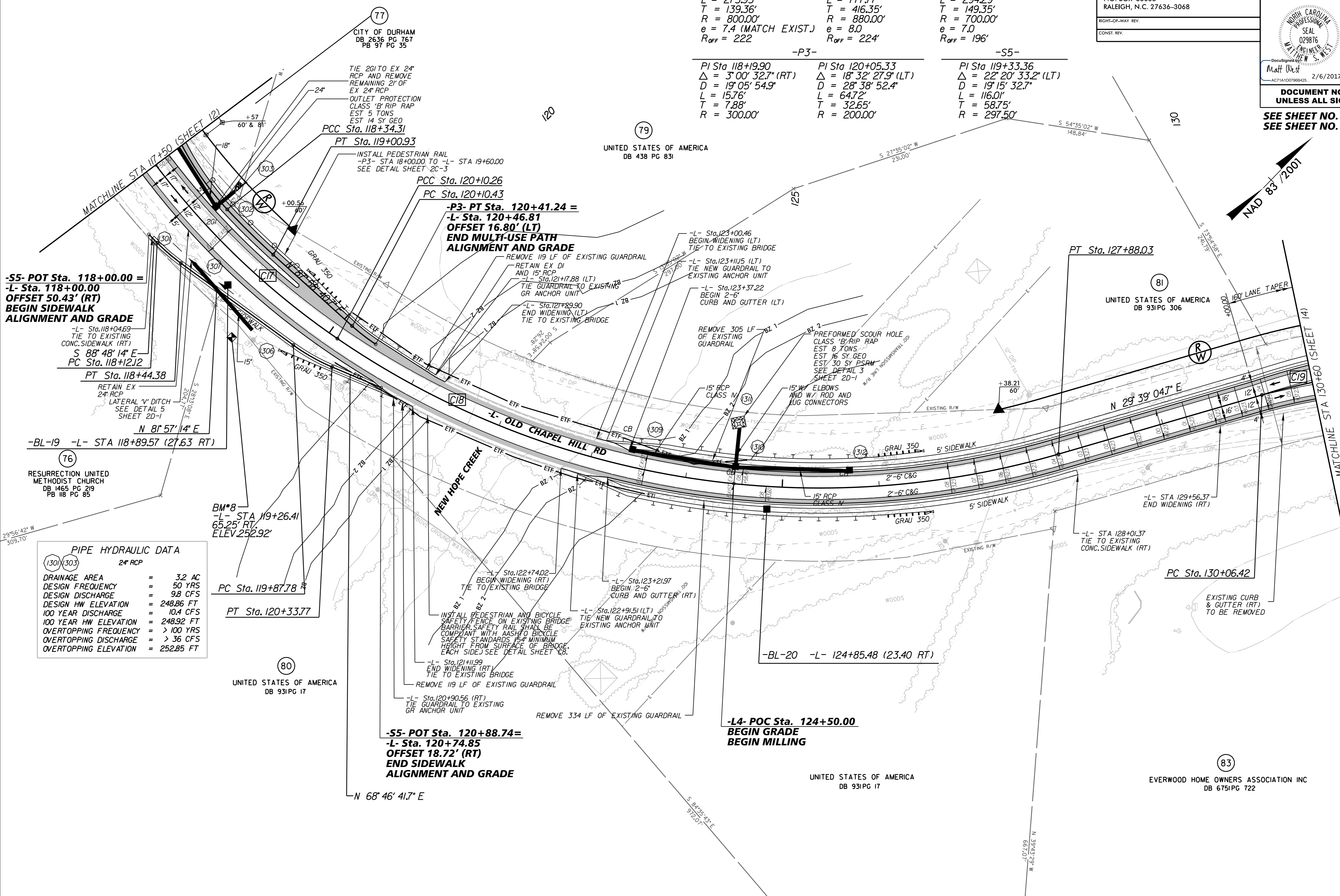


PROJECT REFERENCE NO. EB-4707B	SHEET NO. 13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DocuSigned by: Matt West AC71A1D07968425 2/6/2017	DocuSigned by: Larry D. Robinson CE178291D56432/6/2017

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**
SEE SHEET NO. 20 FOR -L- PROFILE
SEE SHEET NO. 22 FOR -P3- PROFILE

-L-		
PI Sta 118+73.67 (C17) Δ = 19° 45' 48.5" (LT) D = 7° 09' 43.1" L = 275.95' T = 139.36' R = 800.00' e = 7.4 (MATCH EXIST.) R _{OFF} = 222	PI Sta 124+26.61 (C18) Δ = 50° 38' 22.2" (LT) D = 6° 30' 39.2" L = 777.77' T = 416.35' R = 880.00' e = 8.0 R _{OFF} = 224'	PI Sta 131+55.77 (C19) Δ = 24° 05' 15.3" (RT) D = 8° 11' 06.4" L = 294.29' T = 149.35' R = 700.00' e = 7.0 R _{OFF} = 196'
-P3-		
PI Sta 118+19.90 Δ = 3° 00' 32.7" (RT) D = 19° 05' 54.9" L = 15.76' T = 7.88' R = 300.00'	PI Sta 120+05.33 Δ = 18° 32' 27.9" (LT) D = 28° 38' 52.4" L = 64.72' T = 32.65' R = 200.00'	PI Sta 119+33.36 Δ = 22° 20' 33.2" (LT) D = 19° 15' 32.7" L = 116.01' T = 58.75' R = 297.50'
-S5-		
PI Sta 118+19.90 Δ = 3° 00' 32.7" (RT) D = 19° 05' 54.9" L = 15.76' T = 7.88' R = 300.00'	PI Sta 120+05.33 Δ = 18° 32' 27.9" (LT) D = 28° 38' 52.4" L = 64.72' T = 32.65' R = 200.00'	PI Sta 119+33.36 Δ = 22° 20' 33.2" (LT) D = 19° 15' 32.7" L = 116.01' T = 58.75' R = 297.50'



**-S5- POT Sta. 118+00.00 =
-L- Sta. 118+00.00
OFFSET 50.43' (RT)
BEGIN SIDEWALK
ALIGNMENT AND GRADE**

-L- Sta. 118+04.69
TIE TO EXISTING
CONC. SIDEWALK (RT)
S 88° 48' 14" E
PC Sta. 118+12.12
PT Sta. 118+44.38

RETAIN EX
24" RCP
LATERAL 'V' DITCH
SEE DETAIL 5
SHEET 2D-1
N 81° 57' 14" E

-BL-19 -L- STA 118+89.57 (27.63 RT)

PIPE HYDRAULIC DATA

130/1303	24" RCP
DRAINAGE AREA	= 3.2 AC
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 9.8 CFS
DESIGN HW ELEVATION	= 248.86 FT
100 YEAR DISCHARGE	= 10.4 CFS
100 YEAR HW ELEVATION	= 248.92 FT
OVERTOPPING FREQUENCY	= > 100 YRS
OVERTOPPING DISCHARGE	= > 36 CFS
OVERTOPPING ELEVATION	= 252.85 FT

\$ FILE \$
2/6/2017