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8/17/99

REVISIONS

-L- POT Sta. 10+00.00

-L- PC Sta. 10+37.52

-L- PT Sta. 12+73.00

BEG. APPROACH SLAB
-L- STA. 15+63.50
4'-5" | TYPE III | 4'-5" | 1'-1" | TYPE III | 4'-5"
11' | 04 | 11' | 04 | 11'
11' | 04 | 11' | 04 | 11'
4'-5" | TYPE III | 4'-5" | 1'-1" | TYPE III | 4'-5"
BEGIN BRIDGE -L- STA. 15+74.38
END BRIDGE -L- STA. 16+41.63
END APPROACH SLAB -L- STA. 16+52.50
SKETCH SHOWING BRIDGE-PAVEMENT RELATIONSHIP

-L-
PI Sta 11+55.91
Δ = 14° 42' 28.3" (LT)
D = 6° 14' 45.6"
L = 235.48'
T = 118.39'
R = 917.32'

PI Sta 17+62.06
Δ = 6° 11' 20.3" (RT)
D = 4° 26' 31.4"
L = 139.33'
T = 69.73'
R = 1,289.85'
SE = .04
RO = SEE PLANS
DS = 55MPH

PI Sta 19+82.13
Δ = 18° 54' 11.8" (RT)
D = 6° 20' 18.9"
L = 298.23'
T = 150.48'
R = 903.92'

LUTHER D. WILLIFORD
DB 1274 PG 937
DB 1489 PG 743
PB 31 PG 9
3

ANNIE W. SMITH
DB 1274 PG 941
PB 31 PG 9

OLD GOLDSBORO ROAD, LLC
DB 1690 PG 606

N 70°53'W E 116.77' 4' CHA LINK

OLD GOLDSBORO ROAD, LLC
DB 1690 PG 606

UNKNOWN CEMETERY
NO DEED REFERENCE
CEMETERY

N 20°05'02" W 118.35' TOTAL
14.27' R/W TO EIP
EIP
N 20°05'02" W 110.80'

2" TOWN OF NEWTON GROVE Charter Communication Century Link(2)

N 29°03'34" E 392.84'

ROBERT E. LEE
DB 1375 PG 775
1

PIPE EXPOSED BY THE TOWN OF NEWTON GROVE
CLASS II RIP RAP EL 161.5 (STR. PAY ITEM)

PROPERTY LINE IS RUN OF BEAVER DAM CREEK

SWAMP WAS DRY AT THE TIME OF SURVEY

BEAVER DAM

WOODS

+50.00 EX.R/W, 45' RT

EXISTING R/W

N 71°16' 28.2" E

18" RCP

6" TOWN OF NEWTON GROVE

SR 1703 (OLD GOLDSBORO RD)

N 56° 33' 59.8" E 10.2' 10.3'

20' BST

BRIDGE #348

TB 2GI

8:1

15' w/2 ol

S 42°30'00" E 435.22'

+75.00 EX.R/W, 45' RT

WOODS

22' TYP.

4' PS.

97.00

+25.00

50' TAPER

CLASS II RIP RAP EL 161.5 (STR. PAY ITEM)

EXCAVATE (STR. PAY ITEM)

EXCAVATE (STR. PAY ITEM)

END SBG Sta. 16+66

CLASS II RIP RAP EL 161.5 (STR. PAY ITEM)

CLASS B RIP RAP EST 1 TON EST GT 5 SY

+92.32 45' RT

PROPERTY LINE IS RUN OF BEAVER DAM CREEK

PIPE EXPOSED BY THE TOWN OF NEWTON GROVE

-L- PC Sta. 16+92.32

WILLIAM T. HERRING
DB 1933 PG 674
2

MARY MACK'S DEVELOPMENT, LLC.
DB 1853 PG 486

RETAIN

+99.00 EX.R/W, 45' RT

+92.32 45' LT

RETAIN

24" RCP

18" HDPE

10.5'
10.3'

SR 1703 (OLD GOLDSBORO RD)

20' BST

EXISTING R/W

N 65°12'W 404.24.60 N

N 10°01'08" W 409.52

0.53' EIP TO R/W

N 71° 39' 31.8" E

POND

GRAVEL

15" RCP

R/W MON

+77.00

22' TYP.

50' TAPER

+49.00

+99.00 EX.R/W, 45' RT

S 14°35'26" E 155.87'

S 14°16'35" E 157.68'

-L- PCC Sta. 18+31.65

-L- PT Sta. 21+29.88

P. B. JERNIGAN
DB 1203 PG 847
PB 28 PG 14
4

NANCY J. WISE
DB 1435 PG 93
PB 28 PG 14

-L- POT Sta. 21+66.00

END NCDOT PROJECT BR-0122
-L- POC STA. 17+99.00

BEGIN NCDOT PROJECT BR-0122
-L- POT STA. 13+75.00

NC GRID NAD 83 NA 2011

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
Liscense No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
BR-0122	4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER 12/19/2019
NORTH CAROLINA PROFESSIONAL SEAL 022999 ENGINEER GREG S PURVIS
Greg S. Purvis

HYDRAULICS ENGINEER 12/19/2019
NORTH CAROLINA PROFESSIONAL SEAL 15833 ENGINEER JERRY L LINDSEY
Jerry L. Lindsey

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEE SHEET RW02C-1 FOR BASELINE AND BENCHMARK INFORMATION

SEE SHEETS S-1 THRU S-13 FOR STRUCTURE PLANS

PI = 14+60.00
EL = 165.95'
VC = 162'
K = 96
DS = 50MPH*

PI = 17+20.00
EL = 165.05'
VC = 158'
K = 169
DS = 60MPH+

BEGIN GRADE STA.13+75.00 EL.167.68

BEGIN BRIDGE STA.15+74.38

END BRIDGE STA.16+41.63

END GRADE STA.17+99.00 EL.165.52

C STA 16+08 L
CROWN ELEV. 165.44
1 @ 65'-CORED SLAB 24" W/4.0" CAP
90 DEGREE SKEW

EX.GRADE (-)12.5198%
(-)12.0300%
(-)0.3467%
(-)0.3467%
(+)0.5897%
EX.GRADE (+)0.8259%

*MEETS SUBREGIONAL TIER GUIDELINES

LOWEST LOW CHORD
EXCAVATE TO ELEV. = 159.0' (STR. PAY ITEM)
CL. II RIP RAP KEY-IN 3.5' (STR. PAY ITEM)
EXCAVATE TO ELEV. = 159.0' (STR. PAY ITEM)
CL. II RIP RAP KEY-IN 3.5' (STR. PAY ITEM)
NWS ELEV. = 158.5'
W.S. ON 12/6/2018 ELEV. = 157.5'

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	=	500	CFS
DESIGN FREQUENCY	=	25	YRS
DESIGN HW ELEVATION	=	160.4	FT
BASE DISCHARGE	=	700	CFS
BASE FREQUENCY	=	100	YRS
BASE HW ELEVATION	=	160.8	FT
OVERTOPPING DISCHARGE	=	900+	CFS
OVERTOPPING FREQUENCY	=	500+	YRS
OVERTOPPING ELEVATION	=	165.7	FT
DATE OF SURVEY	=	12/6/18	
W.S. ELEVATION AT DATE OF SURVEY	=	157.5	FT

BM1 ELEVATION = 177.79
N 549342 E 2194683
L STATION 11+65.06 45.29 LEFT
BENCHTIE NAIL IN BASE OF 22" OAK

BM2 ELEVATION = 159.85
N 549541 E 2195150
L STATION 16+69.78 40.21 RIGHT
BENCHTIE NAIL IN BASE OF 24" OAK

11/18/2019
18:20:0
I:\SER\BR-0122_rdy_psh.dgn