



5/28/99



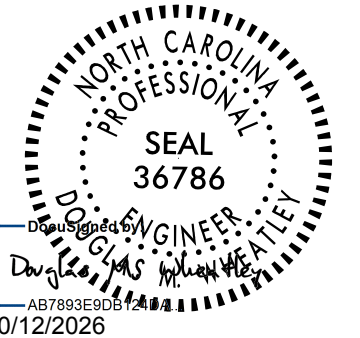
HNTB NORTH CAROLINA, P.C.
4000 Center at North Hills St
Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.
R-5759

ROADWAY DESIGN ENGINEER

SHEET NO.
34

HYDRAULICS ENGINEER



David M. Hitey
Professional Engineer
No. 36786
State of North Carolina
Expires 10/12/2026



Paul W. McAllister
Professional Engineer
No. 40801
State of North Carolina
Expires 10/12/2026

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

- Y8 -

CENTERLINE INTERSECTION
-Y8- STA 10+87.41=
-DRW5- STA 11+99.61

PI = 11+00.00
EL = 1,160.18'
K = 5
VC = 50'
V = 15 MPH

PI = 11+95.00
EL = 1,149.72'
K = 11
VC = 60'
V = 15 MPH

BEGIN GRADE
-Y8- STA 10+28.50
ELEV. = 1,160.89'

PROPOSED GRADE

EXISTING GROUND

END GRADE
-Y8- STA 12+25.00
ELEV. = 1148.07'

FOR -Y8- PLAN, SEE SHEET 10

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HNTB

- DRW5 -

PI = 10+90.00
EL = 1,158.67'
K = 74
VC = 120'
V = 45 MPH

BEGIN GRADE
-DRW5- STA 10+15.00
ELEV. = 1156.35'

PROPOSED GRADE

EXISTING GROUND

END GRADE
-DRW5- STA 11+90.46
ELEV. = 1160.15'

FOR -DRW5- PLAN, SEE SHEET 10

5/28/24



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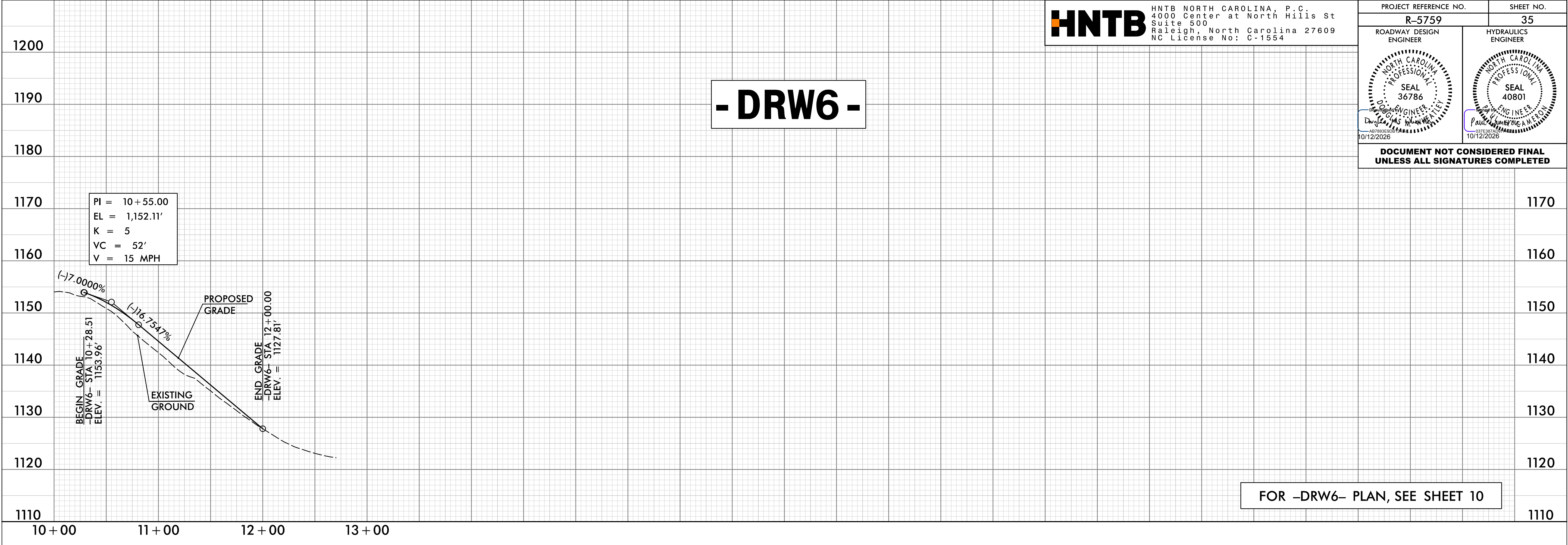
SHEET NO.
35

ROADWAY DESIGN
ENGINEER

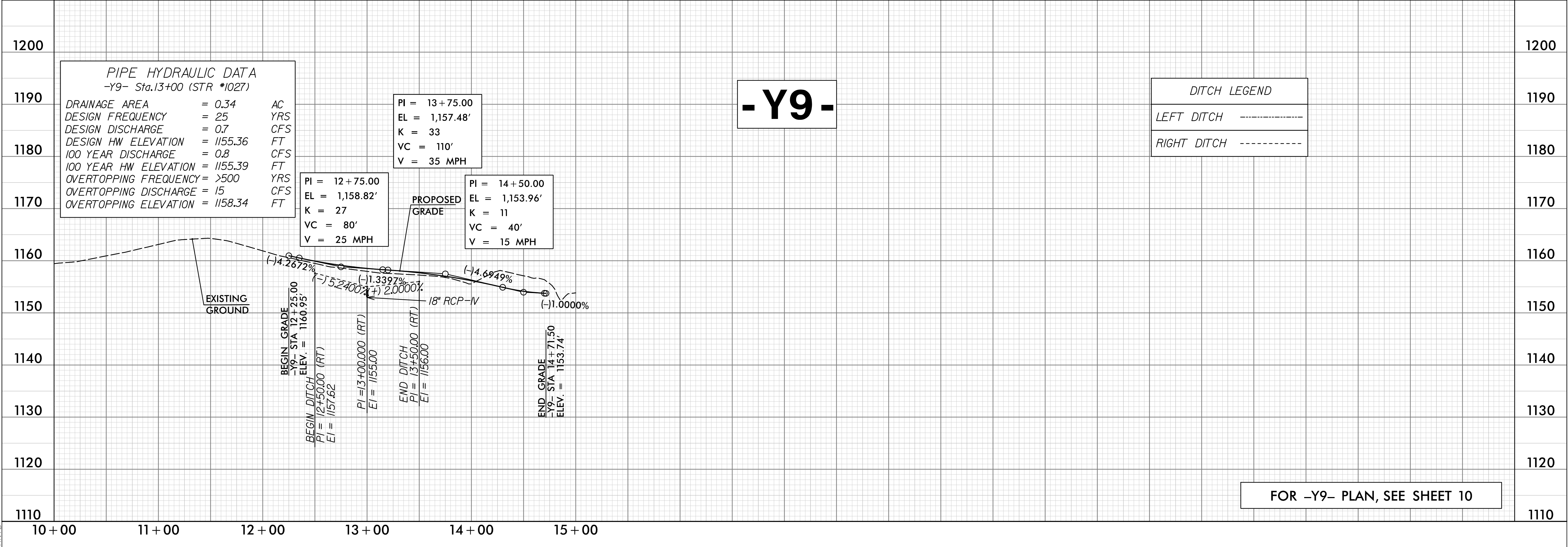
HYDRAULICS
ENGINEER



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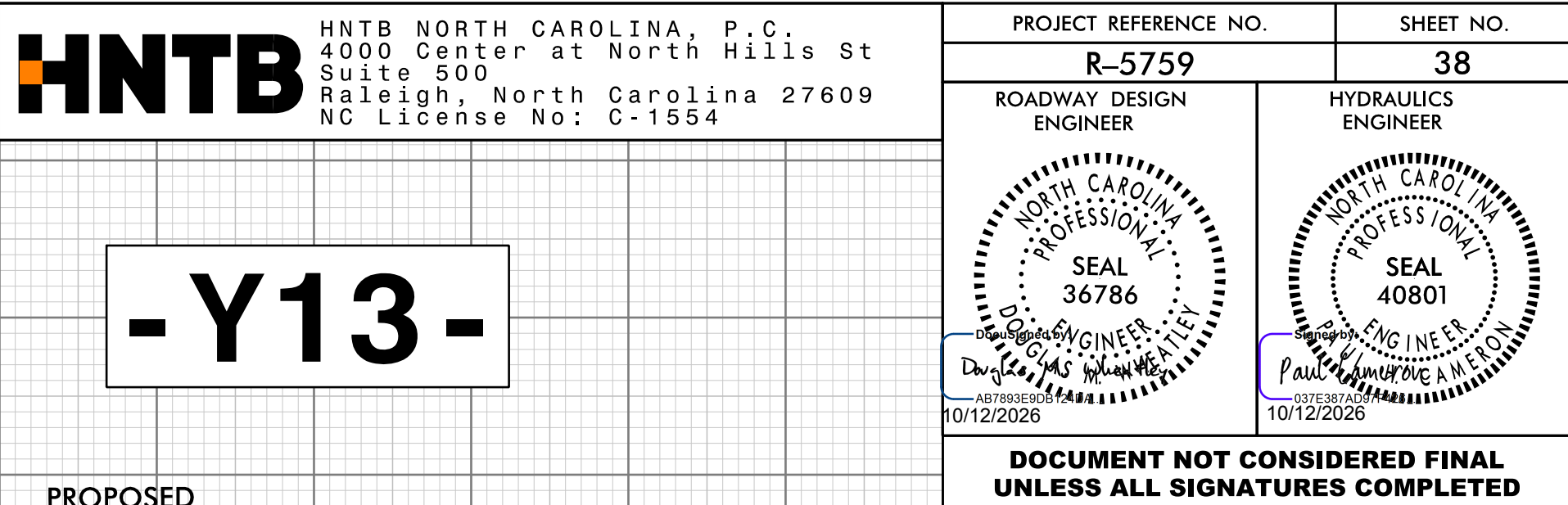


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DITCH LEGEND
LEFT DITCH -----
RIGHT DITCH -----

FOR -Y9- PLAN, SEE SHEET 10





5/28/24



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ROADWAY DESIGN ENGINEER

SHEET NO.
40

HYDRAULICS ENGINEER



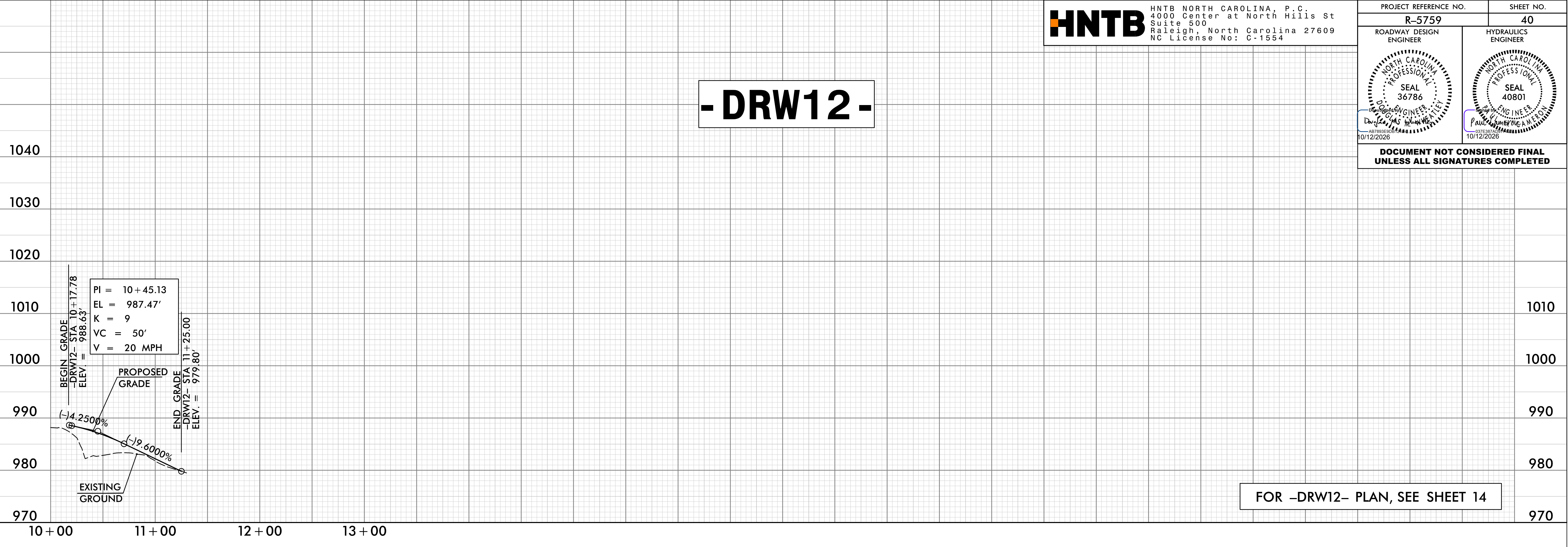
David M. McWhorter
Professional Engineer
Seal 36786
10/12/2026



Paul M. McWhorter
Professional Engineer
Seal 40801
10/12/2026

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UNLESS ALL SIGNATURES COMPLETED**

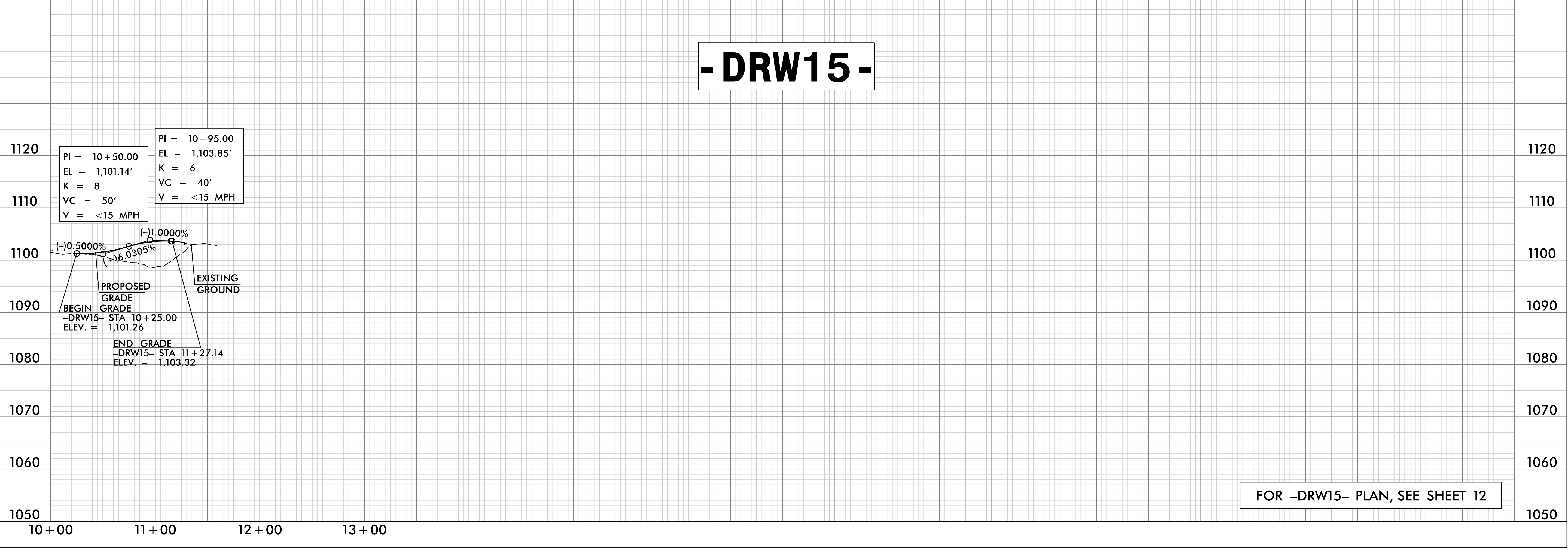
- DRW12 -



Profile view of road segment DRW12. The vertical axis represents elevation in feet, ranging from 970 to 1040. The horizontal axis represents stationing, ranging from 10+00 to 13+00. The profile shows a proposed grade line with a vertical curve. Key data points include: PI = 10+45.13, EL = 987.47', K = 9, VC = 50', V = 20 MPH. The existing ground is shown as a dashed line. The proposed grade starts at station 10+17.78 (Elev 988.63) and ends at station 11+25.00 (Elev 979.80). The grade is -4.2500% from station 10+17.78 to 10+45.13, and -9.6000% from station 10+45.13 to 11+25.00.

FOR -DRW12- PLAN, SEE SHEET 14

- DRW15 -



Profile view of road segment DRW15. The vertical axis represents elevation in feet, ranging from 1050 to 1120. The horizontal axis represents stationing, ranging from 10+00 to 13+00. The profile shows a proposed grade line with a vertical curve. Key data points include: PI = 10+50.00, EL = 1,101.14', K = 8, VC = 50', V = <15 MPH. The existing ground is shown as a dashed line. The proposed grade starts at station 10+25.00 (Elev 1,101.26) and ends at station 11+27.14 (Elev 1,103.32). The grade is -0.5000% from station 10+25.00 to 10+50.00, 6.0305% from station 10+50.00 to 10+95.00, and -1.0000% from station 10+95.00 to 11+27.14.

FOR -DRW15- PLAN, SEE SHEET 12

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