

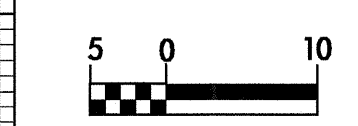
6/29/05

PIPE HYDRAULIC DATA	
DRAINAGE STRUCTURE NO.165	
DRAINAGE AREA	= 2.0 HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 0.12 CMS
DESIGN HW ELEVATION	= 54.80 M
100 YEAR DISCHARGE	= 0.15 CMS
100 YEAR HW ELEVATION	= 50.87 M
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 0.39 CMS
OVERTOPPING ELEVATION	= 55.30 M

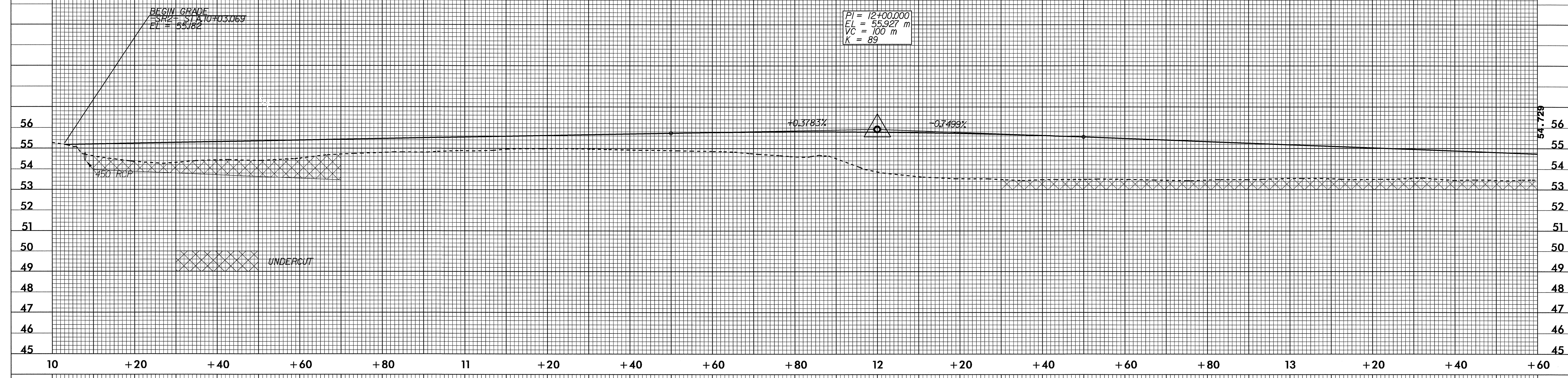
-SR2-



PROJECT REFERENCE NO. R-0513A	SHEET NO. 59
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
TGS Engineers 975 Walnut Street, Suite 141 Cary, NC 27511	



CONST. REV.
R /W REV.



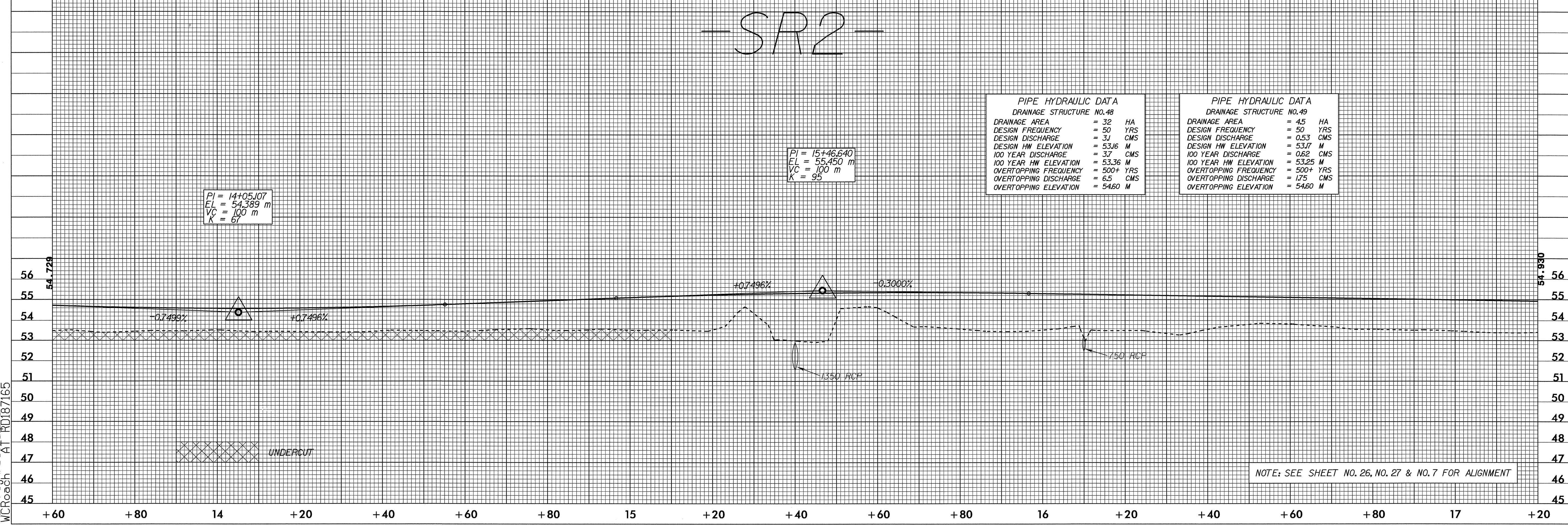
-SR2-

PI = 14+05.107
EL = 54.389 m
VC = 100 m
K = 67

PI = 15+46.640
EL = 55.450 m
VC = 100 m
K = 95

PIPE HYDRAULIC DATA	
DRAINAGE STRUCTURE NO.48	
DRAINAGE AREA	= 32 HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 3.1 CMS
DESIGN HW ELEVATION	= 53.16 M
100 YEAR DISCHARGE	= 3.7 CMS
100 YEAR HW ELEVATION	= 53.36 M
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 6.5 CMS
OVERTOPPING ELEVATION	= 54.60 M

PIPE HYDRAULIC DATA	
DRAINAGE STRUCTURE NO.49	
DRAINAGE AREA	= 45 HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 0.53 CMS
DESIGN HW ELEVATION	= 53.17 M
100 YEAR DISCHARGE	= 0.62 CMS
100 YEAR HW ELEVATION	= 53.25 M
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 1.75 CMS
OVERTOPPING ELEVATION	= 54.60 M



NOTE: SEE SHEET NO. 26, NO. 27 & NO. 7 FOR ALIGNMENT

08-JUL-2004 14:00
R:\Proj\0513\01 of 1
McRoach AT RD187165