5/14/99

Note:
DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED (40MPH)

PROJECT REFERENCE NO.	SHEET NO.
B-3695	5

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 19795 ENGINEER BRENDA L. MOORE
8/30/04
B.L. Moore

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 18600 ENGINEER RANDALL G. HENEGAR
8-5-04

BM #1
BL STA 10+56.79, 57.25' LT.
R/R SPIKE SET IN BASE OF 18" POPLAR. EL = 743.31

-L-

BM #2
BL STA 20+01.81, 148.96' LT.
R/R SPIKE SET IN BASE OF 14" POPLAR. EL = 670.14

BEGIN GRADE
-L- STA 15+00.00
EL = 708.98

CULVERT HYDRAULIC DATA

DESIGN DISCHARGE	= 1000 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 668.1 FT
BASE DISCHARGE	= 1600 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 669.6 FT
OVERTOPPING DISCHARGE	= 4000 CFS
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING ELEVATION	= 684.6 FT

PI = 20+00.00
VC = 830'
EL = 671.03'
K = 65
V = 40mph

PIPE HYDRAULIC DATA

DRAINAGE STRUCTURE NO.6

DRAINAGE AREA	= 2.8 AC
DESIGN FREQUENCY	= 25 YRS
DESIGN DISCHARGE	= 5.7 CFS
DESIGN HW ELEVATION	= 684.6 FT
100 YEAR DISCHARGE	= --- CFS
100 YEAR HW ELEVATION	= --- FT
OVERTOPPING FREQUENCY	= 100+ YRS
OVERTOPPING DISCHARGE	= 8.5 CFS
OVERTOPPING ELEVATION	= 685.3 FT

BEGIN DITCH LT.
STA. 18+00.00
EL.= 684.9

PI =19+00.000
EI = 677.00

(-)7.9600%
(-)5.9166%
(-)7.5900%
(-)2.4000%
(-) 3.0000%
(+)5.0284%
(+).9900%
(+)

CULVERT
3 @ 8' x 8'
RCBC W/ SILLS

PI =21+00.000
EI = 670.80
(+) 3.0000%

BEGIN DITCH LT.
STA.20+80.00
EL.= 670.2

END GRADE
-L- STA 24+50.00
EL = 694.56

BEGIN DITCH RT.
STA.18+00.00
EL.= 67.39

PI =19+50.000
EI = 670.50

END DITCH LT.
STA.20+20.00
EL.= 666.0

END DITCH RT.
STA.20+70.00
EL.= 666.7

END DITCH LT.
STA.22+00.00
EL.= 680.7

DENOTES LT. DITCH
DENOTES RT. DITCH

08-JUN-2004 09:00
R:\Proj\B3695_rdy_pf12.dgn
White_A1