DocuSign Envelope ID: C2C1A29C-227F-4A8A-A531-41AC24DC46B0

-7.8000% △ -0.3548%

P. I. STA. = 14+55.00 -L-
EL. = 1,134.93
V. C. = 210'

GRADE DATA

15+00

SPAN A

15+50

1'-6" TO LIMIT OF UNCLASSIFIED STRUCTURE EXCAVATION (TYP.)

16+00

-0.3548% △ +1.0000%

P. I. STA. = 16+10.00 -L-
EL. = 1,134.38
V. C. = 80'

GRADE DATA

1140
1130
1120

W.P. #1
STA. 14+87.53 -L-
G.P. EL. 1135.75

1'-7" MIN. BERM (TYP.)

UNCLASSIFIED STRUCTURE EXCAVATION (TYP.)

BEGIN FRONT SLOPE
STA. 14+77.45 -L-
EL. 1136.06

FIX.

LOW CHORD
EL. 1132.31

EL. 1133±

EL. 1135±

1'-0" (TYP.)

DESIGN HIGH WATER
EL. 1129.7 (25-YR)

BASE HIGH WATER
EL. 1130.7 (100-YR)

NWS EL. 1123.4
(08/20/19)

HP 12 X 53
STEEL PILES

EL. 1123±

BANK STABILIZATION
(ROADWAY DETAIL &
PAY ITEM)

EXISTING SUBSTRUCTURE (TYP)

EL. 1123±

EL. 1126±

CLASS II RIP RAP SLOPE 1½:1
(TYP. BOTH END BENTS)

END BENT 1

EL. 1133±

1'-0" MIN. EARTH BERM (TYP.)

W.P. #2
STA. 15+60.53 -L-
G.P. EL. 1134.56

FIX.

LOW CHORD
EL. 1131.26

BEGIN FRONT SLOPE
STA. 15+71.44 -L-
EL. 1134.52

APPROXIMATE
EXISTING GROUND
ELEVATION

EL. 1134±

EL. 1127±

2'-0" (TYP.)

HP 12 X 53
STEEL PILES

EXCAVATE TO EL. 1127±
& GRADE TO DRAIN (TYP)

END BENT 2

HORIZONTAL CURVE DATA

P.I. STA. = 14+67.94 -L-
Δ = 18°-51'-28.00" (LT)
D = 10°-30'-46.80"
L = 179.38'
T = 90.51'
R = 545.00'

HORIZONTAL CURVE DATA

P.I. STA. = 16+12.05 -L-
Δ = 23°-07'-26.60" (LT)
D = 21°-13'-14.40"
L = 108.97'
T = 55.24'
R = 270.00'

SECTION ALONG -L-

CLASS II RIP RAP (TYP.)

EARTH BERM
EL. 1127.04

1'-0" MIN. EARTH BERM (TYP.)

JS

EXISTING STRUCTURE (TYP.)

NAKED CREEK

EARTH BERM
EL. 1126.04

W.P. #1
STA. 14+87.53 -L-

BEGIN FRONT SLOPE
STA. 14+77.45 -L-

TO SR 1154

-L- (SR 1148)

BRIDGE ID
STA. 15+23.00 -L-

LONG CHORD

W.P. #2
STA. 15+60.53 -L-

END APPROACH SLAB
STA. 15+72.03 -L-

TO SR 1151

15+00

130°-00'-00"
(TYP. TO LONG CHORD)

1'-0⅜"

BEGIN APPROACH SLAB
STA. 14+77.61 -L-

FILL FACE @
END BENT 1

PCC STA. 15+56.81 -L-

BEGIN FRONT SLOPE
STA. 15+71.44 -L-

FILL FACE @
END BENT 2

EARTH BERM
EL. 1128.90

EARTH BERM
EL. 1127.92

36'-5⅝"

36'-5⅝"

72'-11¼"

TOTAL LENGTH OF BRIDGE (FILL FACE TO FILL FACE ALONG LONG CHORD)

BANK STABILIZATION
(ROADWAY DETAIL &
PAY ITEM)

PLAN ALONG -L-

(PILES NOT SHOWN FOR CLARITY)

I HEREBY CERTIFY THESE PLANS
ARE THE AS-BUILT PLANS

PROJECT NO. 17BP.11.R.153

WILKES COUNTY

STATION: 15+23.00 -L-

SHEET 1 of 3 REPLACES BRIDGE NO. 419

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

BRIDGE 419 ON SR 1148 OVER NAKED CREEK BETWEEN SR 1154 AND SR 1151

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-1
1			3			TOTAL SHEETS
2			4			16

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NORTH CAROLINA PROFESSIONAL SEAL 037903 ENGINEER JEFFREY M KEPICH

DocuSigned by: Jeffrey Kepich 5/26/2021

ms consultants, inc.
5444 Wade Park Blvd.
Suite 160
Raleigh, NC 27607
NC License Number : C-3239

DRAWN BY : J.M. KEPICH DATE : 07/20
CHECKED BY : L.M. SAMPLES DATE : 05/21
DESIGN ENGINEER OF RECORD : J.M. KEPICH DATE : 05/21

$$$$$$$$SYSTIME$$$$$$
$$$$$$$$