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2012 SPECIFICATIONS EFFECTIVE: 01-17-2012 10-31-2014 REVISED:

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:

GENERAL NOTES:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 & 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, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE 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.

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.

SUBSURFACE DRAINS:

SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 AT LOCATIONS DIRECTED BY THE ENGINEER.

SHOULDER DRAINS:

SHOULDER DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 816.03 AND DETAILS IN PLANS AT LOCATIONS DIRECTED BY THE ENGINEER.

DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.03 AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

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 CITY OF GREENSBORD - Water & Sewer, DUKE ENERGY PROGRESS - (Distribution), DUKE ENERGY PROGRESS - (Transmission), Time Warner Cablevision, AT&T of NC, PIEDMONT NATURAL GAS (Distribution) AND PIEDMONT NATURAL GAS (Transmission).

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.

ROCK

ROCK IS ANTICIPATED BETWEEN -L- STA. 426+25 RT. TO STA. 430+25 CL. BLASTING MAY BE REQUIRED FOR EXCAVATION ON THE PROJECT. SEE SECTION 220 OF THE STANDARD SPECIFICATIONS AND IF APPLICABLE, ROCK BLASTING PROVISION.

	PLANS PREPARED BY :	PROJECT REFERENCE NO	
	PARSONS RALEIGH, NORTH CAROLINA, (919) 854-1345 NC LICENSE NO. F-0246	<u>U-2524D</u>	/A ROADWAY DESIGN ENGINEER
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
EFF. 01-17-2012 REV. 10-30-2012			
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 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 310.10 Driveway Pipe Construction DIVISION 4 - MAJOR STRUCTURES			
422.10 Reinforced Bridge Approach Fills DIVISION 5 - SUBGRADE, BASES AND SHOULDERS			
- 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 610.01 Guide for Paving Shoulders Under Bridges - Method I			
654.01 Pavement Repairs DIVISION 7 - CONCRETE PAVEMENTS AND SHOULDERS 700.01 Concrete Pavement Joints - Construction and Contraction Joints			
 700.02 Expansion Joint Layout - for Rigid Doweled Pavement at Bridges 700.03 Dowel Assembly 700.04 Concrete Pavement Header Board 			
 700.05 Tying Proposed Pavement to Existing 710.01 Concrete Pavement - Station Marking 720.01 Concrete Shoulders - Stamped or Rolled Rumble Strips, Milled Rumble Strips 			
DIVISION 8 - INCIDENTALS 815.02 Subsurface Drain 816.01 Concrete Pads - for Shoulder Drain Installation			
 816.02 Aggregate Shoulder Drain 816.04 Markers for Drainage Structure and Concrete Pad 838.01 Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 			
90 Skew 838.02 Concrete Endwall and Sluice Gate 838.11 Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe			
90 Skew 838.27 Reinforced Concrete Endwall - for Single 60" Pipe 90 Skew 838.39 Reinforced Concrete Endwall - for Single 72" Pipe 90 Skew			
 Notes for Reinforced Concrete Endwall - Std. Dwg 838.21 thru 838.40 Reinforced Brick Endwall - for Single 60" Pipe 90 Skew 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			
840.04 Concrete Open Throat Catch Basin - 12" thru 48" Pipe 840.05 Brick Open Throat Catch Basin - 12" thru 48" Pipe 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 840.20 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 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 840.31 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 			
 840.51 Brick Manhole - 12" thru 36" Pipe 840.52 Precast Manhole - 4', 5' and 6' Diameter 840.53 Precast Manhole with Masonry Base - 12" thru 42" Pipe 			
 840.54 Manhole Frame and Cover 840.66 Drainage Structure Steps 846.01 Concrete Curb, Gutter and Curb & Gutter 			
 846.02 Drop Inlet Installation in Expressway Gutter 848.01 Concrete Sidewalk 848.03 Driveway Turnout - Drop Curb Type 			
848.04 Street Turnout 848.05 Curb Ramp - Proposed Curb & Gutter 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			
 852.02 Concrete Mountable Median - for Use with Rigid or Flexible Pavement 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 866.01 Chain Link Fence - 4', 5' and 6' High Fence			
866.02Woven Wire Fend876.01Rip Rap in Char876.02Guide for Rip F	ce – with Wood Post nnels Rap at Pipe Outlets		
	es with Class 'B' Rip Rap		