ARCADIS
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METRIC

5 0 10

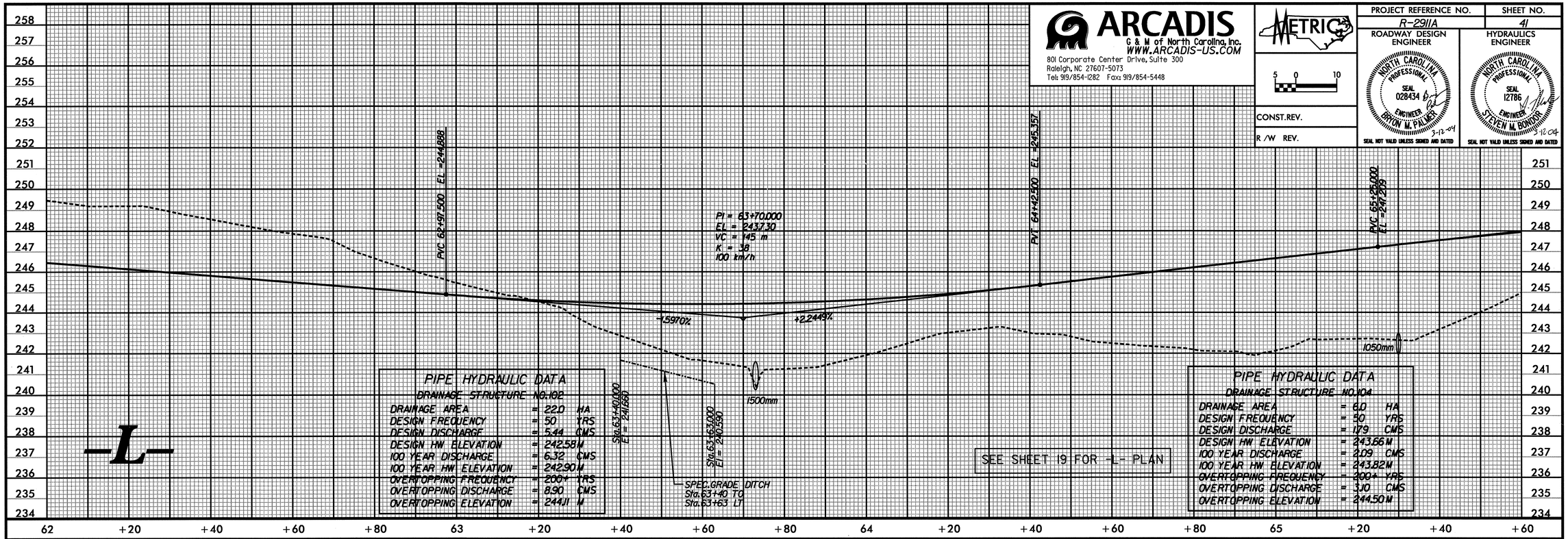
CONST.REV.

R /W REV.

PROJECT REFERENCE NO.	SHEET NO.
R-2911A	41

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 028434 ENGINEER BRYON M. PALMER 3-12-04
SEAL NOT VALID UNLESS SIGNED AND DATED

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 12786 ENGINEER STEVEN M. BONDUR 3-12-04
SEAL NOT VALID UNLESS SIGNED AND DATED

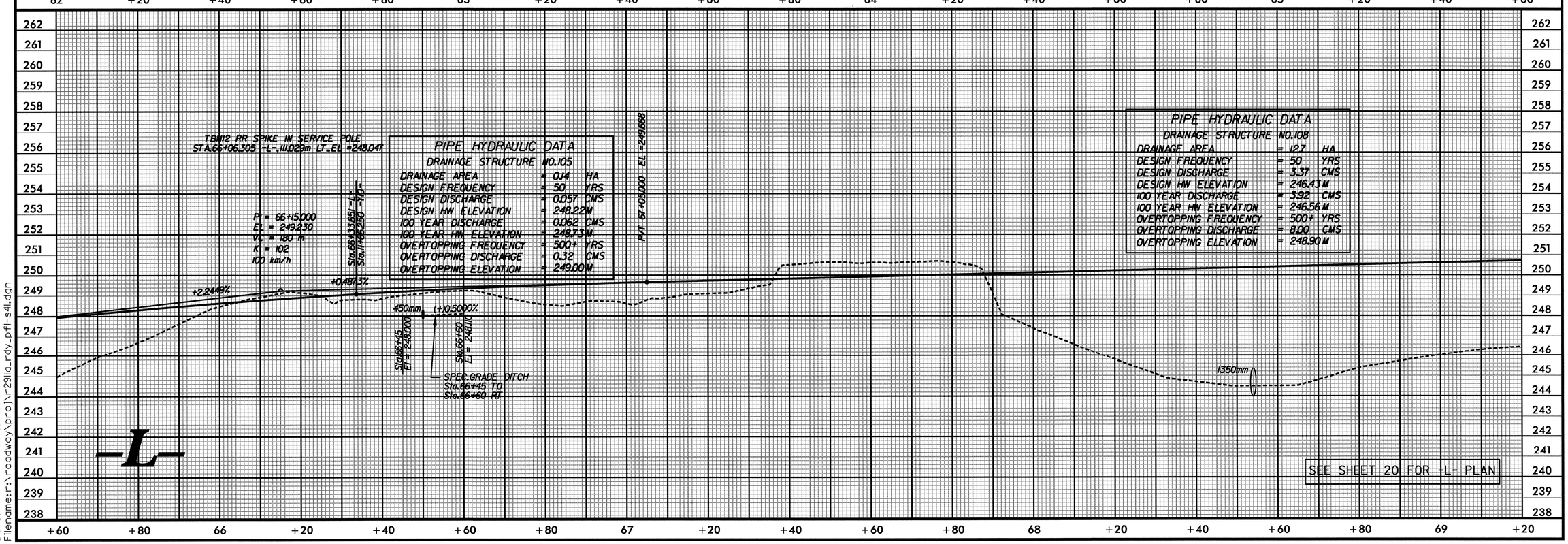


PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.102

DRAINAGE AREA	= 22.0	HA
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 5.44	CMS
DESIGN HW ELEVATION	= 242.58	M
100 YEAR DISCHARGE	= 6.32	CMS
100 YEAR HW ELEVATION	= 242.90	M
OVERTOPPING FREQUENCY	= 200+	YRS
OVERTOPPING DISCHARGE	= 8.90	CMS
OVERTOPPING ELEVATION	= 244.11	M

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.104

DRAINAGE AREA	= 6.0	HA
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 1.79	CMS
DESIGN HW ELEVATION	= 243.66	M
100 YEAR DISCHARGE	= 2.09	CMS
100 YEAR HW ELEVATION	= 243.82	M
OVERTOPPING FREQUENCY	= 200+	YRS
OVERTOPPING DISCHARGE	= 3.10	CMS
OVERTOPPING ELEVATION	= 244.50	M



PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.105

DRAINAGE AREA	= 0.14	HA
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 0.057	CMS
DESIGN HW ELEVATION	= 248.22	M
100 YEAR DISCHARGE	= 0.062	CMS
100 YEAR HW ELEVATION	= 248.23	M
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 0.32	CMS
OVERTOPPING ELEVATION	= 249.00	M

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.108

DRAINAGE AREA	= 12.7	HA
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 3.37	CMS
DESIGN HW ELEVATION	= 246.43	M
100 YEAR DISCHARGE	= 3.92	CMS
100 YEAR HW ELEVATION	= 246.56	M
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 8.00	CMS
OVERTOPPING ELEVATION	= 248.90	M

ARCADIS G&M
Date:3/12/2004 Time: 8:09:43 AM
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