8/17/99

PROJECT REFERENCE NO.	SHEET NO.
HL-0025	5
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 030740 ENGINEER STEVEN MATHEW HARRIS

Signed by: Steve Harris 1/6/2026

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 053892 ENGINEER B. GREGORY ADCOCK

Signed by: B Gregory Adcock 1/6/2026

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/2011

-Y2- POT Sta. 17+02.17

N 35° 08' 25" W

PEGGY LAWRENCE DB 3856 PG 85

S 46°39'30" W 406.70'

N 47°21'13" E 328.26'

S 46°33'14" W 897.59'

-Y3- POT Sta. 10+00.00

12" HDPE

BEGIN CONSTRUCTION -Y3- POT Sta.10+75.00

-Y3- PC Sta. 10+80.74

BEGIN PROPOSED GRADE -Y3- POC Sta.11+00.00

-Y3- PT Sta. 11+50.35

-Y3- PC Sta. 12+13.90

END CONSTRUCTION -Y2- POT Sta.15+30.00

TIE TO EXIST. GUARDRAIL

PROP. REINFORCED SLOPE STABILIZATION -Y2- STA.14+00 TO STA.15+30

-Y2- PT Sta. 14+72.32

JOHN CLYBURN DB 26851PG 237

TRUSTEES OF MASONIC LODGE NO. 566 DB 713 PG 272

10+00 N 42° 33' 40.7" E

-Y3- N 44° 33' 19.6" E

-Y3- PT Sta. 12+66.84

N 64° 46' 28.4" E

-Y2- PRC Sta. 13+18.20 = -Y3- PT Sta.13+03.77

PROP. STUB UP FOR LIGHT POLE

-Y2- PRC Sta. 12+60.07

PROP. 2" SCH 40 ELECTRICAL DUCT

DUKE ENERGY PROP. POLE (BY OTHERS)

-L- POT Sta.24+50.69 = -Y4- POT Sta. 13+36.85

-L- POT Sta.22+27.48 =

-Y2- POT Sta. 11+00.00

HEADWALL TRASH RACKS

END CONSTRUCTION TIP HL-0025 -L- POT STA. 25+30.00

DB 37517PG 580 ADP MECKLENBURG, LLC

-L- PT Sta. 20+08.30

RED PILL INVESTMENTS, LLC DB 36219 PG 76

-Y2- PC Sta. 11+35.00

LATERAL 'V' DITCH SEE DETAIL B

CRESTDALE CROSSING HOMEOWNERS ASSOCIATION, INC. MB 35 PG 553 DB 12786 PG 731

N 38°51'41" E 106.47'

N 40°07'59" E 389.89'

-L- POT Sta. 27+00.00

20+00

25+00

N 38°53'03.7" E

15" RCP CLIV

MATTHEWS DB 31444 PG 1

-L- POT Sta. 27+00.00

END CONSTRUCTION -SIDEPATH- POT Sta.26+65.00

-Y4- PT Sta. 12+69.49

N 51° 06' 56.3" W

-Y2- POT Sta. 10+00.00

BEGIN PROPOSED GRADE -Y2- POT Sta.10+16.28

BEGIN CONSTRUCTION -Y2- POT Sta.10+05.24

OUTLET PROTECTION 10 TONS CLASS I RIPRAP 7 SY GEOTEXTILE

DRIVEWAY FOR RR EQUIPTMENT ACCESS

TOWN OF MATTHEWS DB 29844 PG 453

-Y4- PRC Sta. 11+80.16

-Y4- PC Sta. 10+91.28

BEGIN PROPOSED GRADE -Y4- POT Sta.10+45.00

-Y4- PT Sta. 10+00.00

N 50° 58' 00.7" W

10+00

BEGIN CONSTRUCTION -Y4- POC Sta.9+28.00

BEGIN PROP. 2'-6" C&G

OUTLET PROTECTION 10 TONS CLASS I RIPRAP 7 SY GEOTEXTILE

MATCHLINE -L- STA. 19+50 SEE SHEET 4

MATCHLINE -L- STA. 19+50 SEE SHEET 4

RED PILL INVESTMENTS,LLC DB 36219 PG 76 MB 36219 PG 76

OUTLET PROTECTION 10 TONS CLASS I RIPRAP 7 SY GEOTEXTILE

OUTLET PROTECTION 5 SY PERMANENT SOIL REINFORCEMENT MATTING

CYNTHIA A. WILLIAMS DB 10211PG 311 MB 29 PG 698

SONDRA LAWRENCE DB 10211PG 228 MB 29 PG 698

MICHAEL DALE ANTHONY AND WIFE, GOLDIE THELMA DEESE ANTHONY DB 10535 PG 685 MB 29 PG 698

TOWN OF MATTHEWS DB 10277 PG 167 MB 29 PG 460

-L-

PI Sta 17+13.57
Δ = 23°13' 14.4" (LT)
D = 3°53' 04.1"
L = 597.78'
T = 303.05'
R = 1,475.00'
e = NC (0.02)
V = 30 mph

-Y2-

PI Sta 11+99.66
Δ = 35°49' 51.8" (RT)
D = 28°38' 52.4"
L = 125.07'
T = 64.66'
R = 200.00'
e = NC (0.02)
V = 25 mph

PI Sta 13+69.90
Δ = 36°18' 03.6" (LT)
D = 17°06' 11.6"
L = 212.25'
T = 109.82'
R = 335.00'
e = NC (0.02)
V = 30 mph

-Y4-

PI Sta 9+25.47
Δ = 15°37' 34.0" (RT)
D = 10°25' 02.7"
L = 150.00'
T = 75.47'
R = 550.00'

PI Sta 11+36.76
Δ = 29°57' 25.0" (RT)
D = 33°42' 12.2"
L = 88.88'
T = 45.48'
R = 170.00'
e = NC (0.02)
V = 25 mph

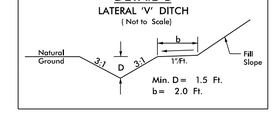
PI Sta 12+25.88
Δ = 30°06' 20.6" (LT)
D = 33°42' 12.2"
L = 89.33'
T = 45.72'
R = 170.00'
e = NC (0.02)
V = 25 mph

-Y3-

PI Sta 11+15.54
Δ = 1°59' 38.9" (RT)
D = 2°51' 53.2"
L = 69.61'
T = 34.81'
R = 2,000.00'

PI Sta 12+40.65
Δ = 20°13' 08.7" (RT)
D = 38°11' 49.9"
L = 52.93'
T = 26.74'
R = 150.00'
e = RC (0.02)
V = 20 mph

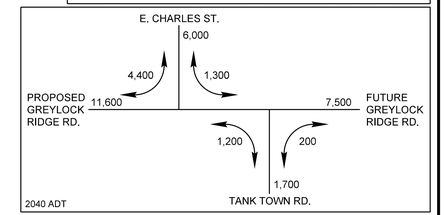
DETAIL B
LATERAL 'V' DITCH
(Not to Scale)



FROM STA. 19+50 TO STA. 21+28 LT
(39 CY DDE)

PAVEMENT REMOVAL

NOTE: ALL DRIVEWAY RADII 10 FT UNLESS OTHERWISE NOTED.



NOTES:

1) FOR ADDITIONAL ROW & EASEMENT INFORMATION SEE SHEET 5A.
2) FOR ROADWAY AND SIDEPATH PROFILES SEE SHEETS 6 THRU 8.
3) FOR -SIDEPATH- ALIGNMENT DETAIL SEE SHEETS 2B-1 & 2B-2.
4) FOR -Y3_DET- SEE SHEET 2B-3.
5) FOR INTERSECTION DETAILS SEE SHEET 2B-4.
6) FOR -L- MEDIAN DETAILS SEE SHEET 2B-4.
7) FOR HEADWALL TRACK RACK DETAIL SEE SHEET 2B-12.
8) FOR RAILROAD CROSSING DETAIL SEE SHEET 2B-14 & 2B-15.
9) FOR CONDUIT DETAIL SEE SHEET 2B-11.
10) TOP OF RAIL ELEVATIONS SHALL BE CHECKED AND VERIFIED TO MATCH PLAN SET BEFORE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF CSX. FIELD VERIFY TOP OF RAIL ELEVATIONS POST NEW CROSSING PANEL INSTALLATION. CONTRACTOR TO FIELD ADJUST PROFILE AT DIRECTION OF ENGINEER AT TIE-INS TO THE NEW CROSSING SURFACE PANEL AS THE ELEVATION MAY CHANGE.

ROADWAY DESIGN

AMT A. MORTON THOMAS AND ASSOCIATES, INC.
10735 DAVID TAYLOR DRIVE, SUITE 310 • CHARLOTTE, NC 28262
(704) 595-9975 • NC LICENSE NO. F-1049
WWW.AMTENGINEERING.COM

HYDRAULIC DESIGN

McCORMICK TAYLOR
5400 TRINITY ROAD
SUITE 102
RALEIGH, NC 27607
919.223.8965 NC LIC. NO. F-1285