PROJECT REFERENCE NO.	SHEET NO.
B-4848	4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 026964 ENGINEER Bryan C. Kelly — 32903A9A94F124FC... 11/17/2017

HYDRAULICS ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 34364 ENGINEER Trenton J. Cormier — BAE073AA58A4A28... 11/16/2017

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

8/17/99

-L-

PI Sta 12+20.67
△ = 38° 40' 52.8" (RT)
D = 42° 26' 28.7"
L = 91.14'
T = 47.38'
R = 135.00'
SE = SEE PLANS

PI Sta 14+86.03
△ = 57° 04' 07.2" (RT)
D = 28° 38' 52.4"
L = 199.21'
T = 108.75'
R = 200.00'
SE = SEE PLANS

-DRV1-

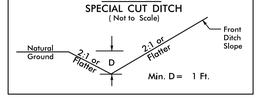
PI Sta 10+80.03
△ = 6° 42' 33.1" (LT)
D = 10° 30' 46.8"
L = 63.82'
T = 31.95'
R = 545.00'
SE = SEE PLANS

PI Sta 11+98.41
△ = 29° 15' 06.4" (RT)
D = 30° 09' 20.4"
L = 97.00'
T = 49.58'
R = 190.00'
SE = SEE PLANS

-DRV2-

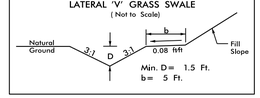
PI Sta 10+53.33
△ = 35° 44' 40.6" (LT)
D = 57° 17' 44.8"
L = 62.39'
T = 32.25'
R = 100.00'
SE = SEE PLANS

DETAIL A
SPECIAL CUT DITCH
(Not to Scale)



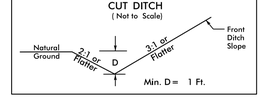
FROM -L- STA. 13+25 TO STA. 14+75 RT
FROM -L- STA. 18+50 TO STA. 19+25 RT
FROM -DRV1- STA. 11+00 TO STA. 12+00 RT

DETAIL B
LATERAL 'V' GRASS SWALE
(Not to Scale)



FROM -L- STA. 14+90 TO STA. 17+75 LT
DDE = 725 CY

DETAIL C
CUT DITCH
(Not to Scale)



FROM -DRV2- STA. 10+75 TO STA. 11+08 RT

NAD 83/2011

-L- PT Sta. 15+76.49

-L- POT Sta. 17+52.00 =
-DRV2- POT Sta. 11+29.76

BASIN CONSTRUCTED UNDER R-4436MJ (DO NOT DISTURB)

CL B RIP RAP
EST. 5 TONS
EST. 14 SY GEOTEXTILE

END TIP PROJECT B-4848
-L- STA. 19+25.00

LATERAL V GRASS SWALE
SEE DETAIL B

95 LF OF OUTLET CHANNEL IMPROVEMENT
EST. 135 TONS CL II RIP RAP
EST. 210 SY GEOTEXTILE

CL B RIP RAP
EST. 3 TONS
EST. 10 SY GEOTEXTILE

TAIL DITCH
SEE DETAIL E

-DRV1- PT Sta. 11+11.90

-DRV1- PC Sta. 10+48.08

-DRV1- POT Sta. 10+00.00

JOHN ROSCO BANKS
STOKES CLINTON AUSTIN
DB 170 PG 457

CL B RIP RAP
EST. 2 TONS
EST. 7 SY GEOTEXTILE

FLOODPLAIN BENCH
Remove Structure

SPECIAL CUT DITCH
SEE DETAIL A

HEAD DITCH
SEE DETAIL D

-L- PC Sta. 13+77.28

13' X 5' RCBC

BEGIN CONSTRUCTION
-DRV2- POT Sta. 10+75.00

-DRV1- PC Sta. 11+48.82

-DRV1- PT Sta. 12+45.82

SPECIAL CUT DITCH
SEE DETAIL A

FLOODPLAIN BENCH

-L- PT Sta. 12+64.43

WILLIAM DWAYNE JONES
DB 269 PG 84

45 LF OF INLET CHANNEL IMPROVEMENT
EST. 130 TONS CL II RIP RAP
EST. 200 SY GEOTEXTILE

-L- POC Sta. 12+45.00 =
-DRV1- POT Sta. 12+61.90

-L- PC Sta. 11+73.29

ELAINE H. & DAVID BOONE
DB 367 PG 723

BEGIN GRADE
-L- STA. 11+75.00

BEGIN TIP PROJECT B-4848
-L- STA. 10+50.00

-L- POT Sta. 10+00.00

WILLIAM DWAYNE JONES
DB 329 PG 306

SANDRA LYNN BONELLO
DB 670 PG 207

ELAINE H. & DAVID BOONE
DB 367 PG 723

-DRV2- PT Sta. 10+83.47

SPECIAL CUT DITCH
SEE DETAIL A

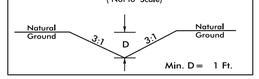
CUT DITCH
(TIE TO DI)
SEE DETAIL C

-L- POT Sta. 21+91.52

BEGIN CONSTRUCTION
-DRV2- PC Sta. 10+21.09

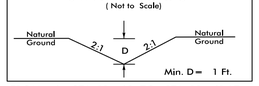
-DRV2- POT Sta. 10+00.00

DETAIL D
STANDARD HEAD DITCH
(Not to Scale)



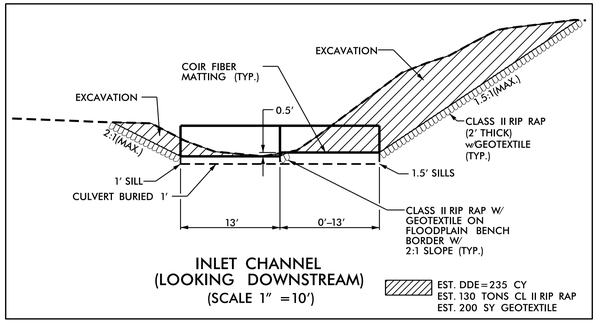
FROM -L- STA. 14+75 TO STA. 15+80 RT
DDE = 20 CY, SLOPE=2.49%

DETAIL E
STANDARD TAIL DITCH
(Not to Scale)

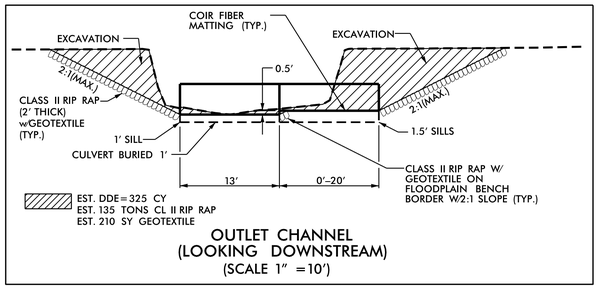


FROM -L- STA. 12+62 TO STA. 13+61 LT
DDE = 20 CY, SLOPE=3.09%
FROM -L- STA. 13+70 TO STA. 14+30 LT
DDE = 340 CY, SLOPE=3.16%

NOTE: FOR CUT CONDITION, USE CLASS II RIP RAP FLOODPLAIN BENCH BORDER WITH NATURAL GROUND COVERED WITH COIR FIBER MAT INSIDE BORDER. IN FILL CONDITION, USE CLASS II RIP RAP FILL THROUGHOUT WITH NATIVE BED MATERIAL FILLING THE VOIDS ON TOP.



INLET CHANNEL
(LOOKING DOWNSTREAM)
(SCALE 1" =10')



OUTLET CHANNEL
(LOOKING DOWNSTREAM)
(SCALE 1" =10')

PAVEMENT REMOVAL
FOR -L- PROFILE, SEE SHEET NO. 5
FOR -DRV1- PROFILE, SEE SHEET NO. 5
FOR -DRV2- PROFILE, SEE SHEET NO. 5
FOR CULVERT PLANS, SEE SHEET C-1 THRU C-18

12-OCT-2017 15:02
S:\Hydraulics\Hydro_Data\B4848_Rdy_psh_04.dgn
$$$$USERNAME$$$$