PROJECT REFERENCE NO.	SHEET NO.
R-2610B	60

METRIC

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17691 RICHARD A. SHILLINGLAW — 06.23.04

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22100 STEPHEN R. MORGAN — 6/25/04

CONST.REV.

R /W REV.

-Y13-
BEG GRADE
-Y13- 11+30.666 =
-L- 62+23.158
(14.2m LT)
ELEV 156.312
END GRADE
-Y13- 11+70.000 =
ELEV 155.997
INCLUDES 60 mm
MIN. RESURFACING
FEATHER RESURF TO EXIST
AT -Y13- 11+80.000
END CONST.
-2.7516%
+1.0850%
BEG LAT V DITCH LT STA 11+40 EL 154500
(+) 1.0000%
450mm
END LAT V DITCH LT STA 11+60 EL 154700
PI = 11+50.000
EL = 155.780 m
VC = 20 m
K = 5
-Y14-
BEG GRADE
-Y14- 10+09.953
ELEV 154.609
INCLUDES 35 mm
RESURFACING
END GRADE
-Y14- 10+61.647 =
-L- 75+32.077 (14.2m RT)
ELEV 153.529
INCLUDES 35 mm
MIN. RESURFACING
PI = 10+40.000
EL = 153.640 m
VC = 40 m
K = 14
-3.2249%
-0.5128%
450mm
BEG LAT V DITCH RT STA 10+40 EL 152770
(-) 2.3000%
END LAT V DITCH RT STA 10+50 EL 152540
FEATHER RESURF FROM
EXIST AT -Y14- 10+00
BEG. CONST.
BEG GRADE
-Y14- 10+99.503 =
-L- 75+57.108
(14.2m LT)
ELEV 153.633
END GRADE
-Y14- 11+51.498 =
ELEV 151.257
INCLUDES 60 mm
MIN. RESURFACING
FEATHER RESURF TO
EXIST AT -Y14- 11+60
END CONST.
-3.0004%
-6.0797%
PI = 11+25.000
EL = 152.868 m
VC = 48 m
K = 16
DRIVE-1
PI = 10+35.000
EL = 151.421 m
VC = 20 m
K = 5
+0.9749%
+4.8968%
BEG GRADE
DR1 10+09.665
ELEV 151.174
END GRADE
DR1 10+50.112 =
-Y14- 11+35.774
4.478 m LT
ELEV 152.161

PIPE HYDRAULIC DATA

DRAINAGE STRUCTURE NO.53B

DRAINAGE AREA	= 0.30 HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 0.06 CMS
DESIGN HW ELEVATION	= 155.18 M
100 YEAR DISCHARGE	= 0.07 CMS
100 YEAR HW ELEVATION	= 155.20 M
OVERTOPPING FREQUENCY	= 500+/-YRS
OVERTOPPING DISCHARGE	= 0.23 CMS
OVERTOPPING ELEVATION	= 155.50 M

PIPE HYDRAULIC DATA

DRAINAGE STRUCTURE NO.68A

DRAINAGE AREA	= 0.92 HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 0.04 CMS
DESIGN HW ELEVATION	= 153.53 M
100 YEAR DISCHARGE	= 0.04 CMS
100 YEAR HW ELEVATION	= 153.53 M
OVERTOPPING FREQUENCY	= 100+/- YRS
OVERTOPPING DISCHARGE	= 0.04 CMS
OVERTOPPING ELEVATION	= 153.55 M