

5/28/19

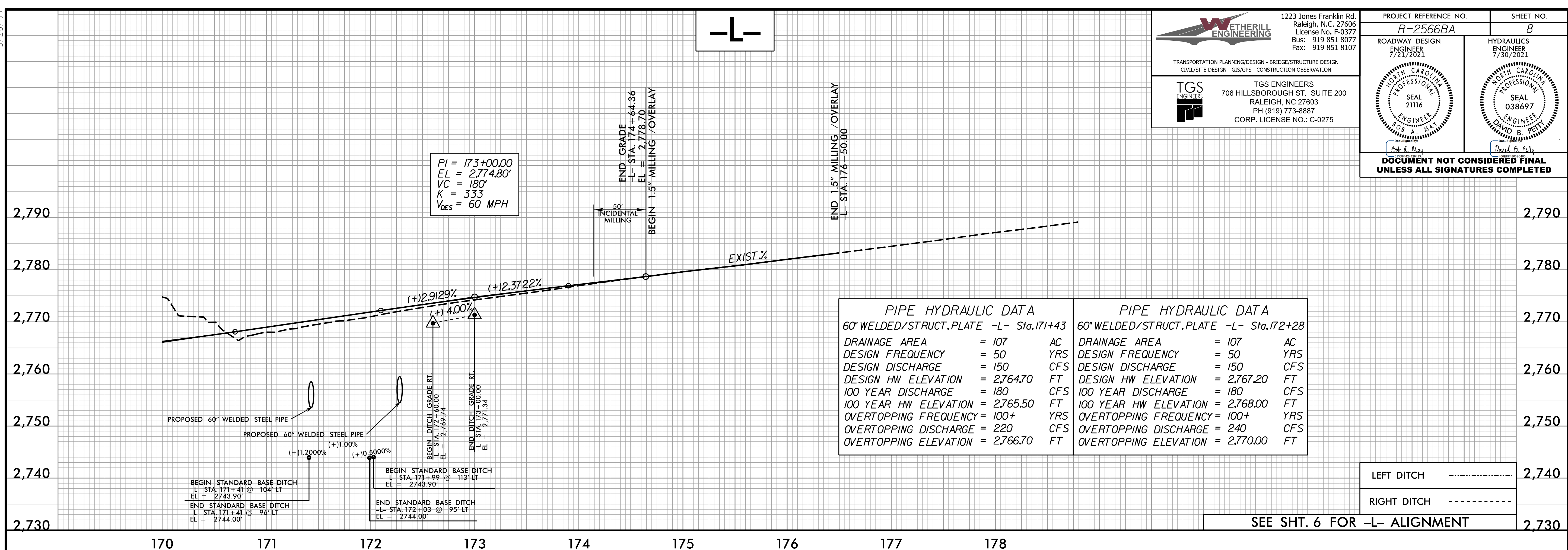
-L-

WETHERILL ENGINEERING
 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

TGS ENGINEERS
 TGS ENGINEERS
 706 HILLSBOROUGH ST., SUITE 200
 RALEIGH, NC 27603
 PH (919) 773-8887
 CORP. LICENSE NO.: C-0275

PROJECT REFERENCE NO. R-2566BA	SHEET NO. 8
ROADWAY DESIGN ENGINEER 7/23/2021	HYDRAULICS ENGINEER 7/30/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



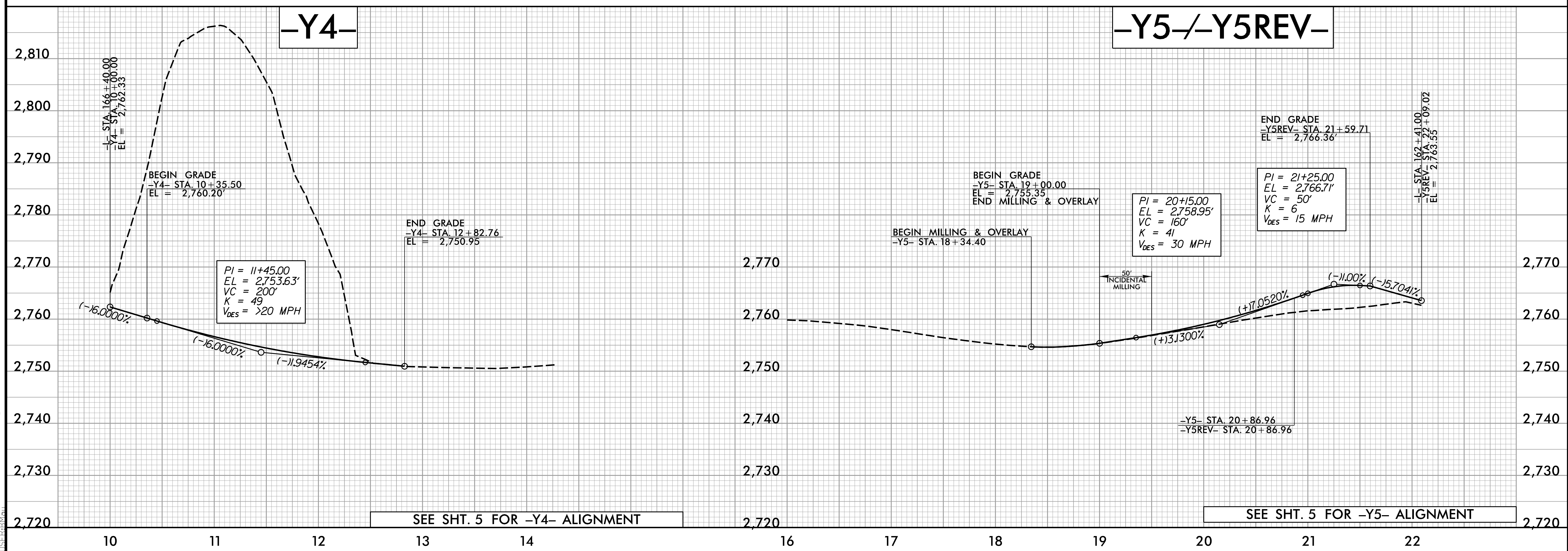
PIPE HYDRAULIC DATA		PIPE HYDRAULIC DATA	
60" WELDED/STRUCT.PLATE -L- Sta.171+43		60" WELDED/STRUCT.PLATE -L- Sta.172+28	
DRAINAGE AREA	= 107 AC	DRAINAGE AREA	= 107 AC
DESIGN FREQUENCY	= 50 YRS	DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 150 CFS	DESIGN DISCHARGE	= 150 CFS
DESIGN HW ELEVATION	= 2764.70 FT	DESIGN HW ELEVATION	= 2767.20 FT
100 YEAR DISCHARGE	= 180 CFS	100 YEAR DISCHARGE	= 180 CFS
100 YEAR HW ELEVATION	= 2765.50 FT	100 YEAR HW ELEVATION	= 2768.00 FT
OVERTOPPING FREQUENCY	= 100+ YRS	OVERTOPPING FREQUENCY	= 100+ YRS
OVERTOPPING DISCHARGE	= 220 CFS	OVERTOPPING DISCHARGE	= 240 CFS
OVERTOPPING ELEVATION	= 2766.70 FT	OVERTOPPING ELEVATION	= 2770.00 FT

LEFT DITCH ----- 2,740

RIGHT DITCH ----- 2,730

SEE SHT. 6 FOR -L- ALIGNMENT

6/27/2021 11:58:10 AM R-2566BA_Rdy_psh_08.plt.dgn



SEE SHT. 5 FOR -Y4- ALIGNMENT

SEE SHT. 5 FOR -Y5- ALIGNMENT