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PROJECT REFERENCE NO.	SHEET NO.
B-3186 / B-5898	2B-5
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 32562 ENGINEER PHILLIP E. ROGERS — 3/17/2022	NORTH CAROLINA PROFESSIONAL SEAL 049135 ENGINEER TAYLOR M. CARTER — 3/17/2022

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

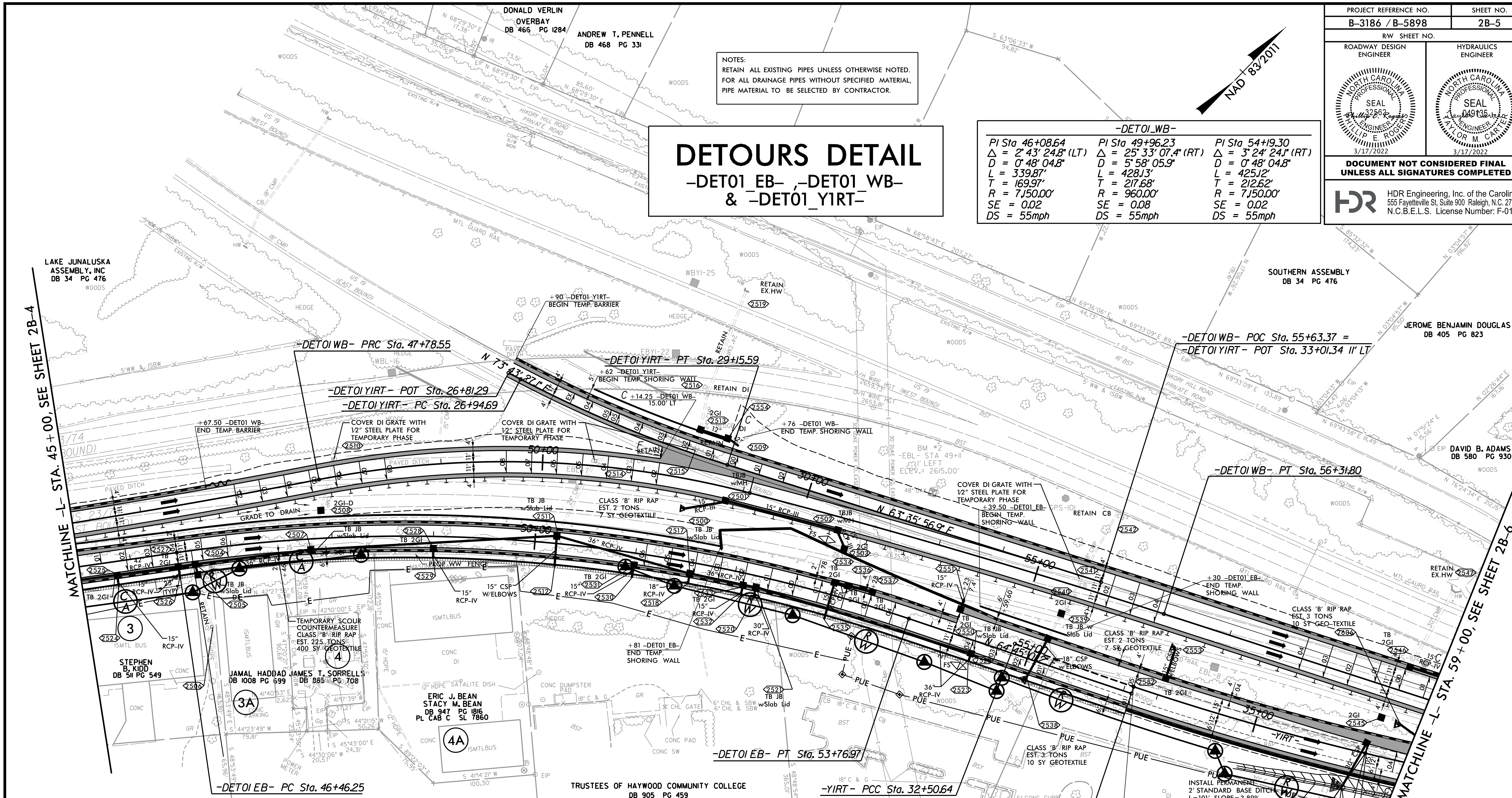
DETOURS DETAIL
–DET01_EB– ,–DET01_WB– & –DET01_Y1RT–

NOTES:
RETAIN ALL EXISTING PIPES UNLESS OTHERWISE NOTED.
FOR ALL DRAINAGE PIPES WITHOUT SPECIFIED MATERIAL, PIPE MATERIAL TO BE SELECTED BY CONTRACTOR.

NAD 83/2011

-DET01_WB-

PI Sta 46+08.64	PI Sta 49+96.23	PI Sta 54+19.30
Δ = 2° 43′ 24.8″ (LT)	Δ = 25° 33′ 07.4″ (RT)	Δ = 3° 24′ 24.1″ (RT)
D = 0° 48′ 04.8″	D = 5° 58′ 05.9″	D = 0° 48′ 04.8″
L = 339.87′	L = 428.13′	L = 425.12′
T = 169.97′	T = 217.68′	T = 212.62′
R = 7,150.00′	R = 960.00′	R = 7,150.00′
SE = 0.02	SE = 0.08	SE = 0.02
DS = 55mph	DS = 55mph	DS = 55mph



AADT YEAR	2022 / 2042 (VOLUME IN 100s)
US 19 / US 276 (–Y1RT– / –Y1LT–)	160 / 182
Turning movement	122 / 138
US 23 / US 74	351 / 456
US 23 / US 74 (–L–)	
US 19 / US 23 / US 74	473 / 594

NOTE:
–DET01_Y1RT– WILL BE UTILIZED DURING CONSTRUCTION OF –DET01_EB–. WESTBOUND TRAFFIC IS ON EXISTING WESTBOUND LANES AND EASTBOUND TRAFFIC IS ON –DET01_WB–

DETAIL K
STANDARD BASE DITCH
(Not to Scale)

Natural Ground — 2:1 — D — B — 2:1 — Natural Ground
Min. D = 1 Ft.
B = 2 Ft.

FROM STA. 35+12 TO STA. 36+13 RT –Y1RT–

-DET01_EB-

PI Sta 50+18.44	PI Sta 57+83.86
Δ = 26° 50′ 17.0″ (RT)	Δ = 7° 31′ 47.2″ (LT)
D = 3° 40′ 22.1″	D = 2° 08′ 54.0″
L = 730.72′	L = 350.50′
T = 372.19′	T = 175.50′
R = 1,560.00′	R = 2,667.00′
SE = 0.06	SE = 0.05
DS = 50mph	DS = 55mph

-YIRT-

PI Sta 34+31.85	PIs Sta 36+62.50
Δ = 7° 47′ 39.3″ (LT)	θs = 1° 36′ 55.7″
D = 2° 09′ 14.3″	Ls = 150.00′
L = 361.85′	LT = 100.00′
T = 181.21′	ST = 50.00′
R = 2,660.00′	
SE = 0.05	
DS = 55mph	

-DET01_YIRT-

PI Sta 25+54.39	PI Sta 28+05.43
Δ = 15° 09′ 29.9″ (LT)	Δ = 10° 07′ 30.3″ (LT)
D = 5° 56′ 14.6″	D = 4° 35′ 01.2″
L = 255.30′	L = 220.89′
T = 128.40′	T = 110.74′
R = 965.00′	R = 1,250.00′

FOR –DET01_EB– PROFILE, SEE PROFILE SHEET 21
FOR –DET01_WB– PROFILE, SEE PROFILE SHEET 22
FOR –DET01_Y1RT– PROFILE, SEE PROFILE SHEET 24
FOR –Y1RT– PROFILE, SEE PROFILE SHEET 18

PLOT DRIVER: NCDOT_pdf_color_eng_50.plt PENTABLE: B-3186 B-5898 NCDOT_pshpfl.tbl
USER: HBARE DATE: 1/13/2022 TIME: 6:55:49 AM
FILE: \