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PROJECT REFERENCE NO.	SHEET NO.
14SP.20381.1	5
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 26960 ENGINEER BRENT M. SCHULER — 5/25/2018 8:27:53 AM PDT

HYDRAULICS ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 033023 ENGINEER BRADLEY R. KEALER — 5/25/2018 8:27:53 AM EDT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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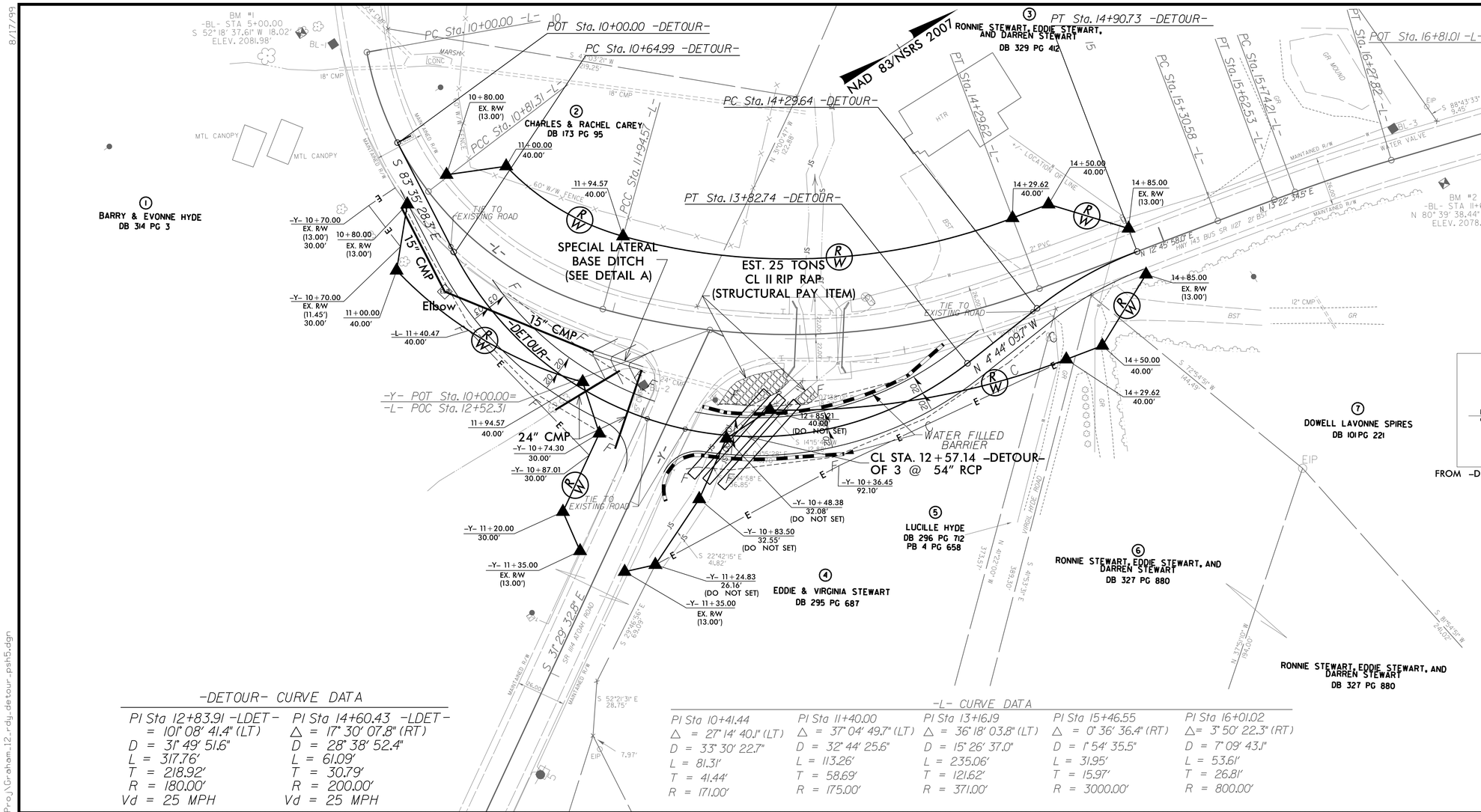
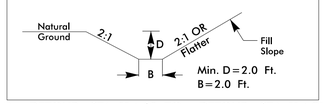


DETAIL A
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM -DETOUR- STA. 11+60 TO -DETOUR- STA. 11+91 LT

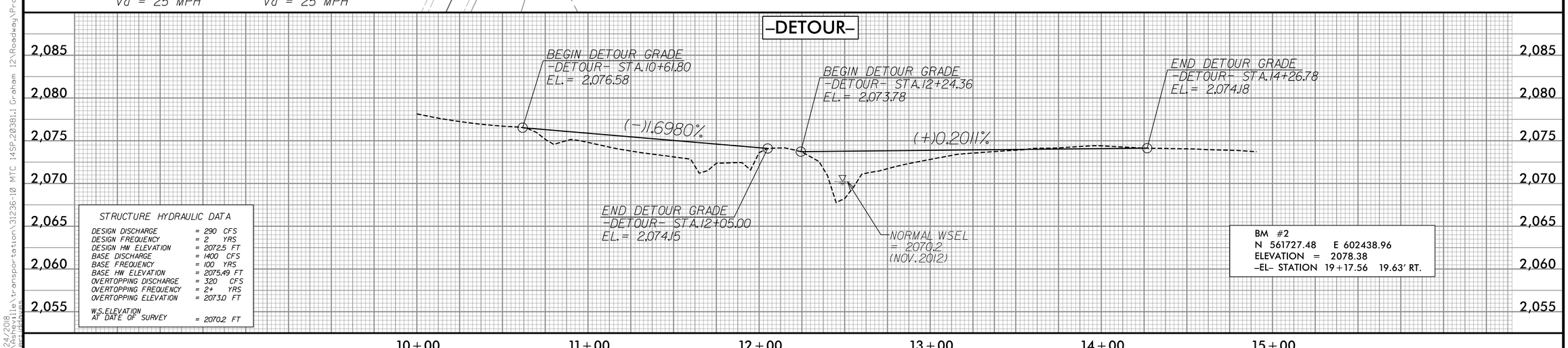
-DETOUR- CURVE DATA

PI Sta 12+83.91 -LDET-	PI Sta 14+60.43 -LDET-
= 101° 08' 41.4" (LT)	△ = 17° 30' 07.8" (RT)
D = 31° 49' 51.6"	D = 28° 38' 52.4"
L = 317.76'	L = 61.09'
T = 218.92'	T = 30.79'
R = 180.00'	R = 200.00'
Vd = 25 MPH	Vd = 25 MPH

-L- CURVE DATA

PI Sta 10+41.44	PI Sta 11+40.00	PI Sta 13+16.19	PI Sta 15+46.55	PI Sta 16+01.02
△ = 27° 14' 40.1" (LT)	△ = 37° 04' 49.7" (LT)	△ = 36° 18' 03.8" (LT)	△ = 0° 36' 36.4" (RT)	△= 3° 50' 22.3" (RT)
D = 33° 30' 22.7"	D = 32° 44' 25.6"	D = 15° 26' 37.0"	D = 1° 54' 35.5"	D = 7° 09' 43.1"
L = 81.31'	L = 113.26'	L = 235.06'	L = 31.95'	L = 53.61'
T = 41.44'	T = 58.69'	T = 121.62'	T = 15.97'	T = 26.81'
R = 171.00'	R = 175.00'	R = 371.00'	R = 3000.00'	R = 800.00'

-DETOUR-



STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	= 290 CFS
DESIGN FREQUENCY	= 2 YRS
DESIGN HW ELEVATION	= 2072.5 FT
BASE DISCHARGE	= 1400 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 2075.49 FT
OVERTOPPING DISCHARGE	= 320 CFS
OVERTOPPING FREQUENCY	= 2+ YRS
OVERTOPPING ELEVATION	= 2073.0 FT
W.S.ELEVATION AT DATE OF SURVEY	= 2070.2 FT

BM #2
N 561727.48 E 602438.96
ELEVATION = 2078.38
-EL- STATION 19+17.56 19.63' RT.

8/17/99

4/24/2018
V:\Projects\asheville\transportation\31236-10 MTC 14SP.20381.1 Graham 12\Roadway\Proj\Graham_12_rdy_detour_psh5.dgn
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