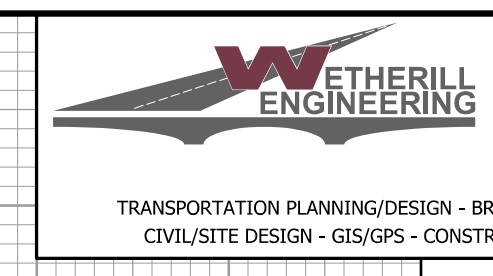


5/28/22

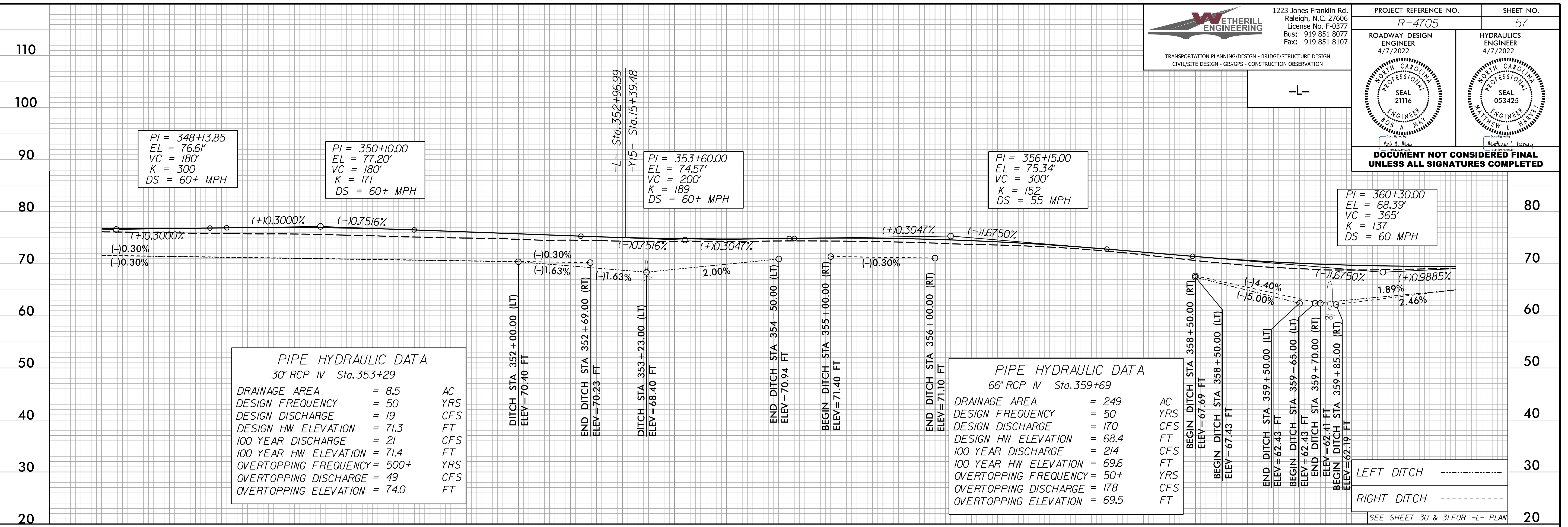


1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

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

PROJECT REFERENCE NO. R-4705	SHEET NO. 57
ROADWAY DESIGN ENGINEER 4/7/2022 	HYDRAULICS ENGINEER 4/7/2022

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PIPE HYDRAULIC DATA
30" RCP IV Sta. 353+29

DRAINAGE AREA	= 8.5	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 19	CFS
DESIGN HW ELEVATION	= 71.3	FT
100 YEAR DISCHARGE	= 21	CFS
100 YEAR HW ELEVATION	= 71.4	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 49	CFS
OVERTOPPING ELEVATION	= 74.0	FT

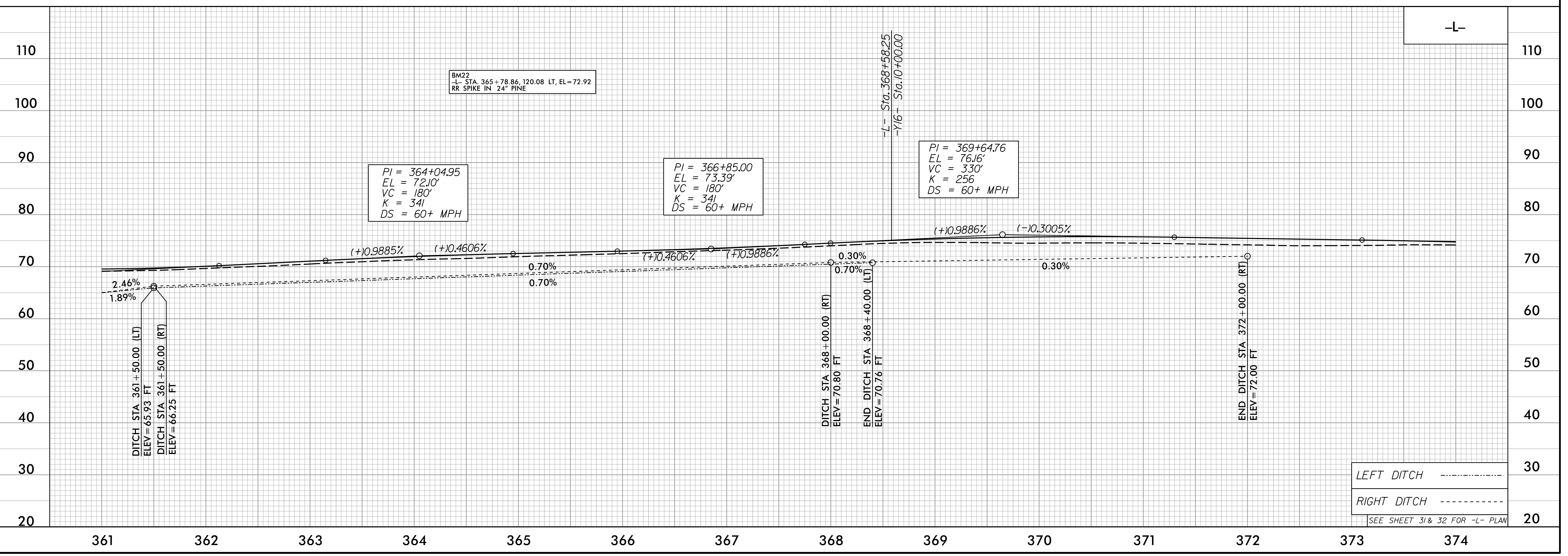
PIPE HYDRAULIC DATA
66" RCP IV Sta. 359+69

DRAINAGE AREA	= 249	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 170	CFS
DESIGN HW ELEVATION	= 68.4	FT
100 YEAR DISCHARGE	= 214	CFS
100 YEAR HW ELEVATION	= 69.6	FT
OVERTOPPING FREQUENCY	= 50+	YRS
OVERTOPPING DISCHARGE	= 178	CFS
OVERTOPPING ELEVATION	= 69.5	FT

LEFT DITCH -----

RIGHT DITCH -----

SEE SHEET 30 & 31 FOR -L- PLAN



PI = 364+04.95
EL = 72.10'
VC = 180'
K = 341
DS = 60+ MPH

PI = 366+85.00
EL = 73.39'
VC = 180'
K = 341
DS = 60+ MPH

PI = 369+64.76
EL = 76.16'
VC = 330'
K = 256
DS = 60+ MPH

LEFT DITCH -----

RIGHT DITCH -----

SEE SHEET 31 & 32 FOR -L- PLAN

3/16/2022 R4705_Rdy_psh_57_PFL.dgn
JUSE:RAM