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8/17/99

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STV Engineers, Inc.
2151 Hawkins Street, Suite 1400
Charlotte, NC 28203
NC License Number F-0991

PROFILE (HORIZONTAL) 20 10 0 20 40

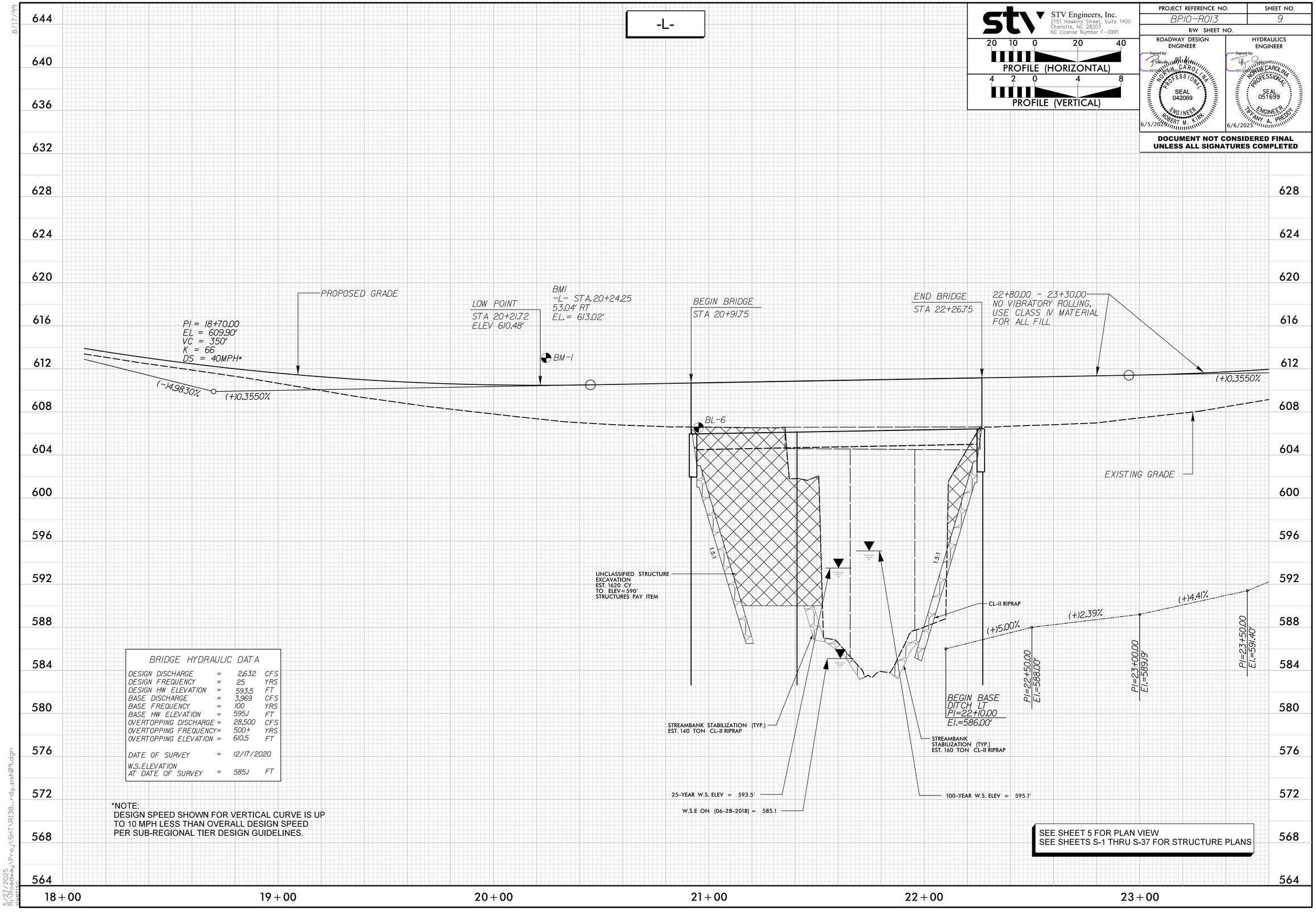
PROFILE (VERTICAL) 4 2 0 4 8

PROJECT REFERENCE NO.	SHEET NO.
BP10-R013	9
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
Signed by: [signature] 8910D0F0A1A4A1...
NORTH CAROLINA PROFESSIONAL SEAL 042069 ENGINEER ROBERT M. KIRK
6/5/2025

HYDRAULICS ENGINEER
Signed by: [signature] 85C4A1A1F1A1A1...
NORTH CAROLINA PROFESSIONAL SEAL 051699 ENGINEER BRITANY A. PREDDY
6/6/2025

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	=	2,632	CFS
DESIGN FREQUENCY	=	25	YRS
DESIGN HW ELEVATION	=	593.5	FT
BASE DISCHARGE	=	3,969	CFS
BASE FREQUENCY	=	100	YRS
BASE HW ELEVATION	=	595.1	FT
OVERTOPPING DISCHARGE	=	28,500	CFS
OVERTOPPING FREQUENCY	=	500+	YRS
OVERTOPPING ELEVATION	=	610.5	FT
DATE OF SURVEY	=	12/17/2020	
W.S.ELEVATION AT DATE OF SURVEY	=	585.1	FT

*NOTE:
DESIGN SPEED SHOWN FOR VERTICAL CURVE IS UP TO 10 MPH LESS THAN OVERALL DESIGN SPEED PER SUB-REGIONAL TIER DESIGN GUIDELINES.

SEE SHEET 5 FOR PLAN VIEW
SEE SHEETS S-1 THRU S-37 FOR STRUCTURE PLANS

8/27/2025
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Overscale