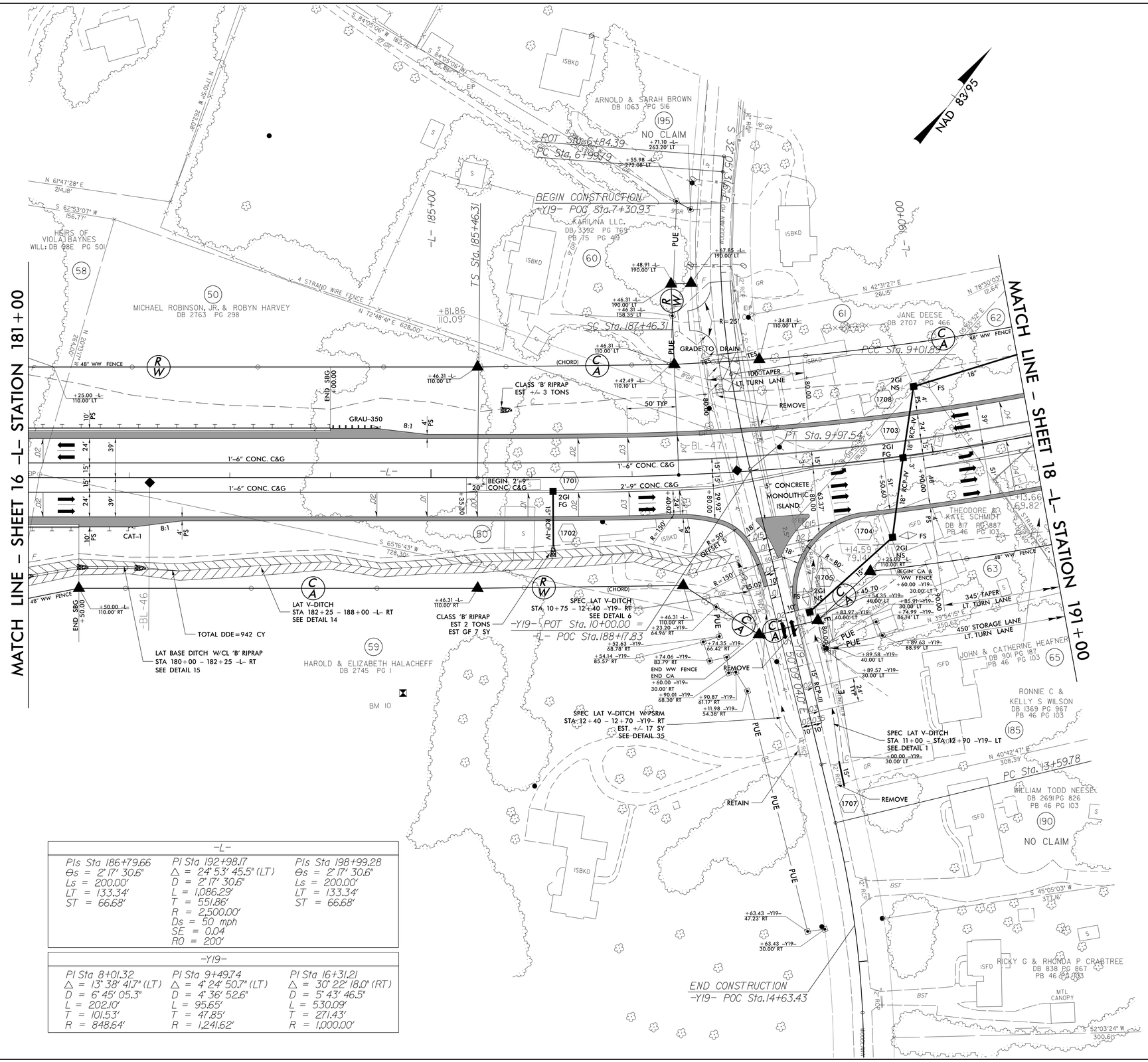
DocuSign Envelope ID: 53BBAEF4-3CB7-4E26-9297-2AC5BFF0AEB9

PROJECT REFERENCE NO.	SHEET NO.
U-3109A	17
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 034367 ENGINEER TODD H. BUCKNER	NORTH CAROLINA PROFESSIONAL SEAL 26971 ENGINEER JOSHUA G. DALTON
DocuSigned by: 1087011E67F6435... 3/10/2017	DocuSigned by: 1089AD8C14994C3... 3/10/2017
Michael Baker Engineering, Inc. Michael Baker INTERNATIONAL 8000 Regency Parkway Suite 600 Cary, NC 27518 NC License: F-1084	SUNGATE DESIGN GROUP, P.A. 915 Jones Franklin Road Raleigh, NC 27606 NC COA No. C-0890

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



-L-		
Pls Sta 186+79.66	Pl Sta 192+98.17	Pls Sta 198+99.28
Θs = 2° 17' 30.6"	Δ = 24° 53' 45.5" (LT)	Θs = 2° 17' 30.6"
Ls = 200.00'	D = 2° 17' 30.6"	Ls = 200.00'
LT = 133.34'	L = 1,086.29'	LT = 133.34'
ST = 66.68'	T = 551.86'	ST = 66.68'
	R = 2,500.00'	
	Ds = 50 mph	
	SE = 0.04	
	R0 = 200'	

-Y19-		
Pl Sta 8+01.32	Pl Sta 9+49.74	Pl Sta 16+31.21
Δ = 13° 38' 41.7" (LT)	Δ = 4° 24' 50.7" (LT)	Δ = 30° 22' 18.0" (RT)
D = 6° 45' 05.3"	D = 4° 36' 52.6"	D = 5° 43' 46.5"
L = 202.10'	L = 95.65'	L = 530.09'
T = 101.53'	T = 47.85'	T = 271.43'
R = 848.64'	R = 1,241.62'	R = 1,000.00'

REVISIONS

5/14/99

2/24/2017 1:36:25 PM
jcrodgers, jcrodgers
USER:pdotuser:PCOE