

HORIZONTAL CURVE DATA -L-

P.I. STA. 11+95.46 -L-
Δ = 21°51'16.6" (LT.)
D = 15°16'43.9"
L = 143.04'
T = 72.40'
R = 375.00'

P.V.I. STA. = 11+01.00 -L-
EL. = 2,480.92
V.C. = 110 FT.
(-)3.5515 %

-L- GRADE DATA

P.V.I. STA. = 12+61.00 -L-
EL. = 2,480.26
V.C. = 20 FT.
(-)0.4143 %

-L- GRADE DATA

HYDRAULIC DATA

DESIGN DISCHARGE----- 2,900 C.F.S.
FREQUENCY OF DESIGN FLOOD----- 25 YR.
DESIGN HIGH WATER ELEVATION----- 2,479.4
DRAINAGE AREA----- 19.5 SQ. MI.
BASE DISCHARGE (Q100)----- 4,300 C.F.S.
BASE HIGH WATER ELEVATION----- 2,480.2

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE----- 5,500 C.F.S.
FREQUENCY OF OVERTOPPING FLOOD----- 100+ YRS.
OVERTOPPING FLOOD ELEVATION----- 2,480.2 *

* OVERTOPPING LOCATION AT C-L- STA. 12+56

WS EL. TAKEN @ RIVER STATION 316.8

PROJECT NO.: 18314.1044073

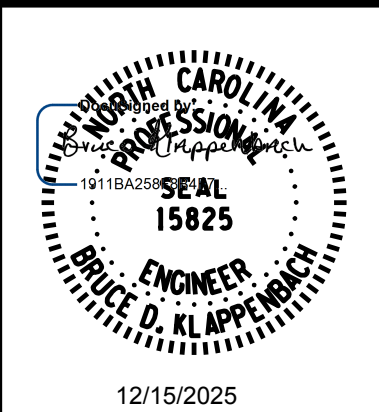
HAYWOOD COUNTY

STATION: 12+13.00 -L-

SHEET 1 OF 5 REPLACES BRIDGE NO. 430041

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING
FOR BRIDGE OVER CRABTREE
CREEK ON CRABTREE CHURCH
ROAD (SR 1357) BETWEEN
BUDS DRIVE AND RIVERSIDE
DRIVE (SR 1355)



Responsive People | Creative Solutions

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	
1			3		S-1 TOTAL SHEETS 21
2			4		

DRAWN BY : B. H. GONFA
CHECKED BY : B. D. KLAPPENBACH
DESIGN ENGINEER OF RECORD: B. D. KLAPPENBACH

DATE : JUL 2025
DATE : JUL 2025
DATE : JUL 2025