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5/28/99

Prepared in the Office of: SUMMIT DESIGN AND ENGINEERING SERVICES
NC FIRM LICENSE No: P-0339
504 Meadowlands Drive
Hillsborough, NC 27278
(919) 732-3883
(919) 732-6676 (FAX)

PROJECT REFERENCE NO.	SHEET NO.
17BP.R.8.113	5

ROADWAY DESIGN ENGINEER
2/21/2017
NORTH CAROLINA PROFESSIONAL SEAL 034371 ENGINEER BRANDON W. JOHNSON
DocuSigned by: Brandon W. Johnson
6A2B4A4A9A7D...

HYDRAULICS ENGINEER
2/22/2017
NORTH CAROLINA PROFESSIONAL SEAL 040744 ENGINEER JAMES A. CROUSE
DocuSigned by: James A. Crouse
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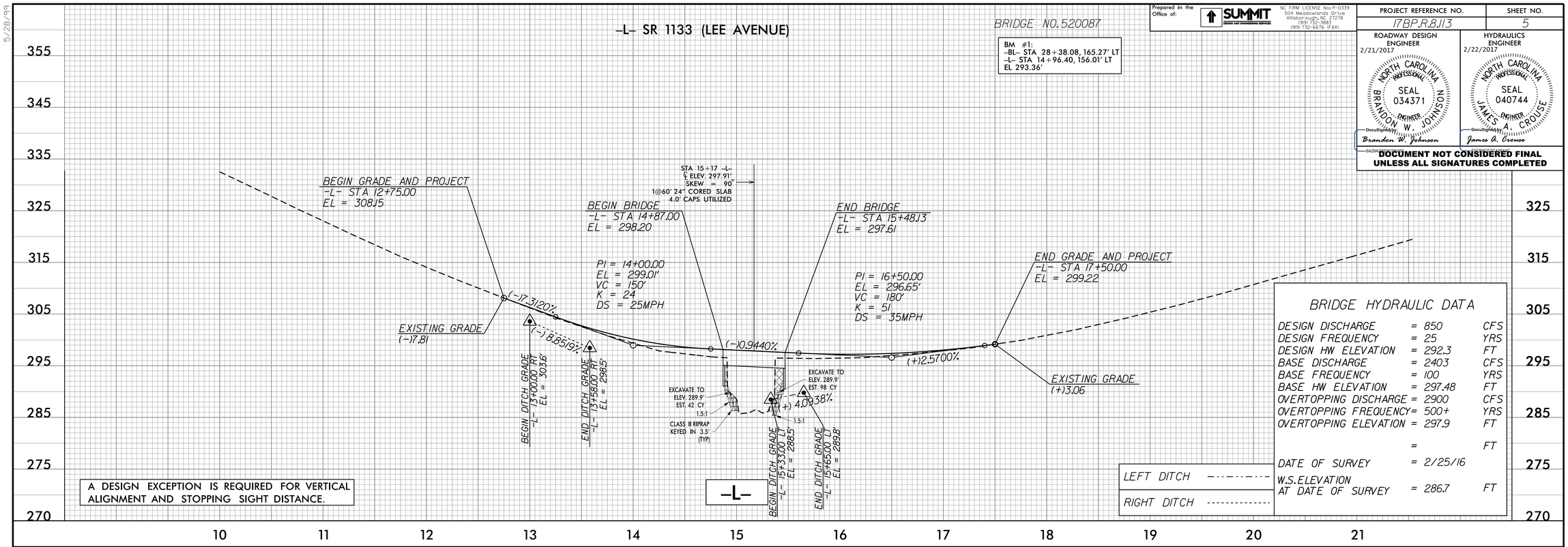
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-L- SR 1133 (LEE AVENUE)

BRIDGE NO. 520087

BM #1:
-BL- STA 28+38.08, 165.27' LT
-L- STA 14+96.40, 156.01' LT
EL 293.36'

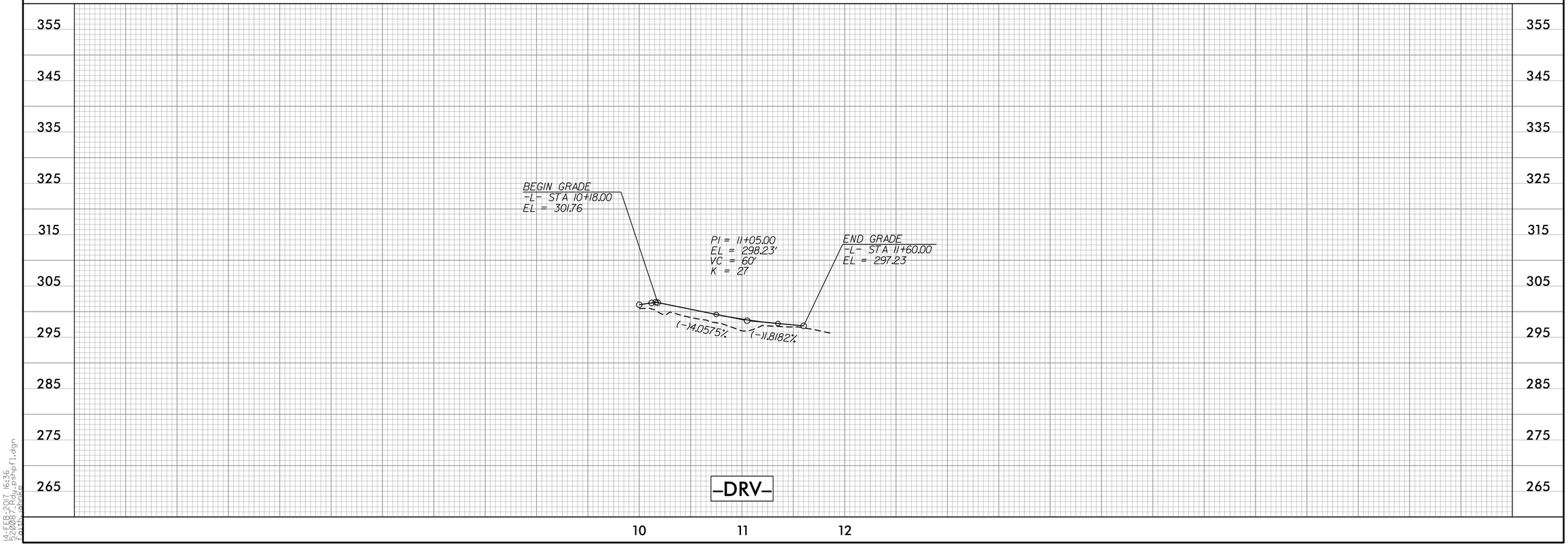


A DESIGN EXCEPTION IS REQUIRED FOR VERTICAL ALIGNMENT AND STOPPING SIGHT DISTANCE.

LEFT DITCH -·-·-·-·-
RIGHT DITCH ----------

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 850	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 292.3	FT
BASE DISCHARGE	= 2403	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 297.48	FT
OVERTOPPING DISCHARGE	= 2900	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 297.9	FT
	=	FT
DATE OF SURVEY	= 2/25/16	
W.S. ELEVATION AT DATE OF SURVEY	= 286.7	FT



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Patty Jenkins