Docusign Envelope ID: 664FD1DC-DAD6-42AD-9612-399142C2D6C7

5/28/99

–L–

BM #1
N 582323 E 720264
ELEVATION = 2467.10'
–L– STATION 11+91.90 58.51' LEFT

BM #2
N 582527 E 720108
ELEVATION = 2452.98'
–L– STATION 14+21.54 81.00' LEFT

Johnson, Mirmiran, & Thompson Inc.
4700 Falls of Neuse Rd, Suite 100,
Raleigh, NC, 27609
License No: C-3097

PROJECT REFERENCE NO.	SHEET NO.
B-6034	5

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 36135 ENGINEER JOHN C. LANSFORD — 11/25/2025

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 049441 ENGINEER BRADLEY S. RIDNOUR — Digitally signed by Bradley Ridnour — 12/1/2025

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

BEGIN PROJECT B-6034
STA. 10+80.00
EL. = 2,461.64

BEGIN DITCH LT
STA. –L– 11+00.00
ELEV=2,458.03

PI = 11+25.000
EL = 2,456.31

PI = 11+50.000
EL = 2,454.42

PI = 11+75.000
EL = 2,452.61

PI = 12+00.00
EL = 2,451.34'
VC = 220'
K = 27

PI = 12+00.000
EL = 2,451.10

BEGIN DITCH RT
STA. –L– 12+00.00
ELEV=2,452.82

PI = 12+25.000
EL = 2,450.04

PI = 12+25.000
EL = 2,450.09

(–)6.88%
(–)17.56%
(–)18.58147%
(–)1.24%
(–)6.04%
(–)0.97%
(–)4.24%
(–)0.5000%
(–)4.24%
(–)7.89%

CL STA. 13+20.5 –L–
1 @70', 24" CORED SLAB W/ 4' END CAPS
SKEW = 60
CL ELEV. = 2,450.74'

PROPOSED GRADE

EXISTING BRIDGE

PI = 14+30.00
EL = 2,450.19'
VC = 80'
K = 64

(–)0.5000%
(+)0.7588%

END PROJECT B-6034
STA. 16+00.00
EL. = 2,451.48

LOWEST CHORD

(+) 0.94%

EXISTING GROUND

1.5 :1

5.0'

3.5'

EMBED

100–YR WSEL=2446.9
25–YR WSEL=2445.6

EXCAVATE TO
ELEV. 2445.2
EST. 217 CY

END DITCH LT
STA. –L– 12+84.60
ELEV=2,447.51

END DITCH RT
STA. –L– 12+86.88
ELEV=2,445.21

EXIST. LOW CHORD

BEGIN DITCH LT
STA. –L– 13+50.00
ELEV=2,446.95

END DITCH LT
STA. –L– 13+83.00
ELEV=2,447.26

NWSEL=2438.4 (07–26–16)

LEFT DITCH
RIGHT DITCH

SEE PLAN SHEET 4 FOR PLAN

STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	= 2000 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 2445.6 FT
BASE DISCHARGE	= 2800 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 2446.91 FT
OVERTOPPING DISCHARGE	= 3700 CFS
OVERTOPPING FREQUENCY	= 500 +/- YRS
OVERTOPPING ELEVATION	= 2450.4 FT
W.S.ELEVATION AT DATE OF SURVEY	= 2446.19 FT

–Y–

BEGIN CONSTRUCTION –Y–
STA. 10+80.00
EL. = 2,450.82'

2,450.82

PI = 11+10.00
EL = 2,450.13'
VC = 50'
K = 17

(–)2.3000%
(+)0.6818%

END CONSTRUCTION –Y–
STA. 11+99.47
EL. = 2450.74'

2,450.74

SEE PLAN SHEET 4 FOR PLAN

11/17/2025 12:05:55 PM
C:\Projects\B-6034\Hydro\B-6034_rdy_pfl_psh.dgn
User:jmartord