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8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-4463AA	4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 19724 ENGINEER DAVID BURKE EVANS — DocuSigned by: Burke Evans 10/18/2014

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 21656 ENGINEER ROGER S. WELDON — DocuSigned by: Roger Weldon 10/17/2014

M A Engineering Consultants, Inc.
NC License: F-0160
598 East Chatham Street Suite 137 Cary, NC 27511
Phone: 919.297.0220 Fax: 919.297.0221

DETAIL TB1
STANDARD BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, 3:1, Natural Ground; B
Min. D = 3 Ft.
B = 2 Ft.

FROM –L– 16+91(97'LT) STA. TO STA. 17+28(226'LT)

DETAIL TB2
STANDARD BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, 3:1, Natural Ground; B
Min. D = 3.5 Ft.
B = 3 Ft.

FROM –L– 17+43(100'LT) STA. TO STA. 17+89(283'LT)

DETAIL LB1
LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, 3:1, 1'/Ft., b, Fill Slope; B
Min. D = 2 Ft.
B = 2 Ft.
b = 5 Ft.

FROM –L– STA. 17+46 TO STA. 22+63 LT

DETAIL FS
FALSE SUMP
(Not to Scale)

Median Ditch, 9", 2', L (See Chart Below), 20', GI etc., S
S = Ditch Slope ℄ Proposed Ditch

Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

FROM –L– STA. 16+40 TO STA. 16+60

–L–

PIs Sta 16+76.25
Θs = 1° 54' 35.5"
Ls = 200.00'
LT = 133.34'
ST = 66.67'

PI Sta 32+51.05
Δ = 53° 22' 43.8" (RT)
D = 1° 54' 35.5"
L = 2,794.91'
T = 1,508.15'
R = 3,000.00'
SE = 05
V = 60 MPH

NAD 83/95

MATCH LINE –Y1– STA. 20+00

–Y1– POT Sta. 24+00.00

–Y1– POT Sta. 10+00.00

BEGIN TIP PROJECT R-4463AA
–L– POT STA. 13+00.00

BEGIN CONSTRUCTION –Y1– STA. 12+10.00

BEGIN PAVEMENT –Y1– STA. 12+65.00

END PAVEMENT –Y1– STA. 21+00.00

END CONSTRUCTION –Y1– STA. 21+55.00

BEGIN CONSTRUCTION –L– STA. 13+47.96

–L– POT Sta. 13+60.54
–Y1– POT Sta. 17+00.00

–L– POT Sta. 10+00.00

MATCH LINE –L– STA. 20+00 SEE SHEET NO. 5

MATCH LINE –Y1– STA. 20+00 SEE INSET THIS SHEET

–L– TS Sta. 15+42.91

–L– SC Sta. 17+42.91

N 84° 58' 39.8" E

N 22° 26' 20.6" W

S 84° 58' 40.4" W 3618.21'

R = R/W

BPNC MB 2515 PG 659 PC H SLIDE 32-F

WEYERHAEUSER REAL ESTATE DEVELOPMENT COMPANY MB 2894 PG 246

WOODS

R4463AA GPS 2

END C/A END WW FENCE

BEGIN C/A BEGIN WW FENCE

CLASS 'I' RIP RAP EST. 5 TONS 14 SY GEOTEXTILE

CLASS 'I' RIP RAP EST. 33 TONS 62 SY GEOTEXTILE

2' TAIL BASE DITCH SEE DETAIL TB1 EST 215 CY DDE

3' TAIL BASE DITCH SEE DETAIL TB2 EST 230 CY DDE

2' LATERAL BASE DITCH SEE DETAIL LB1 EST 686 CY DDE

GRADING ONLY

24" RCP-III

34" RCP-III

40' TYP

CHORD

INTERSECTION DETAIL

–Y1– +16.91 12.00' LT

+90.70 22.65' LT

200'R–40'R (8'05)

–L– +27.35 16.82' RT

+27.79 23.00' RT

+15.05 54.26' RT

+15.05 47.00' RT

–Y1– +18.89 12.00' LT

90'R

15+42.91

SEE SHEET 9 FOR –L– PROFILE
SEE SHEET 11 FOR –Y1– PROFILE

10/15/2014
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