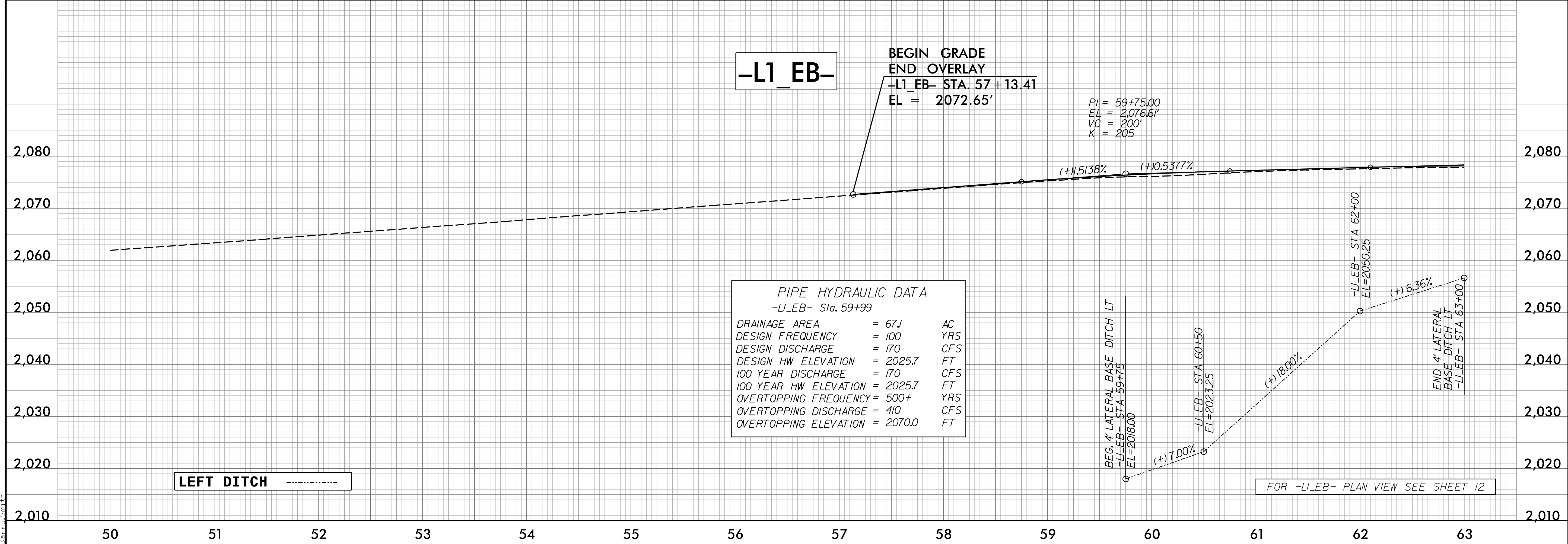


5/28/99

ETHERILL 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

PROJECT REFERENCE NO. 1-2513AA/AB		SHEET NO. 27
ROADWAY DESIGN ENGINEER Barry Smith 2/8/2024	HYDRAULICS ENGINEER Matthew Harvey 2/8/2024	
 KCI ASSOCIATES OF N.C., P.A. 4503 Falls of Noe Road, Suite 400 Raleigh, NC 27609-6270 Phone (919) 783-9214 NC Firm License No. C-0764		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



PIPE HYDRAULIC DATA		
-L1_EB- Sta. 59+99		
DRAINAGE AREA	= 67.1	AC
DESIGN FREQUENCY	= 100	YRS
DESIGN DISCHARGE	= 170	CFS
DESIGN HW ELEVATION	= 2025.7	FT
100 YEAR DISCHARGE	= 170	CFS
100 YEAR HW ELEVATION	= 2025.7	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 410	CFS
OVERTOPPING ELEVATION	= 2070.0	FT

9/5/2023
12:51:30
Barry Smith