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PROJECT REFERENCE NO.	SHEET NO.
B-5982	2B-2
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 037874 ENGINEER TIMOTHY D. COINS — DocuSigned by: Tim Coins

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 052478 ENGINEER ERIC A. BERGER — DocuSigned by: Eric Berger

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

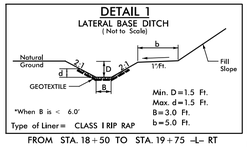
VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

NAD 83/2011

REVISIONS

R/W REVISION: 11/09/2023 – TCE LIMITS ON PARCEL 1 (VIRGINIA CLARK) REDUCED TO AVOID WELL DISCOVERED DURING NEGOTIATION.

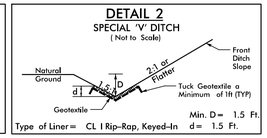
DETAIL 1
LATERAL BASE DITCH (Not to Scale)



Min. D = 1.5 Ft.
Max. d = 1.5 Ft.
B = 3.0 Ft.
b = 5.0 Ft.
Type of Liner = CLASS I RIP RAP

FROM STA. 18+50 TO STA. 19+75 –L– RT

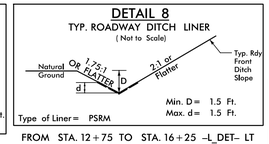
DETAIL 2
SPECIAL 'V' DITCH (Not to Scale)



Min. D = 1.5 Ft.
Max. d = 1.5 Ft.
Type of Liner = CL I Rip-Rap, Keyed-In

FROM STA. 16+25 TO STA. 17+00 –L_DET– LT

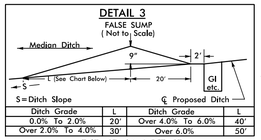
DETAIL 8
TYP. ROADWAY DITCH LINER (Not to Scale)



Min. D = 1.5 Ft.
Max. d = 1.5 Ft.
Type of Liner = PSRM

FROM STA. 12+75 TO STA. 16+25 –L_DET– LT

DETAIL 3
FALSE SUMP (Not to Scale)



Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

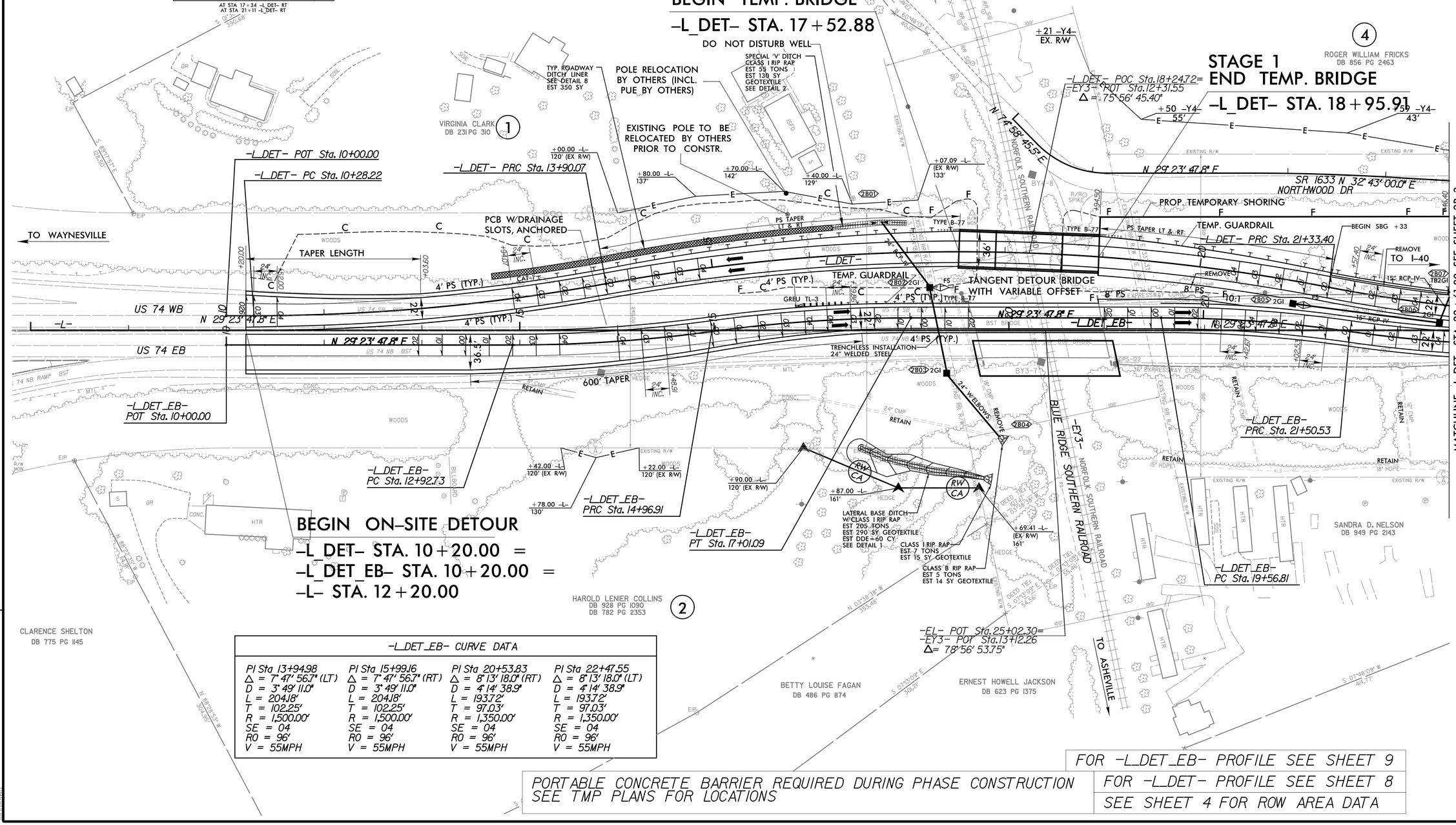
AT STA. 17+34 –L_DET– RT
AT STA. 21+11 –L_DET– RT

–L_DET– CURVE DATA

PI Sta 12+09.64	PI Sta 17+66.08
Δ = 10° 21' 58.6" (LT)	Δ = 21° 17' 41.8" (RT)
D = 2° 51' 53.2"	D = 2° 51' 53.2"
L = 361.85'	L = 743.33'
T = 181.42'	T = 376.01'
R = 2,000.00'	R = 2,000.00'
SE = 04	SE = 04
R0 = 96'	R0 = 96'
V = 55MPH	V = 55MPH

–Y4– CURVE DATA

PI Sta 10+77.47	PI Sta 13+32.61
Δ = 45° 34' 57.7" (LT)	Δ = 3° 19' 12.2" (RT)
D = 57° 17' 44.8"	D = 2° 30' 07.2"
L = 79.56'	L = 132.70'
T = 42.02'	T = 66.37'
R = 100.00'	R = 2,290.00'
SE = NC	SE = NC
V = 25MPH	V = 25MPH



–L_DET_EB– CURVE DATA

PI Sta 13+94.98	PI Sta 15+99.16	PI Sta 20+53.83	PI Sta 22+47.55
Δ = 7° 47' 56.7" (LT)	Δ = 7° 47' 56.7" (RT)	Δ = 8° 13' 18.0" (RT)	Δ = 8° 13' 18.0" (LT)
D = 3° 49' 11.0"	D = 3° 49' 11.0"	D = 4° 14' 38.9"	D = 4° 14' 38.9"
L = 204.18'	L = 204.18'	L = 193.72'	L = 193.72'
T = 102.25'	T = 102.25'	T = 97.03'	T = 97.03'
R = 1,500.00'	R = 1,500.00'	R = 1,350.00'	R = 1,350.00'
SE = 04	SE = 04	SE = 04	SE = 04
R0 = 96'	R0 = 96'	R0 = 96'	R0 = 96'
V = 55MPH	V = 55MPH	V = 55MPH	V = 55MPH

PORTABLE CONCRETE BARRIER REQUIRED DURING PHASE CONSTRUCTION
SEE TMP PLANS FOR LOCATIONS

FOR –L_DET_EB– PROFILE SEE SHEET 9
FOR –L_DET– PROFILE SEE SHEET 8
SEE SHEET 4 FOR ROW AREA DATA

5/30/2024
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bhasser