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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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
I-5987B	98

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL ENGINEER ROB A. MAIS
DocuSigned by: Rob A. Mais
5/1/2022
WETHERILL ENGINEERING, LLC LICENSE NO. F-0337

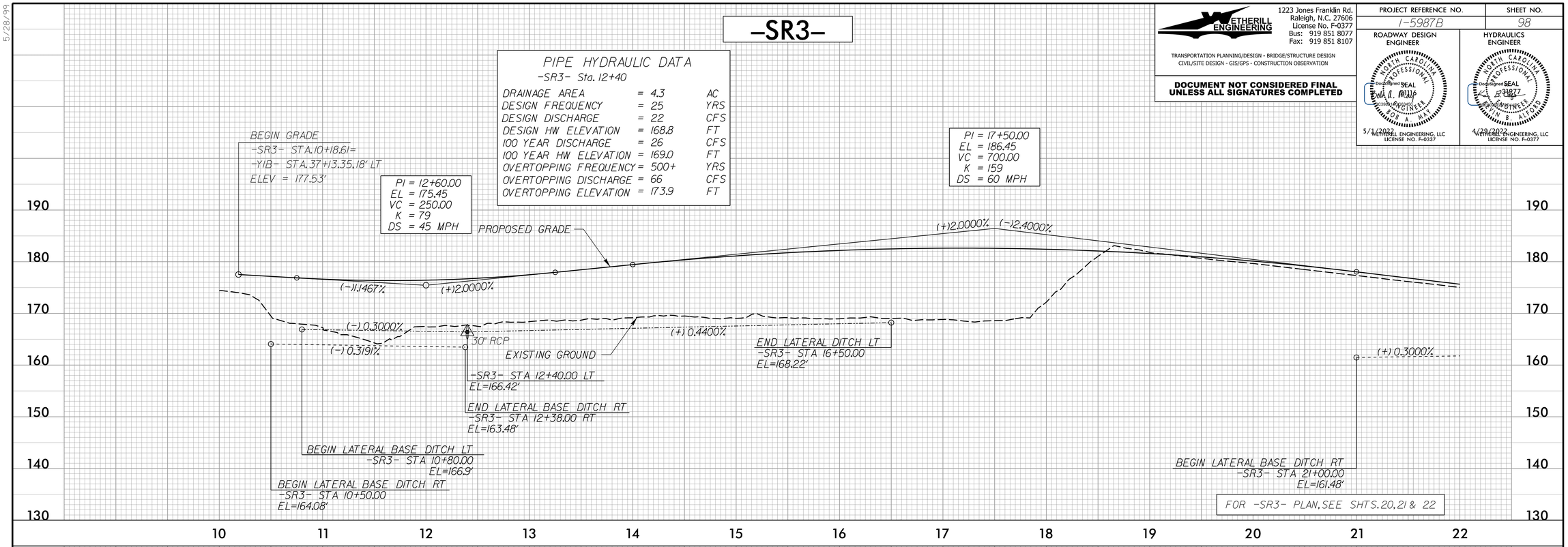
HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 019277 ENGINEER BRIAN B. ALFORD
DocuSigned by: Brian B. Alford
4/29/2022
WETHERILL ENGINEERING, LLC LICENSE NO. F-0377

5/28/99

-SR3-

PIPE HYDRAULIC DATA
-SR3- Sta. 12+40

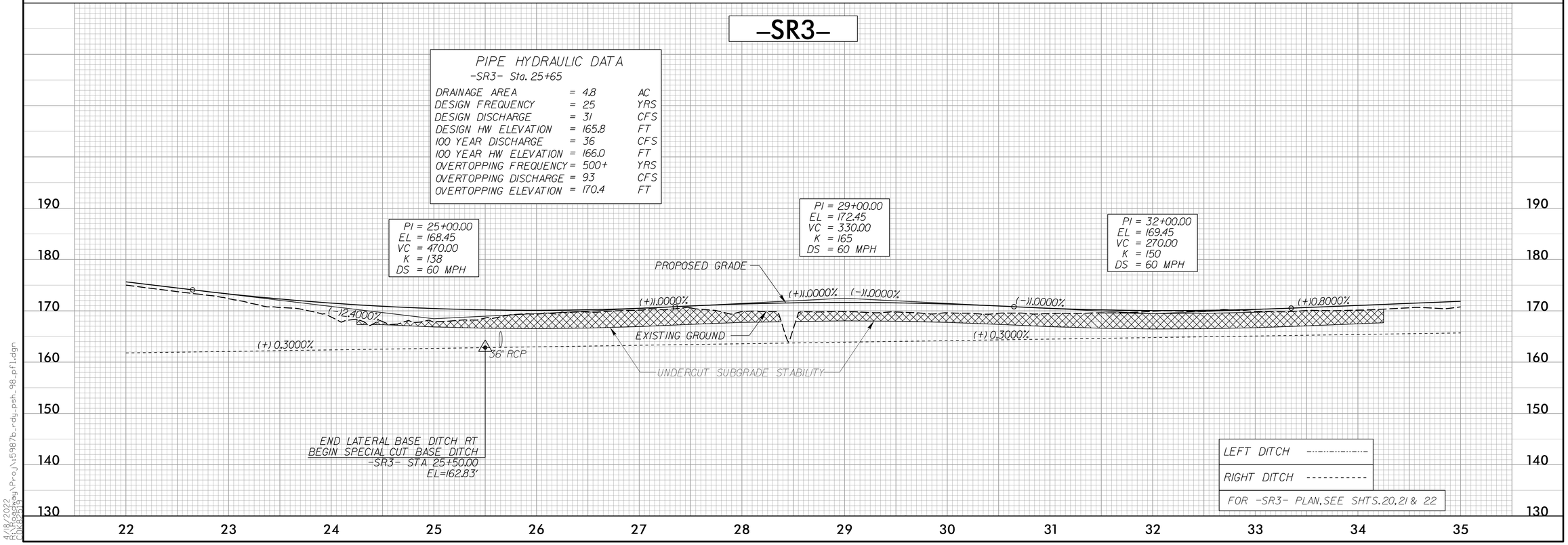
DRAINAGE AREA	= 4.3	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 22	CFS
DESIGN HW ELEVATION	= 168.8	FT
100 YEAR DISCHARGE	= 26	CFS
100 YEAR HW ELEVATION	= 169.0	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 66	CFS
OVERTOPPING ELEVATION	= 173.9	FT



-SR3-

PIPE HYDRAULIC DATA
-SR3- Sta. 25+65

DRAINAGE AREA	= 4.8	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 31	CFS
DESIGN HW ELEVATION	= 165.8	FT
100 YEAR DISCHARGE	= 36	CFS
100 YEAR HW ELEVATION	= 166.0	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 93	CFS
OVERTOPPING ELEVATION	= 170.4	FT



4/18/2022
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