

5/28/99



HNTB NORTH CAROLINA, P.C.
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Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO

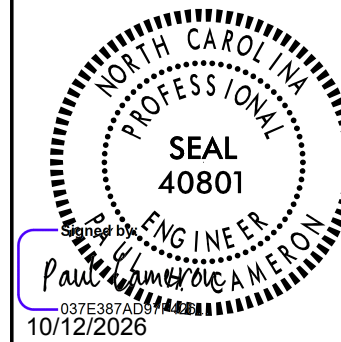
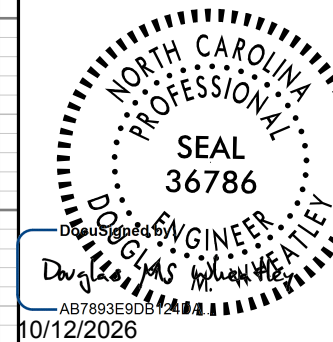
R-5759

SHEET NO.

39

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETE**

PIPE HYDRAULIC DATA
-Y15- Sta. 12+35

DRAINAGE AREA	=	124.5	AC
DESIGN FREQUENCY	=	25	YRS
DESIGN DISCHARGE	=	150	CFS
DESIGN HW ELEVATION	=	976.5	FT
100 YEAR DISCHARGE	=	200	CFS
100 YEAR HW ELEVATION	=	979.6	FT
OVERTOPPING FREQUENCY	=	<500	YRS
OVERTOPPING DISCHARGE	=	250	CFS
OVERTOPPING ELEVATION	=	981.4	FT

$$\begin{aligned} PI &= 10 + 75.00 \\ EL &= 989.01' \\ K &= 12 \\ VC &= 70' \\ V &= 25 \text{ MPH} \end{aligned}$$

PI =	12 + 00.00
EL =	980.26'
K =	17
VC =	130'
V =	20 MPH

$$\begin{aligned} \text{PI} &= 13 + 75.00 \\ \text{EL} &= 981.67' \\ \text{K} &= 257 \\ \text{VC} &= 100' \\ \text{V} &= 80 \text{ MPH} \end{aligned}$$

DITCH LEGEND

LEFT DITCH -----

RIGHT DITCH -----

FOR -Y15- PLAN, SEE SHEET 14

- Y16 -

PI = 10+75.00
 EL = 967.31'
 K = 20
 VC = 90'
 V = 20 MPH

BEGIN	GRADE
-Y16-	STA 10+27.44

END GRADE
-Y16- STA 11+25.0
ELEV. = 967.46'

FOR -Y16- PLAN, SEE SHEET 15

07-AUG-2026 09:40
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