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5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-3622B	17

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 26960 ENGINEER REECE L. SCHULER

DocuSigned by: Reece Schuler 4/13/2015
166340247C7824FC...

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 030453 ENGINEER AARON C. BARNES

DocuSigned by: Aaron C. Barnes 4/13/2015
6A8F72E45AE3407...

-L-

BEGIN BERM DITCH GRADE
-L- STA.65+15
EL = 1782.32

END BERM DITCH GRADE
-L- STA.65+60
EL = 1,780.43

BEGIN BERM DITCH GRADE
-L- STA.65+70
EL = 1,781.76

END BERM DITCH GRADE
-L- STA.66+25
EL = 1,782.31

PI = 67+25.00
EL = 1,784.27'
VC = 1,200'
K = 203

(-) 4.3111%

(+) 1.0000%

(+)6.9000%

(+)0.9792%

EXISTING GRADE

PROPOSED GRADE

BEGIN "V" DITCH GRADE
-L- STA.61+00.00
EL = 1740.59

MATCHLINE -L- STA. 61+00 SEE SHEET 16

(+)6.9000%

(-) 0.3133%

END "V" DITCH GRADE
-L- STA.62+46.00
EL = 1740.13

BM*6: N 521,075.4224
E 448,496.3499
Elev.1765.73' -L- Sta.63+44.14
88.76' RT
RR SPIKE IN 15" WHITE OAK

LEFT DITCH

RIGHT DITCH

BM*7: N 521,871.2962
E 448,082.1619
Elev.1780.91' -L- Sta.72+40.18
123.90' RT
RR SPIKE IN 27" MAPLE

-L- STA.70+48.09 =
-DR4- STA.10+00.00
EL 1,785.54

-L- STA.70+91.19 =
-Y1- STA.13+44.15
EL 1,786.50'

BEGIN LAT.BASE DITCH
-L- STA.72+00: 77' LT
EL = 1,778.64

BEGIN LAT.BASE DITCH
-L- STA.72+00.32' LT
EL = 1776.39

(-) 10.9933%

(-) 5.9830%

PI =72+45.00
EI =1773.69

BEGIN DITCH GRADE
-L- STA.72+81
EL = 1767.34'

PI =73+00.000
EI = 1,766.07

PI =73+00.000
EI = 1,770.40

(-) 6.6980%

(-) 11.1240%

(-) 14.3988%

PI =73+50.000
EI = 1,764.84

(-) 7.0211%

(-) 6.9667%

PI =73+50.000
EI = 1,758.97'

END DITCH GRADE
-L- STA.73+79.00
EL = 1756.95'

END GRADE LAT.BASE DITCH
-L- STA.73+83
EL = 1,762.52'

(+)0.9792%

MATCHLINE -L- STA. 74+00 SEE SHEET 18

PIPE HYDRAULIC DATA
36" CL IV RCP Sta.73+89.59

DRAINAGE AREA	=	18.1	AC
DESIGN FREQUENCY	=	50	YRS
DESIGN DISCHARGE	=	22	CFS
DESIGN HW ELEVATION	=	1765.51	FT
100 YEAR DISCHARGE	=	26.6	CFS
100 YEAR HW ELEVATION	=	1765.76	FT
OVERTOPPING FREQUENCY	=	500+	YRS
OVERTOPPING DISCHARGE	=	202.04	CFS
OVERTOPPING ELEVATION	=	1790.45	FT

1,800 1,790 1,780 1,770 1,760 1,750 1,740 1,730 1,720

61 62 63 64 65 66 67 68 69 70 71 72 73 74

$$$$SYSTIME$$$$
$$$$FRAME$$$$