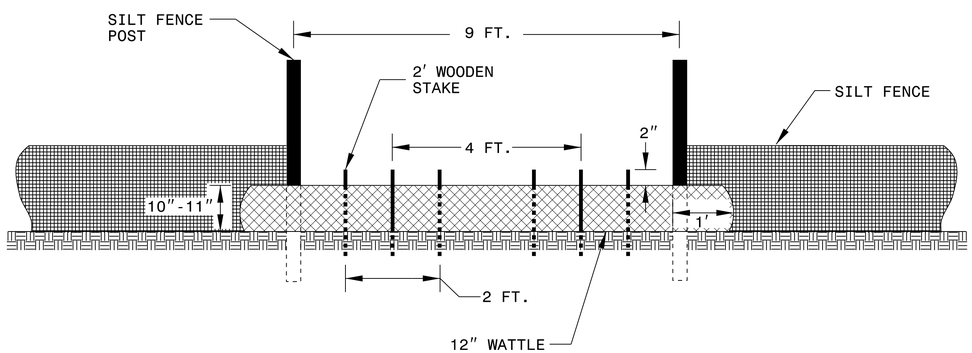
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

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

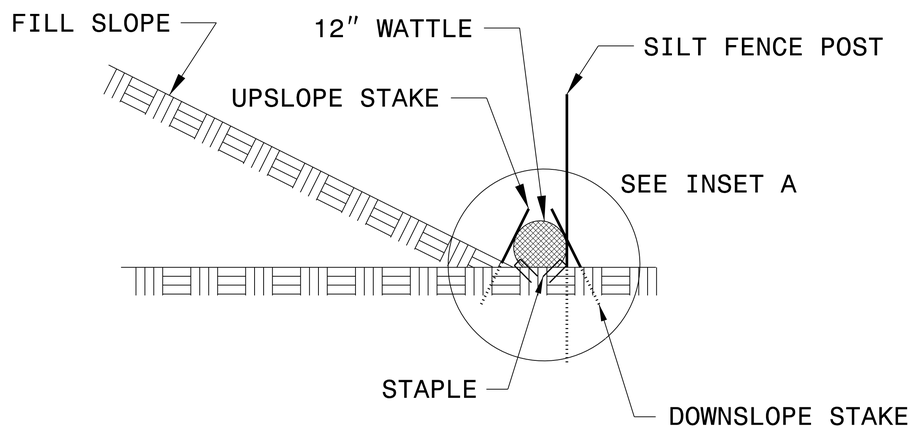
WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.

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





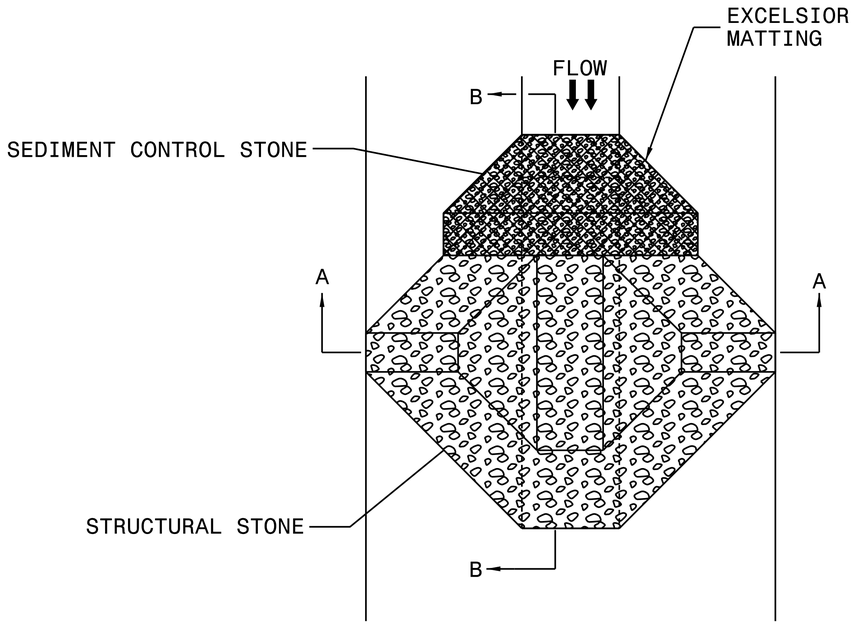
VIEW FROM SLOPE



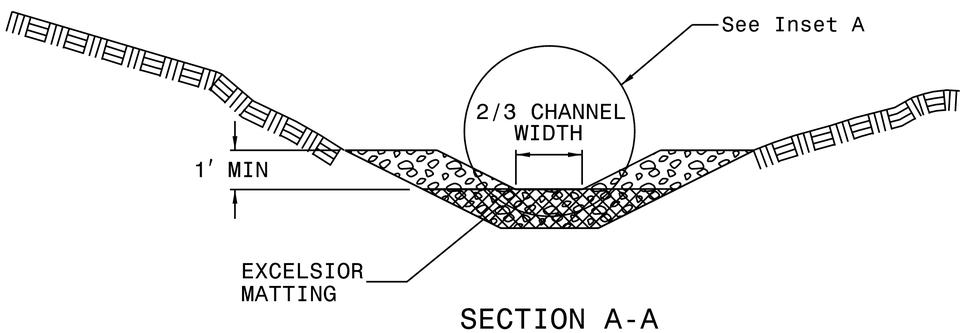
SIDE VIEW

PROJECT REFERENCE NO.	SHEET NO.
B-5765	EC-4
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

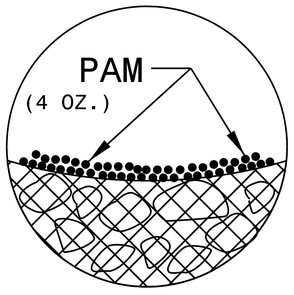
NOTES:

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

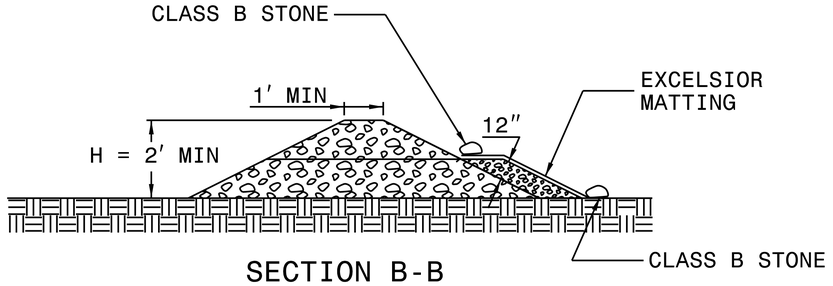
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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

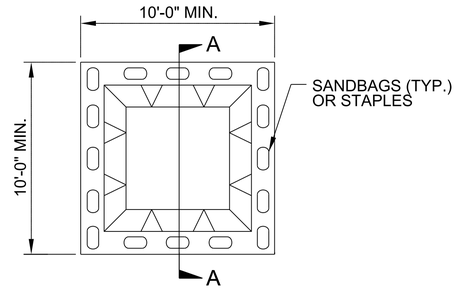


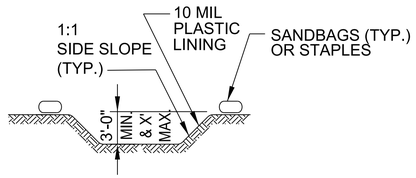
SECTION B-B

NOT TO SCALE

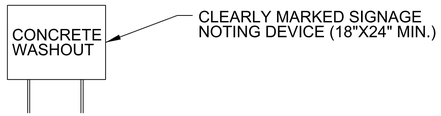
PROJECT REFERENCE NO.	SHEET NO.
B-5765	EC-5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER





SECTION A-A



PLAN

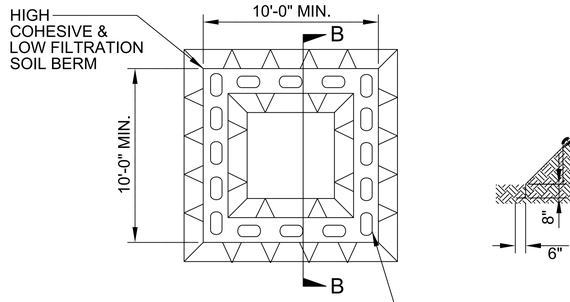
NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD

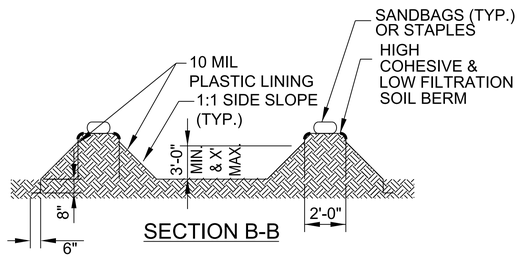
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.

3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

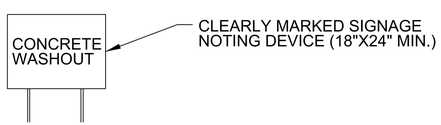
BELOW GRADE WASHOUT STRUCTURE

NOT TO SCALE





SECTION B-B



PLAN

NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD

2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.

3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

ABOVE GRADE WASHOUT STRUCTURE

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
B-5765	EC-6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

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

PROJECT REFERENCE NO.	SHEET NO.
B-5765	EC-7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	L	20+50	23+50	LT	385
4	L	23+50	25+50	LT	140
				SUBTOTAL	525
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					6935
				TOTAL	7460
				SAY	7500

RIPRAP CL B FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (TONS)
4	L	19+50	20+50	LT	30
				SUBTOTAL	30
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					
				TOTAL	30
				SAY	30

PROJECT REFERENCE NO.	SHEET NO.
B-5765	EC-8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PARRISH & PARTNERS
11325 N COMMUNITY HOUSE RD
SUITE 260
CHARLOTTE, NC 28277

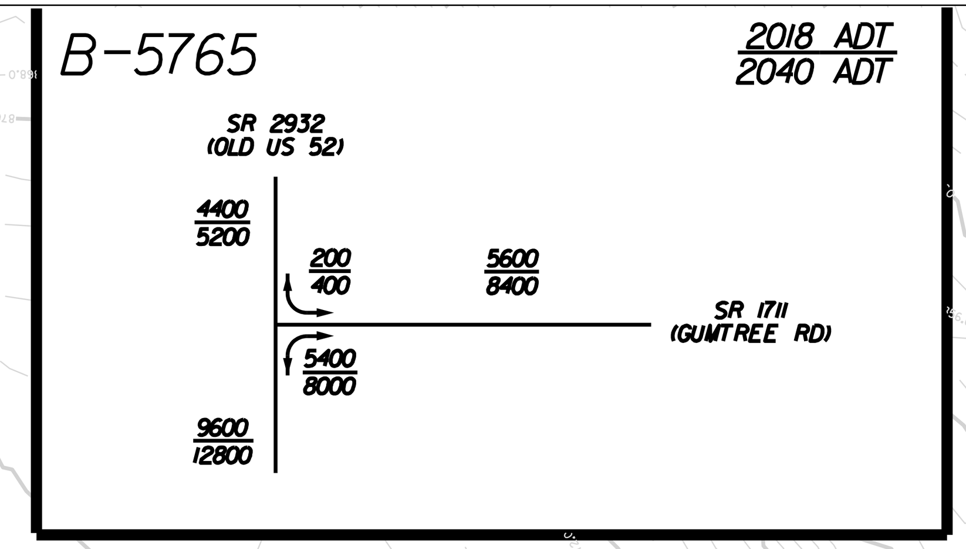
8/17/99

REVISIONS

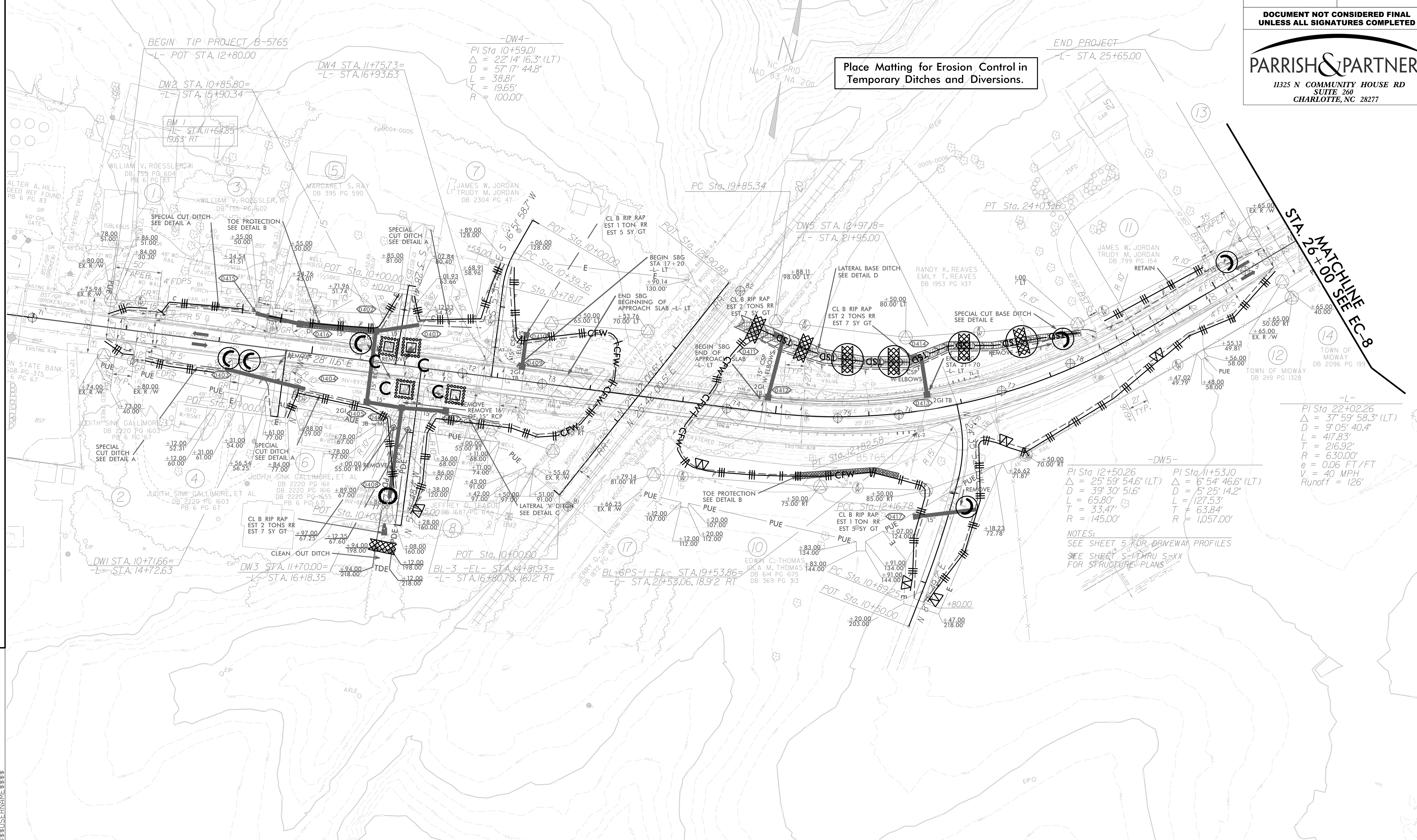
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4



Place Matting for Erosion Control in Temporary Ditches and Diversions.



$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$
$$$$$$USERNAME$$$$$

8/17/99

OFFSITE DETOUR IMPROVEMENTS TO THE INTERSECTION OF SR 1711 (GUMTREE ROAD) AND SR 1713 (HEBRON CHURCH ROAD)

PROJECT REFERENCE NO.	SHEET NO.
B-5765	EC-9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PARRISH & PARTNERS
11325 N COMMUNITY HOUSE RD
SUITE 260
CHARLOTTE, NC 28277

REVISIONS

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 2C-2

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

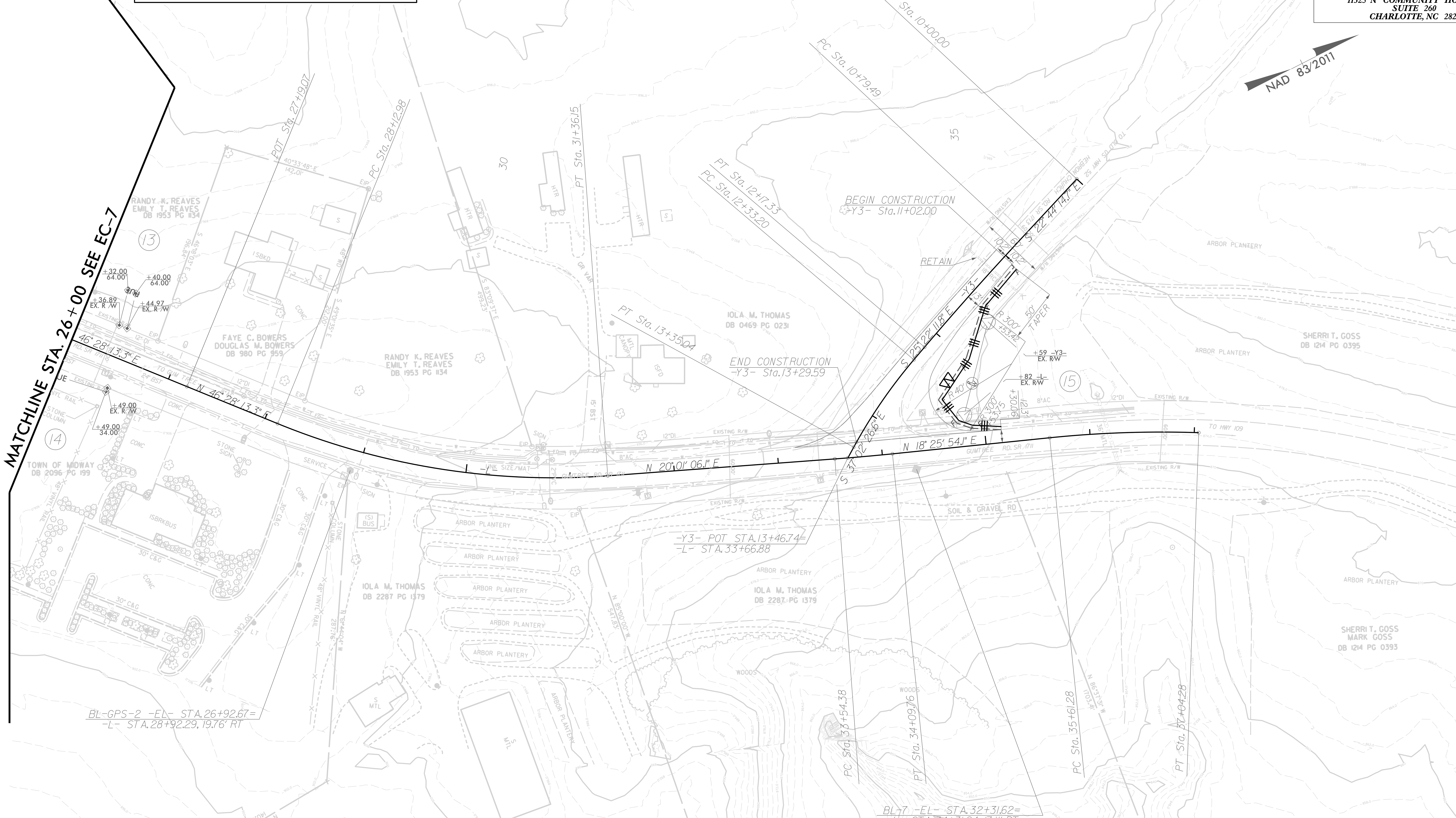
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

-L-

PI Sta 29+77.49	PI Sta 33+82.07	PI Sta 36+32.89
△ = 26° 27′ 07.2″ (LT)	△ = 1° 35′ 12.0″ (LT)	△ = 7° 48′ 11.3″ (RT)
D = 8° 11′ 06.4″	D = 2° 51′ 53.2″	D = 5° 27′ 24.3″
L = 323.17′	L = 55.39′	L = 143.00′
T = 164.52′	T = 27.69′	T = 71.61′
R = 700.00′	R = 2,000.00′	R = 1,050.00′

-Y3-

PI Sta 11+48.42	PI Sta 12+84.30
△ = 2° 37′ 57.1″ (LT)	△ = 11° 40′ 14.8″ (LT)
D = 1° 54′ 35.5″	D = 11° 27′ 33.0″
L = 137.84′	L = 101.85′
T = 68.93′	T = 51.10′
R = 3,000.00′	R = 500.00′
e = MATCH EXIST.	e = MATCH EXIST.



NOTES:
SEE SHEET 6 FOR -Y3- PROFILE

$$$$$SYSTIME$$$$
$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$
$$$$$USERNAME$$$$

OFFSITE DETOUR IMPROVEMENTS TO THE INTERSECTION OF OLD US 52 AND SR 1713 (HEBRON CHURCH ROAD)

PROJECT REFERENCE NO.	SHEET NO.
B-5765	EC-10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PARRISH & PARTNERS
11325 N COMMUNITY HOUSE RD
SUITE 260
CHARLOTTE, NC 28277

REVISIONS 8/17/99

$$$$USERNAME$$$$DGN $$$$SYSTIME$$$$

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

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

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

NAD 83/2011

POT Sta. 10+00.00
PC Sta. 10+50.53
PT Sta. 14+21.59
PCC Sta. 12+92.15
PC Sta. 12+78.77
PCC Sta. 15+33.12
PT Sta. 16+48.12
BEGIN CONSTRUCTION -Y2- Sta. 11+83.00

END CONSTRUCTION
-Y2- STA. 14+17.20
-Y2- STA. 14+33.48 =
-Y1- STA. 12+11.48

-Y2-
PI Sta 10+31.66
Δ = 5° 29' 32.4" (RT)
D = 8° 40' 52.2"
L = 63.27'
T = 31.66'
R = 660.00'

PI Sta 13+58.50
Δ = 63° 26' 48.3" (LT)
D = 44° 25' 30.0"
L = 142.82'
T = 79.73'
R = 128.97'
e = MATCH EXIST.

-Y1-
PI Sta 11+72.25
Δ = 17° 11' 51.0" (RT)
D = 7° 07' 03.0"
L = 241.62'
T = 121.73'
R = 805.00'

PI Sta 14+13.87
Δ = 20° 00' 33.5" (RT)
D = 8° 18' 13.5"
L = 240.97'
T = 121.72'
R = 690.00'

PI Sta 15+90.70
Δ = 7° 27' 13.1" (RT)
D = 6° 28' 53.1"
L = 115.00'
T = 57.58'
R = 884.00'

0434 COLLAR 15" RCP
R 300' +55.23
0435 CL B RIP RAP EST 2 TON RR EST 7 SY GT
0431 JBwMH TB
15" RCP-III
0432 CL B RIP RAP EST 3 TON RR EST 7 SY GT
13.67' +67.40
+47 -Y1- EX. R/W
+96 -Y2- EX. R/W

BM#3
-Y1- STA. 15+35.43, 275.83' LT
EL. 855.24'

BM3

JOSHUA L. LEDWELL
ABIGAIL L. LEDWELL
DB 2313 PG 1503

JOHN GROSSOEHME
KIMBERLEY GROSSOEHME
DB 2279 PG 0001
PB 068 PG 028

HEBRON UNITED CHURCH OF CHRIST
PB 068 PG 028

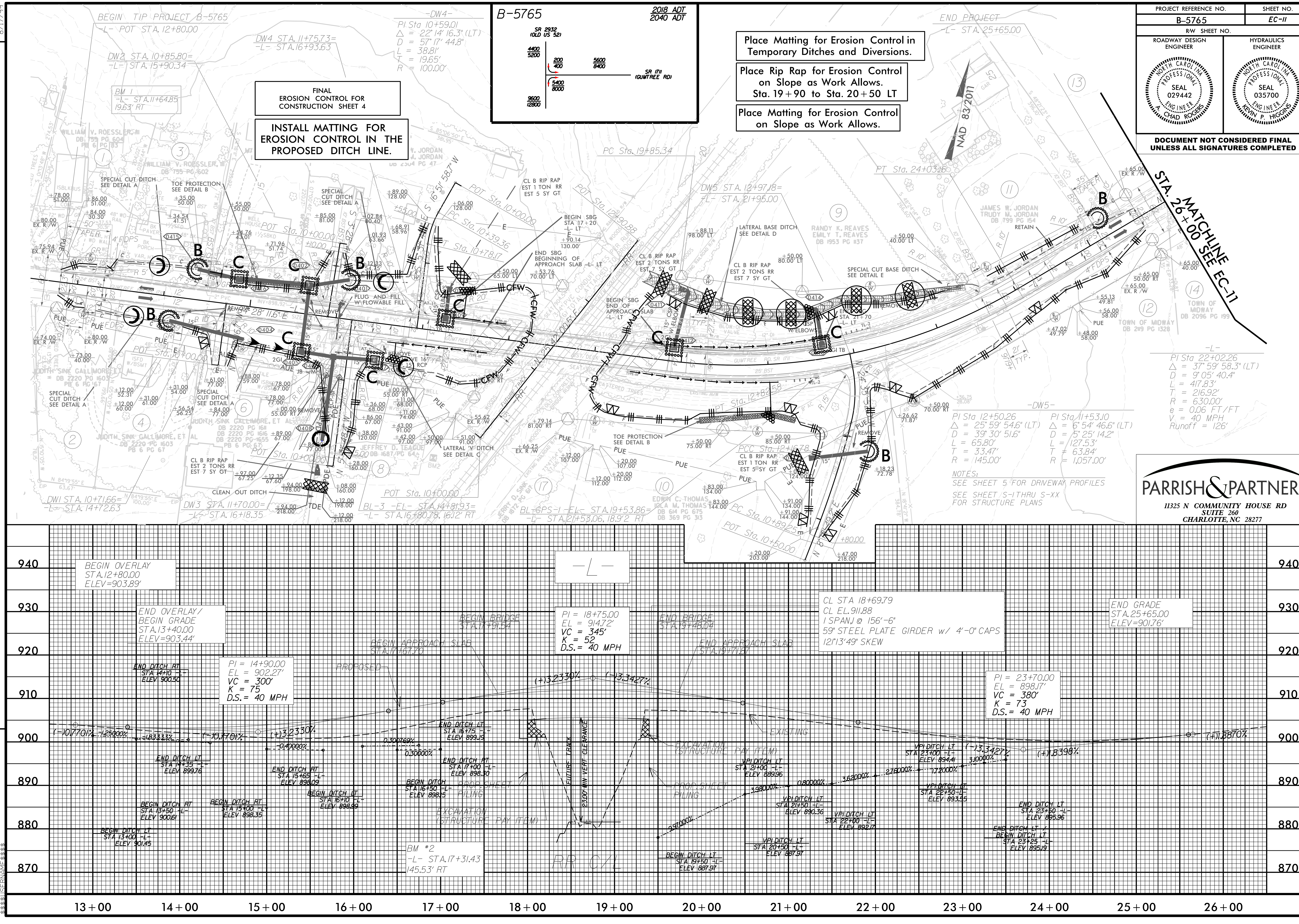
FRANK D. RAGSDALE, SR
NANCY H. RAGSDALE
DB 1383 PG 1249

HEBRON UNITED CHURCH OF CHRIST
PB 067 PG 057

STONED THROW TOWNHOMES
PB 1982 PG 0558
PB 049 PG 040

2SBK4PT

NOTES:
SEE SHEET 6 FOR -Y2- PROFILE


PROJECT REFERENCE NO.
B-5765
SHEET NO.
EC-11
RW SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 029442 ENGINEER A. CHAD ROGERS
NORTH CAROLINA PROFESSIONAL SEAL 035700 ENGINEER KEVIN P. HIGGINS
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
B-5765
2018 ADT
2040 ADT
SR 2932 (OLD US 52)
SR 1711 (GUMTREE RD)
Place Matting for Erosion Control in Temporary Ditches and Diversions.
Place Rip Rap for Erosion Control on Slope as Work Allows. Sta. 19+90 to Sta. 20+50 LT
Place Matting for Erosion Control on Slope as Work Allows.
FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 4
INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.
BEGIN TIP PROJECT B-5765
-L- POT STA. 12+80.00
END PROJECT
-L- STA. 25+65.00
MATCHLINE STA. 26+00 SEE EC-11
NAD 83/2011
-L-
PI Sta 22+02.26
Δ = 37° 59' 58.3" (LT)
D = 9° 05' 40.4"
L = 417.83'
T = 216.92'
R = 630.00'
e = 0.06 FT/FT
V = 40 MPH
Runoff = 126'
-DW5-
PI Sta 12+50.26
Δ = 25° 59' 54.6" (LT)
D = 39° 30' 51.6"
L = 65.80'
T = 33.47'
R = 145.00'
PI Sta 11+53.10
Δ = 6° 54' 46.6" (LT)
D = 5° 25' 14.2"
L = 127.53'
T = 63.84'
R = 1,057.00'
NOTES:
SEE SHEET 5 FOR DRIVEWAY PROFILES
SEE SHEET S-1 THRU S-XX FOR STRUCTURE PLANS
PARRISH&PARTNERS
11325 N COMMUNITY HOUSE RD SUITE 260 CHARLOTTE, NC 28277
REVISIONS
-L-
BEGIN OVERLAY STA.12+80.00 ELEV=903.89'
END OVERLAY/ BEGIN GRADE STA.13+40.00 ELEV=903.44'
PI = 14+90.00 EL = 902.27' VC = 300' K = 75 D.S.= 40 MPH
PI = 18+75.00 EL = 914.72' VC = 345' K = 52 D.S.= 40 MPH
CL STA 18+69.79 CL EL.911.88 1 SPAN @ 156'-6" 59" STEEL PLATE GIRDER w/ 4'-0" CAPS 121°13'49" SKEW
PI = 23+70.00 EL = 898.17' VC = 380' K = 73 D.S.= 40 MPH
END GRADE STA.25+65.00 ELEV=901.76'
BEGIN BRIDGE STA.17+91.54
END BRIDGE STA.19+48.04
BEGIN APPROACH SLAB STA.17+67.70
END APPROACH SLAB STA.19+71.87
BM #2 -L- STA.17+31.43 145.53' RT
RR C/L
940
930
920
910
900
890
880
870
13+00
14+00
15+00
16+00
17+00
18+00
19+00
20+00
21+00
22+00
23+00
24+00
25+00
26+00

OFFSITE DETOUR IMPROVEMENTS TO THE INTERSECTION OF OLD US 52 AND SR 1713 (HEBRON CHURCH ROAD)

PROJECT REFERENCE NO.	SHEET NO.
B-5765	EC-12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PARRISH & PARTNERS
11325 N COMMUNITY HOUSE RD
SUITE 260
CHARLOTTE, NC 28277

REVISIONS 8/17/99

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 2C-1

NAD 83/2011

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PB 067 PG 057

FRANK D. RAGSDALE, SR
NANCY H. RAGSDALE
DB 1383 PG 1249

STONED THROW TOWNHOMES
PB 1982 PG 0558
PB 049 PG 040

POT Sta. 10+00.00
PC Sta. 10+50.53
PT Sta. 14+21.59
PCC Sta. 12+92.15
PCC Sta. 15+33.12
PT Sta. 16+48.12
PC Sta. 12+78.77

END CONSTRUCTION
-Y2- STA. 14+17.20
-Y2- STA. 14+33.48 =
-Y1- STA. 12+11.48

BEGIN CONSTRUCTION
-Y2- Sta. 11+83.00

BL-5 -Y2- STA. 10+76.99, 24.68' LT

-Y2-

PI Sta 10+31.66
△ = 5° 29' 32.4" (RT)
D = 8° 40' 52.2"
L = 63.27'
T = 31.66'
R = 660.00'

PI Sta 13+58.50
△ = 63° 26' 48.3" (LT)
D = 44° 25' 30.0"
L = 142.82'
T = 79.73'
R = 128.97'
e = MATCH EXIST.

-Y1-

PI Sta. 11+72.25
△ = 17° 11' 51.0" (RT)
D = 7° 07' 03.0"
L = 241.62'
T = 121.73'
R = 805.00'

PI Sta. 14+13.87
△ = 20° 00' 33.5" (RT)
D = 8° 18' 13.5"
L = 240.97'
T = 121.72'
R = 690.00'

PI Sta 15+90.70
△ = 7° 27' 13.1" (RT)
D = 6° 28' 53.1"
L = 115.00'
T = 57.58'
R = 884.00'

0434 COLLAR 15" RCP R 300' +55.23

0435 CL B RIP RAP EST 2 TON RR EST 7 SY GT

0432 CL B RIP RAP EST 3 TON RR EST 7 SY GT

0431 JB w/MH TB

15" RCP-III

12" RCP

RETAIN

+47 -Y1- EX. R/W

+96 -Y2- EX. R/W

BM#3
-Y1- STA. 15+35.43, 275.83' LT
EL. 855.24'

NOTES:
SEE SHEET 6 FOR -Y2- PROFILE

$$$$USERNAME$$$$
$$$$SYSTIME$$$$