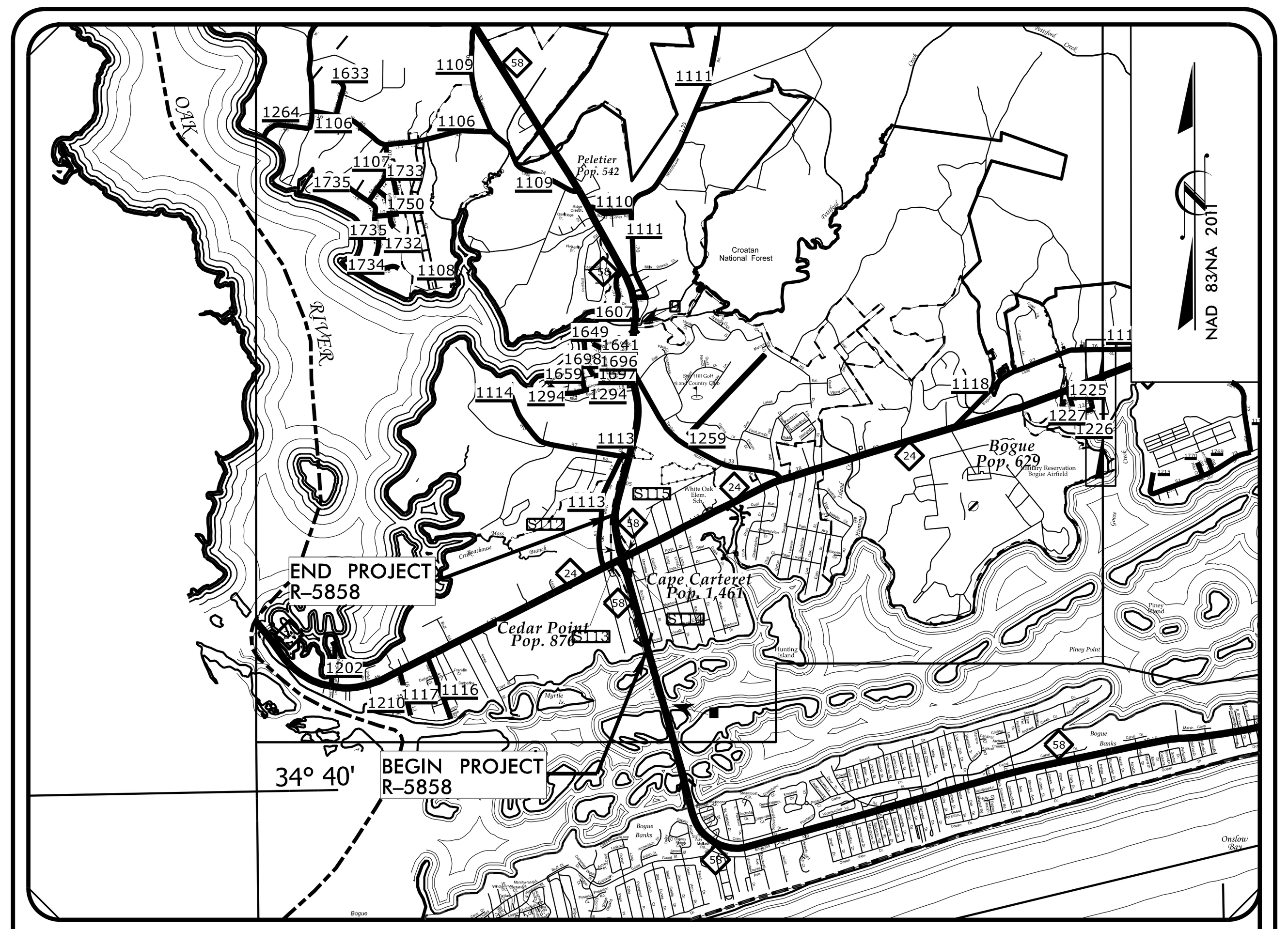
TIP PROJECT: R-5858

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5858	EC-1	

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
47546.1.1		



VICINITY MAP
NOT TO SCALE

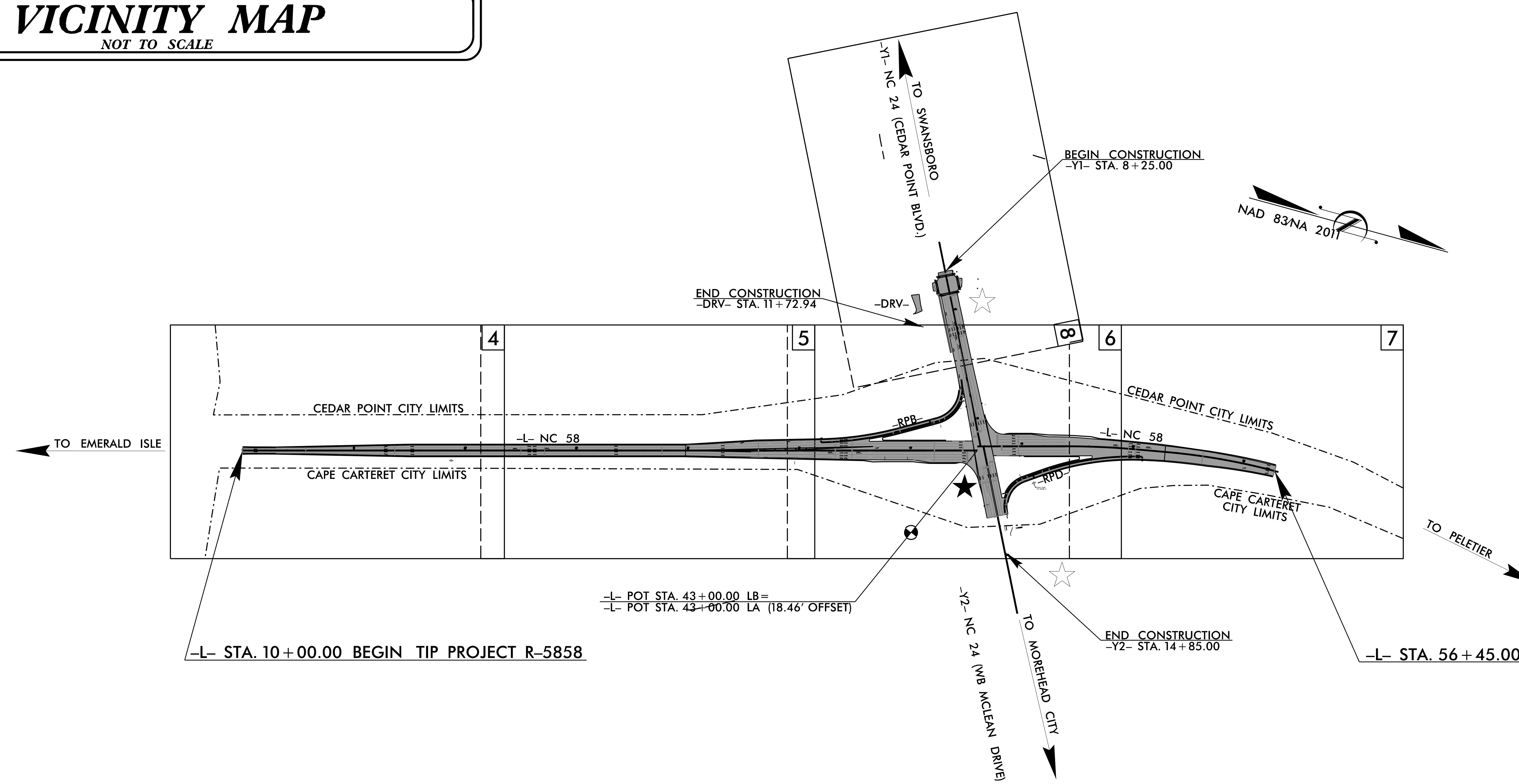
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

CARTERET COUNTY

LOCATION: INTERSECTION IMPROVEMENT OF NC 24
(CEDAR POINT BLVD. & WB MCLEAN DR.)

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND SIGNAL UPGRADE



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

ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT

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

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

HIGH QUALITY WATER(S) EXIST ON THIS PROJECT

High Quality Water Zone(s) Exist
From Sta. -L- 10+00
to Sta. -L- 56+62.48
Refer To E. C. Special Provisions for Special Considerations.

GRAPHIC SCALE

50 25 0 50 100

PLANS

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG 010000 GENERAL STORMWATER CONSTRUCTION PERMIT ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES.

GFT
GFT Infrastructure, Inc.
101 Autumn Hall Drive, Suite 210
Wilmington, NC 28403
910-523-5715
NC Lic. No. F-0270

Prepared In the Office of:
GFT
1 Glenwood Avenue, Suite 600
Raleigh, NC 27603

Designed by:
Hannah Arey 4651
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2024 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

PROJECT REFERENCE NO.	SHEET NO.
R-5858	EC-02
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	TSD
1630.04	Stilling Basin	
1630.05	Temporary Diversion	TD
1630.06	Special Stilling Basin	
1630.07	Skimmer Basin	
1630.08	Tiered Skimmer Basin	
1630.09	Earthen Dam with Skimmer	
	Infiltration Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C

Std. #	Description	Symbol
1633.01	Temporary Rock Silt Check Type A	
1633.02	Temporary Rock Silt Check Type B	
1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
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	A
1635.02	Rock Pipe Inlet Sediment Trap Type B	B
1636.01	Excelsior Wattle Check	
1636.01	Excelsior Wattle Check with Flocculant	
1636.01	Coir Fiber Wattle Check	
1636.01	Coir Fiber Wattle Check with Flocculant	
1636.02	Silt Fence Excelsior Wattle Break	EW
	Silt Fence Coir Fiber Wattle Break	CFW
1636.03	Excelsior Wattle Barrier	—EW—EW—EW—
1636.03	Coir Fiber Wattle Barrier	—CFW—CFW—CFW—

TRANSYSTEMS
1 Glenwood Avenue
Raleigh, NC 27603
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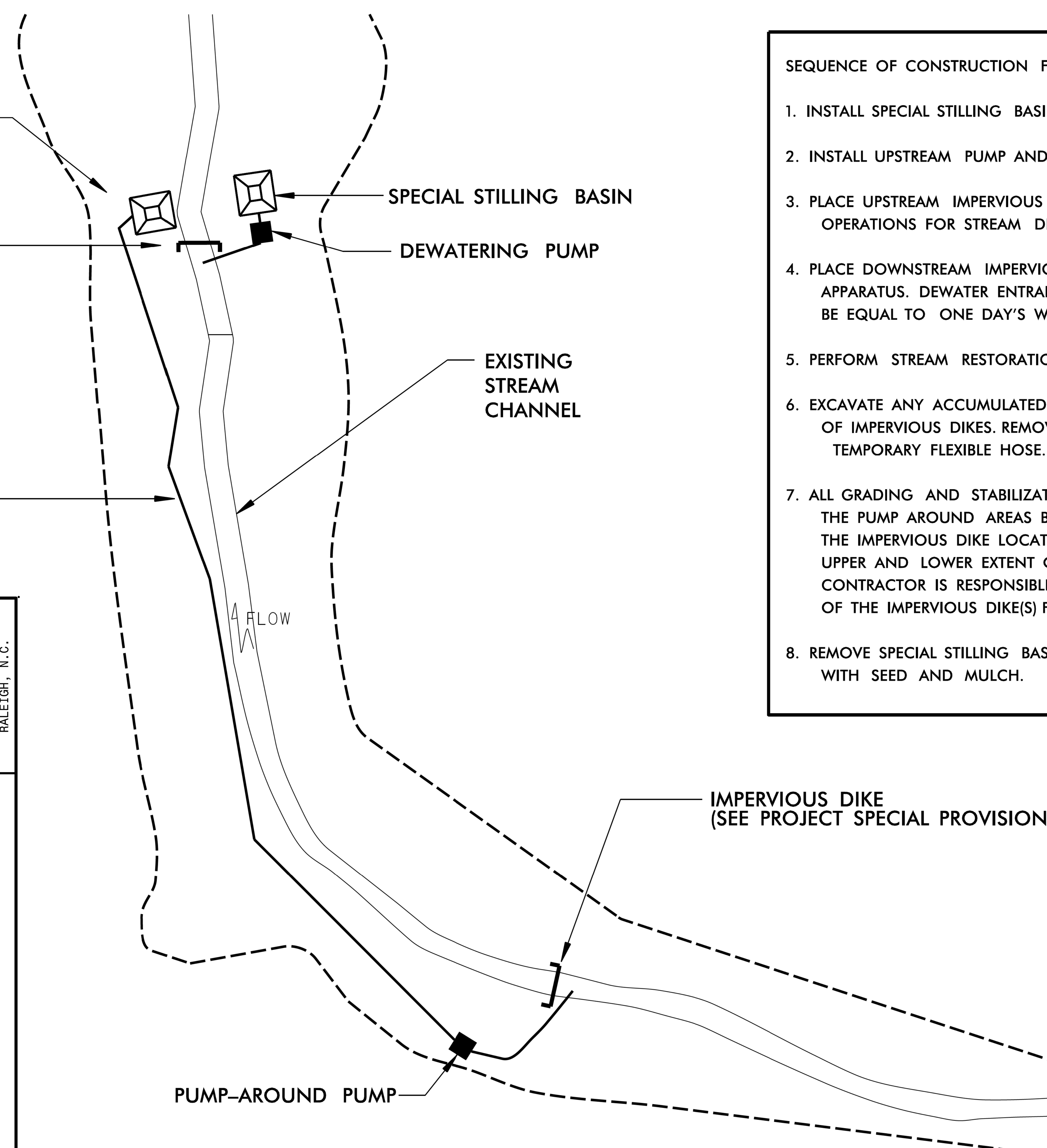
Fax:919.789.9591
License: F-0453

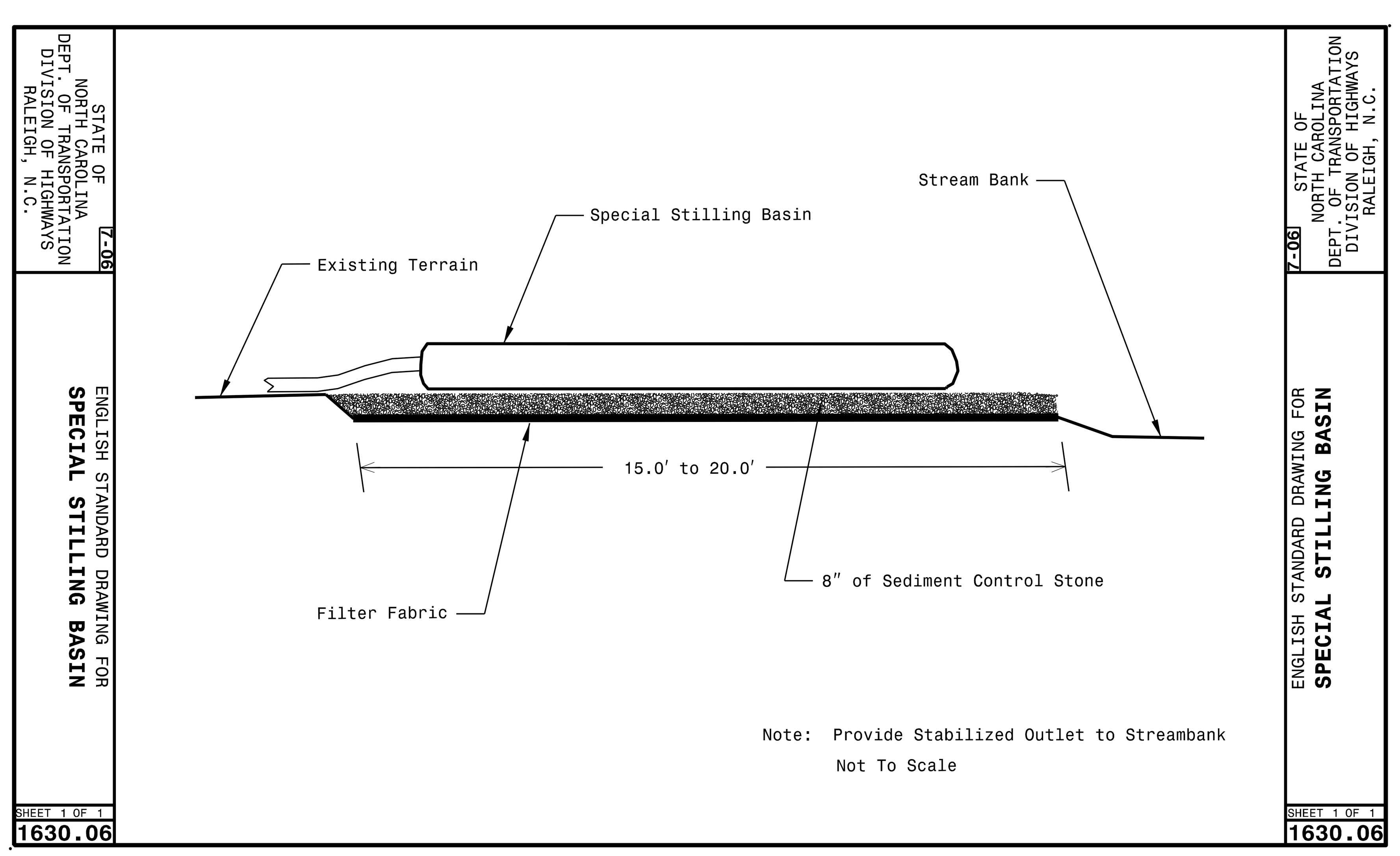
EXAMPLE OF PUMP-AROUND OPERATION

NOTES:
1) All excavation shall be performed in only dry or isolated sections of channel.
2) Impervious dikes are to be used to isolate work from stream flow when necessary.
3) All graded areas shall be stabilized within 24 hours.
4) Maintenance of stream flow operations shall be incidental to the work. This includes polyethylene sheeting, diversion pipes, pumps and hoses.
5) Pumps and hoses shall be of sufficicient size to dewater the work area.



SEQUENCE OF CONSTRUCTION FOR TYPICAL WORK AREA

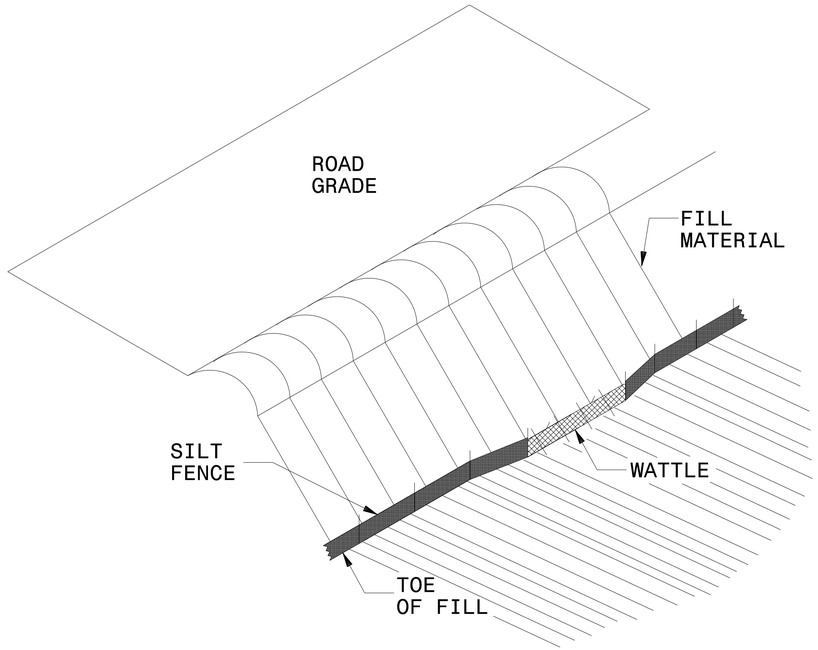
1. INSTALL SPECIAL STILLING BASIN(S).
2. INSTALL UPSTREAM PUMP AND TEMPORARY FLEXIBLE HOSE.
3. PLACE UPSTREAM IMPERVIOUS DIKE AND BEGIN PUMPING OPERATIONS FOR STREAM DIVERSION.
4. PLACE DOWNSTREAM IMPERVIOUS DIKE AND PUMPING APPARATUS. DEWATER ENTRAPPED AREA. AREA TO BE DEWATERED SHALL BE EQUAL TO ONE DAY'S WORK.
5. PERFORM STREAM RESTORATION WORK IN ACCORDANCE WITH THE PLANS.
6. EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES. REMOVE IMPERVIOUS DIKES, PUMPS, AND TEMPORARY FLEXIBLE HOSE. (DOWNSTREAM IMPERVIOUS DIKES FIRST).
7. ALL GRADING AND STABILIZATION MUST BE COMPLETED IN ONE DAY WITHIN THE PUMP AROUND AREAS BETWEEN THE IMPERVIOUS DIKES. THE IMPERVIOUS DIKE LOCATIONS AS SHOWN ON THIS SHEET ONLY SHOW THE UPPER AND LOWER EXTENT OF WORK FOR EACH STREAM SEGMENT. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF THE IMPERVIOUS DIKE(S) FOR EACH DAY'S WORK.
8. REMOVE SPECIAL STILLING BASIN(S) AND BACKFILL. STABILIZE DISTURBED AREA WITH SEED AND MULCH.



Refer to NCDOT Standard Specifications - Section 1639

SILT FENCE COIR FIBER WATTLE BREAK DETAIL

PROJECT REFERENCE NO.	SHEET NO.
R-5858	EC-2B
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.

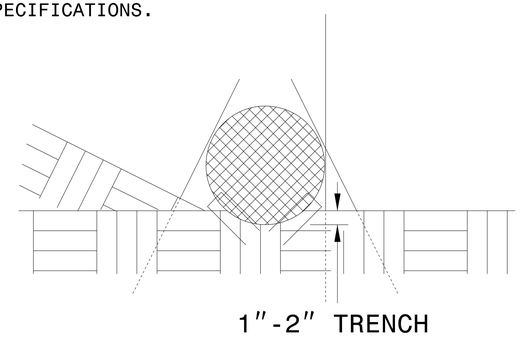
PROVIDE STAPLES MADE OF 11 GUAGE STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 6″ IN LENGTH.

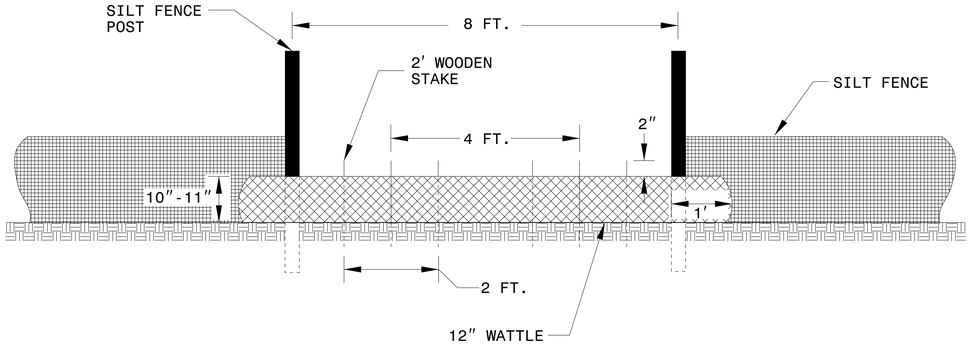
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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

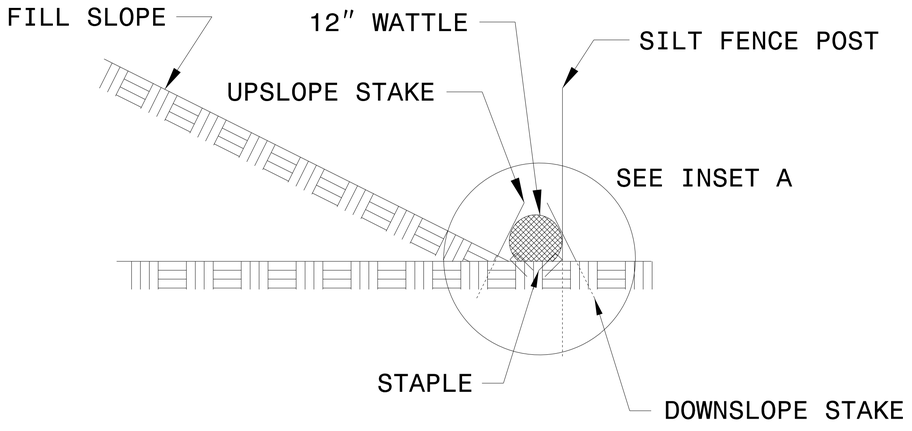
INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

INSET A





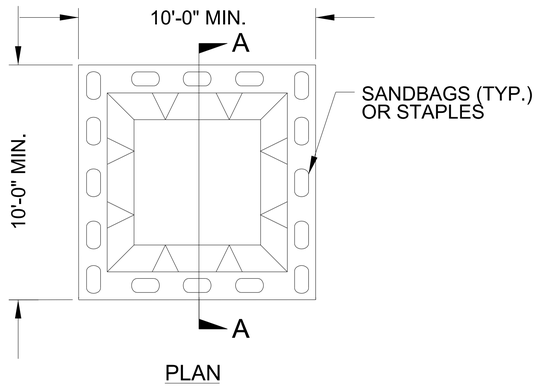
VIEW FROM SLOPE



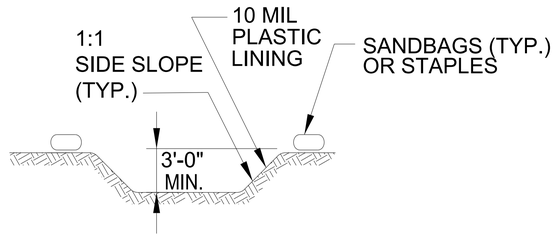
SIDE VIEW

PROJECT REFERENCE NO.	SHEET NO.
R-5858	EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

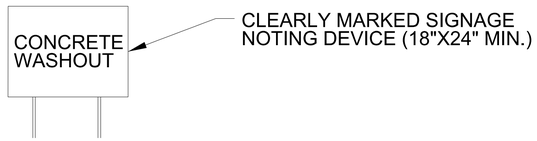
ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



PLAN



SECTION A-A



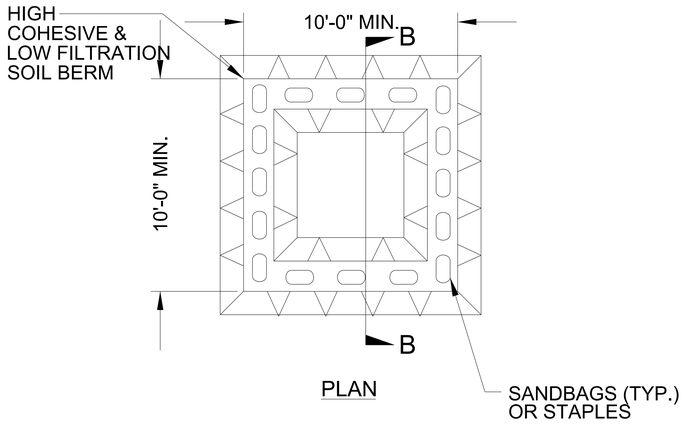
NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD

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.

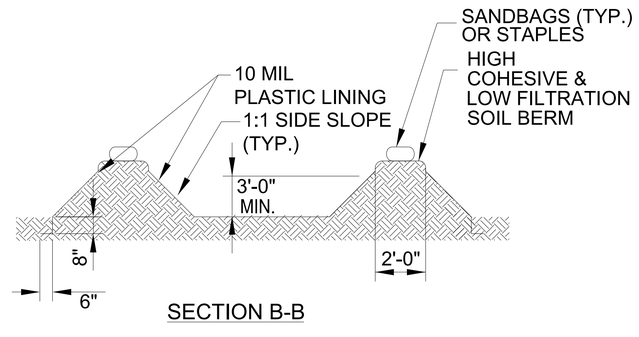
3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

BELOW GRADE WASHOUT STRUCTURE

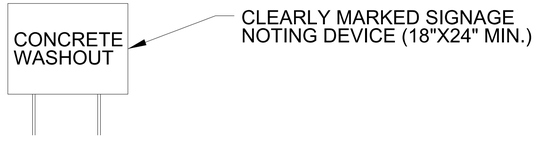
NOT TO SCALE



PLAN



SECTION B-B



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.
R-5858	EC-3

TRANSYSTEMS
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Fax:919.789.9591
License: F-0453

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)
6	-RPD-	14+00	15+00	LT	105
6	-RPB-	13+00	15+00	RT	205
6	-RPB-	15+00	17+00	LT	350
6	-Y2-	11+06	12+15	RT	160
8	-DRV-	10+33	10+75	RT	30
8	-DRV-	10+75		LT	75
				SUBTOTAL	925
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					1,500
				TOTAL	2,425
				SAY	2,600

MATTING FOR EROSION CONTROL

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

PROJECT REFERENCE NO.	SHEET NO.
R-5858	EC-3A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

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


PROJECT REFERENCE NO. R-5858
SHEET NO. EC-4/CONST.4
GFT
GFT Infrastructure, Inc.
101 Autumn Hall Drive, Suite 210
Wilmington, NC 28403
910-523-5715
NC Lic. No. F-0270
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT NON-JURISDICTIONAL DRAINAGE OUTLETS.
NAD 83/NA 2011
ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS
-L-
PI Sta 10+21.57
Δ = 0°03′ 25.3″ (LT)
D = 1°08′ 45.3″
L = 4.98′
T = 2.49′
R = 5,000.00′
SE = EXIST.
EXTEND PAVING LIMITS BACK TO END OF BRIDGE
NOTE:
COORDINATION OF JURISDICTIONAL FLOW THROUGH RELOCATED CHANNEL SHOULD OCCUR IN ACCORDANCE WITH GENERAL CERTIFICATE COVERAGE
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.
CHANNEL CHANGE IN JURISDICTIONAL STREAMS MUST BE CONSTRUCTED IN THE DRY UTILIZING A PUMP AROUND OPERATION. DO NOT DISTURB ANY AREA WHICH CANNOT BE STABILIZED WITHIN 24 HOURS
FROM STA. 15+70 TO STA. 42+15 -L- LT
FROM STA. 15+25 TO STA. 56+00 -L- RT
MARGARAT HURST
DB 562 PG 496
BOGUE SOUND RV OWNER, LLC
DB 1767 PG 109
PB 33 PG 441
-L- POT Sta. 10+00.00
-L- PC Sta. 10+19.08
-L- PT Sta. 10+24.06
IMPERVIOUS DIKE
BEGIN PUMP
AROUND OPERATION
2-FT BASE CHANNEL CHANGE
w/COIR FIBER MATTING
EST. 6080 SY
SEE DETAIL 1
600′ LANE TRANSITION LT. AND RT.
DRIVE TO BE RETAINED
REMOVE AND REPLACE
GUARDRAIL END UNITS
REMOVE 98 LF OF
CONCRETE DITCH
GREU TL-3
4′ PS
N 15°19′ 25.6″ W
-L-
BM 2 ELEV. 11.15′
N 82°13′ 57″ E 49.13′ RIGHT
FROM R5858-1
BENCHTIE SET IN 10″ POPLAR
IMPERVIOUS DIKE
BEGIN PUMP
AROUND OPERATION
PIPE OUTLET CHANNEL
CLASS 'I' RIP RAP
ON BANKS ONLY
SEE DETAIL 3
REMOVE 178 LF OF
CONCRETE DITCH
FALSE SUMP
SEE DETAIL 4
MATCHLINE -L- STA. 23+00.00
SEE SHEET 5
BRENDA A. DEANS
DB 1502 PG 2
PB 4 PG 53
MAT C. RAYMOND
ANN MARIE RAYMOND
DB 1574 PG 251
PB 4 PG 53
WESLEY L. ELMORE
ALICE LEE-ELMORE
DB 1489 PG 126
PB 4 PG 53
ROBBIE NEIL UNDERHILL
DB 1505 PG 451
PB 4 PG 53
GREGORY F. BROWN
ELIZABETH E. BROWN
DB 776 PG 115
PB 4 PG 53
CHRISTINE M. SCHWETZKE
KENNETH E. ALLEN JR
DB 902 PG 154
PB 4 PG 53
DOLORES WITT HOLVERSON
DB 1401 PG 493
PB 4 PG 53
W R LAMBERT TRUSTEE
DB 1346 PG 207
PB 4 PG 53
AMY C. ROUSE
CHRISTOPHER E. ROUSE
DB 1423 PG 436
PB 4 PG 53
WILLIAM F. SPIVEY
EDIE S. SPIVEY
DB 1314 PG 262
PB 4 PG 53
TONY E. WHITFIELD
CHARLOTTE A. WHITFIELD
DB 1411 PG 285
PB 4 PG 53
CYNTHIA B. SPEAR
DB 1486 PG 226
PB 4 PG 53
PETER R. JACOBSEN
VALERIE JACOBSEN
DB 355 PG 423
PB 4 PG 53
MCLEAN HOLDING LIMITED PARTNERSHIP
DB 1183 PG 125
PB 4 PG 53
BEGIN TIP PROJECT R-5858
-L- STA. 10+00.00
REVISIONS
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-5858	EC-5/CONST.5

GFT
GFT Infrastructure, Inc.
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Wilmington, NC 28403
910-523-5715
NC Lic. No. F-0270

8/17/99

REVISIONS

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

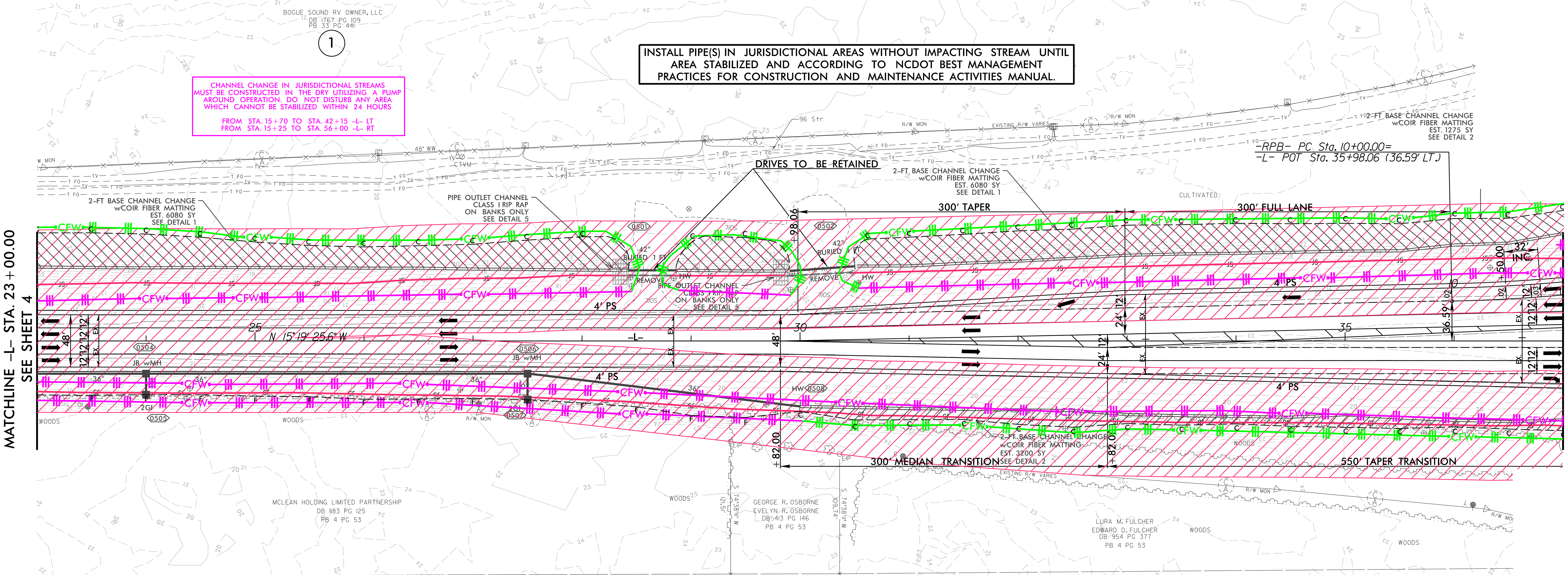
-RPB-

PI Sta 11+81.15	PI Sta 16+65.26
△ = 13° 46' 19.7" (LT)	△ = 82° 30' 02.8" (LT)
D = 3° 49' 11.0"	D = 38° 11' 49.9"
L = 360.55'	L = 215.99'
T = 181.15'	T = 131.55'
R = 1,500.00'	R = 150.00'
SE = .03	SE = .02
R.O. = 96'	R.O. = 50'

NAD 83/NA 2011

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

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


BOGUE SOUND RV OWNER, LLC
DB 1767 PG 109
PB 33 PG 441
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.
CHANNEL CHANGE IN JURISDICTIONAL STREAMS MUST BE CONSTRUCTED IN THE DRY UTILIZING A PUMP AROUND OPERATION. DO NOT DISTURB ANY AREA WHICH CANNOT BE STABILIZED WITHIN 24 HOURS
FROM STA. 15+70 TO STA. 42+15 -L- LT
FROM STA. 15+25 TO STA. 56+00 -L- RT
DRIVES TO BE RETAINED
2-FT BASE CHANNEL CHANGE w/COIR FIBER MATTING EST. 6080 SY SEE DETAIL 1
PIPE OUTLET CHANNEL CLASS I RIP RAP ON BANKS ONLY SEE DETAIL 5
2-FT BASE CHANNEL CHANGE w/COIR FIBER MATTING EST. 1275 SY SEE DETAIL 2
-RPB- PC Sta. 10+00.00=
-L- POT Sta. 35+98.06 (36.59' LT.)
300' TAPER
300' FULL LANE
CULTIVATED
MATCHLINE -L- STA. 23+00.00 SEE SHEET 4
MATCHLINE -L- STA. 37+00.00 SEE SHEET 6
N 15°19' 25.6" W
4' PS
JB w/MH
300' MEDIAN TRANSITION
550' TAPER TRANSITION
2-FT BASE CHANNEL CHANGE w/COIR FIBER MATTING EST. 3200 SY SEE DETAIL 2
WOODS
MCLEAN HOLDING LIMITED PARTNERSHIP
DB 1183 PG 125
PB 4 PG 53
GEORGE R. OSBORNE
EVELYN R. OSBORNE
DB 413 PG 146
PB 4 PG 53
LURA M. FULCHER
EDWARD D. FULCHER
DB 954 PG 377
PB 4 PG 53

SEE SHEET 9 FOR -L- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
R-5858	EC-6/CONST.6

GFT Infrastructure, Inc.
101 Autumn Hall Drive, Suite 210
Wilmington, NC 28403
910-523-5715
NC Lic. No. F-0270

REVISIONS 8/17/99

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

NC 24 CEDAR POINT BLVD
29,225 / 41,700
NC 58 17,600 / 25,100 — 7,700 / 10,000 — 3,000 / 4,100 — 8,700 / 12,400 NC 58
7,350 / 12,900 — 3,150 / 6,100
29,025 / 46,600
NC 24 WB MCLEAN DRIVE
2020 ADT / 2045 ADT

★ SIGNAL UPGRADE

NAD 83/NA 2011

MATCHLINE –Y1– STA. 11+00.00
SEE SHEET 8

WOODEN PICKET FENCE TO BE REPLACED UNDER PROJECT CONTRACT

BOGUE SOUND RV OWNER, LLC
DB 1767, PG 109
PB 33 PG 140

1

+98.17 –Y1– 67.00' RT.

GREU TL–3

END PROPOSED 5' CONC. SIDEWALK –Y1– STA. 11+87.00

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.

MAINTAIN EXISTING 2'–6" CURB & GUTTER

TIE TO EXISTING 2'–6" CURB & GUTTER –Y1– STA. 12+95.00

DO NOT DISTURB OVERHEAD SIGN/FOUNDATION

REPLACE EXISTING 2'–6" CURB & GUTTER

BEGIN 2'–6" C & G –Y1– STA. 14+12.15 RT.

3
CP DEVELOPMENT COMPANY, LLC
FILE 179225

–L–	–RPD–	
PI Sta 48+57.90	PI Sta 12+30.30	PI Sta 16+50.39
Δ = 5° 10' 26.5" (RT)	Δ = 21° 43' 40.1" (LT)	Δ = 77° 59' 02.5" (LT)
D = 1° 38' 13.3"	D = 4° 46' 28.7"	D = 44° 04' 25.2"
L = 316.06'	L = 455.07'	L = 176.94'
T = 158.14'	T = 230.30'	T = 105.24'
R = 3,500.00'	R = 1,200.00'	R = 130.00'
SE = EXIST.	SE = .03	SE = .04
	R.O. = 96'	R.O. = 100'

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 6

UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS DIRECTED BY THE ENGINEER

B

–RPB– POT 17+73.85= –Y1– POT 13+14.03 (25.16' LT.)

–RPB– PT 17+49.70

CLASS 'B' RIP RAP 0630 EST 3 TONS EST 10 SYGF

CLASS 'B' RIP RAP EST 2 TONS EST 7 SYGF

CAT–1

SPECIAL CUT 2–FT BASE DITCH SEE DETAIL 15

DO NOT DISTURB OVERHEAD SIGN/FOUNDATION

–RPB– PT Sta. 13+60.55

–RPB– PC Sta. 15+33.71

PIPE OUTLET CHANNEL CLASS I RIP RAP ON BANKS ONLY SEE DETAIL 6

2–FT BASE CHANNEL CHANGE w/COIR FIBER MATTING EST. 1275 SY SEE DETAIL 2

A

–L– POT Sta. 43+15.17= –Y1– POT Sta. 16+26.91

DO NOT DISTURB OVERHEAD SIGN/FOUNDATION

–L– PC Sta. 46+99.76

REMOVE EXISTING ISLAND
REMOVE AND REPLACE FULL DEPTH PAVEMENT

125' STORAGE LANE — 75' TAPER

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

MATCHLINE –L– STA. 50+00.00
SEE SHEET 7

NC HWY 58 VARIABLE PAVED ROADWAY

IMPERVIOUS DIKE END PLUGS AROUND OPERATION

GREU TL–3

CAT–1

550' TAPER TRANSITION

410' STORAGE LANE — 75' TAPER — 135' STORAGE LANE

2–FT BASE CHANNEL CHANGE w/COIR FIBER MATTING EST. 3200 SY SEE DETAIL 2

PIPE OUTLET CHANNEL CLASS I RIP RAP ON BANKS ONLY SEE DETAIL 9

DO NOT DISTURB OVERHEAD SIGN/FOUNDATION

C

–L– POT Sta. 43+00.00 LB= –L– POT Sta. 43+00.00 LA (18.46' LT.)

–L– POT Sta. 43+27.43= –Y2– POT Sta. 10+00.00

SPECIAL CUT 2–FT BASE DITCH SEE DETAIL 15

CLASS 'B' RIP RAP EST 5 TONS EST 14 SYGF

REPLACE EXISTING 2'–6" CURB & GUTTER

DO NOT DISTURB OVERHEAD SIGN/FOUNDATION

N 67°12'39.2" E

TIE TO EXISTING 2'–6" CURB & GUTTER –Y2– STA. 13+20.00

END MILLING/OVERLAY –Y2– STA. 13+20.00

CHANNEL CHANGE IN JURISDICTIONAL STREAMS MUST BE CONSTRUCTED IN THE DRY UTILIZING A PUMP AROUND OPERATION. DO NOT DISTURB ANY AREA WHICH CANNOT BE STABILIZED WITHIN 24 HOURS
FROM STA. 15+70 TO STA. 42+15 –L– LT
FROM STA. 15+25 TO STA. 56+00 –L– RT

PI	
Δ	(LT)
D = 3° 49' 11.0"	D = 38° 11' 49.9"
L = 360.55'	L = 215.99'
T = 181.15'	T = 131.55'
R = 1,500.00'	R = 150.00'
SE = .03	SE = .04
R.O. = 96'	R.O. = 100'

D

–RPD– PT Sta. 14+55.07

S 34° 48' 18.3" E

–RPD– PC Sta. 15+45.14

END 2'–6" C & G –Y2– STA. 12+25.98 LT.

–RPD– PT 17+22.08

–RPD– POT Sta. 17+38.68= –Y2– POT 13+13.44 (36.06' LT.)

DO NOT DISTURB OVERHEAD SIGN/FOUNDATION

TIE TO EXISTING 2'–6" CURB & GUTTER –Y2– STA. 13+14.28

END CONSTRUCTION –Y2– STA. 14+85.00

END 2'–6" C & G –L– STA. 45+10.00 RT.

2–FT BASE CHANNEL CHANGE w/COIR FIBER MATTING EST. 1020 SY SEE DETAIL 2

NOTE: DO NOT DISTURB OVERHEAD SIGNS

SEE SHEET 10 FOR –L– PROFILE
SEE SHEET 11 FOR –Y1– AND –Y2– PROFILE
SEE SHEET 12 FOR –RPB– AND –RPD– PROFILE

LURA M. FULCHER
EDWARD D. FULCHER
DB 954 PG 377
PB 4 PG 53

LURA M. FULCHER
EDWARD D. FULCHER
DB 1083 PG 2
PB 4 PG 53

MCDONALD'S REAL ESTATE COMPANY
DB 1341 PG 156

RBC BANK
DB 729 PG 402
PB 12 PG 35
PB 12 PG 38

HARDEE'S RESTAURANTS LLC.
DB 1443 PG 93

MANATEE INVESTMENTS LIMITED PARTNERSHIP
DB 1430 PG 401
MB 30 PG 768
PB 9 PG 94
TRACT 5 PARCEL A

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NC Lic. No. F-0270

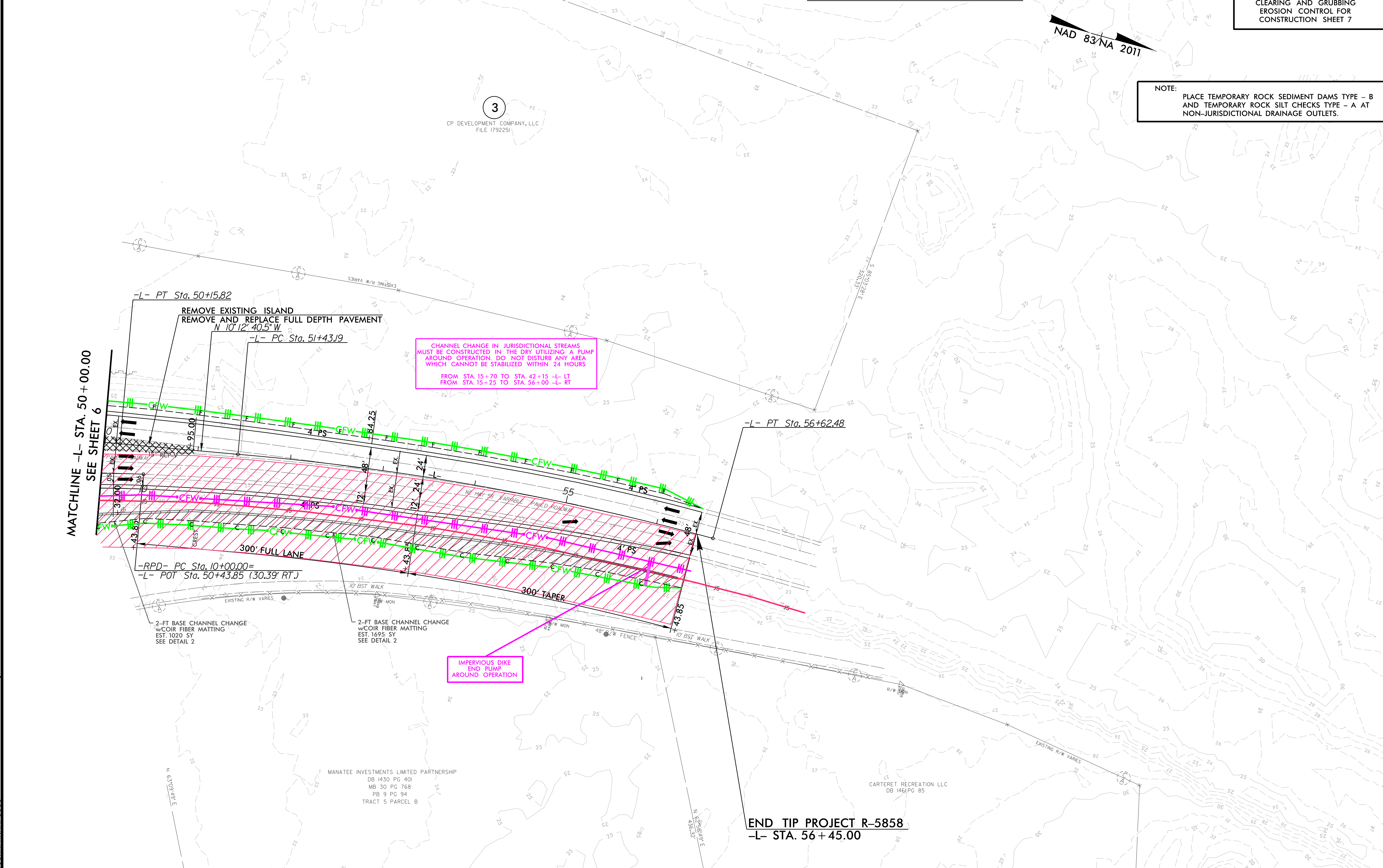
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

-L-
PI Sta 54+03.55
△ = 10° 21' 44.0" (RT)
D = 1° 59' 43.7"
L = 519.29'
T = 260.35'
R = 2,871.30'
SE = EXIST.

-RPD-	
PI Sta 12+30.30	PI Sta 16+50.39
△ = 21° 43' 40.1" (LT)	△ = 77° 59' 02.5" (LT)
D = 4° 46' 28.7"	D = 44° 04' 25.2"
L = 455.07'	L = 176.94'
T = 230.30'	T = 105.24'
R = 1,200.00'	R = 130.00'
SE = .03	SE = .04
R.O. = 96'	R.O. = 100'

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


NAD 83/NA 2011
3
CP DEVELOPMENT COMPANY, LLC
FILE 1792251
MATCHLINE -L- STA. 50+00.00
SEE SHEET 6
-L- PT Sta. 50+15.82
REMOVE EXISTING ISLAND
REMOVE AND REPLACE FULL DEPTH PAVEMENT
N 10° 12' 40.5" W
-L- PC Sta. 51+43.19
CHANNEL CHANGE IN JURISDICTIONAL STREAMS MUST BE CONSTRUCTED IN THE DRY UTILIZING A PUMP AROUND OPERATION. DO NOT DISTURB ANY AREA WHICH CANNOT BE STABILIZED WITHIN 24 HOURS
FROM STA. 15+70 TO STA. 42+15 -L- LT
FROM STA. 15+25 TO STA. 56+00 -L- RT
-L- PT Sta. 56+62.48
EXISTING R/W VARIES
CFW
4' PS
300' FULL LANE
300' TAPER
-RPD- PC Sta. 10+00.00=
-L- POT Sta. 50+43.85 (30.39' RT)
2-FT BASE CHANNEL CHANGE w/COIR FIBER MATTING
EST. 1020 SY
SEE DETAIL 2
2-FT BASE CHANNEL CHANGE w/COIR FIBER MATTING
EST. 1695 SY
SEE DETAIL 2
IMPERVIOUS DIKE
END PUMP
AROUND OPERATION
10' BST WALK
48" CHAIN FENCE
MANATEE INVESTMENTS LIMITED PARTNERSHIP
DB 1430 PG 401
MB 30 PG 768
PB 9 PG 94
TRACT 5 PARCEL B
CARTERET RECREATION LLC
DB 1461 PG 85
END TIP PROJECT R-5858
-L- STA. 56+45.00

SEE SHEET 10 FOR -L- PROFILE

REVISIONS

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-5858	EC-8/CONST.8

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910-523-5715
NC Lic. No. F-0270

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS DIRECTED BY THE ENGINEER

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

REVISIONS 8/17/99

EXISTING SIGNAL

NAD 83-NA 2011

NC 24 (CEDAR POINT BLVD.)

4 BRANCH BANKING AND TRUST COMPANY
DB 1018 PG 186
PB 30 PG 329 2A

3 CP DEVELOPMENT COMPANY, LLC
FILE 179225

2 GLOBIL, LLC
DB 1752 PG 58
PB 33 PG 444
PB 33 PG 670

1 BOGUE SOUND RV O
DB 1767 PG 1
PB 33 PG 44

50' ACCESS ESMT
PB 30 PG 329

N 63°08'27" E
306.52'

-Y1- POT Sta. 6+88.70

BEGIN CONSTRUCTION
-Y1- STA. 8+25.00

S 25°57'23" E
250.00'

N 25°49'18" W
253.18'

N 63°13'04.6" E

MATCHLINE -Y1- STA. 11+00.00
SEE SHEET 6

+10.93 -Y1-
67.00' RT.

+31.07 -Y1-

+33.00 -Y1-
51.52' RT.

PROPOSED 5'
CONCRETE
SIDEWALK

SPECIAL LATERAL 'V' DITCH
SEE DETAIL 16

BEGIN PROPOSED 2'-6" C & G
-Y1- STA. 9+01.08 RT.

EXISTING DRIVEWAY ENTRANCE AND EXISTING 18" PIPE TO BE REMOVED BY OTHERS.

WOODEN PICKET FENCE TO BE REPLACED UNDER PROJECT CONTRACT

BOGUE SOUND RV RESORT DRIVE, 24" RCP AND SWALE DITCHES TO BE CONSTRUCTED BY OTHERS.

REMOVE 12 LF OF 24" RCP
TO REMOVE DI

SEE SHEET 11 FOR -Y1- PROFILE
SEE SHEET 13 FOR -DRV- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
R-5858	EC-9/CONST.4

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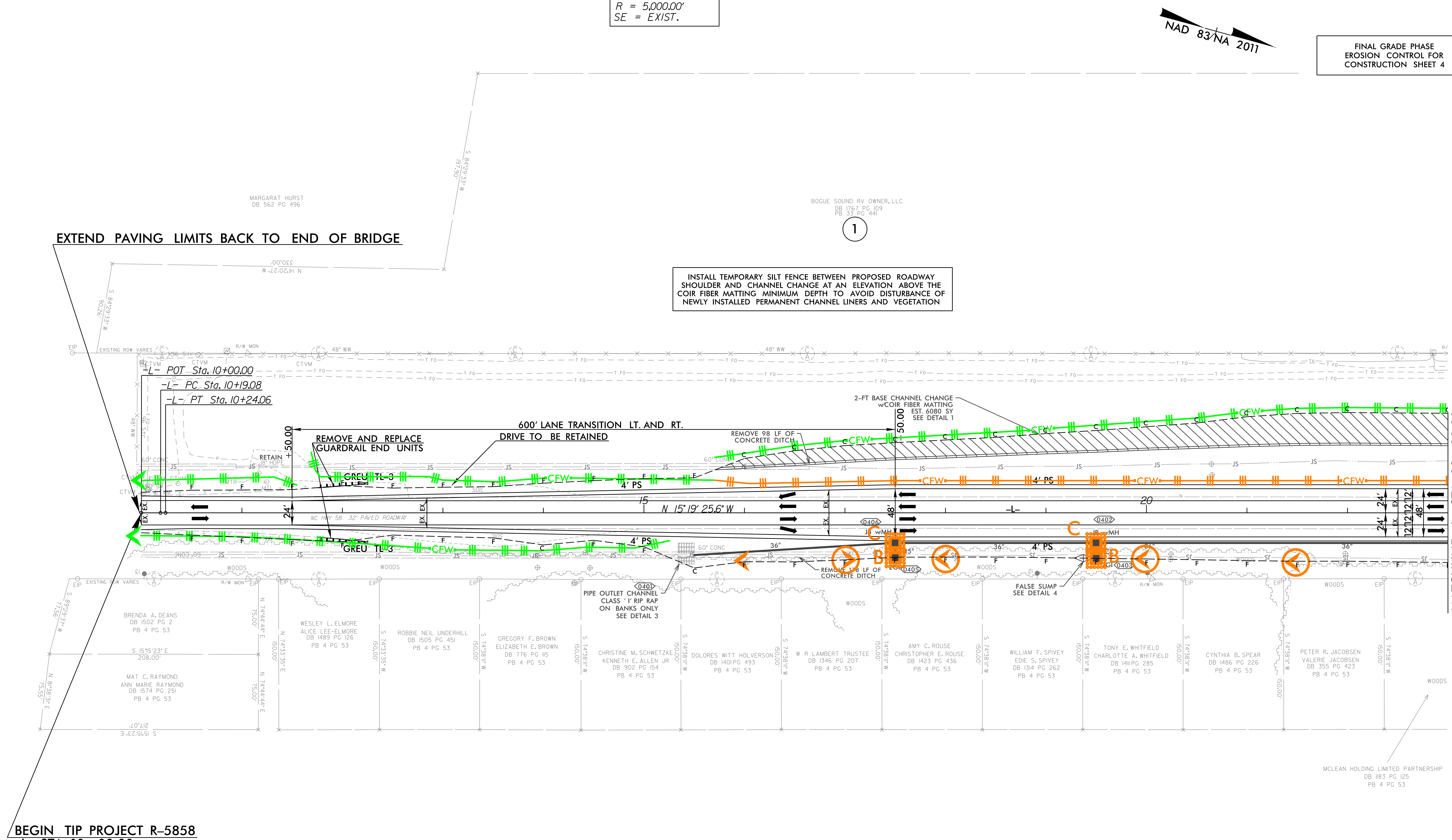
FINAL GRADE PHASE
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

-L-
PI Sta 10+21.57
Δ = 0° 03' 25.3" (LT)
D = 1° 08' 45.3"
L = 4.98'
T = 2.49'
R = 5,000.00'
SE = EXIST.

INSTALL TEMPORARY SILT FENCE BETWEEN PROPOSED ROADWAY SHOULDER AND CHANNEL CHANGE AT AN ELEVATION ABOVE THE COIR FIBER MATTING MINIMUM DEPTH TO AVOID DISTURBANCE OF NEWLY INSTALLED PERMANENT CHANNEL LINERS AND VEGETATION



NAD 83/NA 2011
EXTEND PAVING LIMITS BACK TO END OF BRIDGE
MARGARAT HURST
DB 562 PG 496
BOGUE SOUND RV OWNER, LLC
DB 1767 PG 109
PB 33 PG 441
-L- POT Sta. 10+00.00
-L- PC Sta. 10+19.08
-L- PT Sta. 10+24.06
600' LANE TRANSITION LT. AND RT.
REMOVE AND REPLACE GUARDRAIL END UNITS
DRIVE TO BE RETAINED
REMOVE 98 LF OF CONCRETE DITCH
2-FT BASE CHANNEL CHANGE w/COIR FIBER MATTING EST. 6080 SY SEE DETAIL 1
N 15° 19' 25.6" W
NC HWY 58 32' PAVED ROADWAY
PIPE OUTLET CHANNEL CLASS 'I' RIP RAP ON BANKS ONLY SEE DETAIL 3
FALSE SUMP SEE DETAIL 4
MATCHLINE -L- STA. 23+00.00 SEE SHEET 5
BRENDA A. DEANS
DB 1502 PG 2
PB 4 PG 53
MAT C. RAYMOND
ANN MARIE RAYMOND
DB 1574 PG 251
PB 4 PG 53
WESLEY L. ELMORE
ALICE LEE-ELMORE
DB 1489 PG 126
PB 4 PG 53
ROBBIE NEIL UNDERHILL
DB 1505 PG 451
PB 4 PG 53
GREGORY F. BROWN
ELIZABETH E. BROWN
DB 776 PG 115
PB 4 PG 53
CHRISTINE M. SCHWETZKE
KENNETH E. ALLEN JR
DB 902 PG 154
PB 4 PG 53
DOLORES WITT HOLVERSON
DB 1401 PG 493
PB 4 PG 53
W R LAMBERT TRUSTEE
DB 1346 PG 207
PB 4 PG 53
AMY C. ROUSE
CHRISTOPHER C. ROUSE
DB 1423 PG 436
PB 4 PG 53
WILLIAM F. SPIVEY
EDIE S. SPIVEY
DB 1314 PG 262
PB 4 PG 53
TONY E. WHITFIELD
CHARLOTTE A. WHITFIELD
DB 1411 PG 285
PB 4 PG 53
CYNTHIA B. SPEAR
DB 1486 PG 226
PB 4 PG 53
PETER R. JACOBSEN
VALERIE JACOBSEN
DB 355 PG 423
PB 4 PG 53
MCLEAN HOLDING LIMITED PARTNERSHIP
DB 1183 PG 125
PB 4 PG 53

BEGIN TIP PROJECT R-5858
-L- STA. 10+00.00

REVISIONS

8/17/99

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

8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-5858	EC-10/CONST.5

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-RPB-

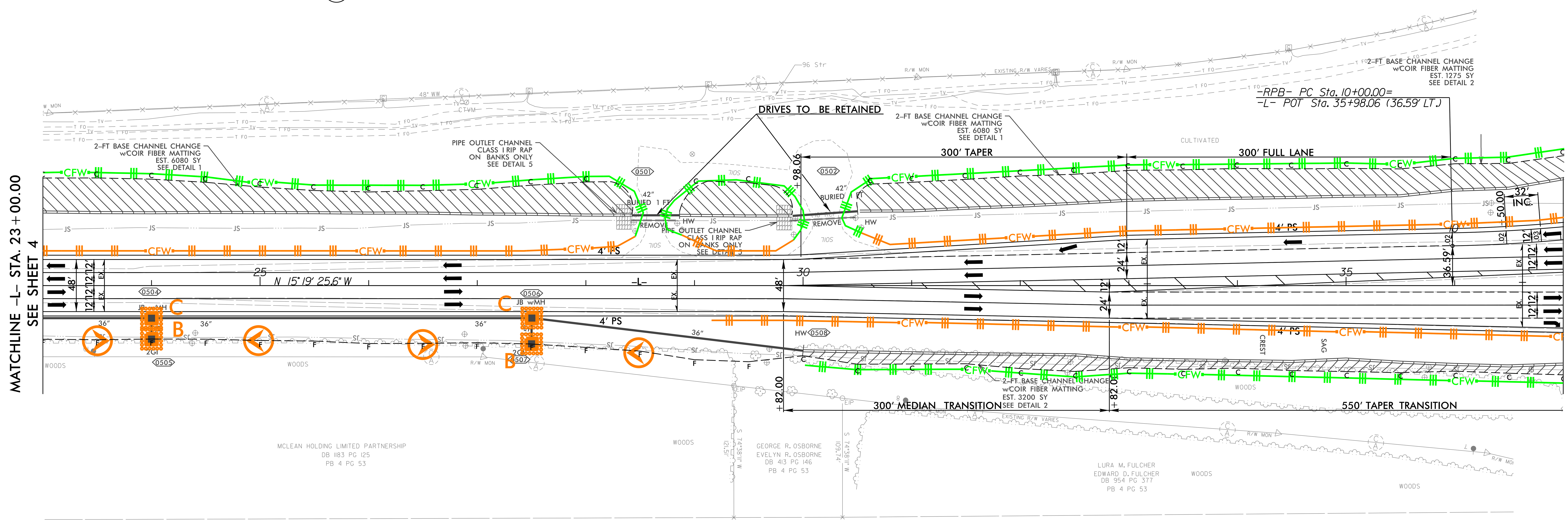
PI Sta 11+81.15	PI Sta 16+65.26
△ = 13° 46′ 19.7″ (LT)	△ = 82° 30′ 02.8″ (LT)
D = 3° 49′ 11.0″	D = 38° 11′ 49.9″
L = 360.55′	L = 215.99′
T = 181.15′	T = 131.55′
R = 1,500.00′	R = 150.00′
SE = .03	SE = .02
R.O. = 96′	R.O. = 50′

NAD 83/NA 2011

FINAL GRADE PHASE
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS DIRECTED BY THE ENGINEER

INSTALL TEMPORARY SILT FENCE BETWEEN PROPOSED ROADWAY SHOULDER AND CHANNEL CHANGE AT AN ELEVATION ABOVE THE COIR FIBER MATTING MINIMUM DEPTH TO AVOID DISTURBANCE OF NEWLY INSTALLED PERMANENT CHANNEL LINERS AND VEGETATION



BOGUE SOUND RV OWNER, LLC
DB 1767 PG 109
PB 33 PG 441
1
2-FT BASE CHANNEL CHANGE w/COIR FIBER MATTING EST. 6080 SY SEE DETAIL 1
PIPE OUTLET CHANNEL CLASS I RIP RAP ON BANKS ONLY SEE DETAIL 5
DRIVES TO BE RETAINED
2-FT BASE CHANNEL CHANGE w/COIR FIBER MATTING EST. 6080 SY SEE DETAIL 1
2-FT BASE CHANNEL CHANGE w/COIR FIBER MATTING EST. 1275 SY SEE DETAIL 2
-RPB- PC Sta. 10+00.00=
-L- POT Sta. 35+98.06 (36.59′ LT.)
300′ TAPER
300′ FULL LANE
CULTIVATED
MATCHLINE -L- STA. 23+00.00 SEE SHEET 4
MATCHLINE -L- STA. 37+00.00 SEE SHEET 6
N 15° 19′ 25.6″ W
-L-
25
30
35
4′ PS
CFW
JB w/MH
C
B
2GI
WOODS
2-FT BASE CHANNEL CHANGE w/COIR FIBER MATTING EST. 3200 SY SEE DETAIL 2
300′ MEDIAN TRANSITION
550′ TAPER TRANSITION
MCLEAN HOLDING LIMITED PARTNERSHIP
DB 1183 PG 125
PB 4 PG 53
GEORGE R. OSBORNE
EVELYN R. OSBORNE
DB 413 PG 146
PB 4 PG 53
LURA M. FULCHER
EDWARD D. FULCHER
DB 954 PG 377
PB 4 PG 53

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

SEE SHEET 9 FOR -L- PROFILE

PROJECT REFERENCE NO.
R-5858
SHEET NO.
EC-11/CONST.6
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Wilmington, NC 28403
910-523-5715
NC Lic. No. F-0270
SIGNAL UPGRADE
FINAL GRADE PHASE
EROSION CONTROL FOR
CONSTRUCTION SHEET 6
UTILIZE FABRIC INSERT INLET PROTECTION
IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C
AS DIRECTED BY THE ENGINEER
NAD 83/NA 2011
NC 24
CEDAR POINT
BLVD.
29,225
41,700
7,700
10,000
3,000
4,100
NC 58
17,600
25,100
8,700
12,400
NC 58
7,350
12,900
3,150
6,100
29,025
46,600
NC 24
WB MCLEAN
DRIVE
2020 ADT
2045 ADT
-L-
PI Sta 48+57.90
Δ = 5° 10' 26.5" (RT)
D = 1° 38' 13.3"
L = 316.06'
T = 158.14'
R = 3,500.00'
SE = EXIST.
-RPD-
PI Sta 12+30.30
Δ = 21° 43' 40.1" (LT)
D = 4° 46' 28.7"
L = 455.07'
T = 230.30'
R = 1,200.00'
SE = .03
R.O. = 96'
PI Sta 16+50.39
Δ = 77° 59' 02.5" (LT)
D = 44° 04' 25.2"
L = 176.94'
T = 105.24'
R = 130.00'
SE = .04
R.O. = 100'
-RPB-
PI Sta 11+81.15
Δ = 13° 46' 19.7" (LT)
D = 3° 49' 11.0"
L = 360.55'
T = 181.15'
R = 1,500.00'
SE = .03
R.O. = 96'
PI Sta 16+65.26
Δ = 82° 30' 02.8" (LT)
D = 38° 11' 49.9"
L = 215.99'
T = 131.55'
R = 150.00'
SE = .04
R.O. = 100'
MATCHLINE -Y1- STA. 11+00.00
SEE SHEET 8
MATCHLINE -L- STA. 37+00.00
SEE SHEET 5
MATCHLINE -L- STA. 50+00.00
SEE SHEET 7
WOODEN PICKET FENCE TO BE REPLACED
UNDER PROJECT CONTRACT
INSTALL TEMPORARY SILT FENCE BETWEEN PROPOSED ROADWAY
SHOULDER AND CHANNEL CHANGE AT AN ELEVATION ABOVE THE
COIR FIBER MATTING MINIMUM DEPTH TO AVOID DISTURBANCE OF
NEWLY INSTALLED PERMANENT CHANNEL LINERS AND VEGETATION
GREU TL-3
END PROPOSED 5' CONC. SIDEWALK
-Y1- STA. 11+87.00
MAINTAIN EXISTING
2'-6" CURB & GUTTER
TIE TO EXISTING 2'-6" CURB & GUTTER
-Y1- STA. 12+95.00
DO NOT DISTURB OVERHEAD
SIGN/FOUNDATION
REPLACE EXISTING
2'-6" CURB & GUTTER
BEGIN 2'-6" C & G
-Y1- STA. 14+12.15 RT.
-RPB- POT 17+73.85=
-Y1- POT 13+14.03 (25.16' LT.)
-RPB- PT 17+49.70
-RPB- PC Sta. 15+33.71
-RPB- PT Sta. 13+60.55
-L- POT Sta. 43+15.17=
-Y1- POT Sta. 16+26.91
DO NOT DISTURB OVERHEAD SIGN/FOUNDATION
-L- PC Sta. 46+99.76
REMOVE EXISTING ISLAND
REMOVE AND REPLACE
FULL DEPTH PAVEMENT
125' STORAGE LANE
75' TAPER
BEGIN 2'-6" C & G
-L- STA. 41+60.00 LT.
550' TAPER TRANSITION
410' STORAGE LANE
75' TAPER
135' STORAGE LANE
DO NOT DISTURB OVERHEAD SIGN/FOUNDATION
-L- POT Sta. 43+00.00 LB=
-L- POT Sta. 43+00.00 LA (18.46' LT.)
-L- POT Sta. 43+27.43=
-Y2- POT Sta. 10+00.00
END 2'-6" C & G
-L- STA. 45+10.00 RT.
-RPD- PT Sta. 14+55.07
S 34° 48' 18.3" E
-RPD- PC Sta. 15+45.14
END 2'-6" C & G
-Y2- STA. 12+25.98 LT.
-RPD- PT 17+22.08
-RPD- POT Sta. 17+38.68=
-Y2- POT 13+13.44 (36.06' LT.)
DO NOT DISTURB OVERHEAD SIGN/FOUNDATION
TIE TO EXISTING 2'-6" CURB & GUTTER
-Y2- STA. 13+14.28
REPLACE EXISTING
2'-6" CURB & GUTTER
DO NOT DISTURB OVERHEAD SIGN/FOUNDATION
TIE TO EXISTING 2'-6" CURB & GUTTER
-Y2- STA. 13+20.00
END CONSTRUCTION
-Y2- STA. 14+85.00
GREU TL-3
END MILLING/OVERLAY
-Y2- STA. 13+20.00
N 67° 12' 39.2" E
N 63° 12' 39.2" E
N 15° 23' 06.9" W
N 15° 19' 25.6" W
N 30° 16' 52.6" W
2-FT BASE CHANNEL CHANGE
w/COIR FIBER MATTING
EST. 1275 SY
SEE DETAIL 2
2-FT BASE CHANNEL CHANGE
w/COIR FIBER MATTING
EST. 3200 SY
SEE DETAIL 2
2-FT BASE CHANNEL CHANGE
w/COIR FIBER MATTING
EST. 1020 SY
SEE DETAIL 2
A
B
C
D
NOTE: DO NOT DISTURB OVERHEAD SIGNS
SEE SHEET 10 FOR -L- PROFILE
SEE SHEET 11 FOR -Y1- AND -Y2- PROFILE
SEE SHEET 12 FOR -RPB- AND -RPD- PROFILE
REVISIONS
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-5858	EC-12/CONST.7

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910-523-5715
NC Lic. No. F-0270

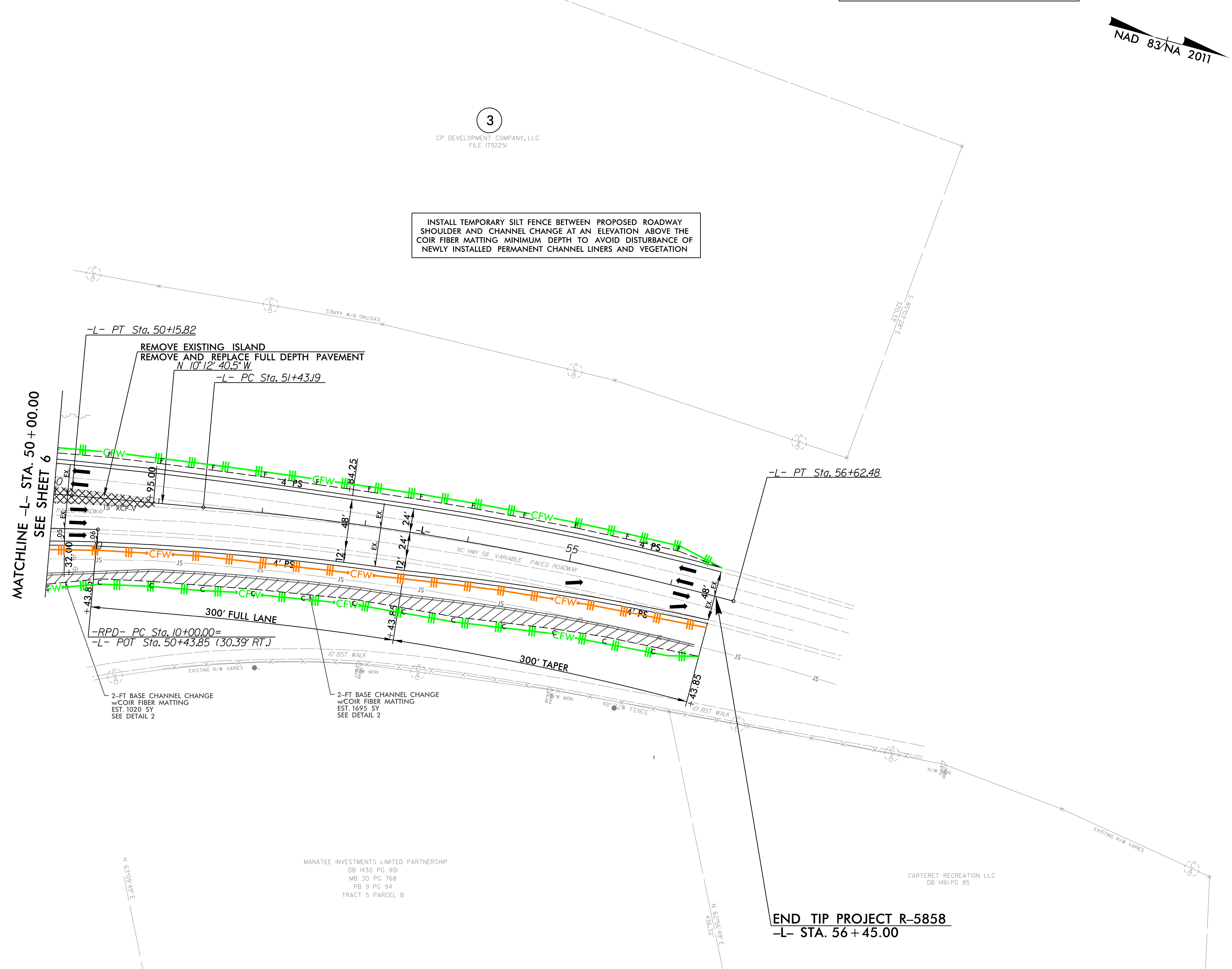
-L-
PI Sta 54+03.55
△ = 10° 21' 44.0" (RT)
D = 1° 59' 43.7"
L = 519.29'
T = 260.35'
R = 2,871.30'
SE = EXIST.

-RPD-	
PI Sta 12+30.30	PI Sta 16+50.39
△ = 21° 43' 40.1" (LT)	△ = 77° 59' 02.5" (LT)
D = 4° 46' 28.7"	D = 44° 04' 25.2"
L = 455.07'	L = 176.94'
T = 230.30'	T = 105.24'
R = 1,200.00'	R = 130.00'
SE = .03	SE = .04
R.O. = 96'	R.O. = 100'

FINAL GRADE PHASE
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS DIRECTED BY THE ENGINEER

INSTALL TEMPORARY SILT FENCE BETWEEN PROPOSED ROADWAY SHOULDER AND CHANNEL CHANGE AT AN ELEVATION ABOVE THE COIR FIBER MATTING MINIMUM DEPTH TO AVOID DISTURBANCE OF NEWLY INSTALLED PERMANENT CHANNEL LINERS AND VEGETATION



REVISIONS

8/17/99

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

SEE SHEET 10 FOR -L- PROFILE

8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-5858	EC-13/CONST.8

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Wilmington, NC 28403
910-523-5715
NC Lic. No. F-0270

☆ EXISTING SIGNAL

FINAL GRADE PHASE
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

UTILIZE FABRIC INSERT INLET PROTECTION
IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C
AS DIRECTED BY THE ENGINEER

SEE SHEET 11 FOR -Y1- PROFILE
SEE SHEET 13 FOR -DRV- PROFILE

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