

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

GENERAL NOTES: 2024 SPECIFICATIONS  
EFFECTIVE: 01-16-2024  
REVISED:

**GRADING AND SURFACING OR RESURFACING AND WIDENING:**

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

**CLEARING:**

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

**SUPERELEVATION:**

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

**SIDE ROADS:**

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

**UNDERDRAINS:**

UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.03 AT LOCATIONS DIRECTED BY THE ENGINEER.

**DRIVEWAYS:**

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.03 AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

**STREET TURNOUT:**

STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADIINOTED ON PLANS.

**TEMPORARY SHORING:**

SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS 'EXTRA WORK' IN ACCORDANCE WITH SECTION 104-7.

**SUBSURFACE PLANS:**

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

**UTILITIES:**

UTILITY OWNERS ON THIS PROJECT ARE Duke Energy, Windstream  
Union County Water, Piedmont Natural Gas, Sagra/Spirit, MCI/ Verizon  
Charlotte/ Spectrum, AT&T/ SourceOne Corp.,

**CURB RAMPS**

CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.06.

**2024 ROADWAY ENGLISH STANDARD DRAWINGS**

The following Roadway Standards as appear in 'Roadway Standard Drawings' Contracts Standards and Development Unit - N.C. Department of Transportation - Raleigh, N.C., Dated January 16, 2024 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO. TITLE

**DIVISION 2 - EARTHWORK**

200.02 Method of Clearing - Method II  
225.02 Guide for Grading Subgrade - Secondary and Local  
225.04 Method of Obtaining Superelevation - Two Lane Pavement

**DIVISION 3 - PIPE CULVERTS**

300.01 Method of Pipe Installation  
310.10 Driveway Pipe Construction

**DIVISION 6 - ASPHALT BASES AND PAVEMENTS**

654.01 Pavement Repairs

**DIVISION 8 - INCIDENTALS**

815.03 Pipe Underdrain and Blind Drain  
840.00 Concrete Base Pad for Drainage Structures  
840.02 Concrete Catch Basin - 12" thru 54" Pipe  
840.03 Frame, Grates and Hood - for Use on Standard Catch Basin  
840.14 Concrete Drop Inlet - 12" thru 30" Pipe  
840.15 Brick Drop Inlet - 12" thru 30" Pipe  
840.16 Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15  
840.22 Frames and Wide Slot Sag Grates  
840.25 Anchorage for Frames - Brick or Concrete or Precast  
840.31 Concrete Junction Box - 12" thru 66" Pipe  
840.32 Brick Junction Box - 12" thru 66" Pipe  
840.34 Traffic Bearing Junction Box - for Use with Pipes 42" and Under  
840.35 Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates  
840.45 Precast Drainage Structure  
840.46 Traffic Bearing Precast Drainage Structure  
840.54 Manhole Frame and Cover  
840.66 Drainage Structure Steps  
840.72 Pipe Collar  
846.01 Concrete Curb, Gutter and Curb & Gutter  
848.01 Concrete Sidewalk  
848.03 Driveway Turnout - Drop Curb Type  
848.04 Street Turnout  
848.06 Curb Ramp  
850.01 Concrete Paved Ditches  
876.02 Guide for Rip Rap at Pipe Outlets  
876.04 Drainage Ditches with Class 'B' Rip Rap

EFF. 01-16-2024  
REV.

U-5112  
UNION COUNTY

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REVISIONS

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1/4/2024