DocuSign Envelope ID: BD04A6F0-193C-4758-B1A2-A87F8B7C208F

PROJECT REFERENCE NO.	SHEET NO.
U-3615B	16
R/W SHEET NO.	

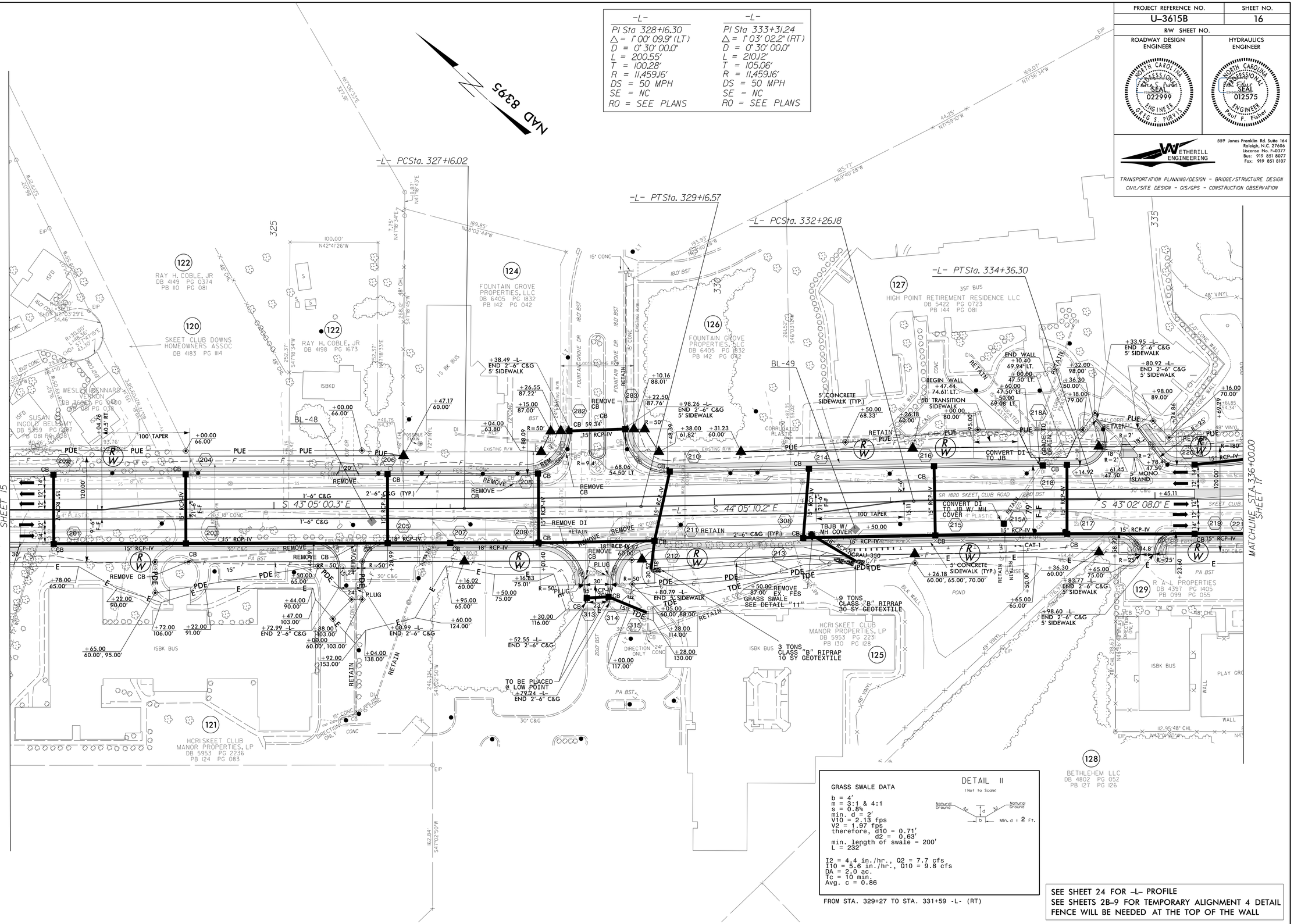
ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 022999 ENGINEER — Kevin S. Purvis

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 012575 ENGINEER — Paul F. Fisher

WETHERILL ENGINEERING
559 Jones Franklin Rd. Suite 164
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

-L-	-L-
PI Sta 328+16.30	PI Sta 333+31.24
Δ = 1° 00' 09.9" (LT)	Δ = 1° 03' 02.2" (RT)
D = 0° 30' 00.0"	D = 0° 30' 00.0"
L = 200.55'	L = 210.12'
T = 100.28'	T = 105.06'
R = 11,459.16'	R = 11,459.16'
DS = 50 MPH	DS = 50 MPH
SE = NC	SE = NC
RO = SEE PLANS	RO = SEE PLANS



DETAIL II

(Not to Scale)

GRASS SWALE DATA

b = 4'
m = 3:1 & 4:1
s = 0.8%
min. d = 2'
V10 = 2.13 fps
V2 = 1.97 fps
therefore, d10 = 0.71'
d2 = 0.63'
min. length of swale = 200'
L = 232'

I2 = 4.4 in./hr., Q2 = 7.7 cfs
I10 = 5.6 in./hr., Q10 = 9.8 cfs
DA = 2.0 ac.
Tc = 10 min.
Avg. c = 0.86

FROM STA. 329+27 TO STA. 331+59 -L- (RT)

SEE SHEET 24 FOR -L- PROFILE
SEE SHEETS 2B-9 FOR TEMPORARY ALIGNMENT 4 DETAIL
FENCE WILL BE NEEDED AT THE TOP OF THE WALL

REVISIONS

8/17/99

3:18:27 PM
R:\Roadway\Proj\u3615b_rdy_dsh_sh16.dgn
10/29/2014