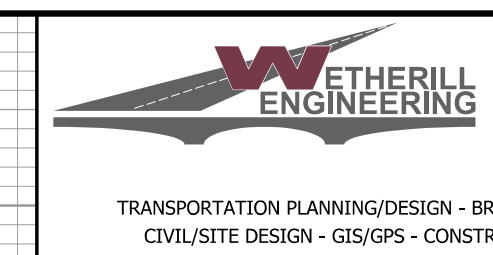


5/28/99



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

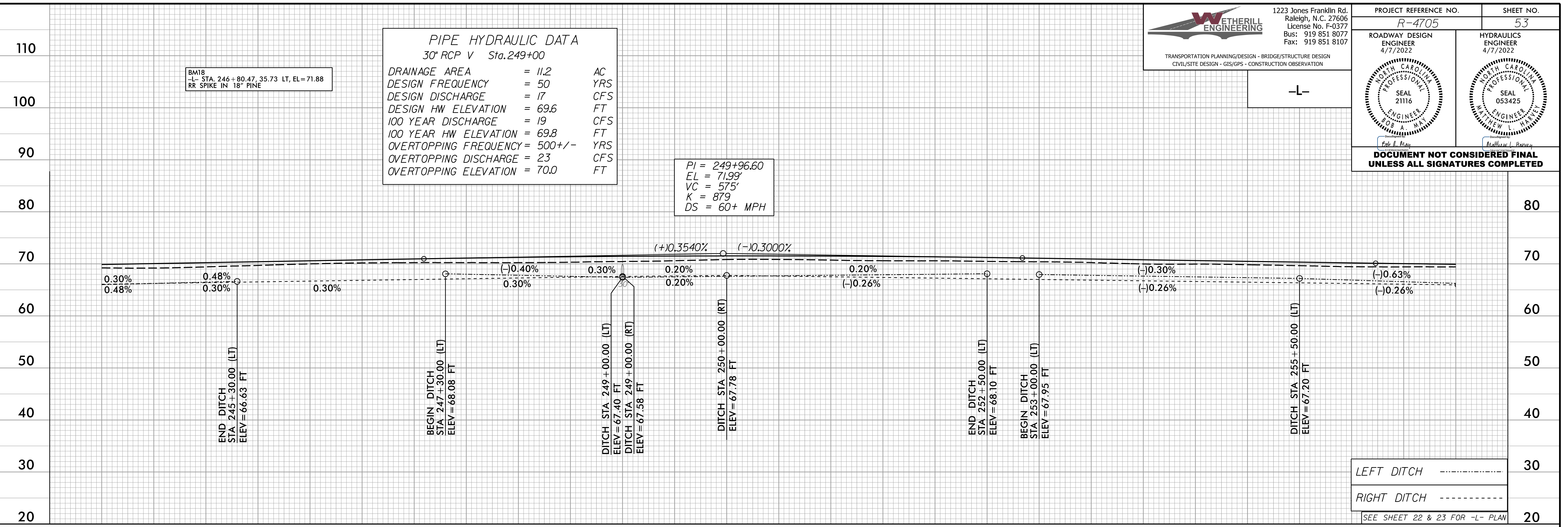
PROJECT REFERENCE NO. R-4705		SHEET NO. 53
ROADWAY DESIGN ENGINEER 4/7/2022	HYDRAULICS ENGINEER 4/7/2022	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

PIPE HYDRAULIC DATA
30" RCP V Sta.249+00

DRAINAGE AREA	= 11.2	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 17	CFS
DESIGN HW ELEVATION	= 69.6	FT
100 YEAR DISCHARGE	= 19	CFS
100 YEAR HW ELEVATION	= 69.8	FT
OVERTOPPING FREQUENCY	= 500+/-	YRS
OVERTOPPING DISCHARGE	= 23	CFS
OVERTOPPING ELEVATION	= 70.0	FT

PI = 249+96.60
EL = 71.99'
VC = 575'
K = 879
DS = 60+ MPH

BM18
-L- STA. 246+80.47, 35.73 LT, EL=71.88
RR SPIKE IN 18" PINE



LEFT DITCH -----
RIGHT DITCH -----
SEE SHEET 22 & 23 FOR -L- PLAN

PIPE HYDRAULIC DATA
2 @ 18" RCP V Sta.257+05

DRAINAGE AREA	= 9	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 13	CFS
DESIGN HW ELEVATION	= 67.7	FT
100 YEAR DISCHARGE	= 15	CFS
100 YEAR HW ELEVATION	= 67.9	FT
OVERTOPPING FREQUENCY	= 200+	YRS
OVERTOPPING DISCHARGE	= 17	CFS
OVERTOPPING ELEVATION	= 70.5	FT

PIPE HYDRAULIC DATA
30" RCP IV Sta.267+15

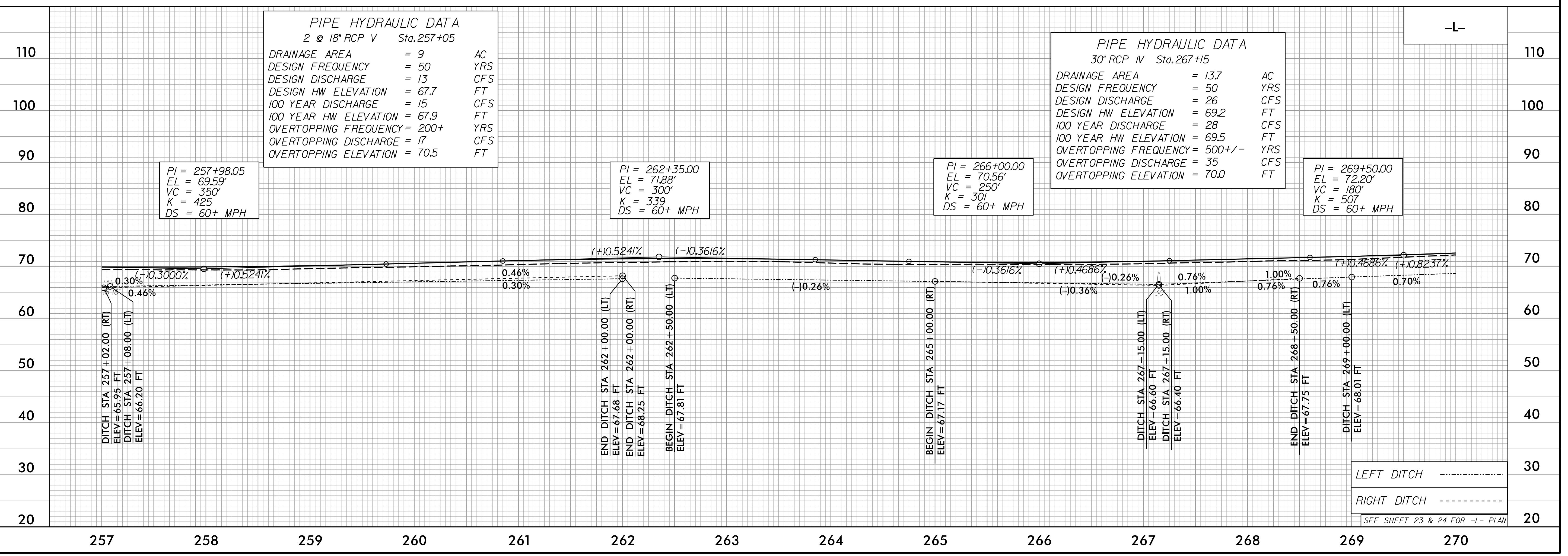
DRAINAGE AREA	= 13.7	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 26	CFS
DESIGN HW ELEVATION	= 69.2	FT
100 YEAR DISCHARGE	= 28	CFS
100 YEAR HW ELEVATION	= 69.5	FT
OVERTOPPING FREQUENCY	= 500+/-	YRS
OVERTOPPING DISCHARGE	= 35	CFS
OVERTOPPING ELEVATION	= 70.0	FT

PI = 257+98.05
EL = 69.59'
VC = 350'
K = 425
DS = 60+ MPH

PI = 262+35.00
EL = 71.88'
VC = 300'
K = 339
DS = 60+ MPH

PI = 266+00.00
EL = 70.56'
VC = 250'
K = 301
DS = 60+ MPH

PI = 269+50.00
EL = 72.20'
VC = 180'
K = 507
DS = 60+ MPH



LEFT DITCH -----
RIGHT DITCH -----
SEE SHEET 23 & 24 FOR -L- PLAN

3/16/2022 R4705_Rdy_psh_53_PFL.dgn
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