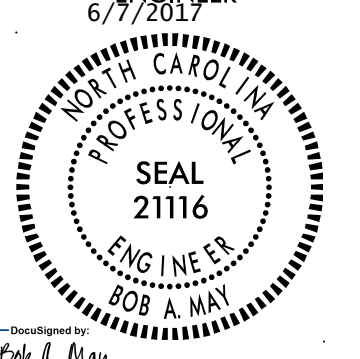
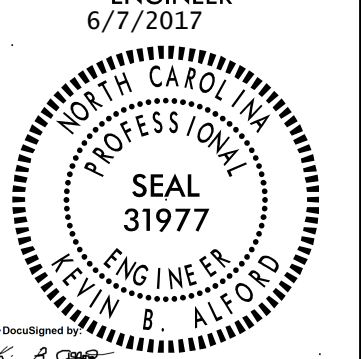


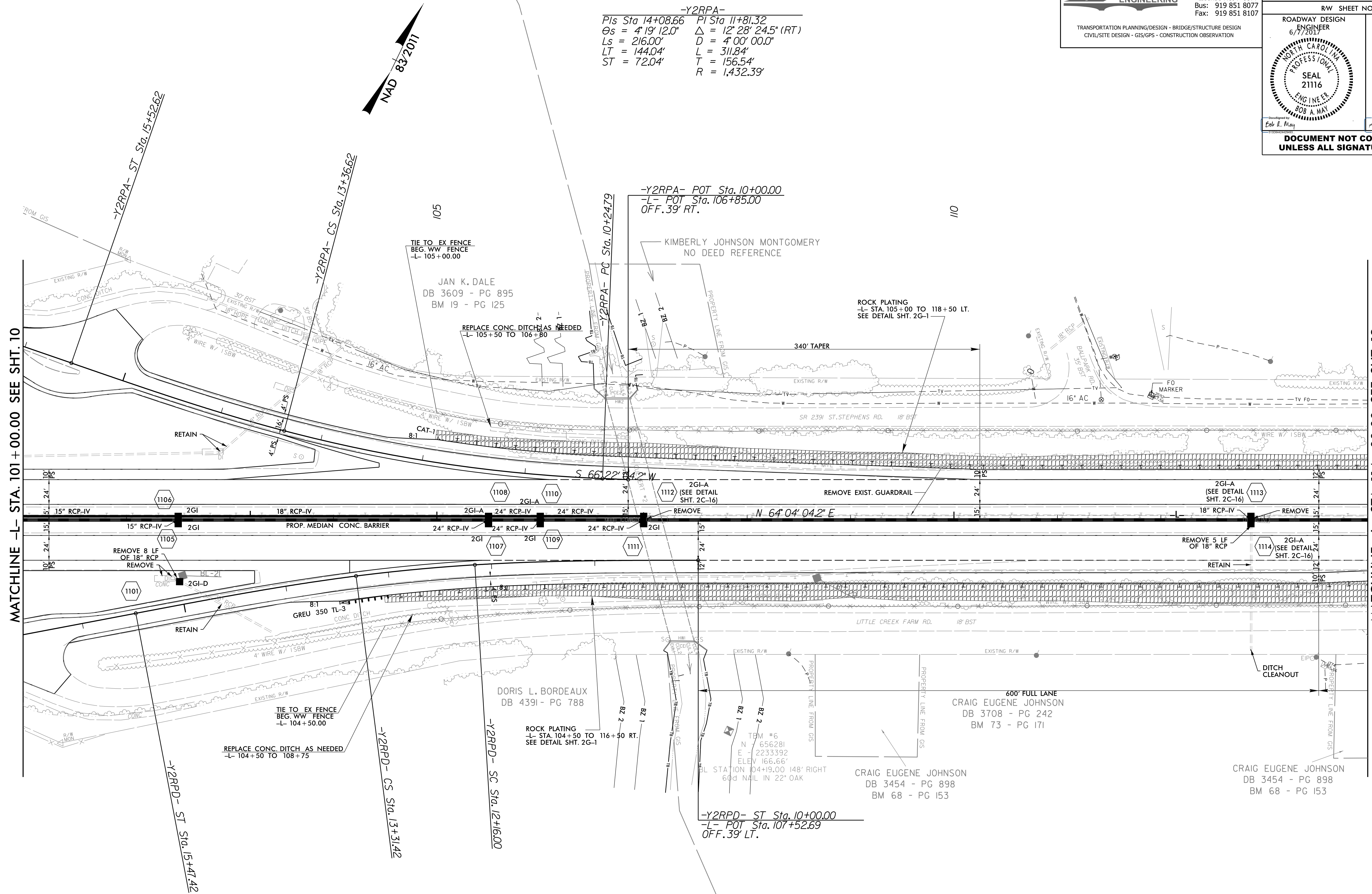
5/14/19

**WETHERILL ENGINEERING**  
 1223 Jones Franklin Rd.  
 Raleigh, N.C. 27606  
 License No. F-0377  
 Bus: 919 851 8077  
 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

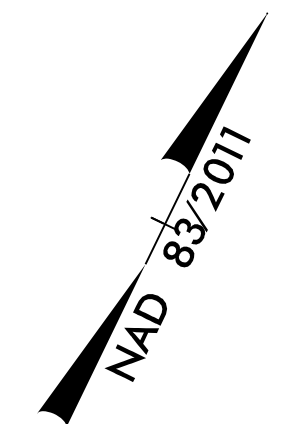
PROJECT REFERENCE NO. <b>1-5786</b>	SHEET NO. <b>11</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 6/7/2017	HYDRAULICS ENGINEER 6/7/2017
 SEAL 21116 ENGINEER KEVIN B. ALFORD	 SEAL 31977 ENGINEER KEVIN B. ALFORD
<b>DOCUMENT NOT CONSIDERED FINAL          UNLESS ALL SIGNATURES COMPLETED</b>	

**-Y2RPA-**  
 PIs Sta 14+08.66 PI Sta 11+81.32  
 $\theta_s = 4' 19' 12.0''$   $\Delta = 12' 28' 24.5''$  (RT)  
 $L_s = 216.00'$   $D = 4' 00' 00.0''$   
 $LT = 144.04'$   $L = 311.84'$   
 $ST = 72.04'$   $T = 156.54'$   
 $R = 1,432.39'$



MATCHLINE -L- STA. 101+00.00 SEE SHT. 10

MATCHLINE -L- STA. 114+00.00 SEE SHT. 12



**-Y2RPD-**  
 PIs Sta 14+03.44 PI Sta 12+73.73 PI Sta 11+44.03  
 $\theta_s = 3' 30' 36.0''$   $\Delta = 3' 45' 03.6''$  (LT)  $\theta_s = 3' 30' 36.0''$   
 $L_s = 216.00'$   $D = 3' 15' 00.0''$   $L_s = 216.00'$   
 $LT = 144.03'$   $T = 115.42'$   $LT = 144.03'$   
 $ST = 72.03'$   $R = 57.73'$   $ST = 72.03'$   
 $R = 1,762.95'$

6/7/2017 1-5786\_Rdy\_psh1.dgn