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PROJECT REFERENCE NO.	SHEET NO.
W-5107	1A

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 022037 STEPHEN L. ALLEN
DocuSigned by: Stephen L. Allen
12/18/2014
SEAL NOT VALID UNLESS SIGNED AND DATED

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2012 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, 2012 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
225.06 Method of Grading Sight Distance at Intersections
225.09 Guide for Shoulder and Ditch Transition at Grade Separations

DIVISION 3 – PIPE CULVERTS

300.01 Method of Pipe Installation
310.10 Driveway Pipe Construction

DIVISION 4 – MAJOR STRUCTURES

422.11 Bridge Approach Fills

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
(Sheet 2 of 3 is no longer applicable)

DIVISION 6 – ASPHALT BASES AND PAVEMENTS

610.03 Guide for Paving Shoulders Under Bridges – Method III
654.01 Pavement Repairs

DIVISION 8 – INCIDENTALS

806.01 Concrete Right–of–Way Marker
806.02 Granite Right–of–Way Marker
815.02 Subsurface Drain
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
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 840.14 and 840.15
840.17 Concrete Grated Drop Inlet Type 'A' – 12" thru 72" Pipe
840.18 Concrete Grated Drop Inlet Type 'B' – 12" thru 36" Pipe
840.19 Concrete Grated Drop Inlet Type 'D' – 12" thru 36" Pipe
840.22 Frames and Wide Slot Sag Grates
840.25 Anchorage for Frames – Brick or Concrete or Precast
840.26 Brick Grated Drop Inlet Type 'A' – 12" thru 72" Pipe
840.27 Brick Grated Drop Inlet Type 'B' – 12" thru 36" Pipe
840.28 Brick Grated Drop Inlet Type 'D' – 12" thru 36" Pipe
840.35 Traffic Bearing Grated Drop Inlet – for Cast Iron Double Frame and Grates
840.36 Traffic Bearing Grated Drop Inlet – for Steel (840.37) Double Frame and Grates
840.37 Steel Grate and Frame
840.45 Precast Drainage Structure
840.46 Traffic Bearing Precast Drainage Structure
840.66 Drainage Structure Steps
840.71 Concrete and Brick Pipe Plug
840.72 Pipe Collar
846.01 Concrete Curb, Gutter and Curb & Gutter
846.04 Drop Inlet Installation in Shoulder Berm Gutter
850.01 Concrete Paved Ditches
852.01 Concrete Islands
852.06 Method for Placement of Drop Inlets in Concrete Islands
857.01 Precast Reinforced Concrete Barrier – 41" Single Faced
862.01 Guardrail Placement
862.02 Guardrail Installation
862.04 Anchoring End of Guardrail – B–77 and B–83 Anchor Units
865.01 Cable Guiderail
866.02 Woven Wire Fence – with Wood Post
876.02 Guide for Rip Rap at Pipe Outlets
876.04 Drainage Ditches with Class 'B' Rip Rap

GENERAL NOTES: 2012 SPECIFICATIONS

EFFECTIVE: 01–17–12
REVISED: 07/30/12

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 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, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN CCORDANCE WITH STD. NO. 560.01 & 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.

SUBSURFACE DRAINS:

SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 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 AT&T COMMUNICATIONS

DUKE ENERGY(DISTRIBUTION), PIEDMONT NATURAL GAS(DISTRIBUTION), CENTURY LINK

COMMUNICATIONS, TIME WARNER CABLE COMMUNICATIONS, JOHNSTON COUNTY

WATER, TOWN OF PINE LEVEL WATER

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 CONTRACT.