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8/17/99

REVISIONS

TRANSYLVANIA COUNTY
BRIDGE #870029

PROJECT REFERENCE NO.	SHEET NO.
17BP.14.R.209	4
R/W SHEET NO.	

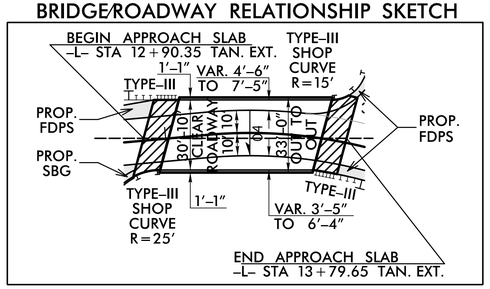
ROADWAY DESIGN ENGINEER: SEAL 35018, ENGINEER, JIMMY L. TERRY, 7/23/2019

HYDRAULICS ENGINEER: SEAL 036194, ENGINEER, THOMAS L. FLETCHER, 7/23/2019

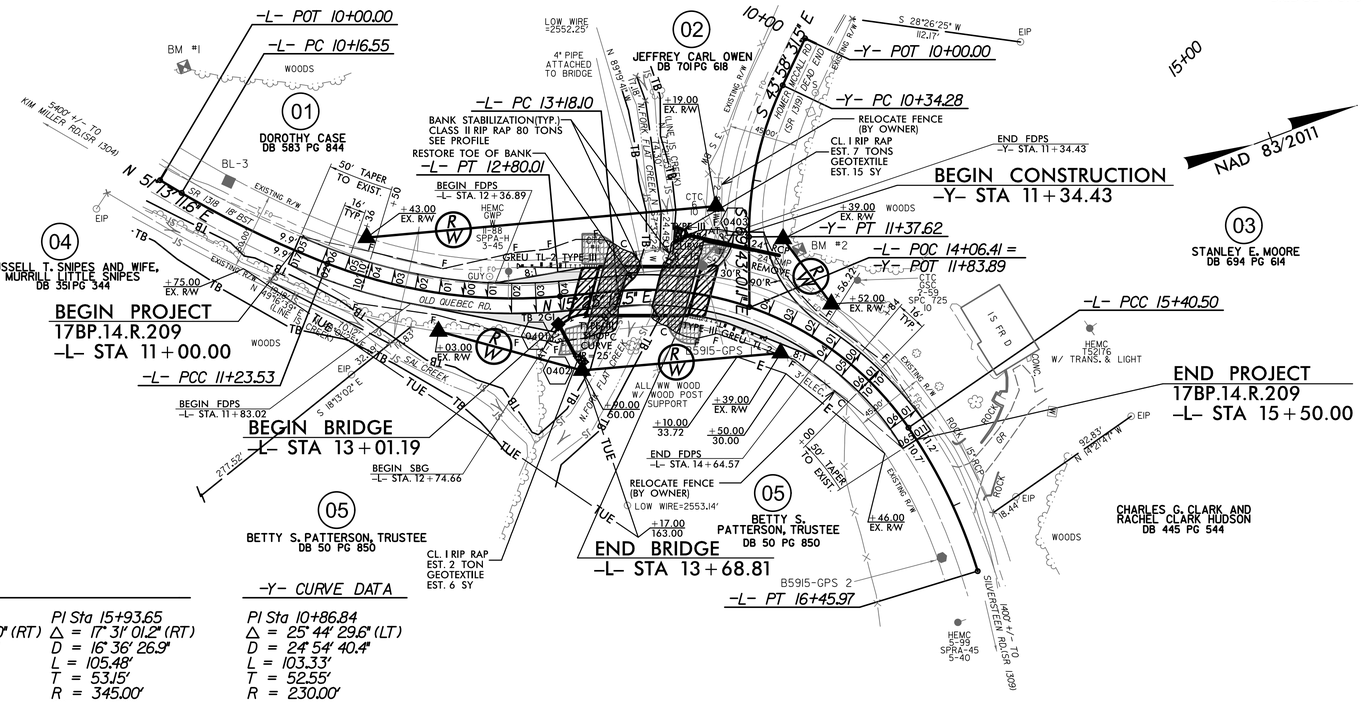
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

BRIDGE/ROADWAY RELATIONSHIP SKETCH



FOR STRUCTURE PLANS, SEE SHEET S-1 THRU S-19



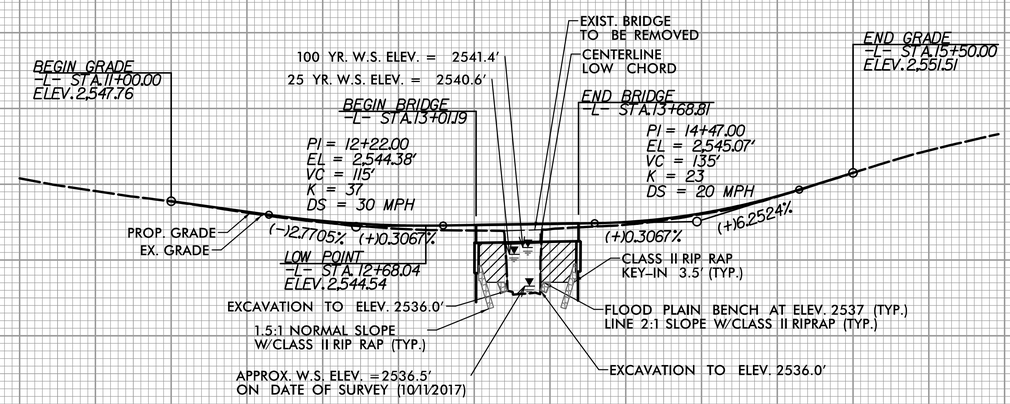
-L- CURVE DATA

PI Sta 10+70.16	PI Sta 12+03.18	PI Sta 14+41.01	PI Sta 15+93.65
Δ = 9° 25' 49.4" (LT)	Δ = 26° 22' 08.6" (LT)	Δ = 60° 40' 39.0" (RT)	Δ = 17° 31' 01.2" (RT)
D = 8° 48' 53.0"	D = 16° 51' 06.1"	D = 27° 17' 01.3"	D = 16° 36' 26.9"
L = 106.98'	L = 156.48'	L = 222.39'	L = 105.48'
T = 53.61'	T = 79.65'	T = 122.90'	T = 53.15'
R = 650.00'	R = 340.00'	R = 210.00'	R = 345.00'
SE = 0.06	SE = 0.04	SE = 0.04	SE = 0.06
DS = 45 MPH	DS = 30 MPH	DS = 25 MPH	DS = 35 MPH

-Y- CURVE DATA

PI Sta 10+86.84
Δ = 25° 44' 29.6" (LT)
D = 24° 54' 40.4"
L = 103.33'
T = 52.55'
R = 230.00'

BM#2 ELEV. 2551.13'
RR SPIKE IN BASE OF 42" OAK
LT 46.98 ' OF -L- STA 14+21.93



BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	=800	CFS
DESIGN FREQUENCY	=25	YRS
DESIGN HW ELEVATION	=2540.6	FT
BASE DISCHARGE	=1100	CFS
BASE FREQUENCY	=100	YRS
BASE HW ELEVATION	=2541.4	FT
OVERTOPPING DISCHARGE	=1600+	CFS
OVERTOPPING FREQUENCY	=500+	YRS
OVERTOPPING ELEVATION	=2544.54**	FT

** OVERTOPPING ELEV REPRESENTS LOWEST HIGH POINT ON DECK/ROADWAY, WHICH OCCURS AT SAG OF PAVEMENT OF PAVEMENT @ -L- STA.12+68.04

DATE OF SURVEY =3/5/2018

APPROX. W.S. ELEVATION ON DATE OF SURVEY =2536.5 FT

7/23/2019
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User:smelvin