TIP PROJECT: B-4863

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4863	EC-1	15

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
40212.1.3	BRSTP-1335(3)	PE
40212.2.2	BRSTP-1335(4)	R/W, UTL
40212.3.1	BRSTP-1335(4)	CONST.

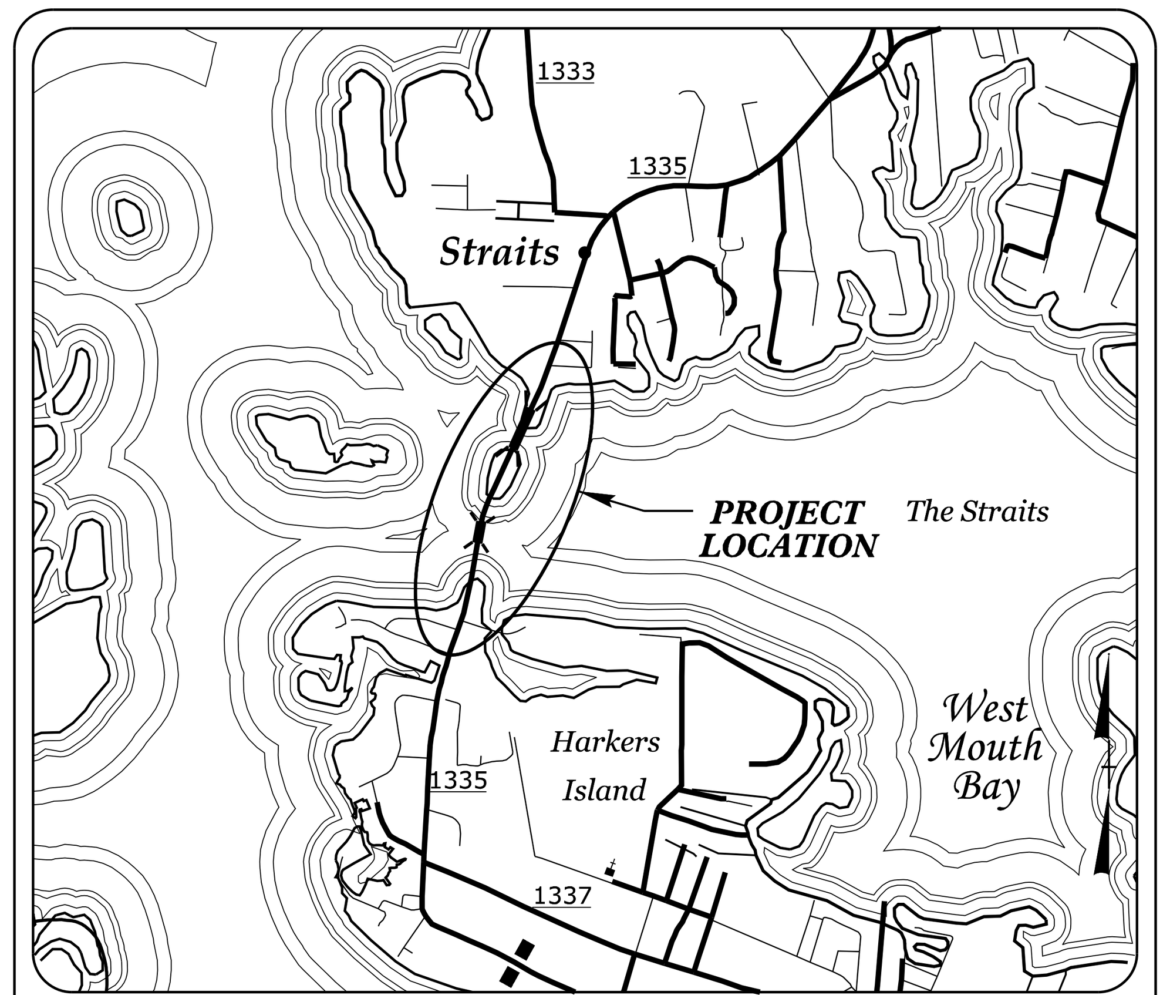
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

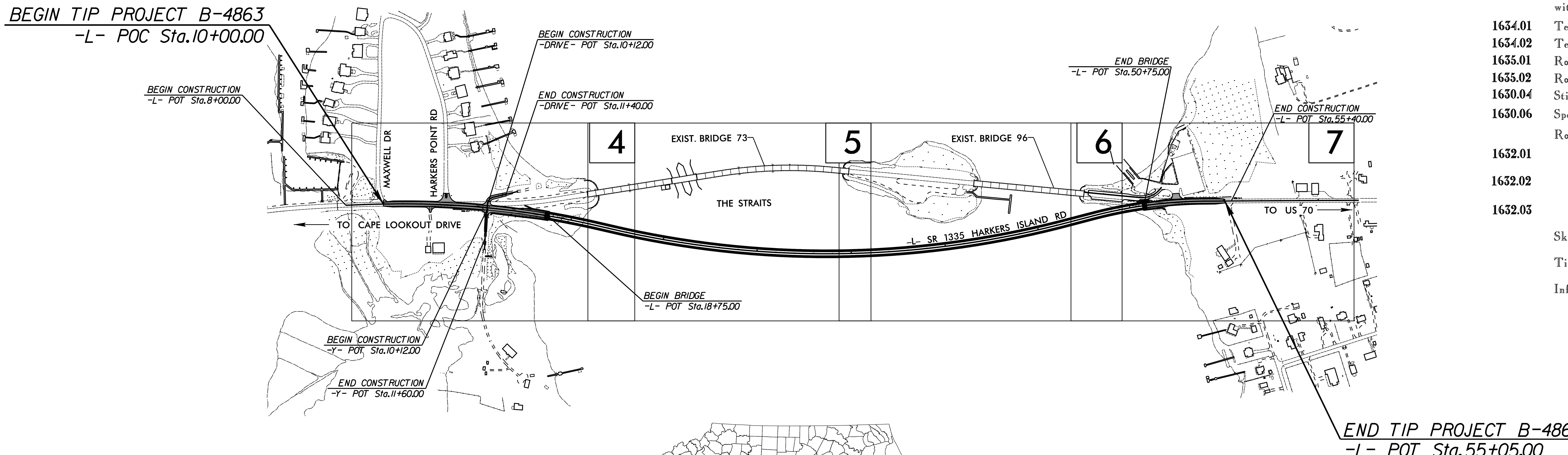
CARTERET COUNTY

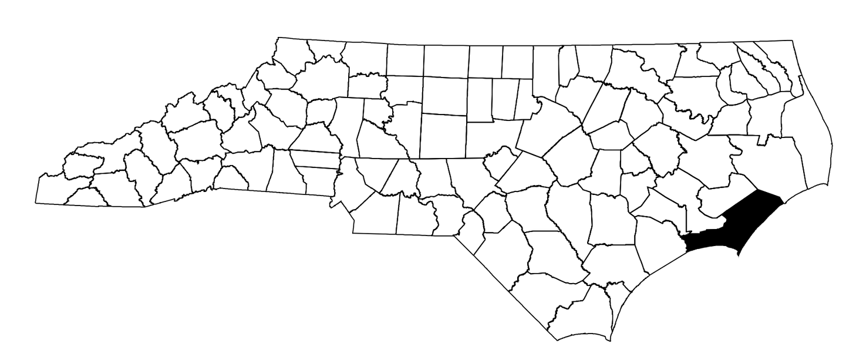
LOCATION: REPLACEMENT OF BRIDGE NOS. 73 AND 96 CARRYING SR 1335 (HARKERS ISLAND RD) OVER THE STRAITS

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



VICINITY MAP
NOT TO SCALE





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	
	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.

HIGH QUALITY WATER(S) EXIST ON THIS PROJECT

High Quality Water Zone(s) Exist
From Sta. 10+00
to Sta. 55+05
Refer To E. C. Special Provisions for Special Considerations.

ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT

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

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

GRAPHIC SCALE

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.

RS&H

Prepared In the Office of:
RS&H
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
(919) 926-4100
NC FIRM LICENSE No. F-0493

Designed by:

COLE BENJAMIN, PE — *3977*
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
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

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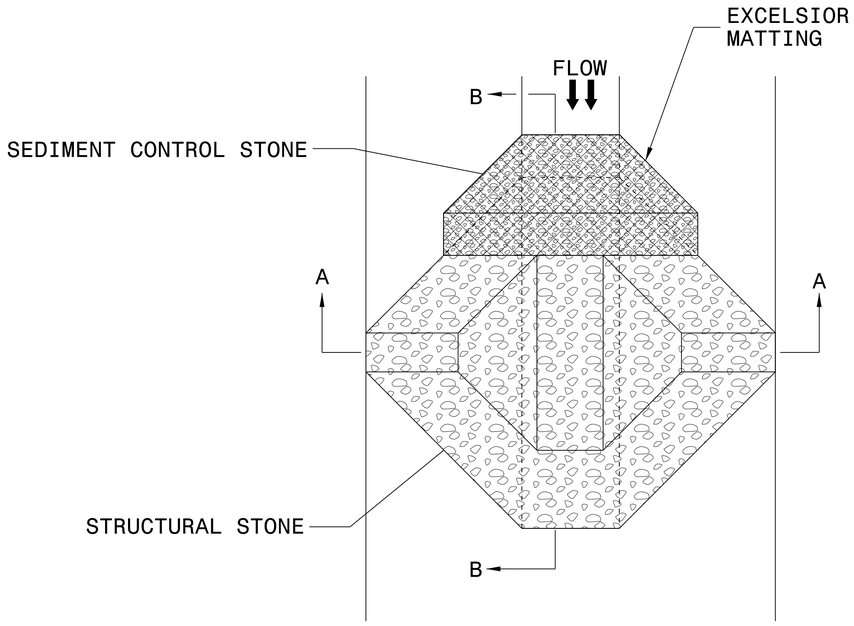
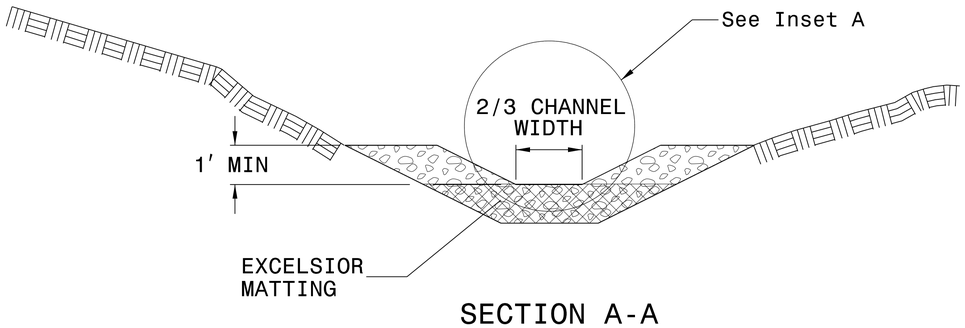
PROJECT REFERENCE NO.	SHEET NO.
B-4863	EC-2

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



PLAN



SECTION A-A

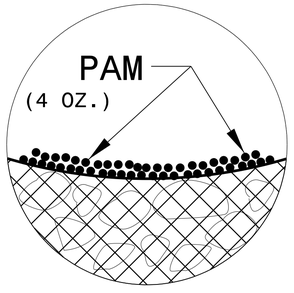
NOTES:

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

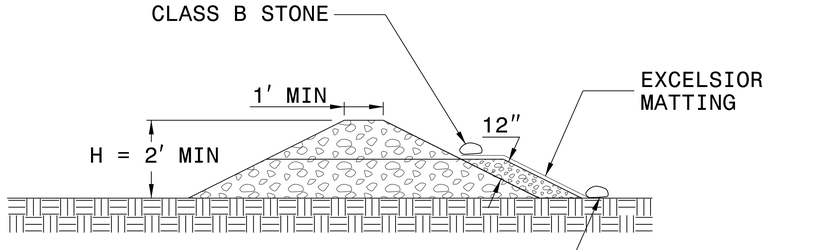
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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

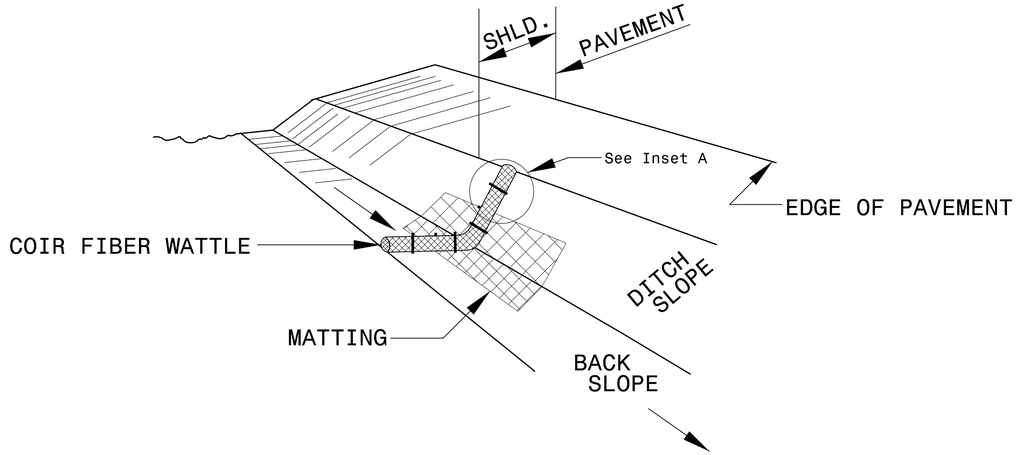


SECTION B-B

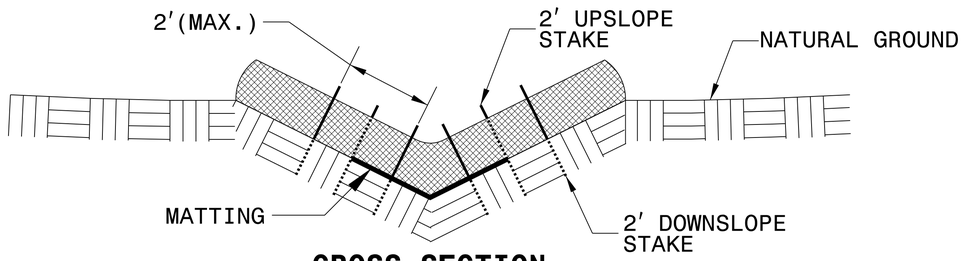
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
B-4863	EC-2A

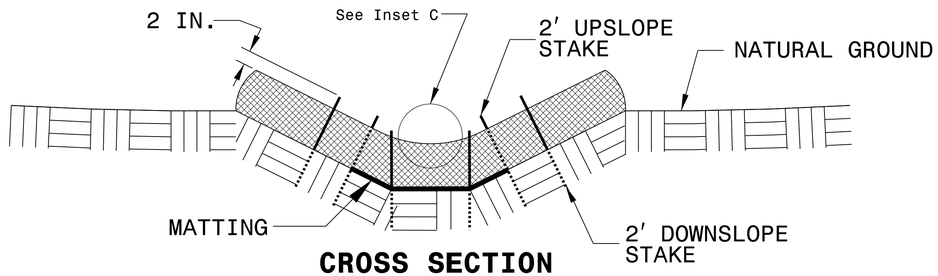
COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



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.

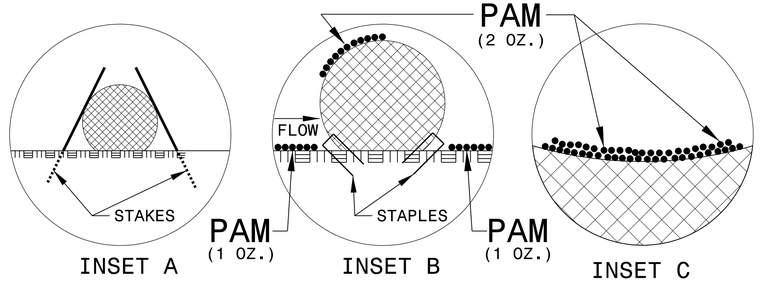
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

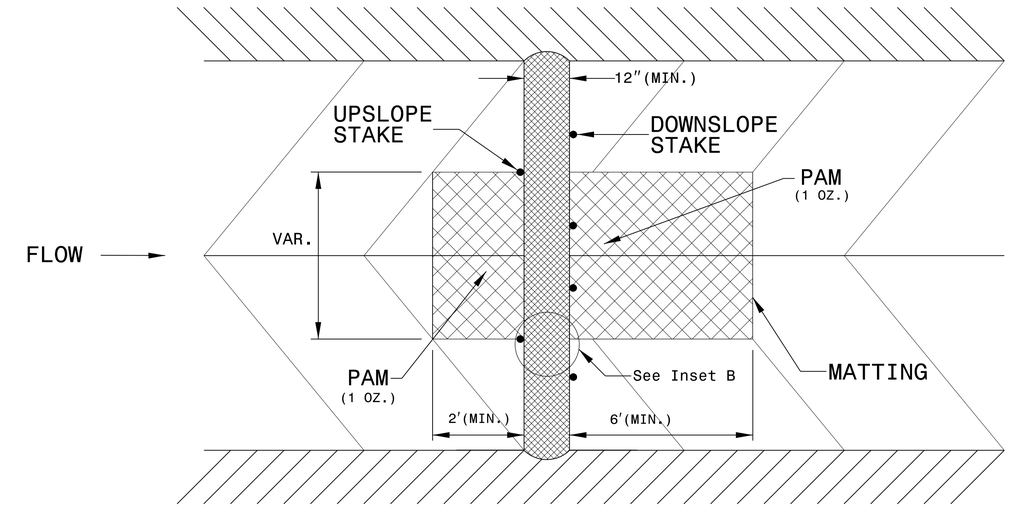
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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.

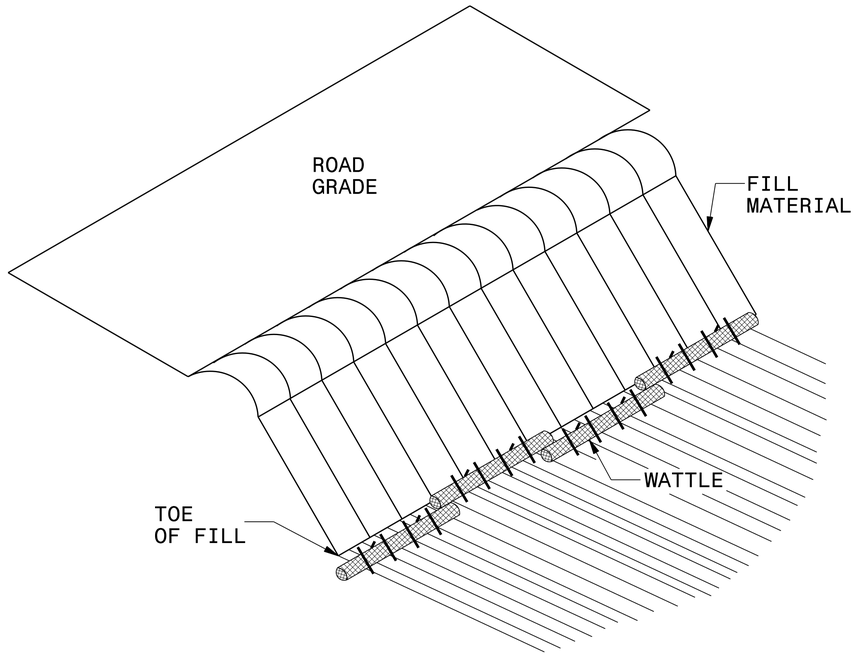




TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
B-4863	EC-2B

COIR FIBER WATTLE BARRIER DETAIL



ISOMETRIC VIEW

NOTES:

USE MINIMUM 18 IN. NOMINAL DIAMETER COIR FIBER (COCONUT) WATTLE AND LENGTH OF 10 FT.

EXCAVATE A 2 TO 3 INCH TRENCH FOR WATTLE TO BE PLACED.

DO NOT PLACE WATTLES ON TOE OF SLOPE.

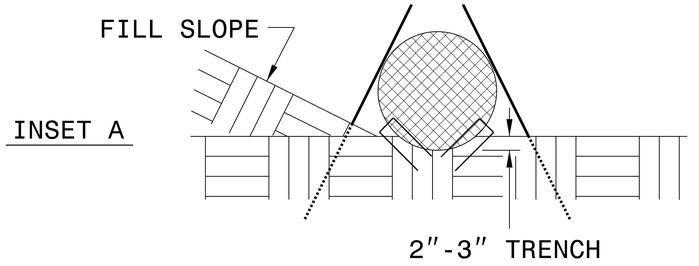
USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

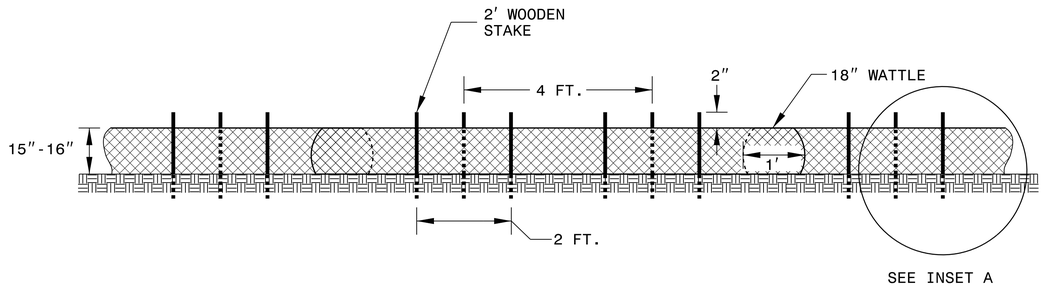
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.

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

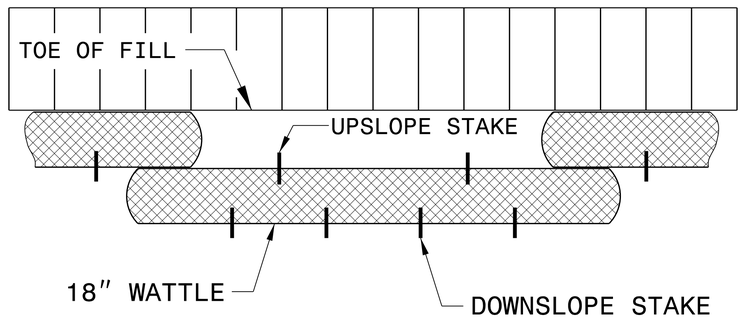
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

FOR BREAKS ALONG LARGE SLOPES, USE MAXIMUM SPACING OF 25 FT.





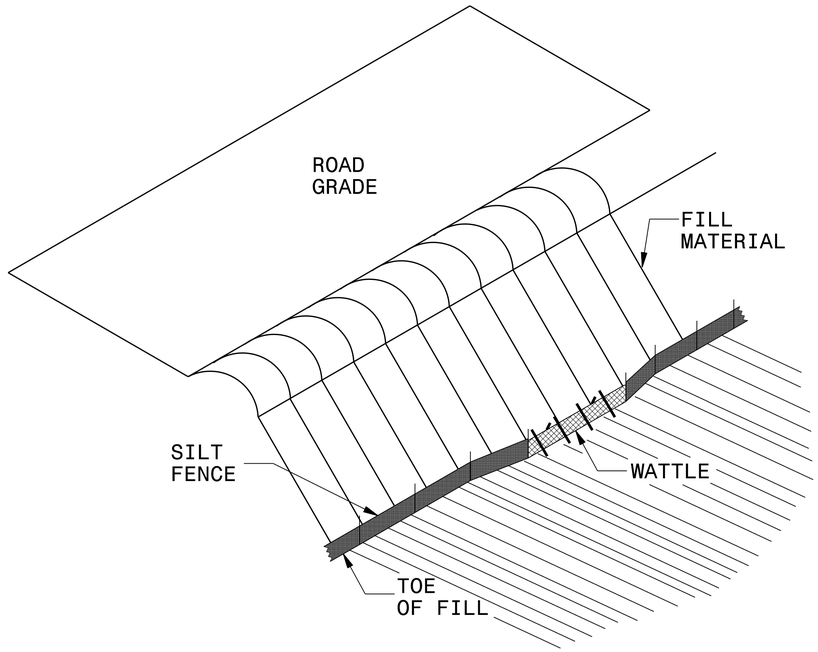
FRONT VIEW



TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
B-4863	EC-2C

SILT FENCE COIR FIBER WATTLE BREAK DETAIL



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.

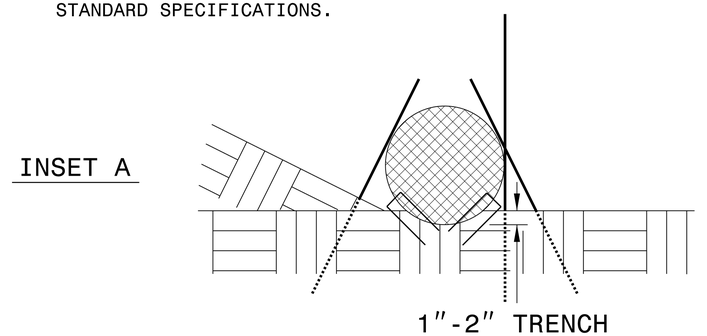
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.

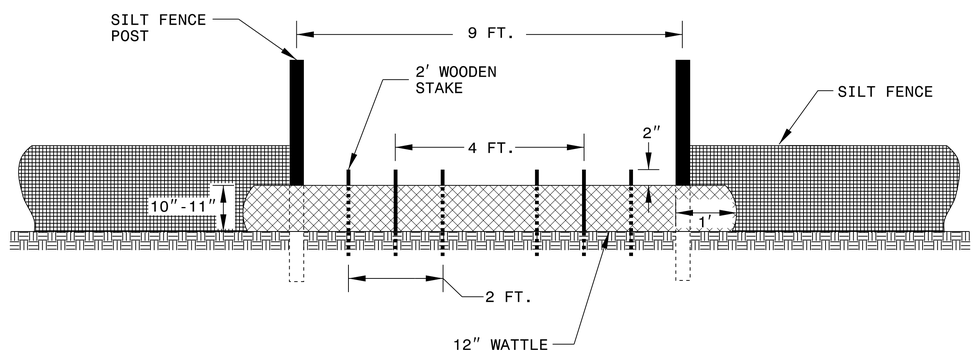
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

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

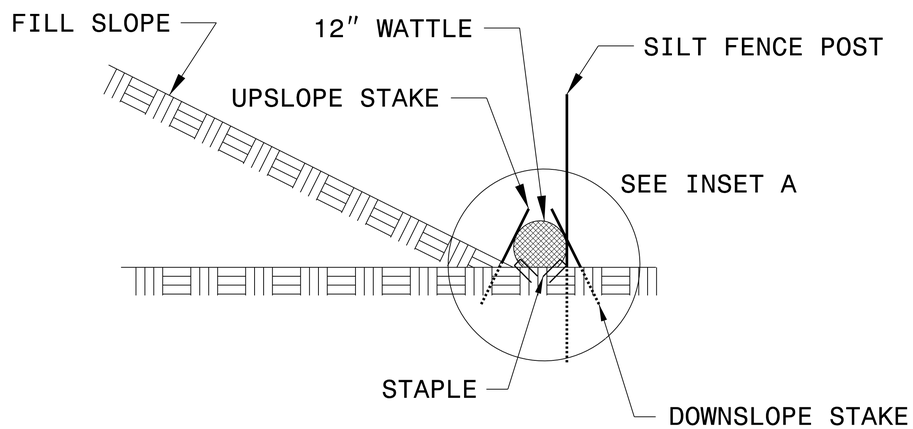
WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.

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





VIEW FROM SLOPE



SIDE VIEW

PROJECT REFERENCE NO.	SHEET NO.
B-4863	EC-3

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

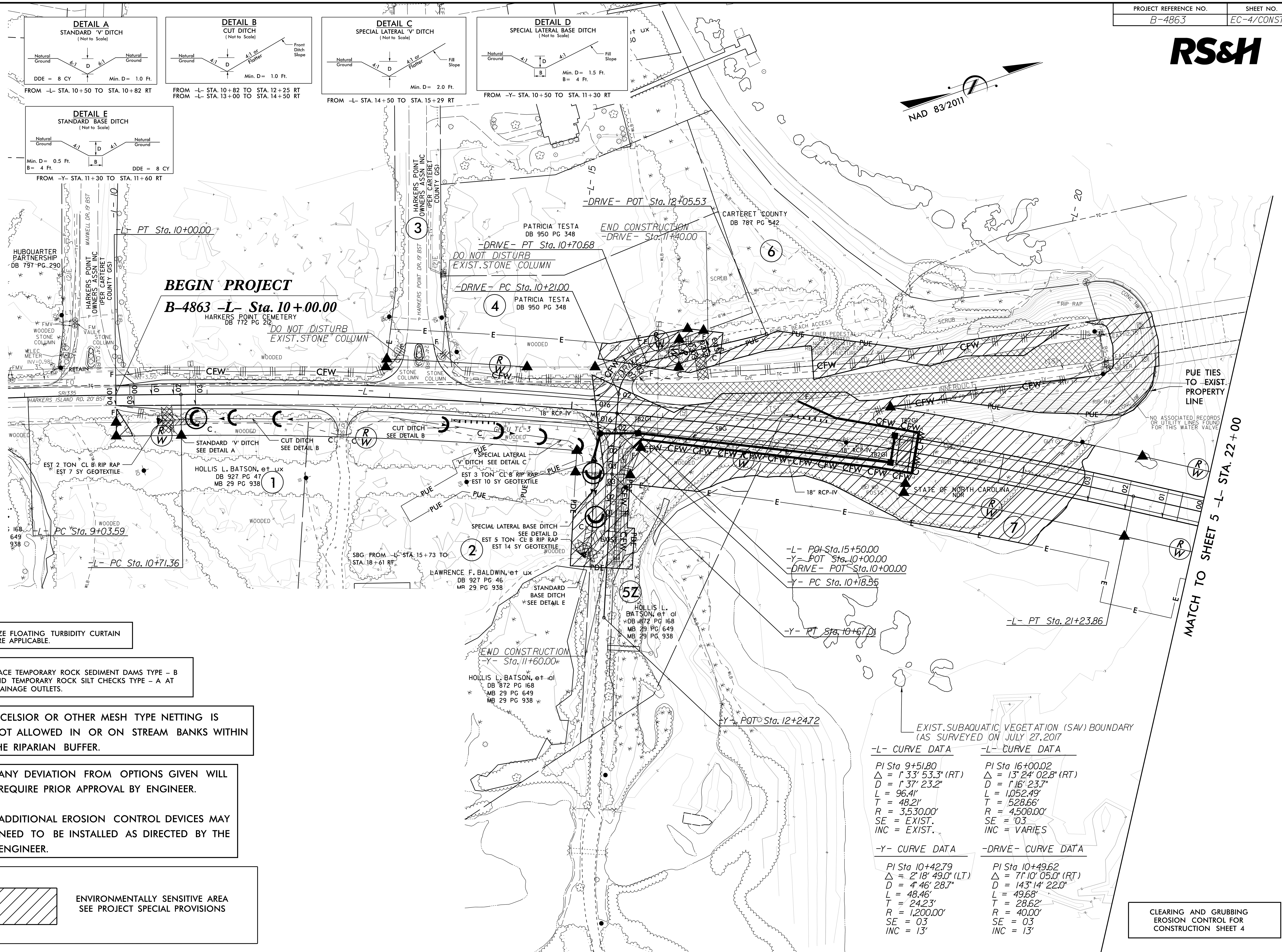
SOIL STABILIZATION TIMEFRAMES

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.

RS&H

REVISIONS

8/17/99


DETAIL A
STANDARD 'V' DITCH
(Not to Scale)
FROM -L- STA. 10+50 TO STA. 10+82 RT
DETAIL B
CUT DITCH
(Not to Scale)
FROM -L- STA. 10+82 TO STA. 12+25 RT
FROM -L- STA. 13+00 TO STA. 14+50 RT
DETAIL C
SPECIAL LATERAL 'V' DITCH
(Not to Scale)
FROM -L- STA. 14+50 TO STA. 15+29 RT
DETAIL D
SPECIAL LATERAL BASE DITCH
(Not to Scale)
FROM -Y- STA. 10+50 TO STA. 11+30 RT
DETAIL E
STANDARD BASE DITCH
(Not to Scale)
FROM -Y- STA. 11+30 TO STA. 11+60 RT
NAD 83/2011
BEGIN PROJECT
B-4863 -L- Sta. 10+00.00
HARKERS POINT CEMETERY
DB 772 PG 212
DO NOT DISTURB
EXIST. STONE COLUMN
HUBQUARTER PARTNERSHIP
DB 797 PG 290
HARKERS POINT OWNERS ASSN INC (PER CARTERET COUNTY GIS)
PATRICIA TESTA
DB 950 PG 348
CARTERET COUNTY
DB 787 PG 542
-DRIVE- POT Sta. 12+05.53
END CONSTRUCTION
-DRIVE- Sta. 11+40.00
-DRIVE- PT Sta. 10+70.68
-DRIVE- PC Sta. 10+21.00
-L- PT Sta. 10+00.00
HOLLIS L. BATSON, et ux
DB 927 PG 47
MB 29 PG 938
STANDARD 'V' DITCH SEE DETAIL A
CUT DITCH SEE DETAIL B
SPECIAL LATERAL 'V' DITCH SEE DETAIL C
EST 2 TON CL B RIP RAP
EST 7 SY GEOTEXTILE
EST 3 TON CL B RIP RAP
EST 10 SY GEOTEXTILE
SPECIAL LATERAL BASE DITCH SEE DETAIL D
EST 5 TON CL B RIP RAP
EST 14 SY GEOTEXTILE
SBG FROM -L- STA. 15+73 TO STA. 18+61 RT
LAWRENCE F. BALDWIN, et ux
DB 927 PG 46
MB 29 PG 938
STANDARD BASE DITCH SEE DETAIL E
HOLLIS L. BATSON, et al
DB 872 PG 168
MB 29 PG 649
MB 29 PG 938
END CONSTRUCTION
-Y- Sta. 11+60.00
-L- PC Sta. 9+03.59
-L- PC Sta. 10+71.36
-L- POT Sta. 15+50.00
-Y- POT Sta. 10+00.00
-DRIVE- POT Sta. 10+00.00
-Y- PC Sta. 10+18.55
-Y- PT Sta. 10+67.01
-Y- POT Sta. 12+24.72
STATE OF NORTH CAROLINA
NDR
PUE TIES TO EXIST. PROPERTY LINE
NO ASSOCIATED RECORDS OR UTILITY LINES FOUND FOR THIS WATER VALVE
-L- PT Sta. 21+23.86
MATCH TO SHEET 5 -L- STA. 22+00
EXIST. SUBAQUATIC VEGETATION (SAV) BOUNDARY (AS SURVEYED ON JULY 27, 2017)

NOTE: UTILIZE FLOATING TURBIDITY CURTAIN WHERE APPLICABLE.

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

NOTE: EXCELSIOR OR OTHER MESH TYPE NETTING IS NOT ALLOWED IN OR ON STREAM BANKS WITHIN THE RIPARIAN BUFFER.

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

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

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

-L- CURVE DATA
PI Sta 9+51.80
Δ = 1° 33' 53.3" (RT)
D = 1° 37' 23.2"
L = 96.41'
T = 48.21'
R = 3,530.00'
SE = EXIST.
INC = EXIST.

-L- CURVE DATA
PI Sta 16+00.02
Δ = 13° 24' 02.8" (RT)
D = 1° 16' 23.7"
L = 1,052.49'
T = 528.66'
R = 4,500.00'
SE = .03
INC = VARIES

-Y- CURVE DATA
PI Sta 10+42.79
Δ = 2° 18' 49.0" (LT)
D = 4° 46' 28.7"
L = 48.46'
T = 24.23'
R = 1,200.00'
SE = .03
INC = 13'

-DRIVE- CURVE DATA
PI Sta 10+49.62
Δ = 71° 10' 05.0" (RT)
D = 143° 14' 22.0"
L = 49.68'
T = 28.62'
R = 40.00'
SE = .03
INC = 13'

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

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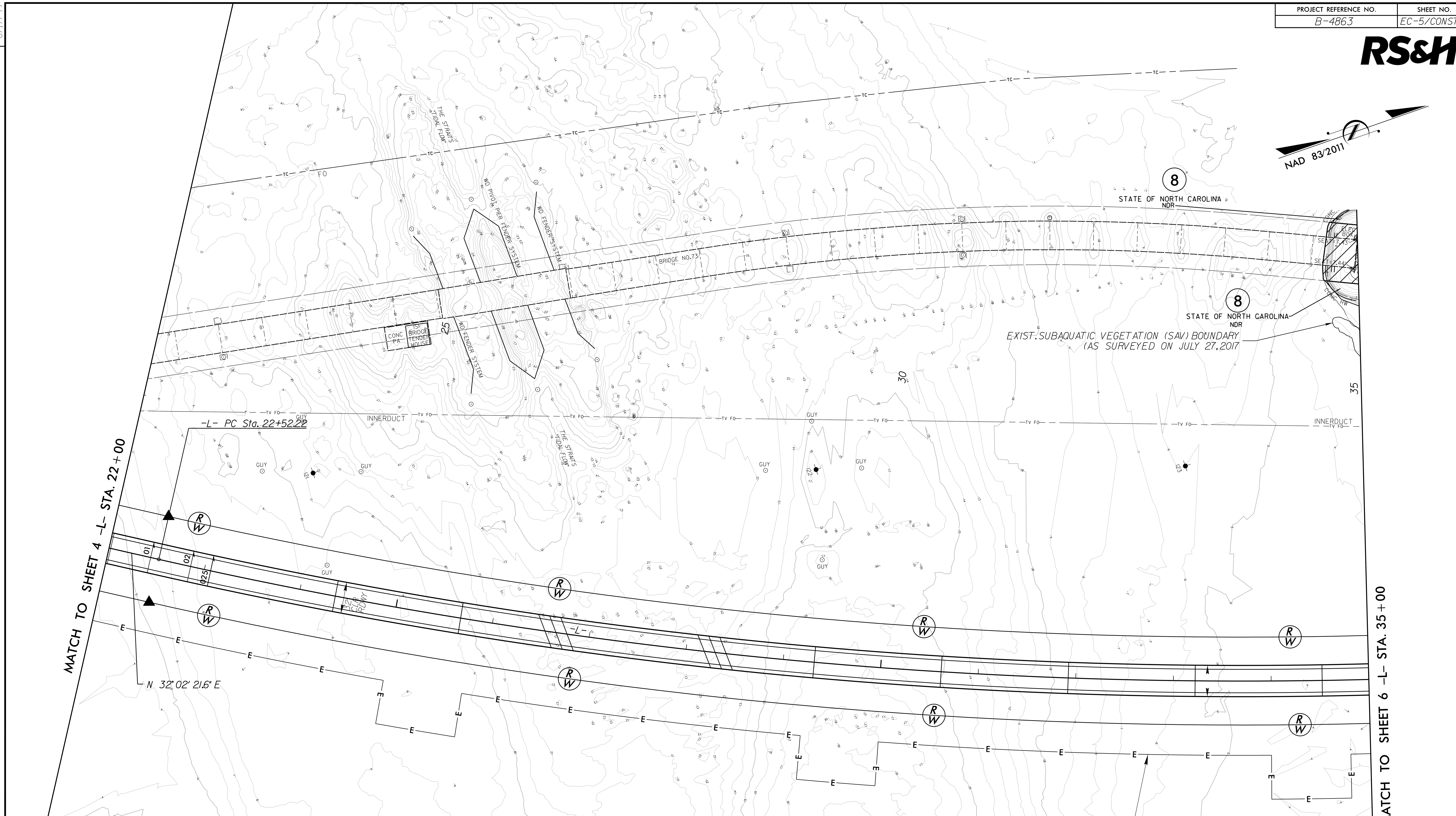
PROJECT REFERENCE NO.	SHEET NO.
B-4863	EC-5/CONST.5

RS&H



ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

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

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

NOTE: UTILIZE FLOATING TURBIDITY CURTAIN WHERE APPLICABLE.

NOTE: EXCELSIOR OR OTHER MESH TYPE NETTING IS NOT ALLOWED IN OR ON STREAM BANKS WITHIN THE RIPARIAN BUFFER.

-L- CURVE DATA

PI Sta 34+74.21
Δ = 27° 28' 03.8" (LT)
D = 1° 08' 45.3"
L = 2,397.01'
T = 1,222.00'
R = 5,000.00'
SE = .025
INC = VARIES

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

REVISIONS

8/17/99

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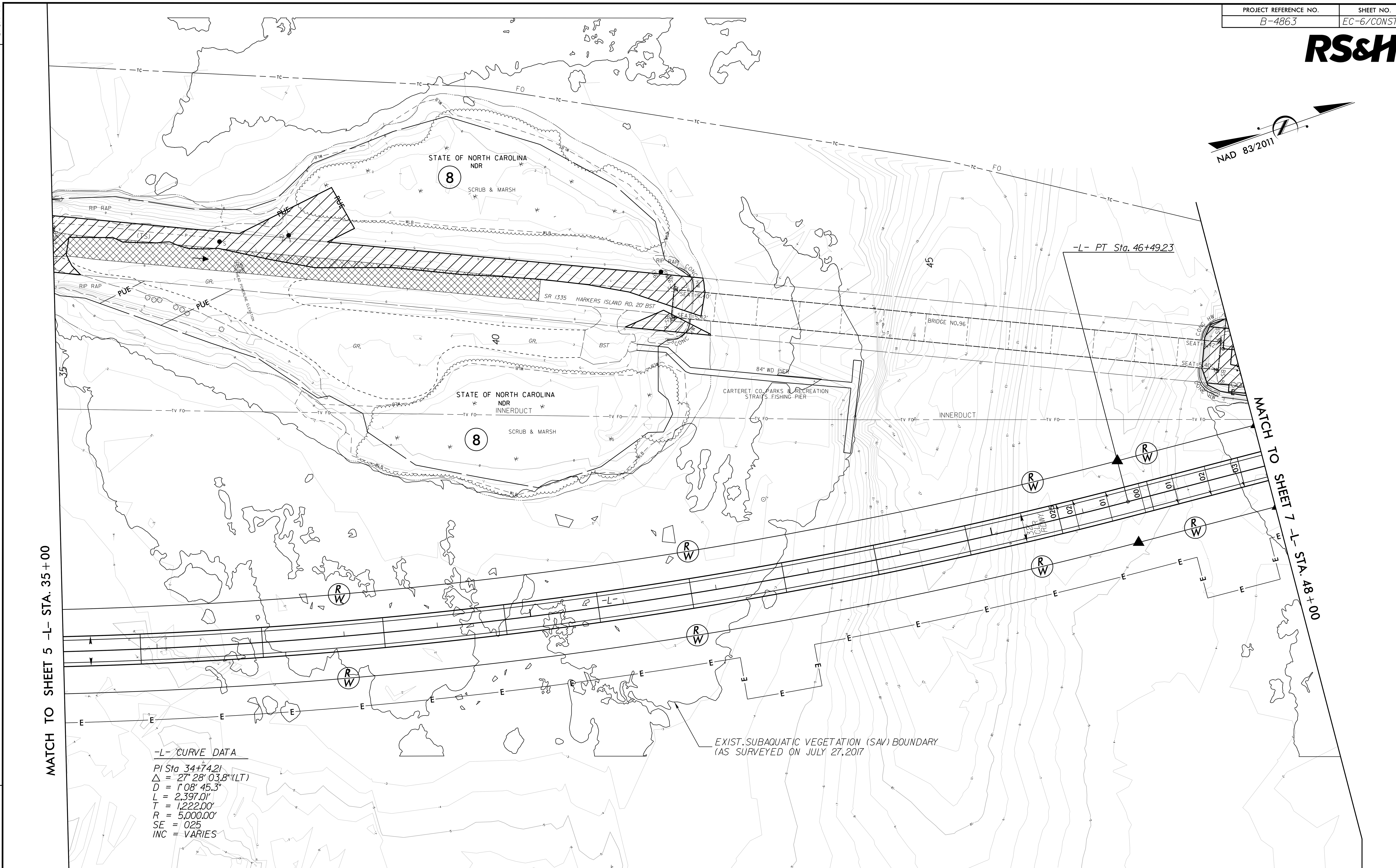
PROJECT REFERENCE NO.	SHEET NO.
B-4863	EC-6/CONST.6

RS&H



-L- CURVE DATA

PI Sta 34+74.21
Δ = 27° 28' 03.8" (LT)
D = 1° 08' 45.3"
L = 2,397.01'
T = 1,222.00'
R = 5,000.00'
SE = .025
INC = VARIES

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

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

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

NOTE: UTILIZE FLOATING TURBIDITY CURTAIN WHERE APPLICABLE.

NOTE: EXCELSIOR OR OTHER MESH TYPE NETTING IS NOT ALLOWED IN OR ON STREAM BANKS WITHIN THE RIPARIAN BUFFER.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
B-4863	EC-7/CONST.7

RS&H

8/17/99

REVISIONS

NAD 83/2011

END GRADE -PARK- Sta.14+14.48

BEGIN GRADE -PARK- Sta.10+20.00

MATCH TO SHEET 6 -L- STA. 48+00

CUT DITCH SEE DETAIL H

SPECIAL LATERAL 'V' DITCH SEE DETAIL I

STATE OF NORTH CAROLINA NDR 9

STATE OF NORTH CAROLINA NDR CONC STORM WATER RETENTION SYSTEM 10

CARTERET COUNTY DB 1616 PG 390 WOODED 12

JEFFREY L. CHADWICK, et ux DB 1306 PG 131 MB 31PG 650 13

JEFFREY L. CHADWICK, et ux DB 1306 PG 131 MB 31PG 650 11

ALLEN JONES, et ux DB 1306 PG 130 MB 31PG 650

DAVID CHRISTOPHER MILLER DB 1469 PG 334

WILLIAM F. SUTTON, et ux DB 1482 PG 329 MB 31PG 752

DAVID CHRISTOPHER MILLER DB 1469 PG 333 MB 5 PG 84

END PROJECT

B-4863 STA. 55+05.00

END CONSTRUCTION

B-4863 STA. 55+40.00

SR 1335 HARKERS ISLAND RD. 20' BST

GREU TL-3

RIP RAP AT EMBANKMENT SEE DETAIL K

STANDARD 'V' DITCH SEE DETAIL J

SPECIAL LATERAL BASE DITCH SEE DETAIL G

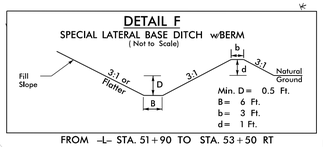
SPECIAL LATERAL BASE DITCH wBERM SEE DETAIL F

18" RCP-IV EST 3 TON CL B RIP RAP EST 10 SY GEOTEXTILE

SBG FROM -L- STA. 50+89 TO STA. 51+46 RT

EXIST. SUBAQUATIC VEGETATION (SAV) BOUNDARY (AS SURVEYED ON JULY 27, 2017

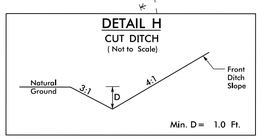
DETAIL F
SPECIAL LATERAL BASE DITCH wBERM
(Not to Scale)



Min. D= 0.5 Ft.
B= 6 Ft.
b= 3 Ft.
d= 1 Ft.

FROM -L- STA. 51+90 TO STA. 53+50 RT

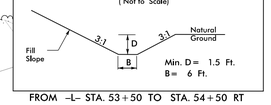
DETAIL H
CUT DITCH
(Not to Scale)



Min. D= 1.0 Ft.

FROM -PARK- STA. 13+73.79 TO STA. 14+20 RT

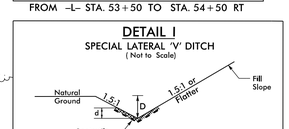
DETAIL G
SPECIAL LATERAL BASE DITCH
(Not to Scale)



Min. D= 1.5 Ft.
B= 6 Ft.

FROM -L- STA. 53+50 TO STA. 54+50 RT

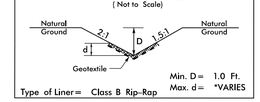
DETAIL I
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



Type of Liner= Class B Rip-Rap
Min. D= 2.0 Ft.
Max. d= *Varies

FROM -PARK- STA. 12+88.81 TO STA. 13+73.79 RT
*NOTE THAT SLOPES STEEPER THAN 3:1 WILL REQUIRE ROCK PLATING, SEE CROSS SECTIONS. CLASS B RIP RAP AND GEOTEXTILE QUANTITES ARE ROADWAY PAY ITEMS, SEE ROCK PLATING QUANTITIES & DETAIL SHEET 2C-7.

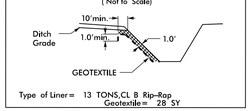
DETAIL J
STANDARD 'V' DITCH
(Not to Scale)



Min. D= 1.0 Ft.
Max. d= *VARIES
Type of Liner= Class B Rip-Rap

FROM -PARK- STA. 12+61.92 TO STA. 12+88.81 RT
*NOTE THAT SLOPES STEEPER THAN 3:1 WILL REQUIRE ROCK PLATING, SEE CROSS SECTIONS. CLASS B RIP RAP AND GEOTEXTILE QUANTITES FROM -PARK- STA. 12+80 TO 12+88.81 RT ARE ROADWAY PAY ITEMS, SEE ROCK PLATING QUANTITIES & DETAIL SHEET 2C-7.
EST. CLASS B RIP RAP = 7 TONS
EST. GEOTEXTILE = 13 SY

DETAIL K
RIP RAP AT EMBANKMENT
(Not to Scale)



Type of Liner= 13 TONS,CL B Rip-Rap
Geotextile= 28 SY

FROM -L- STA. 50+13 TO STA. 50+27 LT

-L- CURVE DATA
PI Sta 51+04.28
△ = 14° 20' 50.1" (RT)
D = 2° 23' 14.4"
L = 600.98'
T = 302.07'
R = 2,400.00'
SE = 03
INC = VARIES

-PARK- CURVE DATA
PI Sta 13+41.32
△ = 24° 02' 42.4" (LT)
D = 22° 55' 05.9"
L = 104.92'
T = 53.24'
R = 250.00'
SE = NC
INC = N/A

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

NOTE: EXCELSIOR OR OTHER MESH TYPE NETTING IS NOT ALLOWED IN OR ON STREAM BANKS WITHIN THE RIPARIAN BUFFER.

ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS

NOTE: UTILIZE FLOATING TURBIDITY CURTAIN WHERE APPLICABLE.

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

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

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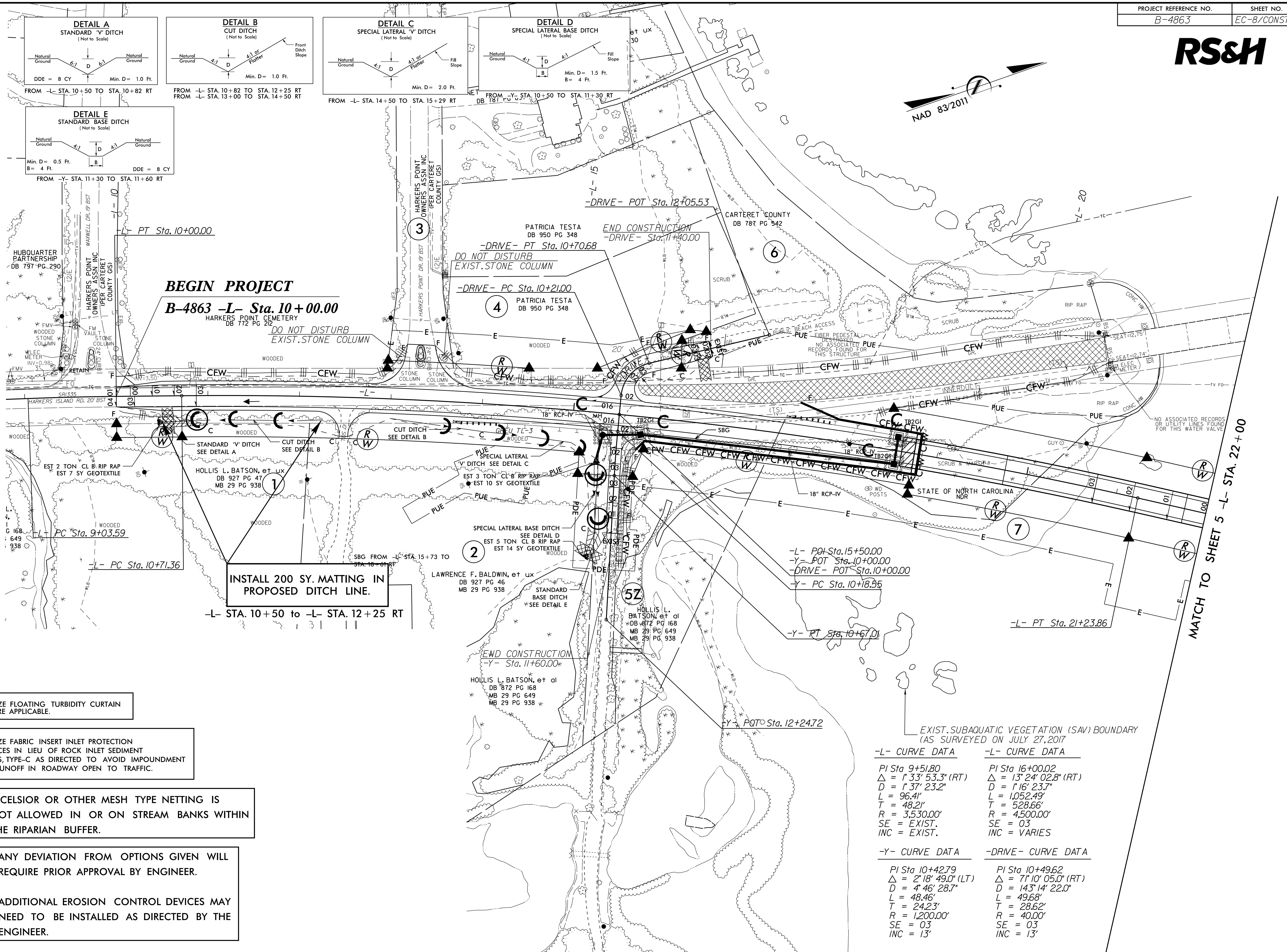
REVISIONS



DETAIL A
STANDARD 'V' DITCH
(Not to Scale)
DDE = 8 CY
Min. D= 1.0 Ft.
FROM -L- STA. 10+50 TO STA. 10+82 RT
DETAIL B
CUT DITCH
(Not to Scale)
Min. D= 1.0 Ft.
FROM -L- STA. 10+82 TO STA. 12+25 RT
FROM -L- STA. 13+00 TO STA. 14+50 RT
DETAIL C
SPECIAL LATERAL 'V' DITCH
(Not to Scale)
Min. D= 2.0 Ft.
FROM -L- STA. 14+50 TO STA. 15+29 RT
DETAIL D
SPECIAL LATERAL BASE DITCH
(Not to Scale)
Min. D= 1.5 Ft.
B= 4 Ft.
FROM -Y- STA. 10+50 TO STA. 11+30 RT
DETAIL E
STANDARD BASE DITCH
(Not to Scale)
Min. D= 0.5 Ft.
B= 4 Ft.
DDE = 8 CY
FROM -Y- STA. 11+30 TO STA. 11+60 RT
NAD 83/2011
BEGIN PROJECT
B-4863 -L- Sta. 10+00.00
HARKERS POINT CEMETERY
DB 772 PG 212
DO NOT DISTURB
EXIST. STONE COLUMN
-L- PT Sta. 10+00.00
HUBQUARTER PARTNERSHIP
DB 797 PG 290
HARKERS POINT OWNERS ASSN INC (PER CARTERET COUNTY GIS)
PATRICIA TESTA
DB 950 PG 348
-DRIVE- PT Sta. 10+70.68
-DRIVE- PC Sta. 10+21.00
-DRIVE- POT Sta. 12+05.53
END CONSTRUCTION
-DRIVE- Sta. 11+40.00
CARTERET COUNTY
DB 787 PG 542
STANDARD 'V' DITCH SEE DETAIL A
CUT DITCH SEE DETAIL B
CUT DITCH SEE DETAIL B
SPECIAL LATERAL 'V' DITCH SEE DETAIL C
EST 2 TON CL B RIP RAP
EST 7 SY GEOTEXTILE
EST 3 TON CL B RIP RAP
EST 10 SY GEOTEXTILE
HOLLIS L. BATSON, et ux
DB 927 PG 47
MB 29 PG 938
-L- PC Sta. 9+03.59
-L- PC Sta. 10+71.36
INSTALL 200 SY. MATTING IN PROPOSED DITCH LINE.
-L- STA. 10+50 to -L- STA. 12+25 RT
SBG FROM -L- STA. 15+73 TO STA. 16+81 RT
SPECIAL LATERAL BASE DITCH SEE DETAIL D
EST 5 TON CL B RIP RAP
EST 14 SY GEOTEXTILE
LAWRENCE F. BALDWIN, et ux
DB 927 PG 46
MB 29 PG 938
STANDARD BASE DITCH SEE DETAIL E
HOLLIS L. BATSON, et al
DB 872 PG 168
MB 29 PG 649
MB 29 PG 938
END CONSTRUCTION
-Y- Sta. 11+60.00
-L- POI Sta. 15+50.00
-Y- POT Sta. 10+00.00
-DRIVE- POT Sta. 10+00.00
-Y- PC Sta. 10+18.55
-Y- PT Sta. 10+67.01
-Y- POT Sta. 12+24.72
STATE OF NORTH CAROLINA
NDR
PUBLIC BEACH ACCESS
FIBER PEDESTAL DESTROYED
NO ASSOCIATED RECORDS FOUND FOR THIS STRUCTURE
NO ASSOCIATED RECORDS OR UTILITY LINES FOUND FOR THIS WATER VALVE
-L- PT Sta. 21+23.86
MATCH TO SHEET 5 -L- STA. 22+00
EXIST. SUBAQUATIC VEGETATION (SAV) BOUNDARY (AS SURVEYED ON JULY 27, 2017)

NOTE: UTILIZE FLOATING TURBIDITY CURTAIN WHERE APPLICABLE.

NOTE: 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.

NOTE: EXCELSIOR OR OTHER MESH TYPE NETTING IS NOT ALLOWED IN OR ON STREAM BANKS WITHIN THE RIPARIAN BUFFER.

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

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

-L- CURVE DATA

PI Sta 9+51.80
Δ = 1° 33' 53.3" (RT)
D = 1° 37' 23.2"
L = 96.41'
T = 48.21'
R = 3,530.00'
SE = EXIST.
INC = EXIST.

-L- CURVE DATA

PI Sta 16+00.02
Δ = 13° 24' 02.8" (RT)
D = 1° 16' 23.7"
L = 1,052.49'
T = 528.66'
R = 4,500.00'
SE = 03
INC = VARIES

-Y- CURVE DATA

PI Sta 10+42.79
Δ = 2° 18' 49.0" (LT)
D = 4° 46' 28.7"
L = 48.46'
T = 24.23'
R = 1,200.00'
SE = 03
INC = 13'

-DRIVE- CURVE DATA

PI Sta 10+49.62
Δ = 71° 10' 05.0" (RT)
D = 143° 14' 22.0"
L = 49.68'
T = 28.62'
R = 40.00'
SE = 03
INC = 13'

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PROJECT REFERENCE NO.	SHEET NO.
B-4863	EC-9/CONST.5

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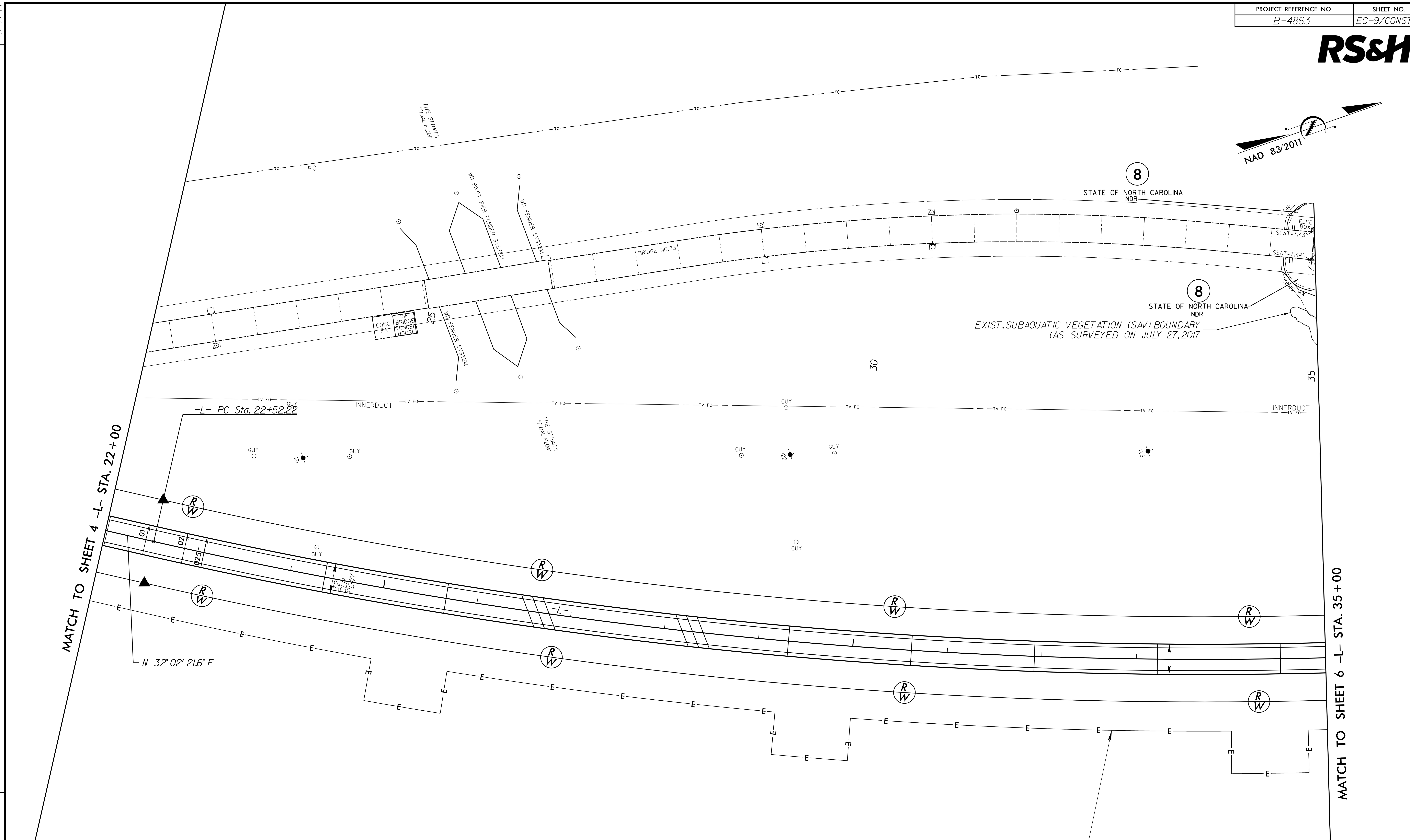

-L- CURVE DATA

PI Sta 34+74.21
Δ = 27° 28' 03.8" (LT)
D = 1° 08' 45.3"
L = 2,397.01'
T = 1,222.00'
R = 5,000.00'
SE = .025
INC = VARIES

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

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

NOTE: UTILIZE FLOATING TURBIDITY CURTAIN WHERE APPLICABLE.

NOTE: EXCELSIOR OR OTHER MESH TYPE NETTING IS NOT ALLOWED IN OR ON STREAM BANKS WITHIN THE RIPARIAN BUFFER.

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
B-4863	EC-10/CONST.6

RS&H

NAD 83/2011

8/17/99

REVISIONS

STATE OF NORTH CAROLINA
NDR
8
SCRUB & MARSH

RIP RAP

PUE

CFW

GR.

BST

SR 1335 HARKERS ISLAND RD. 20' BST

-L- PT Sta. 46+49.23

RIP RAP CONC. MH

SEAT=5.40'

SEAT=5.42'

BRIDGE NO.96

CONC. FW

84" WD PIER

CARTERET CO. PARKS & RECREATION
STRAITS FISHING PIER

STATE OF NORTH CAROLINA
NDR
INNERDUCT
SCRUB & MARSH

TV FO

INNERDUCT

45

40

35

MATCH TO SHEET 5 -L- STA. 35+00

MATCH TO SHEET 7 -L- STA. 48+00

RW

-L-

E

EXIST. SUBAQUATIC VEGETATION (SAV) BOUNDARY
(AS SURVEYED ON JULY 27, 2017

-L- CURVE DATA

PI Sta 34+74.21
△ = 27° 28' 03.8" (LT)
D = 1° 08' 45.3"
L = 2,397.01'
T = 1,222.00'
R = 5,000.00'
SE = 025
INC = VARIES

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

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

NOTE: UTILIZE FLOATING TURBIDITY CURTAIN WHERE APPLICABLE.

NOTE: EXCELSIOR OR OTHER MESH TYPE NETTING IS NOT ALLOWED IN OR ON STREAM BANKS WITHIN THE RIPARIAN BUFFER.

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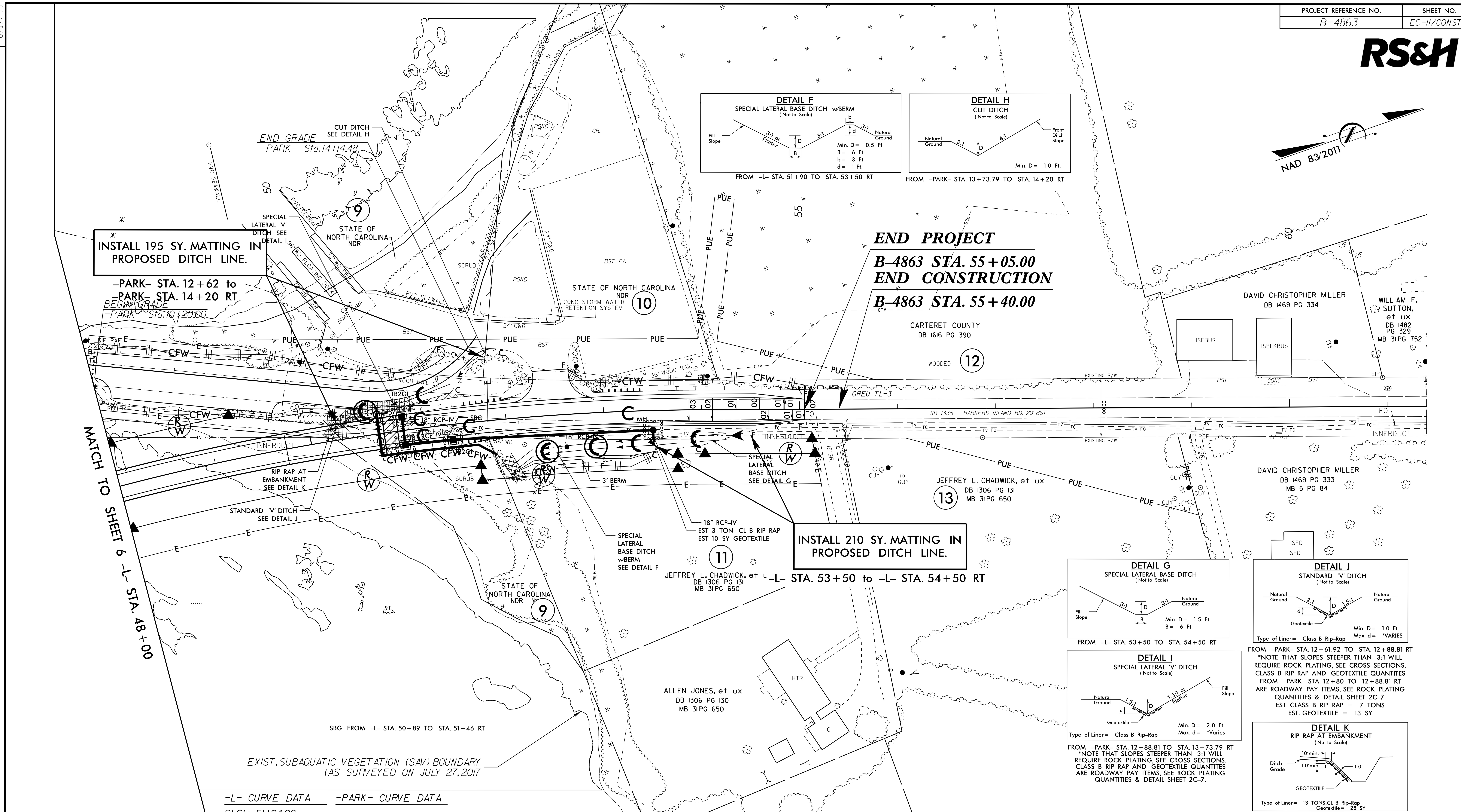

DETAIL F
SPECIAL LATERAL BASE DITCH w/BERM (Not to Scale)
Min. D = 0.5 Ft.
B = 6 Ft.
b = 3 Ft.
d = 1 Ft.
FROM -L- STA. 51+90 TO STA. 53+50 RT

DETAIL H
CUT DITCH (Not to Scale)
Min. D = 1.0 Ft.
FROM -PARK- STA. 13+73.79 TO STA. 14+20 RT

DETAIL G
SPECIAL LATERAL BASE DITCH (Not to Scale)
Min. D = 1.5 Ft.
B = 6 Ft.
FROM -L- STA. 53+50 TO STA. 54+50 RT

DETAIL I
SPECIAL LATERAL 'V' DITCH (Not to Scale)
Type of Liner = Class B Rip-Rap
Min. D = 2.0 Ft.
Max. d = *Varies
FROM -PARK- STA. 12+88.81 TO STA. 13+73.79 RT
*NOTE THAT SLOPES STEEPER THAN 3:1 WILL REQUIRE ROCK PLATING, SEE CROSS SECTIONS. CLASS B RIP RAP AND GEOTEXTILE QUANTITES ARE ROADWAY PAY ITEMS, SEE ROCK PLATING QUANTITIES & DETAIL SHEET 2C-7.

DETAIL J
STANDARD 'V' DITCH (Not to Scale)
Type of Liner = Class B Rip-Rap
Min. D = 1.0 Ft.
Max. d = *VARIES
FROM -PARK- STA. 12+61.92 TO STA. 12+88.81 RT
*NOTE THAT SLOPES STEEPER THAN 3:1 WILL REQUIRE ROCK PLATING, SEE CROSS SECTIONS. CLASS B RIP RAP AND GEOTEXTILE QUANTITES FROM -PARK- STA. 12+80 TO 12+88.81 RT ARE ROADWAY PAY ITEMS, SEE ROCK PLATING QUANTITIES & DETAIL SHEET 2C-7.
EST. CLASS B RIP RAP = 7 TONS
EST. GEOTEXTILE = 13 SY

DETAIL K
RIP RAP AT EMBANKMENT (Not to Scale)
Type of Liner = 13 TONS, CL B Rip-Rap
Geotextile = 28 SY
FROM -L- STA. 50+13 TO STA. 50+27 LT

-L- CURVE DATA
PI Sta 51+04.28
Δ = 14° 20' 50.1" (RT)
D = 2° 23' 14.4"
L = 600.98'
T = 302.07'
R = 2,400.00'
SE = 03
INC = VARIES

-PARK- CURVE DATA
PI Sta 13+41.32
Δ = 24° 02' 42.4" (LT)
D = 22° 55' 05.9"
L = 104.92'
T = 53.24'
R = 250.00'
SE = NC
INC = N/A

NOTE: 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.

NOTE: UTILIZE FLOATING TURBIDITY CURTAIN WHERE APPLICABLE.

NOTE: EXCELSIOR OR OTHER MESH TYPE NETTING IS NOT ALLOWED IN OR ON STREAM BANKS WITHIN THE RIPARIAN BUFFER.

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

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

REVISIONS

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