BM #114 STD.NCGS CONC.MONUMENT,
STAMPED ANDY,1977
6.296 RT OF -Y3- STA.17+101.835 EL= 46.101

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STAMPED ANDY,1977
6.296 RT OF -Y3- STA.17+101.835 EL= 46.101

METRIC

5 0 10

CONST.REV.

R /W REV.

PROJECT REFERENCE NO.	SHEET NO.
R-513C	121

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 12300 ENGINEER CHARLES LEE FLOYD
7/16/04

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 20754 ENGINEER T. STEPHENS, JR.
7/16/04

TGS
TGS ENGINEERS
975 WALNUT STREET, SUITE 141
CARY, NC 27511
PH (919) 319-8850

50 48 46 44 42 40 38

24+40 25+00 26+00 27+00 28+00

(-) 4.8000%

PROP.GRADE

L = 360.000
K = 45

L = 110.000
K = 51

(-) 4.0000%

(-) 0.4238%

STA 28+00.000 -Y5-
END GR EL= 43.708

EXIST.PROFILE

PI =26+91.000
EL = 44.467

(+) 0.0972%

750 RCP CL IV

1450 RCP

24+75+/- END LAT DITCH RT
GR EL 41.25

DESIGN DATA
FOR DRAINAGE STRUCTURE AT
STA.24+83

DRAINAGE AREA	= 12 HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 0.59cms
DESIGN HW ELEVATION	= 42.35 m
100 YEAR DISCHARGE	= 0.71cms
100 YEAR HW ELEVATION	= 42.66 m
OVERTOPPING FREQUENCY	= 200+ YRS
OVERTOPPING DISCHARGE	= 0.95cms
OVERTOPPING	= 43.40 m

DESIGN DATA
FOR DRAINAGE STRUCTURE AT
STA.27+56

DRAINAGE AREA	= 10 HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 0.085cms
DESIGN HW ELEVATION	= 42.72 m
100 YEAR DISCHARGE	= 0.103cms
100 YEAR HW ELEVATION	= 42.77 m
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 0.48cms
OVERTOPPING	= 43.70 m

SEE SHEETS NO.33 & NO.34
FOR -Y5- PLAN

-Y5-

50 48 46 44 42 40 38

10+00 11+00

STA 10+03.500 -Y5A-
BEG GR EL=44.361

L = 60.000
K = 15

(-) 4.2363%

PROP.GRADE

(-) 0.3000%

EXIST.PROFILE

PI =10+40.000
EL= 42.819

K = 6
L = 20.000

(-) 0.3000%

PI =11+55.000
EL= 42.594

STA 11+25.000 -Y5A-
END GR EL=42.876

(+) 2.8200%

-Y5A

SEE SHEET NO. 10 FOR -Y5A- PLAN

50 48 46 44 42 40 38

10+00 11+00

STA 9+83.000 -Y6-
BEGIN GR EL = 43.445

L = 80.000
K = 30

PROP.GRADE

(+) 0.3552%

PI =10+23.000
EL = 43.597

EXIST.PROFILE

(+) 3.0000%

STA 11+13.131 -Y6-
END GR EL = 46.291

-Y6-

SEE SHEET NO.33 FOR -Y6- PLAN

$$$$SYSTIME$$$$
$$$$USERNAME$$$$
$$$$DGN$$$$