

8/17/99

PROJECT REFERENCE NO. <i>R-2707C</i>	SHEET NO. <i>1A</i>
ROADWAY DESIGN ENGINEER	

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

SHEET NUMBER	INDEX OF SHEETS	GENERAL NOTES:	2012 SPECIFICATIONS	EFF. 01-17-2012
1	TITLE SHEET	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.	REV. 02-29-2016
1A	INDEX OF SHEETS, GENERAL NOTES AND LIST OF STANDARD DRAWINGS	CLEARING:	CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.	
1B	CONVENTIONAL SYMBOLS	SUPERELEVATION:	ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 224.05 & STD. NO. 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.	
1C-1 THRU 1C-9	SURVEY CONTROL SHEETS	SHOULDER CONSTRUCTION:	ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01 & STD. NO. 560.02	
2A-1 THRU 2A-7	PAVEMENT SCHEDULE AND 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.	
2B-1 THRU 2B-2	DETOUR PLAN AND PROFILE	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.	
2B-3 THRU 2B-7	INTERSECTION DETAILS	SUBSURFACE DRAINS:	SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 AT LOCATIONS DIRECTED BY THE ENGINEER.	
2B-8 THRU 2B-9	ENDANGERED PLANT BOUNDARY DETAILS	DRIVEWAYS:	DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 900 MM RADIUS OR RADIUS AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.	
2C-1	SPECIAL JOB	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.	
2C-2	GUARDRAIL ANCHOR UNIT, TYPE III	TEMPORARY SHORING:	SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.	
2C-3	CONVERT EXISTING TBI OR CB TO TBJB DETAIL	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.	
2C-4	TEMPORARY 1" STEEL COVER OVER DRAINAGE STRUCTURE DETAIL	UTILITIES:	UTILITY OWNERS ON THIS PROJECT ARE Duke Power, AT&T, Windstream, MCNC, City of Shelby	
2D-1 THRU 2D-4	DRAINAGE DITCH DETAILS	RIGHT-OF-WAY MARKERS:	ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.	
2G-1	TEMPORARY SHORING DETAIL 1801.01	ROCK	ROCK IS ANTICIPATED BETWEEN -L+ 386+50 TO 470+00. BLASTING MAY BE REQUIRED FOR EXCAVATION ON THE PROJECT. SEE SECTION 220 OF THE STANDARD SPECIFICATIONS AND IF APPLICABLE, ROCK BLASTING PROVISION.	
2H-1	STOCKPILE CONTAINMENT DETAIL			
3B-1	EARTHWORK SUMMARY			
3B-2	ASPHALT PAVEMENT REMOVAL SUMMARY, CONCRETE PAVEMENT REMOVAL SUMMARY, BREAKING ASPHALT PAVEMENT SUMMARY			
3B-3	WOVEN WIRE FENCE SUMMARY			
3B-4	GUARDRAIL SUMMARY			
3D-1 THRU 3D-20	DRAINAGE SUMMARY			
3G-1	GEOTECHNICAL SUMMARIES			
3P-1 THRU 3P-2	PARCEL INDEX SHEETS			
4 THRU 42	PLAN SHEETS			
43 THRU 77	PROFILE SHEETS			
TMP-1 THRU TMP-56	TRANSPORTATION MANAGEMENT PLANS			
PMP-1 THRU PMP-14	PAVEMENT MARKING PLANS			
EC-1 THRU EC-82	EROSION CONTROL PLANS			
RF-1 THRU RF-3	REFORESTATION PLANS			
SIGN-1 THRU SIGN-16	SIGNING PLANS			
SIG-1 THRU SIG-2	SIGNAL PLANS			
UC-1 THRU UC-41	UTILITY CONSTRUCTION PLANS			
UO-1 THRU UO-35	UTILITY BY OTHER PLANS			
X	CROSS-SECTION INDEX			
X-1A THRU X-1G	CROSS-SECTION VOLUME SHEETS			
X-1 THRU X-864	CROSS-SECTIONS			
S1-1 THRU S1-36	STRUCTURE PLANS - STRUCTURE #1			
S2-1 THRU S2-36	STRUCTURE PLANS - STRUCTURE #2			
S3-1 THRU S3-37	STRUCTURE PLANS - STRUCTURE #3			
S4-1 THRU S4-29	STRUCTURE PLANS - STRUCTURE #4			
S5-1 THRU S5-25	STRUCTURE PLANS - STRUCTURE #5			
S6-1 THRU S6-37	STRUCTURE PLANS - STRUCTURE #6			
S7-1 THRU S7-56	STRUCTURE PLANS - STRUCTURE #7			
S8-1 THRU S8-44	STRUCTURE PLANS - STRUCTURE #8			
S9-1 THRU S9-25	STRUCTURE PLANS - STRUCTURE #9			
S10-1 THRU S10-25	STRUCTURE PLANS - STRUCTURE #10			
S11-1 THRU S11-27	STRUCTURE PLANS - STRUCTURE #11			
C12-1 THRU C12-5	CULVERT PLANS			
C13-1 THRU C13-5	CULVERT PLANS			
W-1 THRU W-9	WALL PLANS			

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

225.01 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 Super-elevation - Two Lane Pavement

225.05 Method of Obtaining Super-elevation - Divided Highways

225.06 Method of Grading Sight Distance at Intersections

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

310.10 Driveway Pipe Construction

DIVISION 4 - MAJOR STRUCTURES

422.10 Reinforced Bridge Approach Fills

DIVISION 5 - SUBGRADE, BASES AND SHOULDERS

560.01 Method of Shoulder Construction - High Side of Super-elevated Curve - Method I

560.02 Method of Shoulder Construction - High Side of Super-elevated Curve - Method II (Sheet 2 of 3 is no longer applicable)

DIVISION 6 - ASPHALT BASES AND PAVEMENTS

610.01 Guide for Paving Shoulders Under Bridges - Method I

610.02 Guide for Paving Shoulders Under Bridges - Method II

610.03 Guide for Paving Shoulders Under Bridges - Method III

654.01 Pavement Repairs

DIVISION 8 - INCIDENTALS

806.03 Concrete Control of Access 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

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

838.39 Reinforced Concrete Endwall - for Single 72" Pipe 90 Skew

838.45 Notes for Reinforced Concrete Endwall - Std. Dwg 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

838.69 Reinforced Brick Endwall - for Single 72" Pipe 90 Skew

838.75 Notes for Reinforced Brick Endwall - Std. Dwg 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 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

840.20 Frames and Wide Slot Flat Grates

840.22 Frames and Narrow Slot Sag Grates

840.24 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

840.29 Frames and Narrow Slot Flat Grates

840.31 Concrete Junction Box - 12" thru 66" Pipe

840.32 Brick Junction Box - 12" thru 66" Pipe

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

840.71 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

848.02 Driveway Turnout - Radius Type

850.01 Concrete Paved Ditches

850.10 Guide for Berm Drainage Outlet - 15" and 18" Pipe

850.11 Guide for Berm Drainage Outlet - 24" and 30" Pipe

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

862.03 Structure Anchor Units (Beg. March 2013 Letting use detail in lieu of Standard)

862.04 Anchoring End of Guardrail - B-77 and B-83 Anchor Units

866.02 Woven Wire Fence - with Wood Post

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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