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REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-5817	4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
2/27/2018	2/27/2018
NORTH CAROLINA PROFESSIONAL SEAL 034371 ENGINEER BRANDON W. JOHNSON	NORTH CAROLINA PROFESSIONAL SEAL 030405 ENGINEER D.C. DUFFIELD
DocuSigned by: Brandon W. Johnson 6A2B9...	DocuSigned by: D.C. Duffield

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared in the Office of: SUMMIT DESIGN AND ENGINEERING SERVICES
NC FIRM LICENSE No: P-0339
504 Meadowlands Drive
Hillsborough, NC 27278
(919) 732-3883
(919) 732-6676 (FAX)

FOR -L- PROFILE, SEE SHEET 5
FOR -Y1- PROFILE, SEE SHEET 5

NC GRID NAD 83 NA 2011

109 ELEVATION = 204.41
N 638624 E 2174974
BL STATION 5+69.00 1 LEFT
TBM=2 RR SPIKE SET IN WEST EDGE OF PAVEMENT OF NC 210

POT Sta. 10+00.00
BEGIN PROJECT
-L- STA 10+25.00

RAYMOND SANDERS, ET AL
DB 853 PG 362

JAMES WILSON MCKENZIE, ET AL
DB 1002 PG 399
DB 869 PG 776
DB 649 PG 481

PC Sta. 12+37.01
PCC Sta. 13+47.10
PCC Sta. 14+90.47
PCC Sta. 19+62.57
PCC Sta. 21+13.72
PT Sta. 22+18.59
END PROJECT
-L- STA 25+00.00

THOMAS WAYNE BRICE
DB 4084 PG 7
PB 46 PG 301

C. A. BYRD, JR.
DB 4595 PG 63

JAMES WILSON MCKENZIE, ET AL
DB 3557 PG 635

JAMES WILSON MCKENZIE, ET AL
PB 81 PG 157

JAMES WILSON MCKENZIE, ET AL
DB 804 PG 290

ZACHARY R. CARSCADDON
DB 4390 PG 171
PB 32 PG 71
PB 79 PG 123

RUSSELL O. MORGAN
DB 3815 PG 715

RUSSELL O. MORGAN
DB 841 PG 741

LINDA DIANE BLUE
DB 1461 PG 10
PB 32 PG 73

JANIE GREEN, ET AL
DB 2978 PG 520
PB 25 PG 311

KEITH WILLIAMS, ET AL
DB 1233 PG 127

JOYCE COLLINS PUTNAM, ET AL
DB 683 PG 40
PB 60 PG 292

JOHNSTON COUNTY BOARD OF EDUCATION
DB 2267 PG 643
PB 60 PG 292

ORIS E. MATTHEWS
DB 841 PG 375

ORIS E. MATTHEWS
DB 1386 PG 38
PB 42 PG 107

ANGELA MATTHEWS BAKER, ET AL
DB 2305 PG 60
PB 61 PG 119

600' SHIFT
100' TAPER
200' TURN LANE
300' TURN LANE
100' TAPER
600' SHIFT
24' INC TYP
25' TRANS. TO EX
16' INC TYP

SPECIAL CUT DITCH SEE DETAIL 1
TIE TO EX. DITCH
CLASS B RIP RAP EST 5 TONS
EST 14 SY GEOTEXTILE
TIE TO EXISTING CHANNEL
REMOVE

-L- POT STA 17+31.66
-Y1- POT STA 14+21.36
PT Sta. 14+05.66
-Y1- STA 13+85.30
-L- STA 17+30.33
OFF. = 36.00 RT

BEGIN CONSTRUCTION
-Y1- STA 12+25.00

PC Sta. 12+50.40

N 47° 27' 45.9" E

DETAIL 1
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground, 3:1, D, 3:1 or Flatter, Front Ditch Slope
Min. D = 1.0 Ft.
FROM STA. 19+00 TO STA. 25+00 -L- RT
FROM STA. 12+25 TO STA. 12+90 -Y1- LT

CURVE DATA -L-

PI Sta 12+92.07	PI Sta 14+18.90	PI Sta 17+32.03	PI Sta 20+38.20	PI Sta 21+66.17
Δ = 3° 23' 28.8" (LT)	Δ = 7° 49' 23.8" (LT)	Δ = 29° 53' 19.9" (LT)	Δ = 5° 33' 04.1" (LT)	Δ = 2° 59' 22.7" (LT)
D = 3° 04' 49.5"	D = 5° 27' 24.3"	D = 6° 19' 51.7"	D = 3° 40' 22.1"	D = 2° 51' 01.9"
L = 110.09'	L = 143.37'	L = 472.10'	L = 151.14'	L = 104.88'
T = 55.06'	T = 71.80'	T = 241.55'	T = 75.63'	T = 52.45'
R = 1,860.00'	R = 1,050.00'	R = 905.00'	R = 1,560.00'	R = 2,010.00'
SE = 06	SE = 08	SE = 08	SE = 06	SE = 06
DS = 50mph	DS = 50mph	DS = 50mph	DS = 50mph	DS = 50mph

CURVE DATA -Y1-

PI Sta 13+35.79
Δ = 59° 18' 12.2" (LT)
D = 38° 11' 49.9"
L = 155.26'
T = 85.39'
R = 150.00'
SE = 02
DS = 20mph