

BM *1/4 STD. NCGS CONC. MONUMENT,
 STAMPED ANDY, 1977
 6.296 RT OF -Y3- STA. 17+01.835 EL= 46.10

METRIC

PROJECT REFERENCE NO. R-513C SHEET NO. 115

ROADWAY DESIGN ENGINEER
 HYDRAULICS ENGINEER

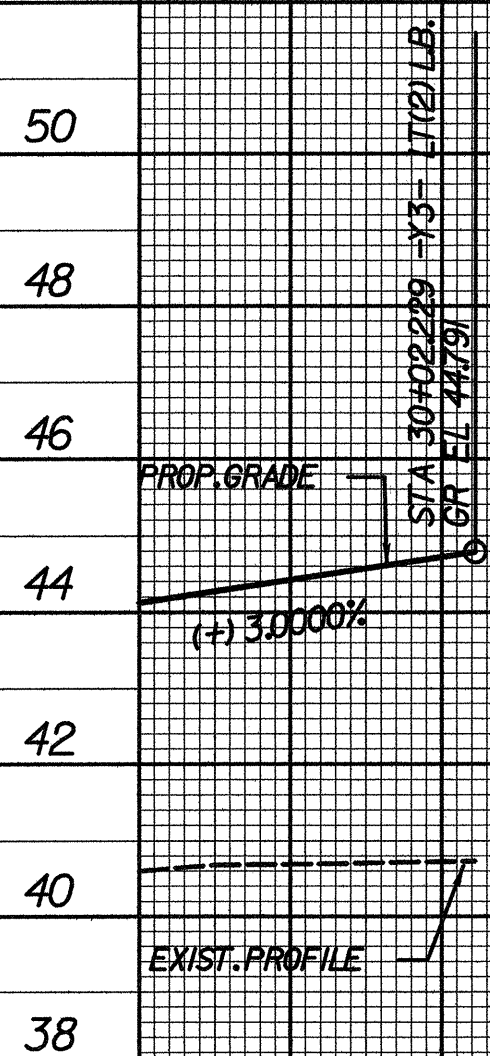
5 0 10

CONST. REV.
 R / W REV.

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

Professional Engineer Seal for Charles Lee Floate, No. 12300, dated 1/16/04.

Professional Engineer Seal for T. Stephens, No. 20754, dated 7/16/04.

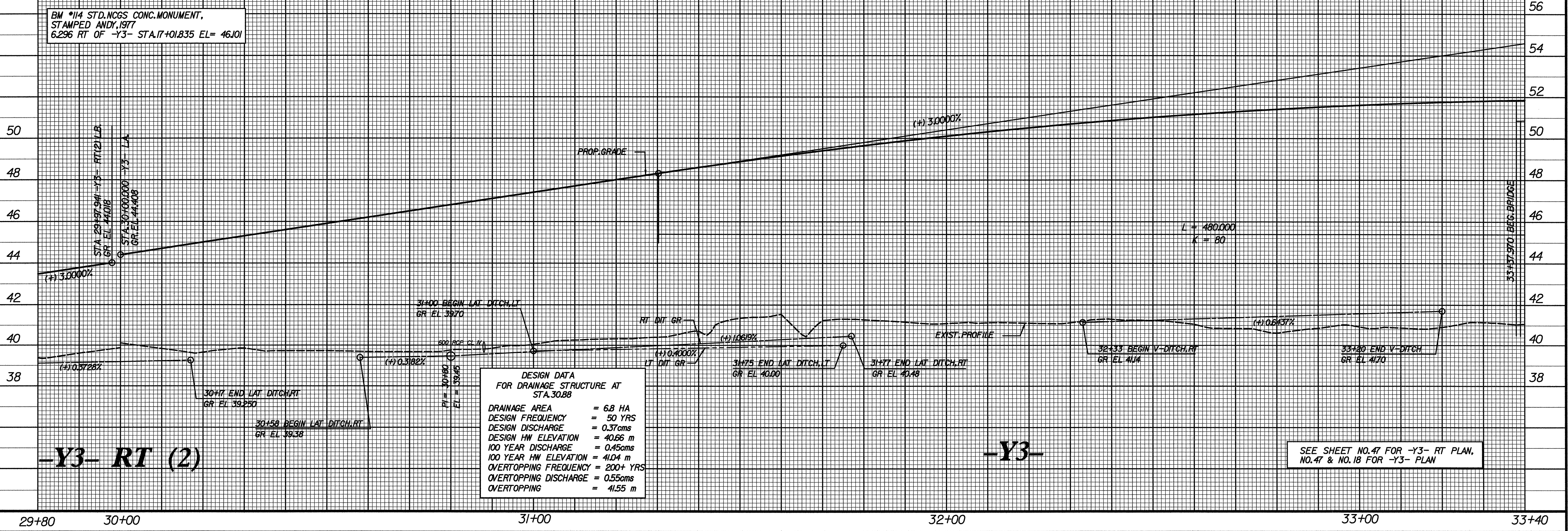


-Y3- LT (2)

SEE SHEET NO. 47 FOR -Y3- LT PLAN

29+80 30+00

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 6.296 RT OF -Y3- STA. 17+01.835 EL= 46.10



DESIGN DATA
 FOR DRAINAGE STRUCTURE AT
 STA. 30.88

DRAINAGE AREA = 6.8 HA
 DESIGN FREQUENCY = 50 YRS
 DESIGN DISCHARGE = 0.37cms
 DESIGN HW ELEVATION = 40.66 m
 100 YEAR DISCHARGE = 0.45cms
 100 YEAR HW ELEVATION = 41.04 m
 OVERTOPPING FREQUENCY = 200+ YRS
 OVERTOPPING DISCHARGE = 0.55cms
 OVERTOPPING = 4.155 m

-Y3- RT (2)

SEE SHEET NO. 47 FOR -Y3- RT PLAN,
 NO. 47 & NO. 18 FOR -Y3- PLAN

29+80 30+00 31+00 32+00 33+00 33+40

SYSTEMS
 CONSULTANTS
 INC.