

**GENERAL NOTES:** 2002 SPECIFICATIONS  
EFFECTIVE: 01-15-02

**GRADE LINE:  
GRADING AND SURFACING:**

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED 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 III.

**SUPERELEVATION:**

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 OR 225.05 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.

**SHOULDER CONSTRUCTION:**

ASPHALT AND EARTH SHOULDER CONSTRUCTION ON HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01 OR 560.02.

**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.

**SHOULDER DRAINS:**

SHOULDER DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 816.02 AND DETAILS IN PLANS AT LOCATIONS DIRECTED BY THE ENGINEER.

**GUARDRAIL:**

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

**TEMPORARY SHORING:**

(C) SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC NOT SHOWN ON THE PLANS WILL BE PAID FOR AT THE CONTRACT PRICE FOR "TEMPORARY SHORING" OR "TEMPORARY SHORING-BARRIER SUPPORTED" DEPENDING UPON THE LOCATION OF THE SHORING.

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

**END BENTS:**

THE ENGINEER SHALL CHECK THE STRUCTURE END BENT PLANS, DETAILS, AND CROSS-SECTION PRIOR TO SETTING OF THE SLOPE STAKES FOR THE EMBANKMENT OR EXCAVATION APPROACHING A BRIDGE.

**UTILITIES:**

UTILITY OWNERS ON THIS PROJECT ARE:

- 1. PROGRESS ENERGY-POWER (DISTRIBUTION)
- 2. BELLSOUTH - TELEPHONE
- 3. CAROLINA CABLE PARTNERS - CATV
- 4. LUMBER RIVER EMC
- 5. CITY OF LUMBERTON ELECTRIC
- 6. SCHOOL LINK
- 7. TIME WARNER
- 8. NC NATURAL GAS CORPORATION

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

**RIGHT-OF-WAY MARKERS:**

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

EFF. 01-15-02

ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January 15, 2002 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO. TITLE  
**DIVISION 2 - EARTHWORK**

- 200.03 Method of Clearing - Method III
- 225.02 Guide for Grading Subgrade - Secondary and Local
- 225.03 Deceleration and Acceleration Lanes
- 225.04 Method of Obtaining Superelevation - Two Lane Pavement
- 225.05 Method of Obtaining Superelevation - Divided Highways
- 225.06 Method of Grading Sight Distance at Intersections
- 225.07 Grading for False Cut at Grade Separations
- 225.08 Earth Berm Median Pier Protection
- 225.09 Guide for Shoulder and Ditch Transition at Grade Separations

**DIVISION 3 - PIPE CULVERTS**

- 300.01 Method of Pipe Installation - Method 'A'
- 300.02 Method of Pipe Installation - Method 'B'
- 310.10 Driveway Pipe Construction

**DIVISION 5 - SUBGRADE, BASES AND SHOULDERS**

- 560.01 Method of Shoulder Construction - High Side of Superelevated Curve - Method I
- 560.02 Method of Shoulder Construction - High Side of Superelevated Curve - Method II

**DIVISION 6 - ASPHALT BASES AND PAVEMENTS**

- 610.01 Guide for Paving Shoulders Under Bridges - Method I
- 610.03 Guide for Paving Shoulders Under Bridges - Method III
- 654.01 Pavement Repairs
- 665.01 Milled Rumble Strips - Asphalt Pavements

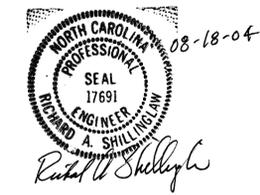
**DIVISION 7 - CONCRETE PAVEMENTS AND SHOULDERS**

- 700.05 Tying Proposed Pavement to Existing

**DIVISION 8 - INCIDENTALS**

- 815.03 Pipe Underdrain and Blind Drain
- 816.01 Concrete Pads - for Shoulder Drain Installation
- 816.02 Aggregate Shoulder Drain
- 816.04 Markers for Drainage Structure and Concrete Pad
- 820.04 Drain Installation in Shoulder Berm Gutter
- 838.01 Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90° Skew
- 838.11 Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90° Skew
- 838.21 Reinforced Concrete Endwall - for Single 54" Pipe 90° Skew
- 838.27 Reinforced Concrete Endwall - for Single 60" Pipe 90° Skew
- 838.33 Reinforced Concrete Endwall - for Single 66" Pipe 90° Skew
- 838.45 Notes for Reinforced Concrete Endwall - Std. Dwg.s 838.21 thru 838.40
- 838.51 Reinforced Brick Endwall - for Single 54" Pipe 90° Skew
- 838.57 Reinforced Brick Endwall - for Single 60" Pipe 90° Skew
- 838.63 Reinforced Brick Endwall - for Single 66" Pipe 90° Skew
- 838.75 Notes for Reinforced Brick Endwall - Std. Dwg.s 838.51 thru 838.70
- 838.80 Precast Endwalls - 12" thru 72" Pipe 90° Skew
- 840.00 Concrete Base Pad for Drainage Structures
- 840.01 Brick Catch Basin - 12" thru 54" Pipe
- 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.s 840.14 and 840.15
- 840.17 Concrete Median Drop Inlet Type 'A' - 12" thru 72" Pipe
- 840.18 Concrete Median Drop Inlet Type 'B' - 12" thru 36" Pipe
- 840.19 Concrete Median Drop Inlet Type 'D' - 12" thru 36" Pipe
- 840.20 Frames and Wide Slot Flat Grates
- 840.22 Frames and Wide Slot Sag Grates

- 840.24 Frames and Narrow Slot Sag Grates
- 840.25 Anchorage for Frames - Brick or Concrete
- 840.26 Brick Median Drop Inlet Type 'A' - 12" thru 72" Pipe
- 840.27 Brick Median Drop Inlet Type 'B' - 12" thru 36" Pipe
- 840.28 Brick Median Drop Inlet Type 'D' - 12" thru 36" Pipe
- 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
- 840.45 Precast Drainage Structure
- 840.54 Manhole Frame and Cover
- 840.66 Drainage Structure Steps
- 840.71 Concrete and Brick Pipe Plug
- 840.72 Pipe Collar
- 846.01 Concrete Curb, Gutter and Curb & Gutter
- 852.01 Concrete Islands
- 852.06 Method for Placement of Drop Inlets in Concrete Islands
- 862.01 Guardrail Placement
- 866.02 Woven Wire Fence - with Wood Post
- 876.01 Rip Rap in Channels
- 876.02 Guide for Rip Rap at Pipe Outlets



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