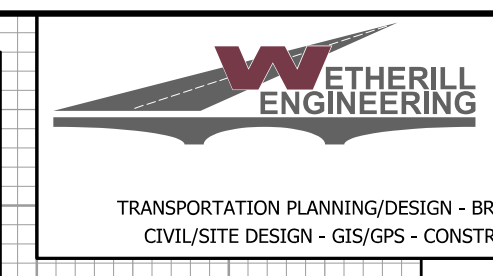


5/28/22



1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

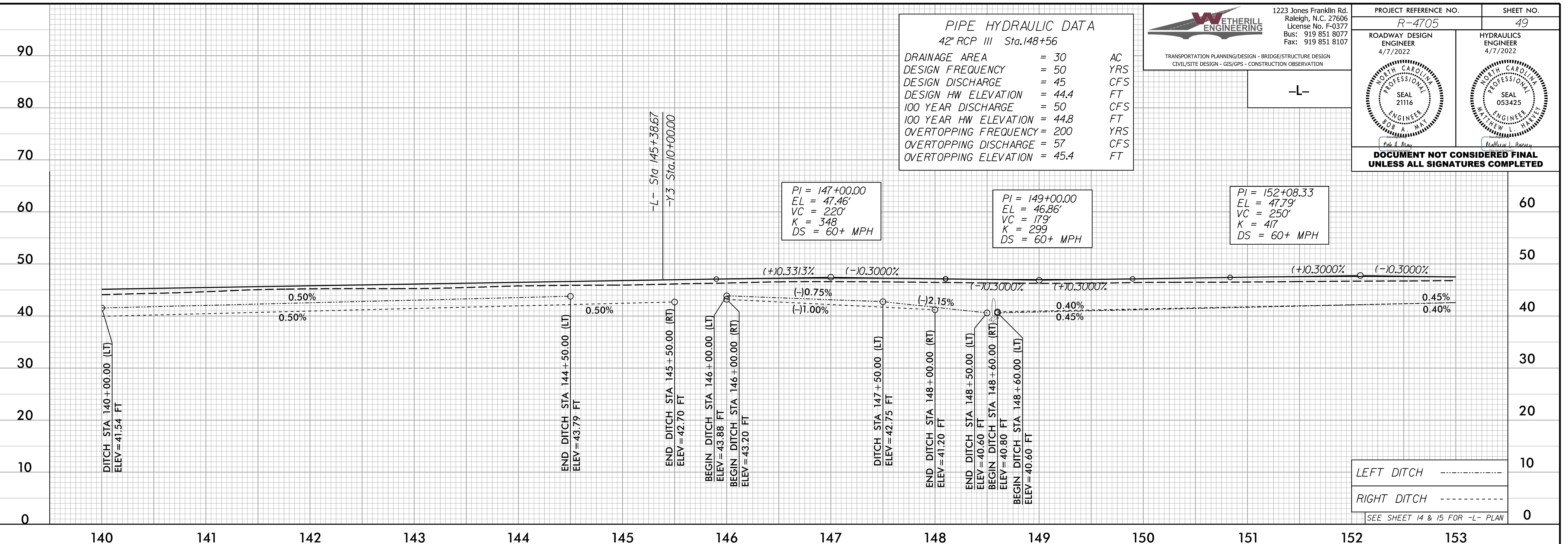
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-4705	SHEET NO. 49
ROADWAY DESIGN ENGINEER 4/7/2022	HYDRAULICS ENGINEER 4/7/2022

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

PIPE HYDRAULIC DATA
42" RCP III Sta.148+56

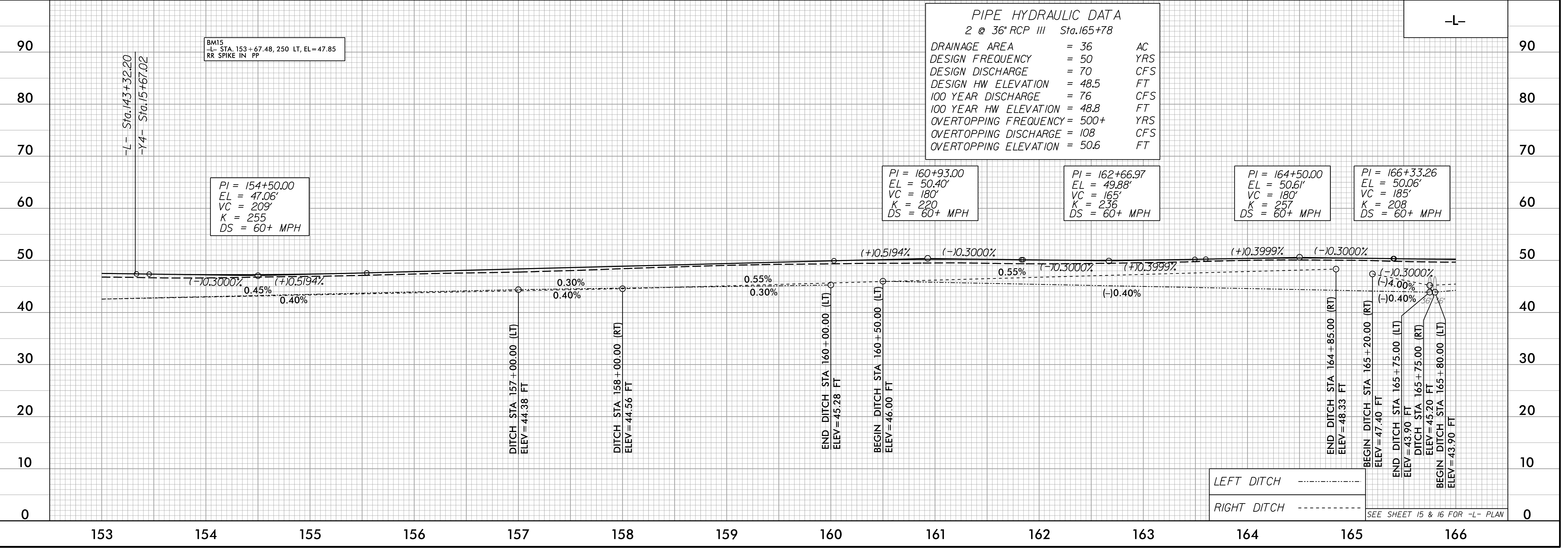
DRAINAGE AREA	= 30	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 45	CFS
DESIGN HW ELEVATION	= 44.4	FT
100 YEAR DISCHARGE	= 50	CFS
100 YEAR HW ELEVATION	= 44.8	FT
OVERTOPPING FREQUENCY	= 200	YRS
OVERTOPPING DISCHARGE	= 57	CFS
OVERTOPPING ELEVATION	= 45.4	FT



LEFT DITCH -----
RIGHT DITCH -----
SEE SHEET 14 & 15 FOR -L- PLAN

PIPE HYDRAULIC DATA
2 @ 36" RCP III Sta.165+78

DRAINAGE AREA	= 36	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 70	CFS
DESIGN HW ELEVATION	= 48.5	FT
100 YEAR DISCHARGE	= 76	CFS
100 YEAR HW ELEVATION	= 48.8	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 108	CFS
OVERTOPPING ELEVATION	= 50.6	FT



LEFT DITCH -----
RIGHT DITCH -----
SEE SHEET 15 & 16 FOR -L- PLAN

3/16/2022 R4705_Rdy_psh_49_PFL.dgn
JUS:RMB