

5/28/21

PROJECT REFERENCE NO. 1-5883	SHEET NO. 119
ROADWAY DESIGN ENGINEER SUSAN C. LANCASTER SEAL 027373 SOUTH CAROLINA PROFESSIONAL ENGINEERS 5/11/2021	HYDRAULICS ENGINEER JOSHUA G. DIXON SEAL 26971 SOUTH CAROLINA PROFESSIONAL ENGINEERS 5/11/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Michael Baker Engineering, Inc. 8000 Regency Pkwy Suite 600 Charlotte, NC 27218 MIC ECA No. C-2890	SUNGATE DESIGN GROUP, P.A. 105 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27601 MIC ECA No. C-2890

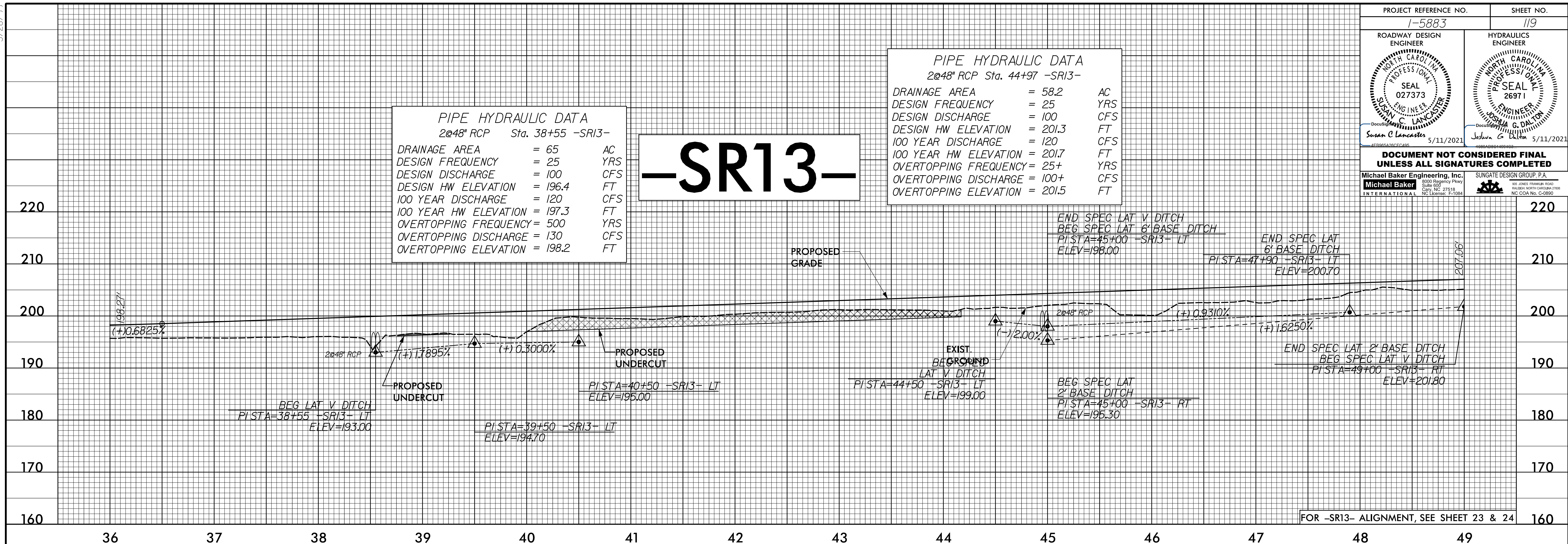
**PIPE HYDRAULIC DATA**  
2@48" RCP Sta. 38+55 -SR13-

DRAINAGE AREA	= 65	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 100	CFS
DESIGN HW ELEVATION	= 196.4	FT
100 YEAR DISCHARGE	= 120	CFS
100 YEAR HW ELEVATION	= 197.3	FT
OVERTOPPING FREQUENCY	= 500	YRS
OVERTOPPING DISCHARGE	= 130	CFS
OVERTOPPING ELEVATION	= 198.2	FT

# -SR13-

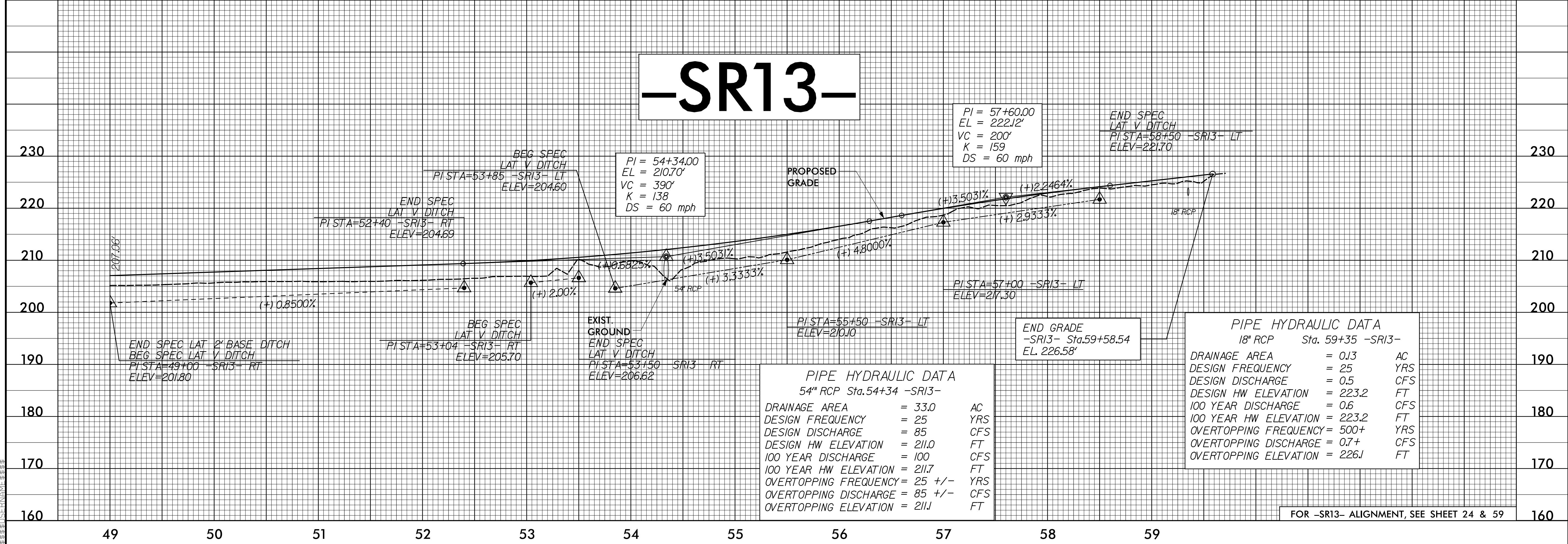
**PIPE HYDRAULIC DATA**  
2@48" RCP Sta. 44+97 -SR13-

DRAINAGE AREA	= 58.2	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 100	CFS
DESIGN HW ELEVATION	= 201.3	FT
100 YEAR DISCHARGE	= 120	CFS
100 YEAR HW ELEVATION	= 201.7	FT
OVERTOPPING FREQUENCY	= 25+	YRS
OVERTOPPING DISCHARGE	= 100+	CFS
OVERTOPPING ELEVATION	= 201.5	FT



FOR -SR13- ALIGNMENT, SEE SHEET 23 & 24

# -SR13-



**PIPE HYDRAULIC DATA**  
54" RCP Sta. 54+34 -SR13-

DRAINAGE AREA	= 33.0	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 85	CFS
DESIGN HW ELEVATION	= 211.0	FT
100 YEAR DISCHARGE	= 100	CFS
100 YEAR HW ELEVATION	= 211.7	FT
OVERTOPPING FREQUENCY	= 25 +/-	YRS
OVERTOPPING DISCHARGE	= 85 +/-	CFS
OVERTOPPING ELEVATION	= 211.1	FT

**PIPE HYDRAULIC DATA**  
18" RCP Sta. 59+35 -SR13-

DRAINAGE AREA	= 0.13	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 0.5	CFS
DESIGN HW ELEVATION	= 223.2	FT
100 YEAR DISCHARGE	= 0.6	CFS
100 YEAR HW ELEVATION	= 223.2	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 0.7+	CFS
OVERTOPPING ELEVATION	= 226.1	FT

FOR -SR13- ALIGNMENT, SEE SHEET 24 & 59

1-MAY-2021 11:56 AM  
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