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8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
17BP.14.R.142	2B-1
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 26960 ENGINEER — Recommended by: Kelly R. Wheeler, P.E. — DocuSign envelope ID: 1663402A-C7B2-4F2C-... — 4/6/2017

HYDRAULICS ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 033023 ENGINEER — Recommended by: Bradley S. Rabourn, P.E. — DocuSign envelope ID: 73D412120A3F4B6A-... — 4/6/2017

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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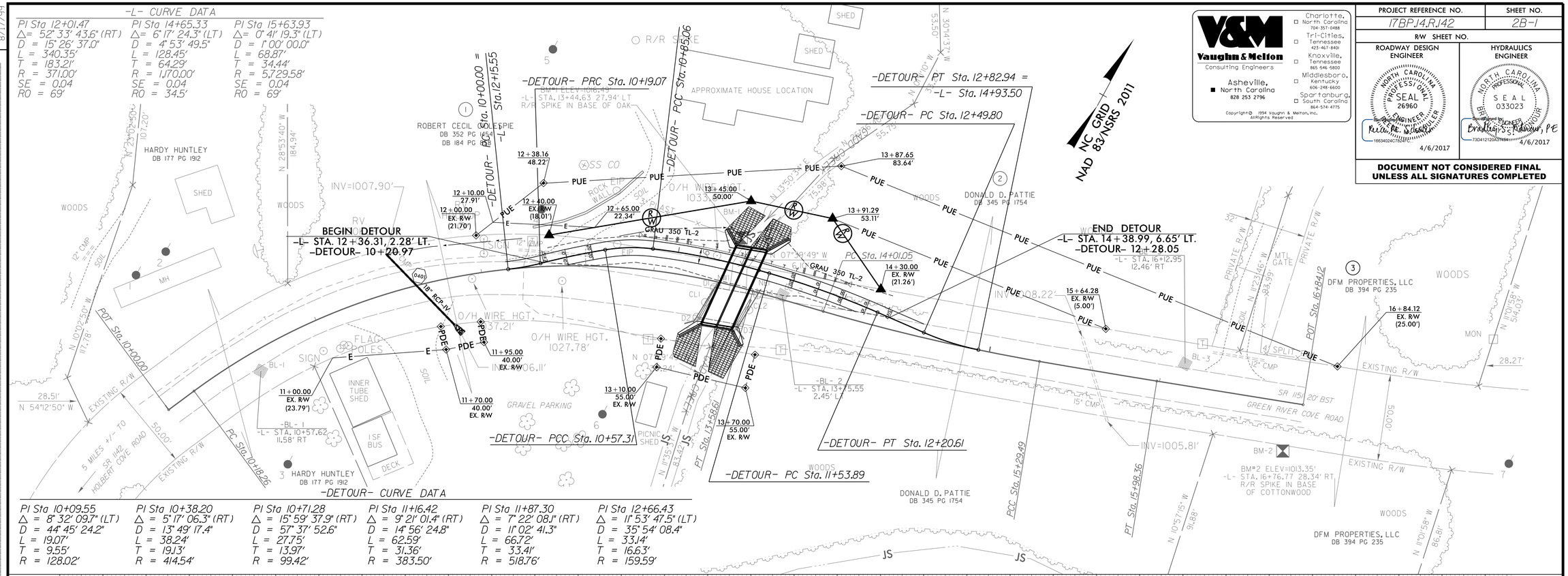
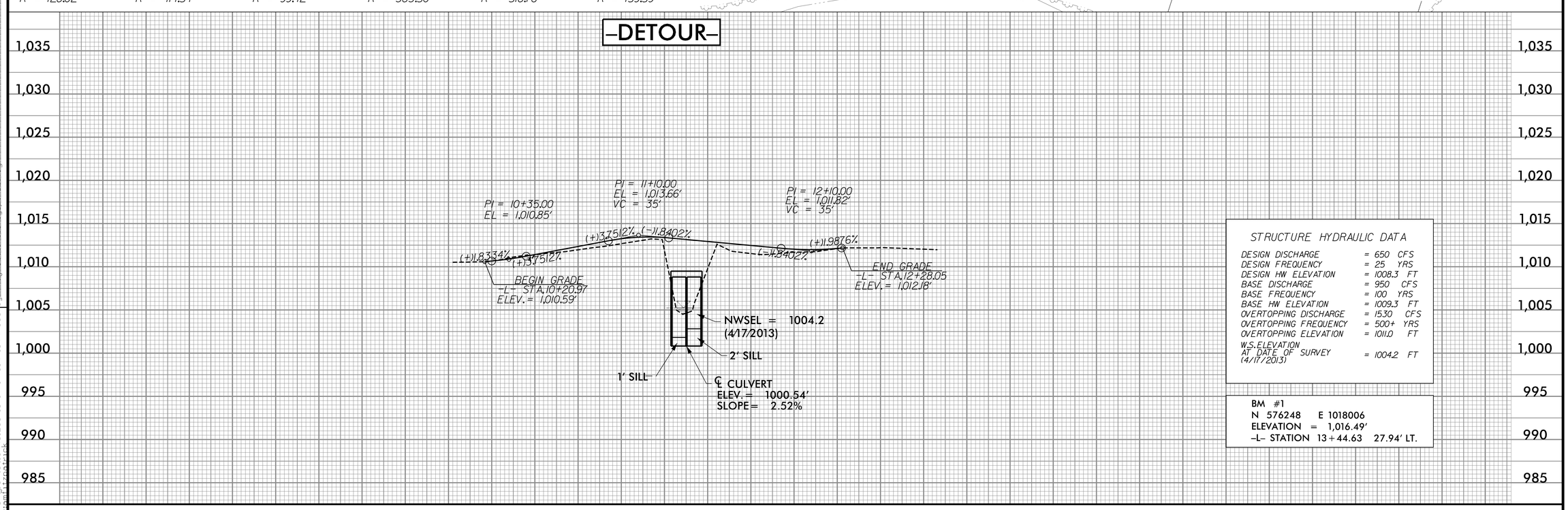


-DETOUR- CURVE DATA

PI Sta 10+09.55	PI Sta 10+38.20	PI Sta 10+71.28	PI Sta 11+16.42	PI Sta 11+87.30	PI Sta 12+66.43
△ = 8° 32' 09.7" (LT)	△ = 5° 17' 06.3" (RT)	△ = 15° 59' 37.9" (RT)	△ = 9° 21' 01.4" (RT)	△ = 7° 22' 08.1" (RT)	△ = 11° 53' 47.5" (LT)
D = 44° 45' 24.2"	D = 13° 49' 17.4"	D = 57° 37' 52.6"	D = 14° 56' 24.8"	D = 11° 02' 41.3"	D = 35° 54' 08.4"
L = 19.07'	L = 38.24'	L = 27.75'	L = 62.59'	L = 66.72'	L = 33.14'
T = 9.55'	T = 19.13'	T = 13.97'	T = 31.36'	T = 33.41'	T = 16.63'
R = 128.02'	R = 414.54'	R = 99.42'	R = 383.50'	R = 518.76'	R = 159.59'



STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	= 650	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 1008.3	FT
BASE DISCHARGE	= 950	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 1009.3	FT
OVERTOPPING DISCHARGE	= 1530	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 1011.0	FT
W.S. ELEVATION AT DATE OF SURVEY (4/17/2013)	= 1004.2	FT

BM #1
N 576248 E 1018006
ELEVATION = 1,016.49'
-L- STATION 13+44.63 27.94' LT.

4/5/2017
S:\Transportation\31235-13 1441 Polk 189\Roadway\Proj\bd5114a_rdy_psh_2B.dgn