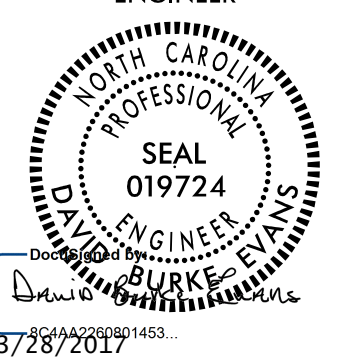

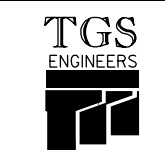
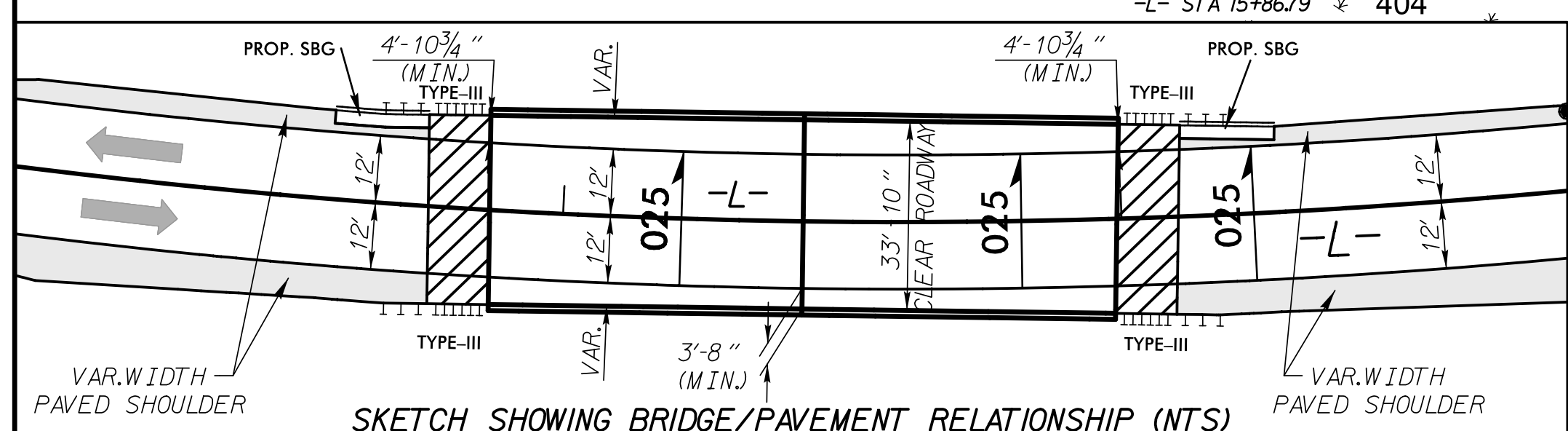
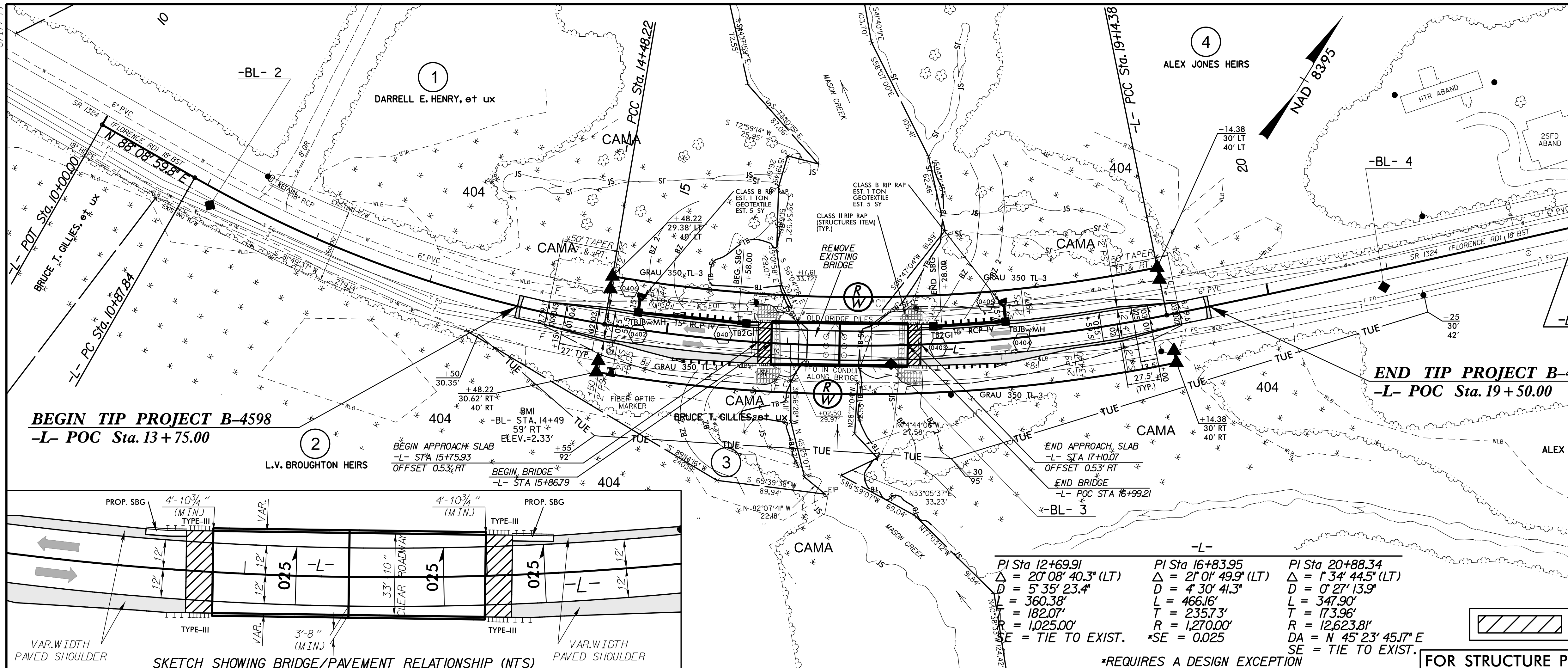
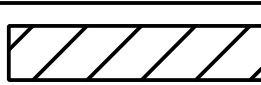


PROJECT REFERENCE NO. B-4598		SHEET NO. 4	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

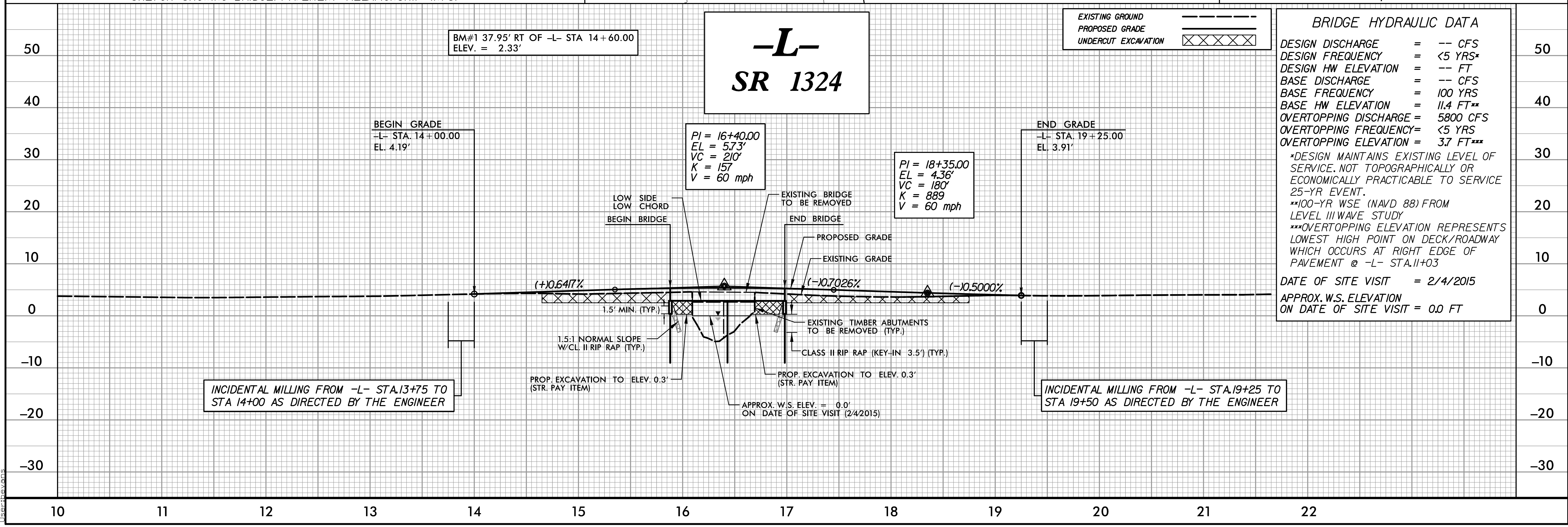


Station	PI	Δ	D	L	R	SE
12+69.91	16+83.95	20' 08" 40.3" (LT)	5' 35" 23.4"	360.38'	182.07'	1,025.00'
16+83.95	20+88.34	21' 01" 49.9" (LT)	4' 30" 41.3"	466.16'	235.73'	1,270.00'
20+88.34		1' 34" 44.5" (LT)	0' 27" 13.9"	347.90'	173.96'	12,623.81'

*REQUIRES A DESIGN EXCEPTION

 **BRIDGE APPROACH SLAB**

FOR STRUCTURE PLANS, SEE SHEET S-1 THRU S-18



BRIDGE HYDRAULIC DATA	
DESIGN DISCHARGE	= -- CFS
DESIGN FREQUENCY	= <5 YRS*
DESIGN HW ELEVATION	= -- FT
BASE DISCHARGE	= -- CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 11.4 FT**
OVERTOPPING DISCHARGE	= 5800 CFS
OVERTOPPING FREQUENCY	= <5 YRS
OVERTOPPING ELEVATION	= 3.7 FT***

*DESIGN MAINTAINS EXISTING LEVEL OF SERVICE. NOT TOPOGRAPHICALLY OR ECONOMICALLY PRACTICABLE TO SERVICE 25-YR EVENT.
 **100-YR WSE (NAVD 88) FROM LEVEL III WAVE STUDY
 ***OVERTOPPING ELEVATION REPRESENTS LOWEST HIGH POINT ON DECK/ROADWAY WHICH OCCURS AT RIGHT EDGE OF PAVEMENT @ -L- STA. 11+03

DATE OF SITE VISIT = 2/4/2015
 APPROX. W.S. ELEVATION ON DATE OF SITE VISIT = 0.0 FT

3/28/2017 B-4598 (Roadway) Proj_N-B-4598_Rdy_psh04.dgn