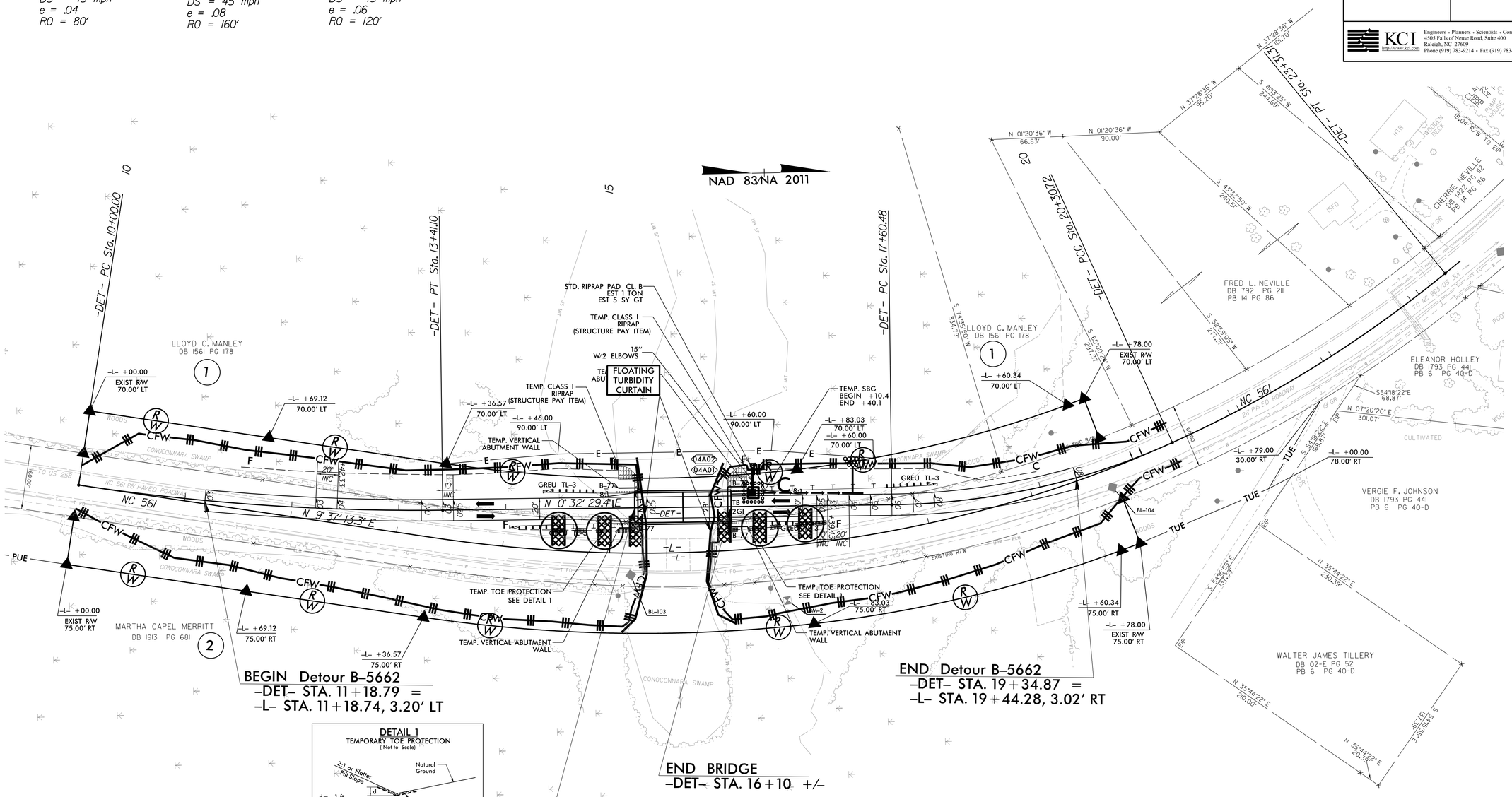
PROJECT REFERENCE NO.	SHEET NO.
B-5662	EC-4A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

KCI
http://www.kci.com
Engineers • Planners • Scientists • Construction Managers
4505 Falls of Neuse Road, Suite 400
Raleigh, NC 27609
Phone (919) 783-9214 • Fax (919) 783-9266

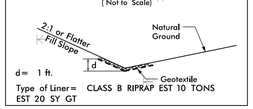
DETOUR

-DET-

PI Sta 11+70.92	PI Sta 18+97.55	PI Sta 21+81.88
△ = 9° 16' 26.4" (LT)	△ = 23° 38' 19.7" (LT)	△ = 14° 58' 34.8" (LT)
D = 2° 43' 07.8"	D = 8° 44' 50.8"	D = 4° 58' 56.1"
L = 341.10'	L = 270.24'	L = 300.59'
T = 170.92'	T = 137.07'	T = 151.16'
R = 2107.37'	R = 655.00'	R = 1150.00'
DS = 45 mph	DS = 45 mph	DS = 45 mph
e = .04	e = .08	e = .06
RO = 80'	RO = 160'	RO = 120'



DETAIL 1
TEMPORARY TOE PROTECTION
(Not to Scale)



d = 1 ft.
Type of Liner = CLASS B RIPRAP EST 10 TONS
EST 20 SY GT

FROM -DET- STA. 14+50.00 TO STA. 15+15.36 RT
FROM -DET- STA. 16+05.38 TO STA. 17+00.00 RT

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.

FOR -DET- PROFLE SEE SHEET 5A
FOR -L- DESIGN SEE SHEET 4

REVISIONS

8/17/99

4/14/2020
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Sawyer, Walters