10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2610A	28

METRIC

5 0 10

CONST.REV.

R /W REV.

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 17691 ENGINEER RICHARD A. SHILLINGLAW — 12-11-03

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 12786 ENGINEER STEVEN M. BONDOR — 12.15.03

BEGIN GRADE
-L- 12+40.000
ELEV 77.473

BM#1
R/R SPIKE IN BASE OF POWER POLE 31.0m RIGHT OF BASELINE -L- 6+49.270 ELEV.78.55Im

BM#2
R/R SPIKE IN BASE OF POWER POLE 34.52Im RIGHT OF -L- 11+57.020 ELEV.75.046m

NOTE :
THIS GROUND PROFILE FROM -L- STA 12+40 TO 85+79.544 IS 7.0 m RIGHT OF -L- AND APPROX.ON THE NBL MEDIAN EOP

PI = 13+80.000
EL = 77.5485 m
VC = 260 m
K = 76

+0.0539%

+3.4859%

84.520

CULVERT HYDRAULIC DATA
CULVERT EXTENSIONS AT -L- 13+28.500

DRAINAGE AREA	= 70	HA
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 8.7	CMS
DESIGN HW ELEVATION	= 68.53	M
100 YEAR DISCHARGE	= 10.1	CMS
100 YEAR HW ELEVATION	= 68.77	M
OVERTOPPING FREQUENCY	= 500 +	YRS
OVERTOPPING DISCHARGE	= 25.0	CMS
OVERTOPPING ELEVATION	= 74.88	M

1.8 x 1.8 RCBC

SEE PROFILE SHEET NO. 44
FOR -L- DITCH PROFILES

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NOS. 10 & 11

DRAINAGE AREA	= 1.0	HA
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 0.18	CMS
DESIGN HW ELEVATION	= 75.31	M
100 YEAR DISCHARGE	= 0.19	CMS
100 YEAR HW ELEVATION	= 75.32	M
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 1.7	CMS
OVERTOPPING ELEVATION	= 77.50	M

600 RCP

12 +20 +40 +60 +80 13 +20 +40 +60 +80 14 +20 +40 +60 +80 15 +20 +40 +60 +80

84.520

+3.4859%

-1.9136%

90.615

PI = 18+29.000
EL = 93.200 m
VC = 323 m
K = 59.8

-L- STA 18+04.666=
-Y2- STA 10++89.245

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NOS.13 & 18

DRAINAGE AREA	= 0.36	HA
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 0.07	CMS
DESIGN HW ELEVATION	= 87.66	M
100 YEAR DISCHARGE	= 0.08	CMS
100 YEAR HW ELEVATION	= 87.68	M
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	= 0.27	CMS
OVERTOPPING ELEVATION	= 88.00	M

450 RCP

SEE PROFILE SHEET NO. 45
FOR -L- DITCH PROFILES

SEE PROFILE SHEET NO. 46
FOR -L- DITCH PROFILES

+80 16 +20 +40 +60 +80 17 +20 +40 +60 +80 18 +20 +40 +60 +80 19 +20 +40 +60

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