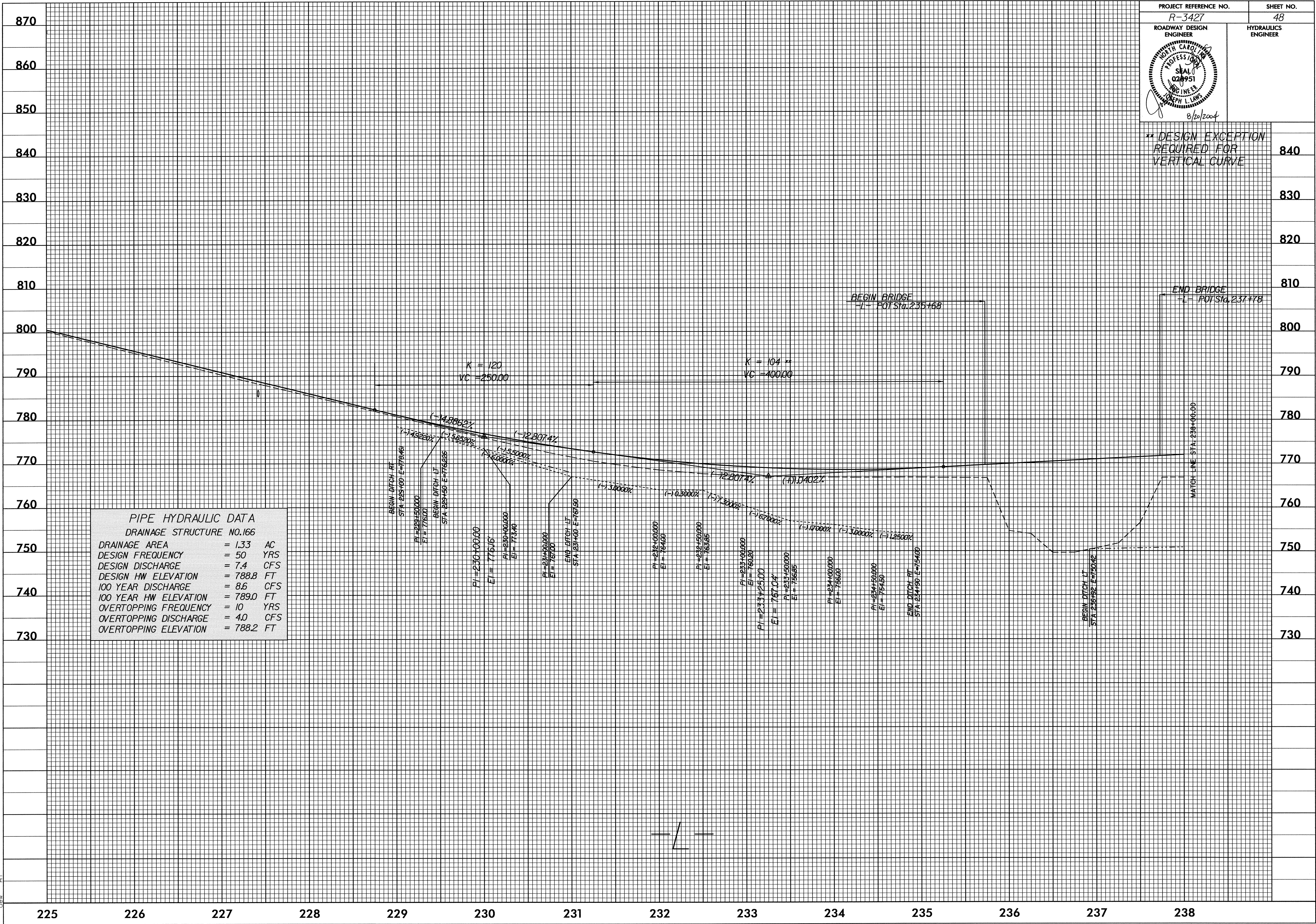


5/14/99

PROJECT REFERENCE NO. R-3427	SHEET NO. 48
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

** DESIGN EXCEPTION
REQUIRED FOR
VERTICAL CURVE



PIPE HYDRAULIC DATA	
DRAINAGE STRUCTURE NO. 166	
DRAINAGE AREA	= 1.33 AC
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 7.4 CFS
DESIGN HW ELEVATION	= 788.8 FT
100 YEAR DISCHARGE	= 8.6 CFS
100 YEAR HW ELEVATION	= 789.0 FT
OVERTOPPING FREQUENCY	= 10 YRS
OVERTOPPING DISCHARGE	= 4.0 CFS
OVERTOPPING ELEVATION	= 788.2 FT

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