SHEET

CONVENTIONAL SYMBOLS

SURVEY CONTROL SHEETS

INTERSECTION DETAILS

SHEAR POINT DETAILS

CURB RAMP DETAILS

DRAINAGE DETAILS

SPECIAL CURB DETAILS

ROCK EMBANKMENT DETAIL

NOISE WALL ENVELOPES

TYPICAL SECTIONS

STRUCTURE DETAILS

INDEX OF SHEETS, GENERAL

NOTES, AND LIST OF STANDARDS

ALIGNMENT CURVE DATA SHEETS

TEMPORARY PAVEMENT DETAIL

GUARDRAIL PLACEMENT DETAILS

GUARDRAIL INSTATLLATION DETAILS

COAL COMBUSTION PRODUCT PLACEMENT DETAIL

EARTHWORK, GUARDRAIL, PAVEMENT REMOVAL,

STRUCTURE ANCHOR UNIT DETAILS

DRAINAGE STRUCTURE DETAILS

STOCKPILE CONTAINMENT DETAIL

GUIDERAIL, SHOULDER BERM GUTTER,

ROADWAY SPECIAL DETAILS

TITLE SHEET

SHEET NUMBER

1C-1 THRU 1C-9

2A-1 THRU 2A-11

2B-1 THRU 2B-4

2B-5 THRU 2B-7

2B-8 THRU 2B-9

2C-1 THRU 2C-7

2C-8 THRU 2C-13

2C-14 THRU 2C-17

2C-18 THRU 2C-21

2C-22 THRU 2C-26

2C-27 THRU 2C-28

2C-30 THRU 2C-32

2D-1 THRU 2D-4

2G-1 THRU 2G-4

2N-1 THRU 2N-14

3B-1 THRU 3B-4

2B-10 THRU 2B-11

1 A

1B

2B-12

2C-29

2H-1

01-24-2017

SHEET NO.

/A

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.

GENERAL NOTES: 2012 SPECIFICATIONS EFFECTIVE: 01-17-2012

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 MODIFIED 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 ACCORDANCE WITH STD. NO. 560.01

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.

DRIVEWAYS:

WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 900 MM RADII OR RADII AS SHOWN ON THE PLANS, LOCATIONS OF DRIVES

STREET TURNOUT:

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

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 (WAITING ON UTILITY OWNER INFO). 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.

CURB RAMPS

CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.05 and/or 848.06.

STANDARD DRAWINGS

2012 ROADWAY ENGLISH STANDARD DRAWINGS EFF. 01-17-2012

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:

REV. 05-24-2017

STD.NO. TITLE

DIVISION 2 - EARTHWORK

225.01 Guide for Grading Subgrade - Interstate and Freeway

225.02 Guide for Grading Subgrade - Secondary and Local

225.03 Deceleration and Acceleration Lanes

225.04 Method of Obtaining Superelevation - Two Lane Pavement Method of Obtaining Superelevation - Divided Highways 225.05

Method of Grading Sight Distance at Intersections 225.06

225.07 Grading for False Cut at Grade Separations Guide for Shoulder and Ditch Transition at Grade Separations 225.09

STANDARD DRAWINGS (CONT.)

876.02

876.04

Guide for Rip Rap at Pipe Outlets

Drainage Ditches with Class 'B' Rip Rap

DIVISION 3 - PIPE CULVERTS Method of Pipe Installation Driveway Pipe Construction DIVISION 4 - MAJOR STRUCTURES 422.10 Reinforced Bridge Approach Fills DIVISION 5 - SUBGRADE, BASES AND SHOULDERS Method of Shoulder Construction - High Side of Superelevated Curve - Method I 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 Guide for Paving Shoulders Under Bridges - Method III Pavement Repairs 654.01 Asphalt Shoulders - Milled Rumble Strips DIVISION 8 - INCIDENTALS Subsurface Drain Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew Reinforced Concrete Endwall - for Single 54" Pipe 90 Skew 838.27 Reinforced Concrete Endwall - for Single 60" Pipe 90 Skew 838.45 Notes for Reinforced Concrete Endwall - Std. Dwg 838.21 thru 838.40 Reinforced Brick Endwall - for Single 54" Pipe 90 Skew Reinforced Brick Endwall - for Single 60" Pipe 90 Skew Notes for Reinforced Brick Endwall - Std. Dwg 838.51 thru 838.70 Precast Endwalls – 12" thru 72" Pipe 90 Skew 840.01 Brick Catch Basin - 12" thru 54" Pipe Concrete Catch Basin - 12" thru 54" Pipe 840.02 Frame, Grates and Hood - for Use on Standard Catch Basin Concrete Open Throat Catch Basin - 12" thru 48" Pipe Brick Open Throat Catch Basin – 12" thru 48" Pipe Concrete Drop Inlet - 12" thru 30" Pipe Brick Drop Inlet - 12" thru 30" Pipe 840.15 Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15 Concrete Grated Drop Inlet Type 'A' - 12" thru 72" Pipe Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe 840.20 Frames and Wide Slot Flat Grates Frames and Wide Slot Sag Grates Frames and Narrow Slot Sag Grates 840.24 Anchorage for Frames - Brick or Concrete or Precast 840.25 Brick Grated Drop Inlet Type 'A' - 12" thru 72" Pipe Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe 840.27 840.29 Frames and Narrow Slot Flat Grates Concrete Junction Box - 12" thru 66" Pipe 840.31 Brick Junction Box - 12" thru 66" Pipe 840.32 Traffic Bearing Junction Box - for Use with Pipes 42" and Under 840.34 Traffic Bearing Grated Drop Inlet – for Cast Iron Double Frame and Grates 840.45 Precast Drainage Structure Traffic Bearing Precast Drainage Structure 840.46 Brick Manhole - 12" thru 36" Pipe 840.51 Precast Manhole - 4', 5' and 6' Diameter 840.52 Precast Manhole with Masonry Base - 12" thru 42" Pipe 840.53 Manhole Frame and Cover 840.54 840.66 Drainage Structure Steps 840.71 Concrete and Brick Pipe Plug 840.72 Pipe Collar 846.01 Concrete Curb, Gutter and Curb & Gutter Drop Inlet Installation in Shoulder Berm Gutter 846.04 Concrete Sidewalk 848.01 Driveway Turnout - Radius Type 848.02 Driveway Turnout - Drop Curb Type 848.03 848.04 Street Turnout 848.05 Curb Ramp - Proposed Curb & Gutter 852.01 Concrete Islands Method for Placement of Drop Inlets in Grassed Median - Using 1'-6" Curb and Gutter Median Curb for Catch Basin - for Use with 1'-6" Curb and Gutter 852.05 Method for Placement of Drop Inlets in Concrete Islands Median Construction - with Curb and Gutter Double Faced Concrete Barrier - Types 'T', 'T1' and 'T2' 854.02 Precast Reinforced Concrete Barrier - 41" Single Faced 862.04 Anchoring End of Guardrail - B-77 and B-83 Anchor Units 865.01 Cable Guiderail Chain Link Fence - 4', 5' and 6' High Fence 866.01 866.02 Woven Wire Fence - with Wood Post Rip Rap in Channels 876.01

AND FENCING SUMMARY SHEETS 3D-1 THRU 3D-28 DRAINAGE SUMMARY SHEETS 3G-1 GEOTECHNICAL SUMMARIES 3P-1 THRU 3P-2 PARCEL INDEX SHEETS 4 THRU 34 PLAN SHEETS 35 THRU 67 PROFILE SHEETS TMP-1 THRU TMP-34 TRAFFIC MANAGEMENT PLANS PMP-1 THRU PMP-39 PAVEMENT MARKING PLANS EC-1 THRU EC-61 EROSION CONTROL PLANS REFORESTATION PLAN SIGN-1 THRU SIGN-24 SIGNING PLANS SIG.1.0 THRU SIG.16.5 SIGNAL PLANS METAL POLE DETAILS SIG.M1 THRU SIG.M8 SCP-1 THRU SCP-52 SIGNAL COMMUNICATIONS PLANS UC-1 THRU UC-? UTILITY CONSTRUCTION PLANS UO-1 THRU UO-3 UTILITIES BY OTHERS PLANS X-1ACROSS SECTION INDEX OF SHEETS X-1B THRU X-1H CROSS SECTION EW SUMMARY SHEETS X-1 THRU X-278 CROSS SECTIONS STRUCTURE PLANS (-L- OVER -Y1) S1-1 THRU S1-36 S2-1 THRU S2-30 STRUCTURE PLANS (-L- OVER -Y2) S3-1 THRU S3-36 STRUCTURE PLANS (-L- OVER -Y8) S4-1 THRU S4-36 STRUCTURE PLANS (-Y8RPDB- OVER -Y8-) C1-1 THRU C1-6 CULVERT PLANS C2-1 THRU C2-4 CULVERT PLANS C3-1 THRU C3-7 CULVERT PLANS C4-1 THRU C4-4 CULVERT PLANS W-1 THRU W-13 RETAINING WALL PLANS NOISE WALL PLANS NW-1 THRU NW-17