5/28/99

REVISIONS

R/W REVISION (09/12/16) – DRIVEWAY ADDED AT –L– STA. 127+00.00. – JDG

PROJECT REFERENCE NO.	SHEET NO.
R-3826	22

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 025873 ENGINEER GARY R. LOVERING
11/SEP/2016
DocuSigned by: Gary Lovering

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 031986 ENGINEER JAMES R. RICE
11/SEP/2016
DocuSigned by:

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DITCH LEGEND

LEFT DITCH –·–·–·–·–

RIGHT DITCH ----------

- Y2 -

BEGIN GRADE
–Y2– STA 10+12.45
ELEV. = 53.95

PI = 10+87.00
EL = 56.93'
VC = 140'
K = 14

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO. I302

DRAINAGE AREA	= 8.90	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 17	CFS
DESIGN HW ELEVATION	= 43.68	FT
100 YEAR DISCHARGE	= 18	CFS
100 YEAR HW ELEVATION	= 43.80	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 36	CFS
OVERTOPPING ELEVATION	= 47.64	FT

PI = 14+20.00
EL = 36.98'
VC = 260'
K = 89

END GRADE
–Y2– STA 16+00.00
ELEV. = 31.43

(+)4.0000%
(–)5.9916%
(–) 2.2971%
24" RCP III
(–)5.9916%
(–) 3.2229%
(–) 4.3800%
(–)3.0833%
(–) 2.3133%
(–) 1.3533%
(–) 3.2800%

BEGIN 2' LATERAL BASE DITCH
STA. 10+50.00 LT.
EL = 45.40'

END 2' LATERAL BASE DITCH
STA. 12+25.00 LT.
EL = 41.38'

BEGIN 2' LATERAL BASE DITCH
STA. 12+25.00 RT.
EL = 40.78'

BEGIN 2' LATERAL BASE DITCH
STA. 13+50.00 LT.
EL = 35.56'

END 2' LATERAL BASE DITCH
BEGIN 2' BASE DITCH
STA. 14+00.00 RT.
EL = 35.14'

END 2' LATERAL BASE DITCH
BEGIN 2' BASE DITCH
STA. 14+50.00 LT.
EL = 31.18'

2' BASE DITCH
STA. 15+50.00 RT.
EL = 31.67'

END 2' BASE DITCH
STA. 16+00.00 LT.
EL = 29.15'

END 2' BASE DITCH
STA. 16+50.00 RT.
EL = 28.39'

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00

- DR1 -

PI = 10+10.00
EL = 56.88'

PI = 10+20.00
EL = 56.18'

PI = 11+00.00
EL = 44.98'

BEGIN GRADE
–DR1– STA 10+00.00
ELEV. = 56.98

(–)17.0000%
(–)11.0000%
(–)14.0000%
(–)14.3325%

END GRADE
–DR1– STA 11+25.00
ELEV. = 43.90

FOR –DR1– ALIGNMENT, SEE SHEET 12

10+00 11+00 12+00

- DR2 -

PI = 10+35.00
EL = 80.00'

PI = 10+80.00
EL = 77.25'

BEGIN GRADE
–DR2– STA 10+18.00
ELEV. = 80.23

(–)11.3529%
(–)16.1111%
(–)13.5714%

END GRADE
–DR2– STA 11+29.00
ELEV. = 75.50

FOR –DR2– ALIGNMENT, SEE SHEET 6

10+00 11+00 12+00

22-NOV-2016 10:56
R:\Roadway\R3826_Rdy_pfl_psh_22.dgn
RSTEVENS