COMPUTED BY: _____ DATE: _____
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6/6/99

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2206C | 1-A |

ROADWAY DESIGN ENGINEER

# STATE OF NORTH CAROLINA
# DIVISION OF HIGHWAYS

# *INDEX OF SHEETS*

**C200911 (R-2206C)**
**CATAWBA / LINCOLN COUNTY**

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

**GRADE LINE:**
**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 **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:**

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.

**BERM DITCHES:**

BERM DITCHES SHALL BE CONSTRUCTED IN ACCORDANCE WITH **STD. NO. 240.01** AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

**UNDERDRAINS:**

UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH **STD. NO. 815.03** 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:**

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 :

**WATER & SEWER – LINCOLN COUNTY**

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 METRIC 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

225.04 Method of Obtaining Superelevation - Two Lane Pavement

225.05 Method of Obtaining Superelevation - Divided Highways

225.07 Grading for False Cut at Grade Separations

225.09 Guide for Shoulder and Ditch Transition at Grade Separations

240.01 Guide for Berm Ditch Construction

**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**

610.03 Guide for Paving Shoulders Under Bridges - Method III

654.01 Pavement Repairs

**DIVISION 8 - INCIDENTALS**

815.03 Pipe Underdrain and Blind Drain

820.04 Drain Installation in Shoulder Berm Gutter

838.01 Conc. Endwall for Single and Double Pipe Culverts - 375mm thru 1200mm Pipe 90° Skew

838.11 Brick Endwall for Single and Double Pipe Culverts - 375mm thru 1200mm Pipe 90° Skew

838.39 Reinforced Concrete Endwall - for Single 1800mm Pipe 90° Skew

838.69 Reinforced Brick Endwall - for Single 1800mm Pipe 90° Skew

840.00 Concrete Base Pad for Drainage Structures

840.17 Concrete Median Drop Inlet Type 'A' - 300mm thru 1800mm Pipe

840.18 Concrete Median Drop Inlet Type 'B' - 300mm thru 900mm Pipe

840.19 Concrete Median Drop Inlet Type 'D' - 300mm thru 900mm Pipe

840.22 Frames and Wide Slot Sag Grates

840.26 Brick Median Drop Inlet Type 'A' - 300mm thru 1800mm Pipe

840.27 Brick Median Drop Inlet Type 'B' - 300mm thru 900mm Pipe

840.28 Brick Median Drop Inlet Type 'D' - 300mm thru 900mm Pipe

840.29 Frames and Narrow Slot Flat Grates

840.31 Concrete Junction Box - 300mm thru 1650mm Pipe

840.32 Brick Junction Box - 300mm thru 1650mm Pipe

840.34 Traffic Bearing Junction Box - for Use with Pipes 1050mm and Under

840.35 Traffic Bearing Drop Inlet - for Cast Iron Double Frame and Grates

840.41 Spring Box - Concrete or Brick

840.54 Manhole Frame and Cover

840.66 Drainage Structure Steps

840.72 Pipe Collar

850.10 Guide for Berm Drainage Outlet - 400mm and 450mm Pipe

850.11 Guide for Berm Drainage Outlet - 600mm and 800mm Pipe

862.01 Guardrail Placement

866.01 Chain Link Fence - 1.2m, 1.5m and 1.8m High Fence

866.02 Woven Wire Fence - with Wood Post

866.04 Barbed Wire Fence with Wood Posts (2 - 7 Strands)

876.01 Rip Rap in Channels

876.02 Guide for Rip Rap at Pipe Outlets

876.04 Drainage Ditches with Class 'B' Rip Rap

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