Docusign Envelope ID: DF4F8170-0B46-8FE0-837A-C66002203B89

HNTB NORTH CAROLINA, P.C.
4000 Center at North Hills St.
Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
DF18314.2045330	5

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 37950 ENGINEER
Signed by: CRAIG MACKEY
7/20/2026

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 40801 ENGINEER
Signed by: MARK MARTIN
7/20/2026

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

5/28/99

-L-

BM #1
RR SPIKE IN BASE OF 20" HICKORY
–L– STA. 21+13.58, 57.70' LEFT
ELEVATION: 1,567.23'

PI = 19+00.00
EL = 1,573.15'
VC = 30'
K = 31
DS = 35 MPH

PI = 19+90.00
EL = 1,571.10'
VC = 105'
K = 45
DS = 30 MPH

PI = 22+50.00
EL = 1,571.24'
VC = 230'
K = 47
DS = 30 MPH

MILL EXISTING OVERLAY ON BRIDGE AND RESURFACE WITH 1.5" SURFACE COURSE

PROPOSED GRADE

END GRADE
–L– STA. 24+10.00
ELEV = 1,579.18'

BEGIN GRADE
–L– STA. 18+50.00
ELEV = 1,573.80'

(–)1.3040%

(–)2.2800%

(+)0.0556%

(+)4.9600%

(+) 3.05%

(+) 4.52%

LOW POINT
–L– STA. 20+40.00
ELEV = 1,571.13'

BEGIN EXIST. BRIDGE
–L– STA. 20+44.68

END EXIST. BRIDGE
–L– STA. 21+34.60

SEE DETAILS 4-3 AND 4-4 ON PSH 2D-2
FOR EXCAVATION AND BANK STABILIZATION

EXISTING GROUND

END SPECIAL CUT "V" DITCH
STA –L– 23+25 (LT)
ELEV = 1572.66'

PI
STA –L– 22+50 (LT)
ELEV = 1569.27

BEGIN SPECIAL CUT "V" DITCH
STA –L– 21+75 (LT)
ELEV = 1566.98

FOR -L- PLAN, SEE SHEET 4

15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00

1640 1630 1620 1610 1600 1590 1580 1570 1560 1550

-DETOUR-

PI = 11+60.00
EL = 1,572.91'
VC = 200'
K = 50
DS = 35 MPH

PROPOSED GRADE

EXISTING GROUND

(+)1.1200%

(+)5.1000%

(+) 3.24%

(+) 4.06%

BEGIN GRADE
–DETOUR– STA. 10+50.00
ELEV = 1,571.68'

END GRADE
–DETOUR– STA. 12+75.00
ELEV = 1,578.78'

END SPECIAL CUT "V" DITCH
STA –DETOUR– 12+57 (LT)
ELEV = 1576.50'

BEGIN SPECIAL CUT "V" DITCH
STA –DETOUR– 12+25 (LT)
ELEV = 1575.20'

END SPECIAL CUT "V" DITCH
STA –DETOUR– 11+75 (LT)
ELEV = 1573.56'

BEGIN SPECIAL CUT "V" DITCH
STA –DETOUR– 11+50 (LT)
ELEV = 1572.75'

FOR -DETOUR- PLAN, SEE SHEET 2B-1

10+00 11+00 12+00 13+00

1620 1610 1600 1590 1580 1570 1560 1550 1540 1530

20-JUL-2026 09:46
HNTB
C:\Projects\DF18314.2045330\Roadway\Design\Sheets\DF18314_2045330_SHT_197_RDY_PFL_05.dgn