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PROJECT REFERENCE NO.	SHEET NO.
17BP.14.R.143	4
R/W SHEET NO.	

Vaughn & Melton
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828-253-2796
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Charleston, SC 843-974-5650
Middlesboro, KY 606-248-6600
Atlanta, GA 770-627-3509

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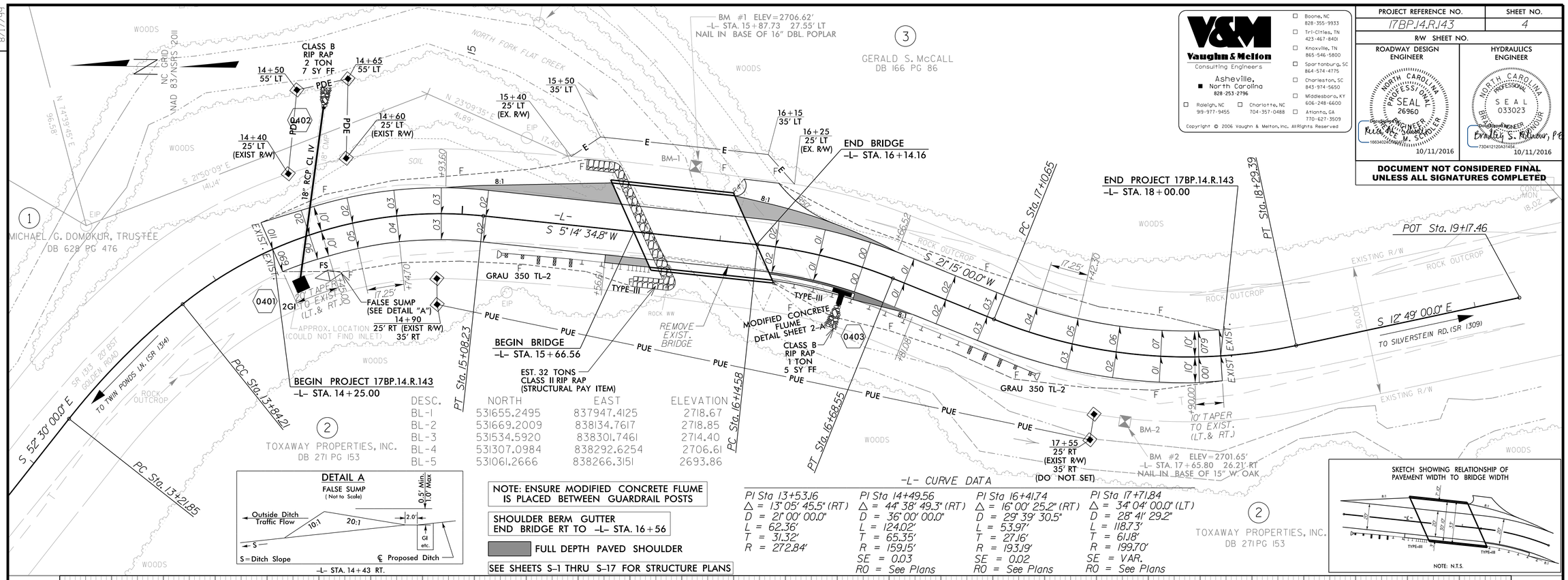
ROADWAY DESIGN ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 26960 ENGINEER — Kyle M. Schoeller — 10/11/2016

HYDRAULICS ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 033023 ENGINEER — Bradley S. Rabourn, PE — 10/11/2016

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

8/17/99



DESC.	NORTH	EAST	ELEVATION
BL-1	531655.2495	837947.4125	2718.67
BL-2	531669.2009	838134.7617	2718.85
BL-3	531534.5920	838301.7461	2714.40
BL-4	531307.0984	838292.6254	2706.61
BL-5	531061.2666	838266.3151	2693.86

NOTE: ENSURE MODIFIED CONCRETE FLUME IS PLACED BETWEEN GUARDRAIL POSTS

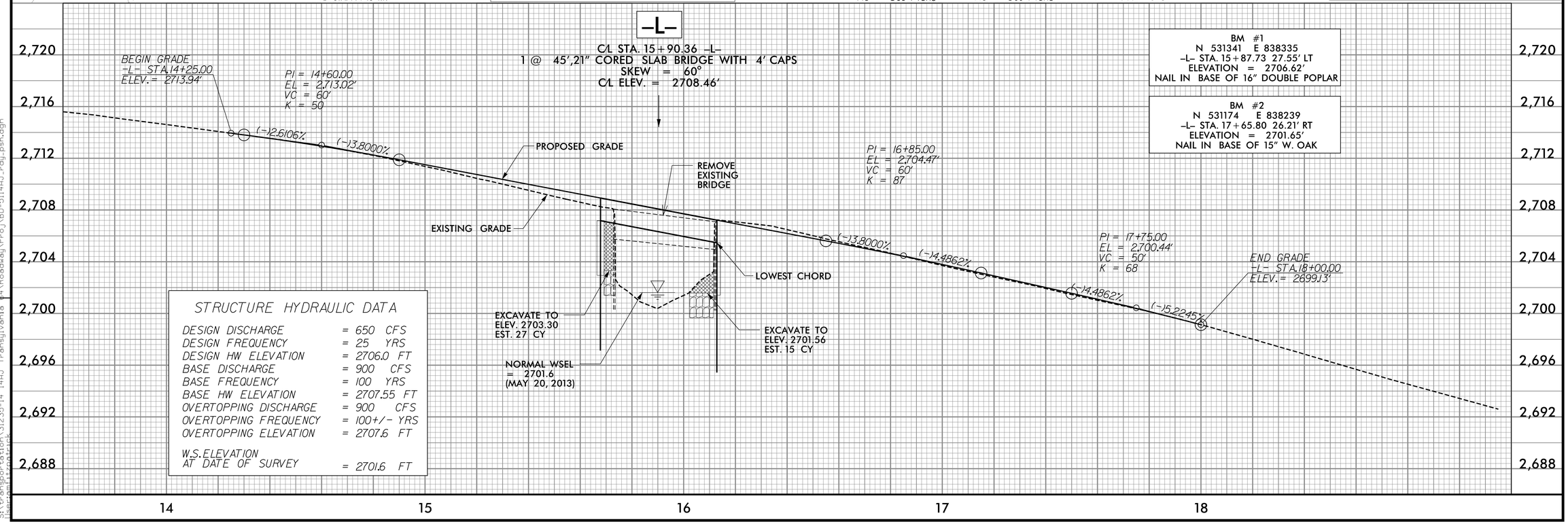
SHOULDER BERM GUTTER END BRIDGE RT TO -L- STA. 16+56

FULL DEPTH PAVED SHOULDER

SEE SHEETS S-1 THRU S-17 FOR STRUCTURE PLANS

-L- CURVE DATA

PI Sta 13+53.16	PI Sta 14+49.56	PI Sta 16+41.74	PI Sta 17+71.84
Δ = 13° 05' 45.5" (RT)	Δ = 44° 38' 49.3" (RT)	Δ = 16° 00' 25.2" (RT)	Δ = 34° 04' 00.0" (LT)
D = 21° 00' 00.0"	D = 36° 00' 00.0"	D = 29° 39' 30.5"	D = 28° 41' 29.2"
L = 62.36'	L = 124.02'	L = 53.97'	L = 118.73'
T = 31.32'	T = 65.35'	T = 27.16'	T = 61.18'
R = 272.84'	R = 159.15'	R = 193.19'	R = 199.70'
	SE = 0.03	SE = 0.02	SE = VAR.
	RO = See Plans	RO = See Plans	RO = See Plans



BM #1
N 531341 E 838335
-L- STA. 15+87.73 27.55' LT
ELEVATION = 2706.62'
NAIL IN BASE OF 16" DOUBLE POPLAR

BM #2
N 531174 E 838239
-L- STA. 17+65.80 26.21' RT
ELEVATION = 2701.65'
NAIL IN BASE OF 15" W. OAK

STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	= 650 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 2706.0 FT
BASE DISCHARGE	= 900 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 2707.55 FT
OVERTOPPING DISCHARGE	= 900 CFS
OVERTOPPING FREQUENCY	= 100+/- YRS
OVERTOPPING ELEVATION	= 2707.6 FT
W.S. ELEVATION AT DATE OF SURVEY	= 2701.6 FT

10/10/2016
S:\Transportation\31235-14 14AJ Transylvania 64\Roadway\Proj\BD-5114AJ_rdy_psh.dgn