F.A. PROJECT: NHF-60-1(9)

41+00 42+00

VPI = 43+30.000
EL. = 68.050
VC = 180.000m
0.5000% △ 3.4398%

GRADE DATA -L-

SPAN "F" SPAN "G" SPAN "H" SPAN "I" SPAN "J" SPAN "K"

70 65 60 55

MATCH LINE STA 40+80.000 -L-

TOP OF PILE FOOTING EL. 61.008
FIX FIX
STEEL PILES (TYP.)
BENT 6

TOP OF PILE FOOTING EL. 60.533
EXP. EXP.
EL. 58.5 (±)
EL. 58.8 (±)
EL. 58.5 (±)
EL. 59.0 (±)
EL. 58.7 (±)
STEEL PILES (TYP.)
BENT 7

ESTIMATED HIGH WATER EL. 60.05 (100 YR. STORM)

TOP OF PILE FOOTING EL. 60.857
FIX FIX
EL. 58.3 (±)
EL. 58.7 (±)
STEEL PILES (TYP.)
BENT 8

TOP OF PILE FOOTING EL. 61.381
FIX FIX
EL. 59.0 (±)
STEEL PILES (TYP.)
BENT 9

TOP OF BENT EL. 65.572
EXP. EXP.
EL. 60.0 (±)
STEEL PILES (TYP.)
BENT 10

FILL FACE @ END BENT 2
STA. 42+01.603 -L-,
10.500m LT.
GRADE POINT EL. 67.408

300mm MIN. EARTH BERM NORMAL TO CAP

CLASS II RIPRAP SLOPE 1.5 :1 NORMAL TO CAP
600
FIX
EL. 64.0 (±)
STEEL PILES

BEGIN FRONT SLOPE
STA. 42+04.533 -L-,
EL. 67.423
FILL
450
EL. 66.0 (±)
END BENT 2

APPROXIMATE EXISTING GROUND LINE
EL. 68.0 (±)

SECTION ALONG ℄ SURVEY -L-

BENTS AND END BENTS ON SECTION AT RIGHT ANGLES TO BENTS

480mm RIPRAP BERM EL. 65.311 (LEVEL)
CLASS II RIPRAP (600mm THICK)

℄ BENT 6
℄ BENT 7
℄ BENT 8
℄ BENT 9
℄ BENT 10

8.404m
16.596m

MATCH LINE STA 40+80.000 -L-

STA. 40+73.956 -L- 10.5000m LT.

W.P. 7L STA. 40+90.448 -L-, 10.500m LT.

WHITE OAK CREEK

W.P. 8L STA. 41+15.343 -L-, 10.500m LT.

W.P. 9L STA. 41+40.239 -L-, 10.500m LT.

W.P. 10L STA. 41+65.134 -L-, 10.500m LT.

W.P. 11L STA. 41+83.059 -L-, 10.500m LT.

W.P. 12L STA. 42+01.603 -L-, 10.5000m LT.

FILL FACE @ END BENT 2

BEGIN FRONT SLOPE STA. 42+04.533 -L-, 10.500m LT.

CONTROL LINE WBL GRADE POINT LINE

TO SMITHFIELD →

END APPROACH SLAB STA. 42+08.840 -L-, 10.500m LT.

BRIDGE IDENTIFICATION STA. 40+80.000 -L- P.O.C.

41 42

℄ SURVEY -L- US 70 (CLAYTON BYPASS)

W.B.

7 8 9 10 11 12 13

25.000m (ALONG ARC) 25.000m (ALONG ARC) 25.000m (ALONG ARC) 25.000m (ALONG ARC) 18.000m (ALONG ARC) 18.622m (ALONG ARC)

255.194m (ALONG ARC) LENGTH OF BRIDGE FILL FACE TO FILL FACE ALONG CONTROL LINE

PLAN

TABLE OF ANGLES	
No.	ANGLE
7	60°00'01"
8	59°42'54"
9	59°08'40"
10	58°34'24"
11	58°00'12"
12	57°35'32"
13	57°10'02"

-L-
P.I. = 38+81.623
D= 20°44'47.45" (RT.)
T= 457.630m
L= 905.237m
R= 2,500.000m
SUPER = 0.03m/m

DRAWN BY : J.B. GEILE DATE : 1/02
CHECKED BY : D.B. HOFF DATE : 1/02

METRIC

PROJECT NO. R-2552AB
JOHNSTON COUNTY
STATION: 40+80.000 -L- P.O.C.

SHEET 2 OF 6

TRANSYSTEMS CORPORATION
75 Beattie Place, Suite 400
Greenville, SC 29601 (864) 234-0866

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 16335 DAVID B. HOFF
3-7-03

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
GENERAL DRAWING
BRIDGE ON US 70 (CLAYTON BYPASS) OVER WHITE OAK CREEK (AUSTIN POND) BETWEEN SR 1525 (CORNWALLIS RD.) AND NC 42 (LEFT LANE)

DWG. NO.	TOTAL
2	68

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-259
1			3			TOTAL SHEETS
2			4			429