950053	PROJECT REFERENCE NO.	SHEET NO.
	17BP.4.R.105	CONST.4/EC-3
	R/W SHEET NO.	
	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

NAD 83/2011

BEGIN CONSTRUCTION
-L- POT STA.10+21.00

END CONSTRUCTION
-L- POT STA.14+39.00

BEGIN PROJECT
-L- POT STA.9+70.00

END PROJECT
-L- POT STA.14+96.00

ROCK PLATING
SEE STD. 275.01

CL II RIP RAP
W/ GEO FAB

VERTICAL PROTECTION

2 TON CL B
RIP RAP
W/ 7 SY
GEO FAB

GREU TL-3

TYPE III

TB 2GI

18" RCP-III

50' TAPER
TO EXISTING

22.5'
(TYP)

43.50

8:1

N 13° 37' 29.8" W

20'x20'
DISTURBANCE
AREA FOR BORE

TO SR 1342 (MEMORIAL CHURCH RD)

TO NC-222

10+00

15+00

EXIST R/W

WOODS

WLB

GREAT SWAMP

PL IS CENTERLINE OF GREAT SWAMP

AUDELIA AYCOCK
BLANKENSHIP
DB 808 PG 140

A N FAMILY
FARMS LLC
DB 3055 PG 486
PC G SLIDE 119

LLC
464
26-D

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

FOR STRUCTURE DESIGN SEE SHT. S-1 THRU S-15

BEGIN BRIDGE
-L- STA.11+98.88

END BRIDGE
-L- STA.12+66.13

SBG
-L- STA.12+77.00
TO STA.13+33.75

END APPROACH SLAB
-L- STA.12+77.00

BEGIN APPROACH SLAB
-L- STA.11+88.00

SBG
-L- STA.12+77.00
TO STA.13+24.95

TYPE III

5'-5"

10'

30'-10" CLEAR WIDTH
33'-0" (OUT-OUT)

.025

-L-

BM#1 BENCH TIE NAIL IN 12" PINE
N: 659028 E: 2289688
-L- STA 10+35.30 OFFSET 36.5' LT
ELEV. 111.64'

TIE TO EXISTING
SEE MILLING DETAIL

(-)0.8045%

(-)0.3326%

(-)0.3438%

BEGIN RESURFACING
-L- Sta.10+21.00
ELEV = 113.48'

BEGIN GRADE
-L- Sta.10+71.00
ELEV = 113.31'

BEGIN BRIDGE
-L- Sta.11+98.88
ELEV = 112.87'

END BRIDGE
-L- Sta.12+66.13
ELEV = 112.64'

PROPOSED GRADE

100-YR
111.2'

NWS
106.3'

EXISTING GROUND

CLASS II RIP RAP
VERTICAL PROTECTION

END GRADE
-L- Sta.13+89.00
ELEV = 112.22'

(-)0.6488%

END RESURFACING
-L- Sta.14+39.00
ELEV = 111.89'

(-)0.2198%

MILLING LIMITS:
-L- STA.10+21.00 TO 11+78.00
-L- STA.13+19.53 TO 14+39.00

STRUCTURE EXCAVATION

STRUCTURE EXCAVATION = 240 CY
(STRUCTURE PAY ITEM)

BRIDGE HYDRAULIC DATA
STR #950053 Sta. 12+32.5 -L-

DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 960	CFS
DESIGN HW ELEVATION	= 109.8	FT
100 YEAR DISCHARGE	= 1,400	CFS
100 YEAR FREQUENCY	= 100	YRS
100 YEAR HW ELEVATION	= 111.2	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 2,106	CFS
OVERTOPPING ELEVATION	= 111.9	FT

128 124 120 116 112 108 104 100 96 92

10+00 11+00 12+00 13+00 14+00 15+00

PLANS PREPARED BY :
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5/1/2018
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