PROJECT REFERENCE NO.	SHEET NO.
B-3266	6

ROADWAY DESIGN ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 22934 ENGINEER KEVIN W. MUMFORD 12/16/04

HYDRAULICS ENGINEER: SEAL 19660 ENGINEER PAUL ATKINSON 12/16/04

METRIC 5 0 10

CONST.REV.

R /W REV.

DITCH LEGEND

LEFT DITCH

RIGHT DITCH

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO. 1

DRAINAGE AREA	=	0.91	HA
DESIGN FREQUENCY	=	25	YRS
DESIGN DISCHARGE	=	0.125	CMS
DESIGN HW ELEVATION	=	395.04	M
100 YEAR DISCHARGE	=	0.146	CMS
100 YEAR HW ELEVATION	=	395.09	M
OVERTOPPING FREQUENCY	=	200	YRS ±
OVERTOPPING DISCHARGE	=	0.23	CMS
OVERTOPPING ELEVATION	=	395.20	M

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO. 3

DRAINAGE AREA	=	11.5	HA
DESIGN FREQUENCY	=	25	YRS
DESIGN DISCHARGE	=	0.43	CMS
DESIGN HW ELEVATION	=	391.04	M
100 YEAR DISCHARGE	=	0.68	CMS
100 YEAR HW ELEVATION	=	391.17	M
OVERTOPPING FREQUENCY	=	25	YRS +
OVERTOPPING DISCHARGE	=	0.51	CMS
OVERTOPPING ELEVATION	=	391.10	M

BM-2
RAILROAD SPIKE IN ROOT OF 600 mm SYCAMORE
-L- STA 12+50.875 OFFSET 5.220 m RT
ELEV= 388.742

STRUCTURE HYDRAULIC DATA

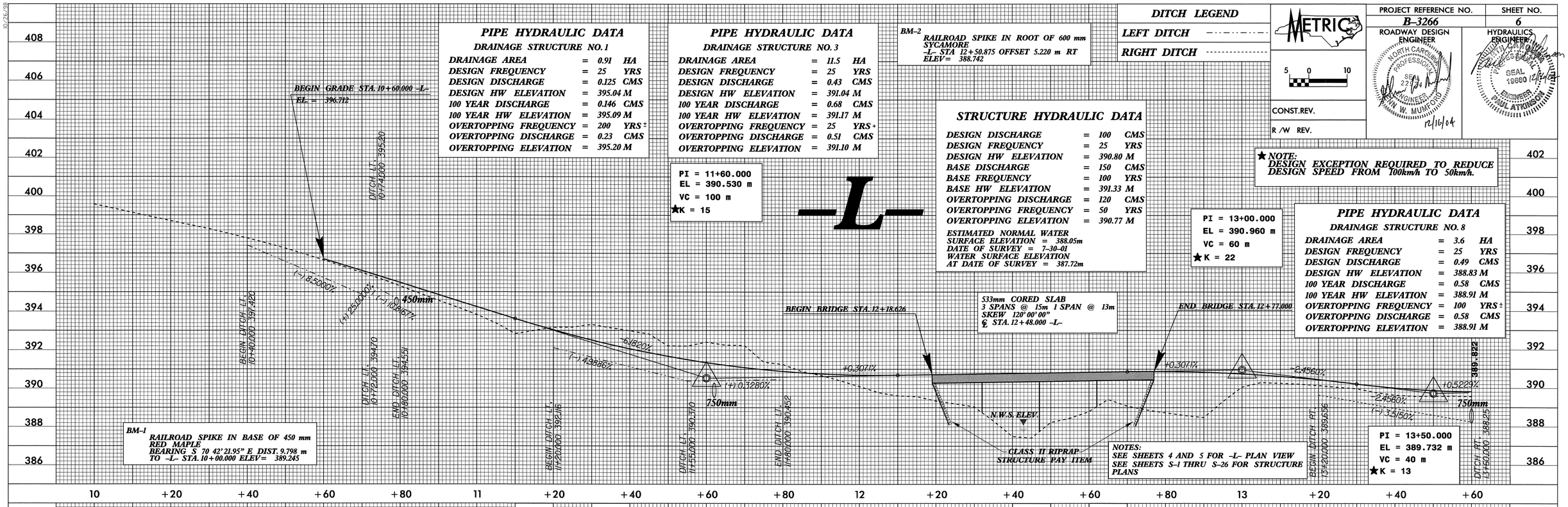
DESIGN DISCHARGE	=	100	CMS
DESIGN FREQUENCY	=	25	YRS
DESIGN HW ELEVATION	=	390.80	M
BASE DISCHARGE	=	150	CMS
BASE FREQUENCY	=	100	YRS
BASE HW ELEVATION	=	391.33	M
OVERTOPPING DISCHARGE	=	120	CMS
OVERTOPPING FREQUENCY	=	50	YRS
OVERTOPPING ELEVATION	=	390.77	M

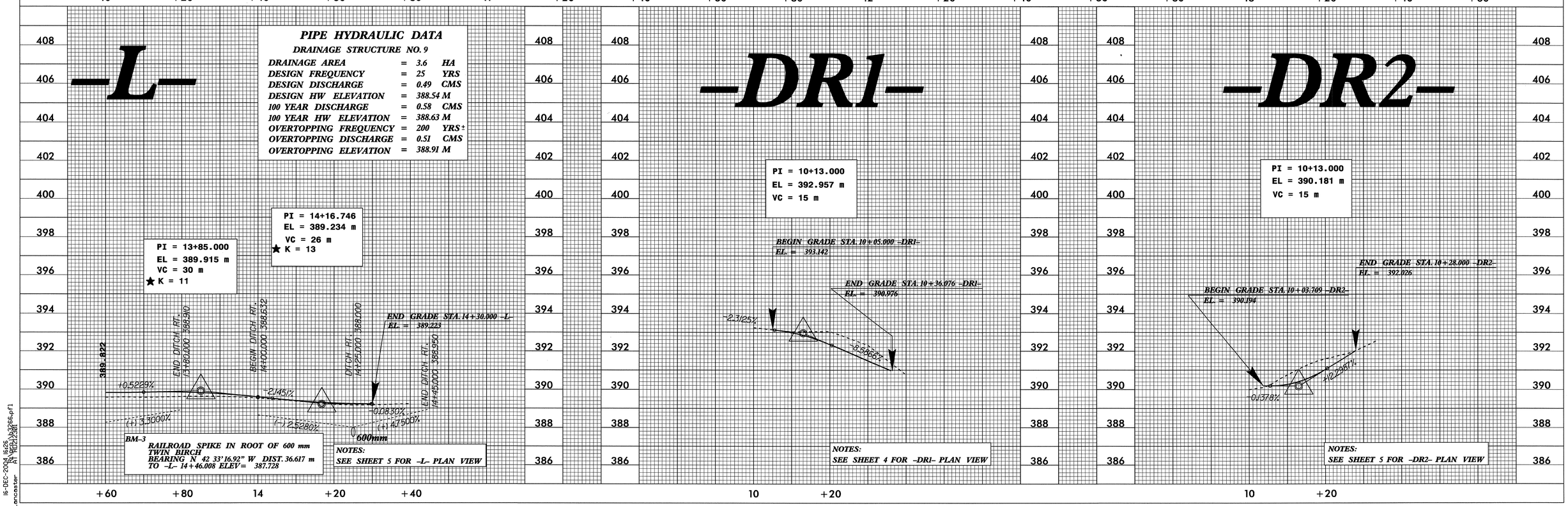
ESTIMATED NORMAL WATER SURFACE ELEVATION = 388.05m
DATE OF SURVEY = 7-30-01
WATER SURFACE ELEVATION AT DATE OF SURVEY = 387.72m

★NOTE:
DESIGN EXCEPTION REQUIRED TO REDUCE DESIGN SPEED FROM 100km/h TO 50km/h.

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO. 8

DRAINAGE AREA	=	3.6	HA
DESIGN FREQUENCY	=	25	YRS
DESIGN DISCHARGE	=	0.49	CMS
DESIGN HW ELEVATION	=	388.83	M
100 YEAR DISCHARGE	=	0.58	CMS
100 YEAR HW ELEVATION	=	388.91	M
OVERTOPPING FREQUENCY	=	100	YRS ±
OVERTOPPING DISCHARGE	=	0.58	CMS
OVERTOPPING ELEVATION	=	388.91	M





10/26/98

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