PROJECT REFERENCE NO.	SHEET NO.
R-513C	77

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

METRIC

5 0 10

CONST.REV.

R /W REV.

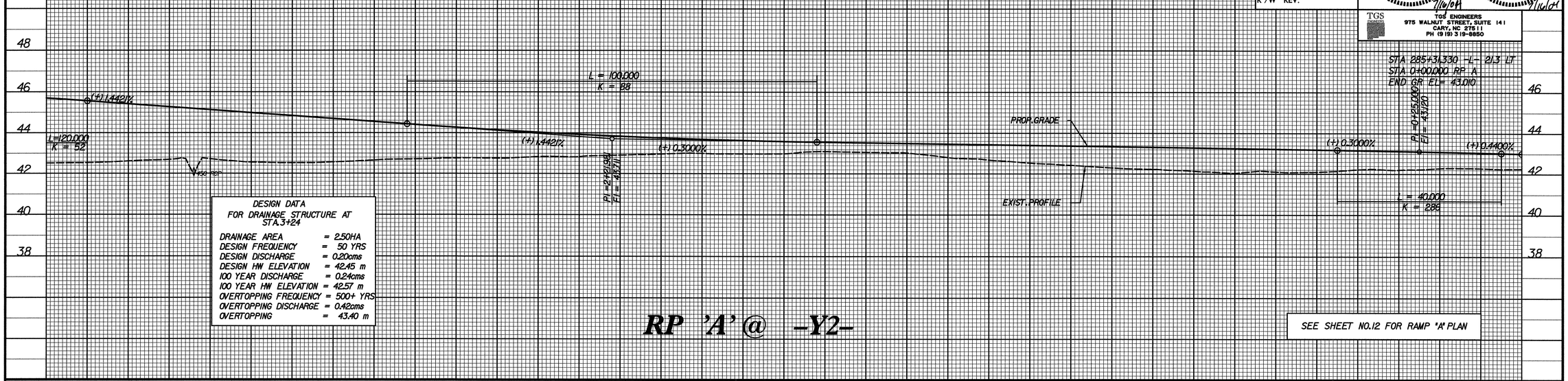
NORTH CAROLINA PROFESSIONAL SEAL 12300 ENGINEER CHARLES LEE FLOYD 7/16/04

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

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

BM #4 RR SPIKE IN BASE OF 750mm PINE
86.610 RT OF -L- STA.284+93.432 EL= 42.011

STA 285+31.330 -L- 21.3 LT
STA 0+00.000 RP A
END GR EL= 43.010

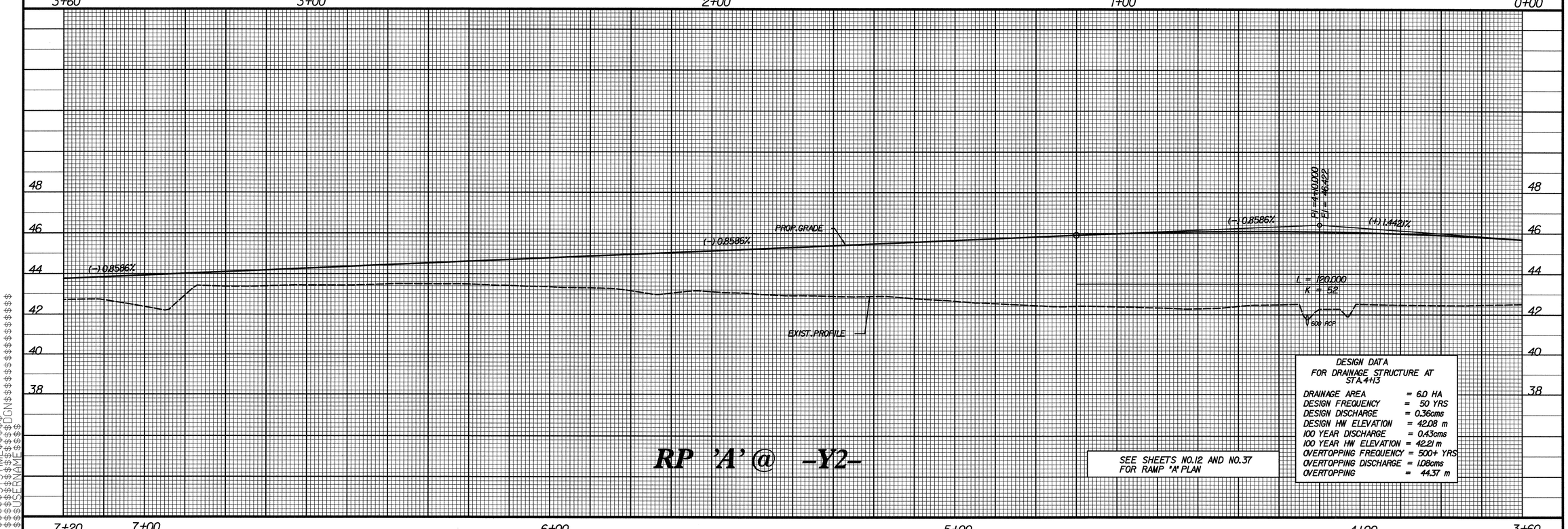


DESIGN DATA
FOR DRAINAGE STRUCTURE AT
STA.3+24

DRAINAGE AREA	= 2.50HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 0.20cms
DESIGN HW ELEVATION	= 42.45 m
100 YEAR DISCHARGE	= 0.24cms
100 YEAR HW ELEVATION	= 42.57 m
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 0.42cms
OVERTOPPING	= 43.40 m

RP 'A' @ -Y2-

SEE SHEET NO.12 FOR RAMP "A" PLAN



DESIGN DATA
FOR DRAINAGE STRUCTURE AT
STA.4+13

DRAINAGE AREA	= 6.0 HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 0.36cms
DESIGN HW ELEVATION	= 42.08 m
100 YEAR DISCHARGE	= 0.43cms
100 YEAR HW ELEVATION	= 42.21 m
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 1.08cms
OVERTOPPING	= 44.37 m

RP 'A' @ -Y2-

SEE SHEETS NO.12 AND NO.37
FOR RAMP "A" PLAN

6/09/05

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

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