

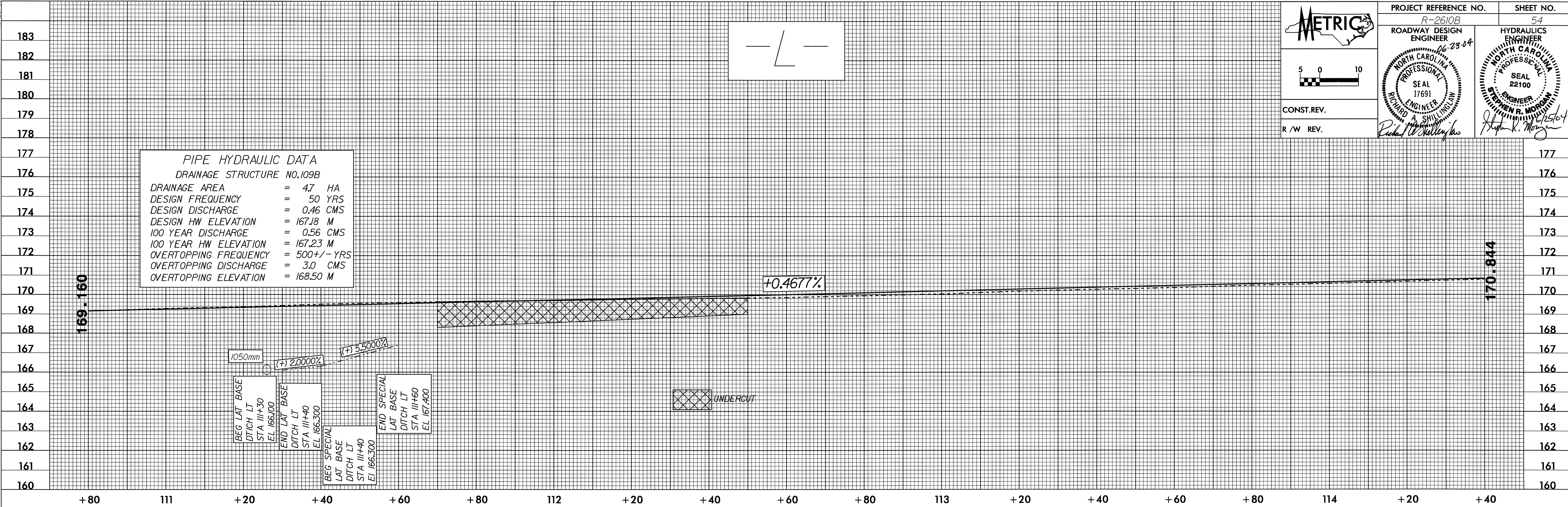
5 0 10

CONST. REV.
R /W REV.

PROJECT REFERENCE NO. R-2610B	SHEET NO. 54
ROADWAY DESIGN ENGINEER 06.23.04	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17691	NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22100
Richard W. Shilling	Stephen R. Morison

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.109B

DRAINAGE AREA = 4.7 HA
DESIGN FREQUENCY = 50 YRS
DESIGN DISCHARGE = 0.46 CMS
DESIGN HW ELEVATION = 167.18 M
100 YEAR DISCHARGE = 0.56 CMS
100 YEAR HW ELEVATION = 167.23 M
OVERTOPPING FREQUENCY = 500+/- YRS
OVERTOPPING DISCHARGE = 3.0 CMS
OVERTOPPING ELEVATION = 168.50 M



PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.114B

DRAINAGE AREA = 31 HA
DESIGN FREQUENCY = 50 YRS
DESIGN DISCHARGE = 2.21 CMS
DESIGN HW ELEVATION = 163.20 M
100 YEAR DISCHARGE = 2.67 CMS
100 YEAR HW ELEVATION = 163.41 M
OVERTOPPING FREQUENCY = 500+/- YRS
OVERTOPPING DISCHARGE = 6.0 CMS
OVERTOPPING ELEVATION = 170.00 M

