BRIDGE PLANS ID	SHEET NO.

158+00 | 159+00 | 160+00

MUD CREEK FLOW

N

4'-0" Slope Flume & Riprap in accordance with Standard Drawing 719-920-00 (Typ. each corner)

15°-00'-00" (Typ.)

Guardrail (Typ. See Road Plans)

Existing 90'x24' Concrete & Timber Bridge to be removed and disposed of in accordance with Section 202.4.2 of the Standard Specifications.

1'-0" MASH Barrier & 1" Slab Extension (Typ.)

MBBTC2 Stiffness Transition (Typ. each corner)

℄ Survey S-186 & ℄ Bridge

Existing Bent (Typ.)

℄ Bent 3 & ℄ Joint

End of Bridge & ℄ Joint

To Hickory Grove

N 6° 59' 15" W

To Blacksburg

7'-9" | 10'-0" LANE | 10'-0" LANE | 7'-9"

13'-11" | 27'-10" Clear Roadway | 13'-11"

30'-0" Out to Out

10 Cored Slab Units

Begin Bridge & ℄ Joint

℄ Bent 2 & ℄ Joint

Deck Drain (Typ.)

10'-0" | 3 Spa. @ 10'-0" = 30'-0" | 10'-0"

Drain Spacing Typ. each span, both sides

Shoulder Break (Typ.)

Approximate Top of Bank

Approximate Channel Bottom

Approximate Toe of Slope (Typ.)

PLAN

150'-0" Cored Slab Bridge out to out

50'-0" (Span 1) | 50'-0" (Span 2) | 50'-0" (Span 3)

VERTICAL CURVE DATA
+0.00% △ +0.86%
VPI = 157+10.96
Elev. = 445.16
L = 135.0'

VERTICAL CURVE DATA
+0.86% △ -1.78%
VPI = 159+44.03
Elev. = 447.17
L = 165.0'

VERTICAL CURVE DATA
-1.78% △ +0.13%
VPI = 161+08.00
Elev. = 444.25
L = 150.0'

VPT = 157+78.46

Begin Bridge & ℄ Bent 1 Sta. 158+57.00 F.G. Elev. = 446.41

VPC = 158+61.53

℄ Bent 2 Sta. 159+07.00 F.G. Elev. = 446.68

℄ Bent 3 Sta. 159+57.00 F.G. Elev. = 446.54

End of Bridge & ℄ Bent 4 Sta. 160+07.00 F.G. Elev. = 446.01

VPT = 160+26.53

VPC = 160+33.00

Existing Ground @ ℄ Survey S-186

(1) Finished Grade

Steel HP Piles (Typ. End Bents)

2'-0" (Min.) Berm

2'-0" Berm

Existing Ground 20' Right of ℄ Survey S-186

Existing Ground 20' Left of ℄ Survey S-186

Riprap (Typ. See Road Plans)

2:1 (⊥ to Bent, Typ.)

Bench Elev. = 430.0'

Time of Survey (2/18/20) Water Elevation = 421.15

Grade new end slope to Elev. 422.0'

Drilled Shaft (Typ. Int. Bents)

BENT NO. → 1 | 2 | 3 | 4

470 | 460 | 450 | 440 | 430 | 420 | 410 | 400 | 390 | 380

+80 | +90 | 158+00 | +10 | +20 | +30 | +40 | +50 | +60 | +70 | +80 | +90 | 159+00 | +10 | +20 | +30 | +40 | +50 | +60 | +70 | +80 | +90 | 160+00 | +10 | +20 | +30 | +40 | +50 | +60 | +70 | +80

SECTION ALONG ℄ SURVEY S-816

Notes:

F indicates Fixed Bearing

E indicates Expansion Bearing

= Excavate hatched area (See Road Plans)

(1) Profile set by holding low chord at both bridge ends and raising grade for difference in structure depth.

CONCEPTUAL PLAN & PROFILE

		BY	CHK.	DATE
REV.				
REV.				
REV.				
REVIEWED				
QUAN.				
DR.	JAC			03-20
DES.				

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

BRIDGE PLAN & PROFILE
REPLACE BRIDGE OVER
MUD CREEK

COUNTY: YORK

ROUTE: S-816

Printed: Wednesday, March 18, 2020 11:47:42 AM