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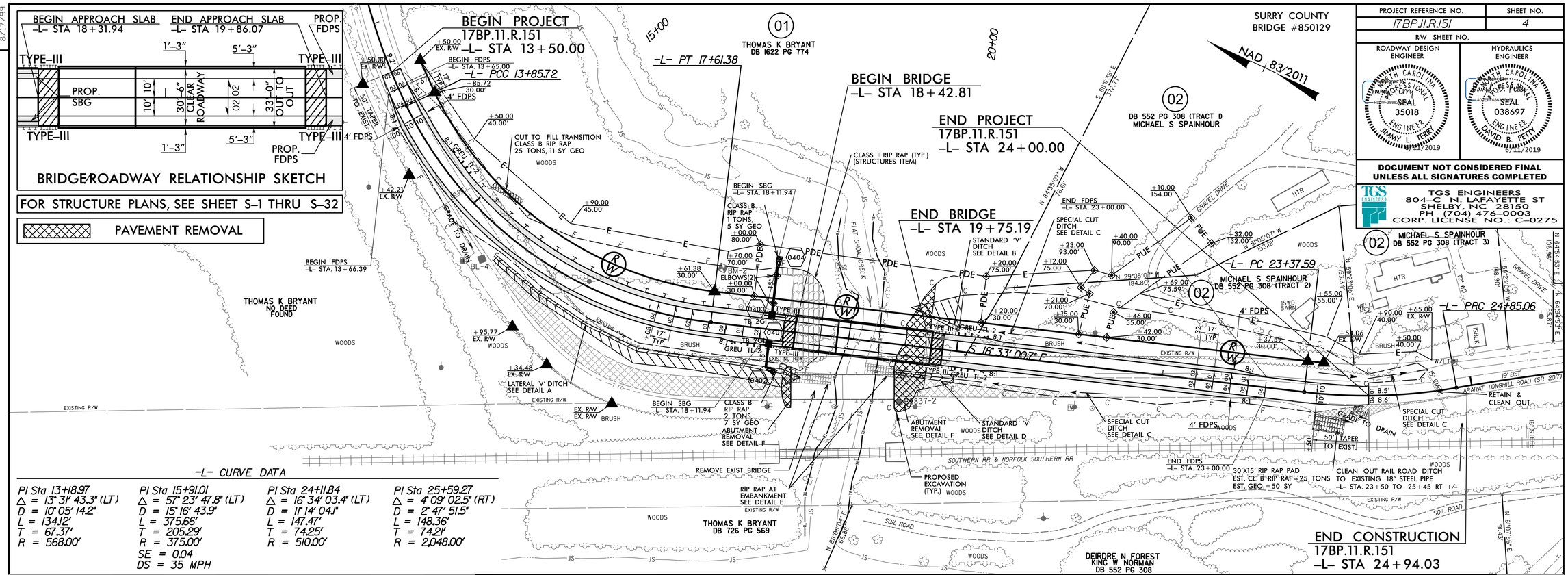
PROJECT REFERENCE NO.	SHEET NO.
17BP.11.R.151	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 35018 ENGINEER JIMMY L. TERRY 6/11/2019	NORTH CAROLINA PROFESSIONAL SEAL 038697 ENGINEER DAVID B. PETTY 6/11/2019

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

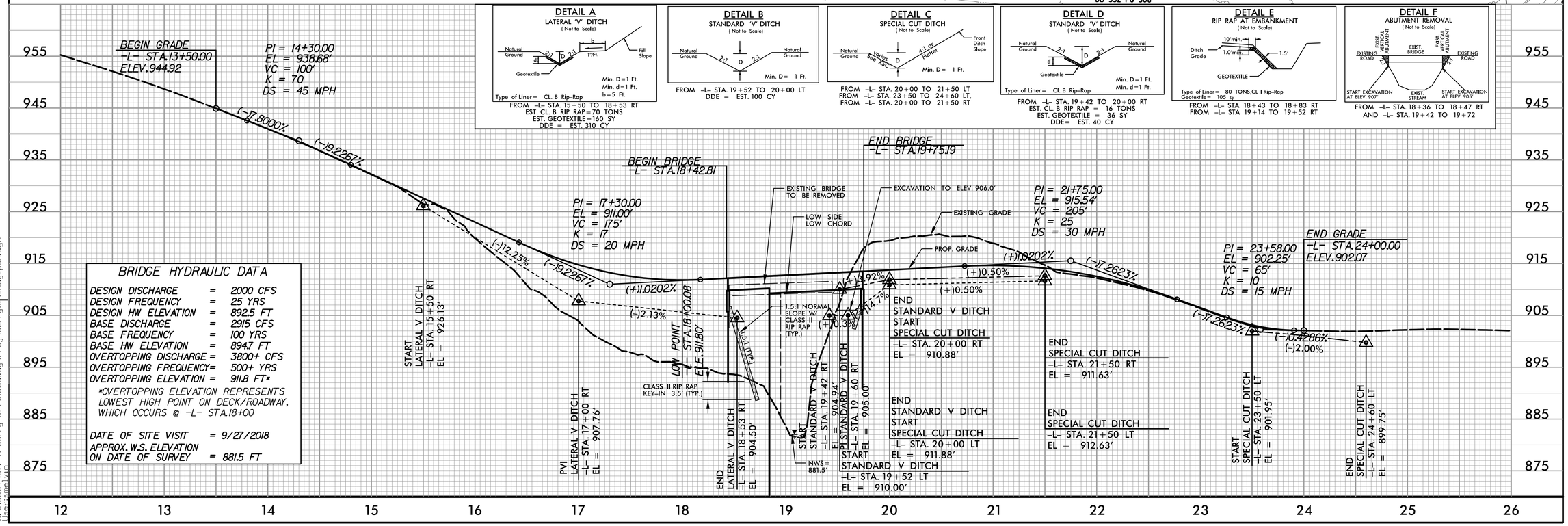
8/17/99

REVISIONS



-L- CURVE DATA

PI Sta 13+18.97	PI Sta 15+91.01	PI Sta 24+11.84	PI Sta 25+59.27
Δ = 13° 31' 43.3" (LT)	Δ = 57° 23' 47.8" (LT)	Δ = 16° 34' 03.4" (LT)	Δ = 4° 09' 02.5" (RT)
D = 10° 05' 14.2"	D = 15° 16' 43.9"	D = 11° 14' 04.1"	D = 2° 47' 51.5"
L = 134.12'	L = 375.66'	L = 147.47'	L = 148.36'
T = 67.37'	T = 205.29'	T = 74.25'	T = 74.21'
R = 568.00'	R = 375.00'	R = 510.00'	R = 2,048.00'
	SE = 0.04		
	DS = 35 MPH		



BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	=	2000 CFS
DESIGN FREQUENCY	=	25 YRS
DESIGN HW ELEVATION	=	892.5 FT
BASE DISCHARGE	=	2915 CFS
BASE FREQUENCY	=	100 YRS
BASE HW ELEVATION	=	894.7 FT
OVERTOPPING DISCHARGE	=	3800+ CFS
OVERTOPPING FREQUENCY	=	500+ YRS
OVERTOPPING ELEVATION	=	911.8 FT*

*OVERTOPPING ELEVATION REPRESENTS LOWEST HIGH POINT ON DECK/ROADWAY, WHICH OCCURS @ -L- STA.18+00

DATE OF SITE VISIT = 9/27/2018
APPROX. W.S. ELEVATION ON DATE OF SURVEY = 881.5 FT

6/10/2019
R:\Roadway\Proj\Surry129_Rdy.psh.dgn