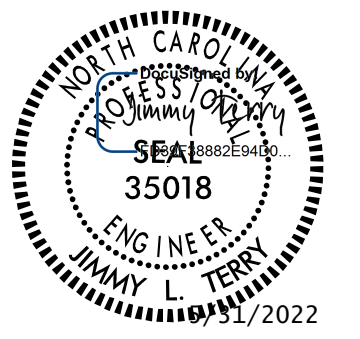
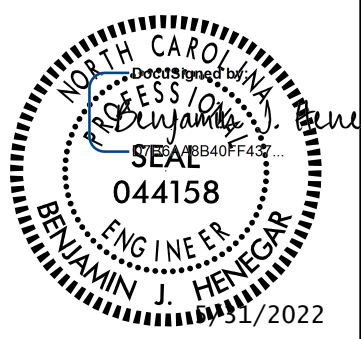
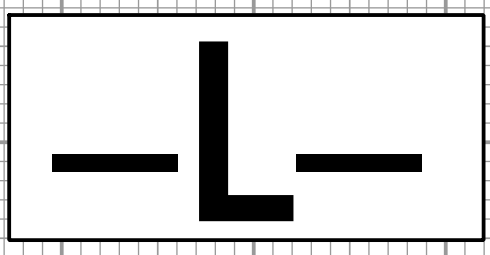


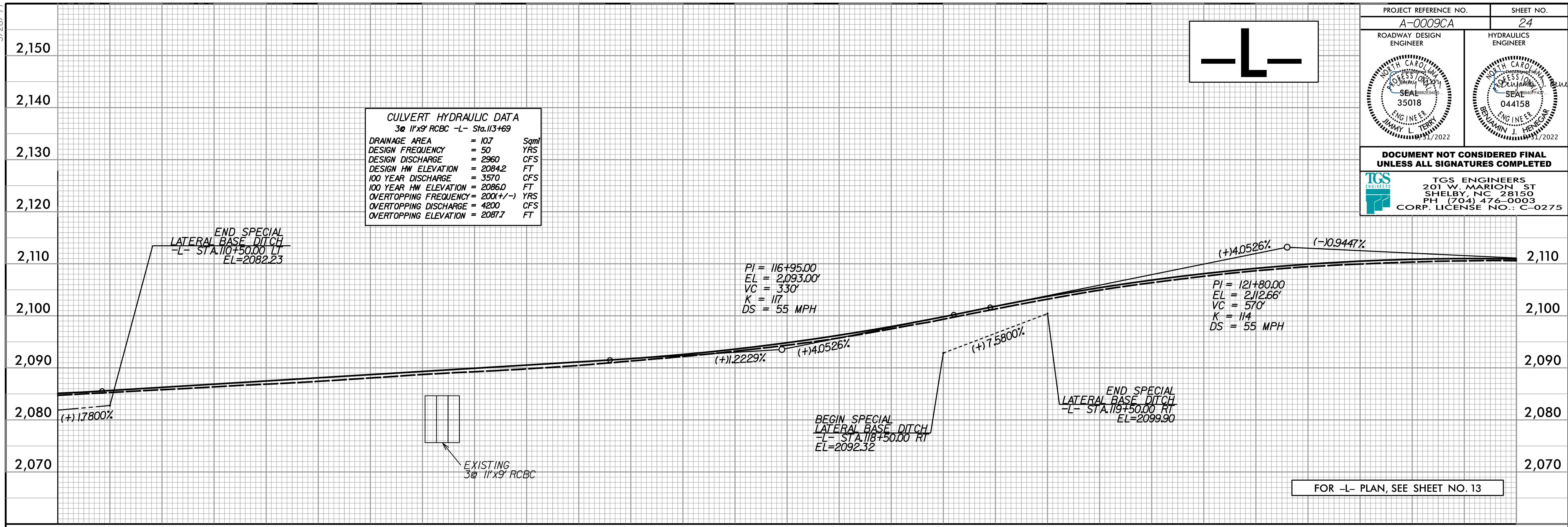
5/28/24

PROJECT REFERENCE NO. A-0009CA	SHEET NO. 24
ROADWAY DESIGN ENGINEER 35018	HYDRAULICS ENGINEER 044158
 	
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	
<p>TGS ENGINEERS 201 W. MARION ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275</p>	



CULVERT HYDRAULIC DATA
3@ 11'x9' RCBC -L- Sta.113+69

DRAINAGE AREA	= 107	Sqmi
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 2960	CFS
DESIGN HW ELEVATION	= 2084.2	FT
100 YEAR DISCHARGE	= 3570	CFS
100 YEAR HW ELEVATION	= 2086.0	FT
OVERTOPPING FREQUENCY	= 200(+/-)	YRS
OVERTOPPING DISCHARGE	= 4200	CFS
OVERTOPPING ELEVATION	= 2087.7	FT



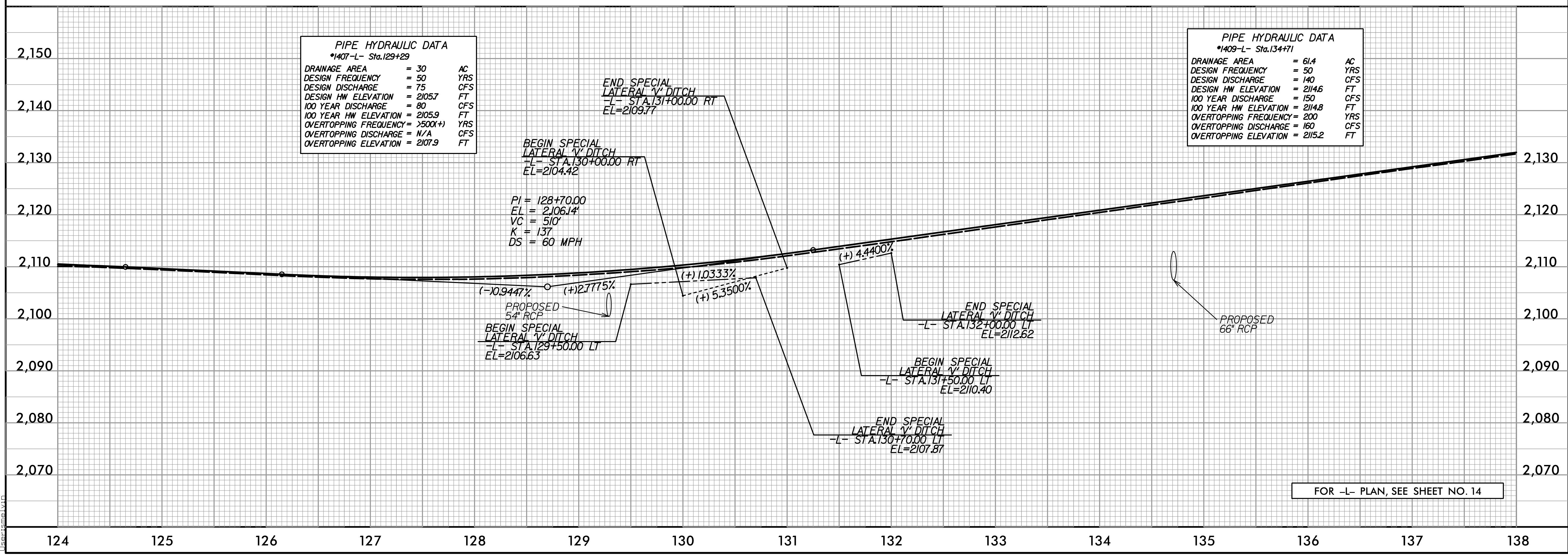
FOR -L- PLAN, SEE SHEET NO. 13

PIPE HYDRAULIC DATA
*1407-L- Sta.129+29

DRAINAGE AREA	= 30	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 75	CFS
DESIGN HW ELEVATION	= 2105.7	FT
100 YEAR DISCHARGE	= 80	CFS
100 YEAR HW ELEVATION	= 2105.9	FT
OVERTOPPING FREQUENCY	= >500(+)	YRS
OVERTOPPING DISCHARGE	= N/A	CFS
OVERTOPPING ELEVATION	= 2107.9	FT

PIPE HYDRAULIC DATA
*1409-L- Sta.134+71

DRAINAGE AREA	= 61.4	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 140	CFS
DESIGN HW ELEVATION	= 2114.6	FT
100 YEAR DISCHARGE	= 150	CFS
100 YEAR HW ELEVATION	= 2114.8	FT
OVERTOPPING FREQUENCY	= 200	YRS
OVERTOPPING DISCHARGE	= 160	CFS
OVERTOPPING ELEVATION	= 2115.2	FT



FOR -L- PLAN, SEE SHEET NO. 14

5/10/2024 A-0009CA-0009CA-0009CA Plan Sheets\A-0009CA_Rdy_pfl_Sheets.dgn