17/99

PROJECT REFERENCE NO. SHEET NO. V-5520 I-A

ROADWAY DESIGN
ENGINEER

WH CARO

SEAL

JAMES E.

2/14/2017

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

EFF. 01-17-2012

REV. 02-29-2016

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GENERAL NOTES:
                                     2012 SPECIFICATIONS
                                     EFFECTIVE: 01-17-2012
                                     REVISED: 10-31-2014
        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 ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY
        METHOD II.
        VATION:
        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.
        CONSTRUCTION:
        ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF
        SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01
        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.
        DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02
        USING 3' RADII OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES
        WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
        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.
         SHOR ING:
        SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC NOT SHOWN ON THE PLANS
        WILL BE PAID FOR AT THE CONTRACT PRICE FOR "TEMPORARY SHORING".
        UTILITY OWNERS ON THIS PROJECT ARE UNION COUNTY, DUKE ENERGY,
        UNION POWER, TIME WARNER CABLE, WINDSTREAM, PIEDMONT NATURAL GAS (PNG)
        ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT
        AS SHOWN ON THE PLANS.
        -WAY MARKERS:
        ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.
        CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS.
        CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.05 and/or 848.06.
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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
200.02 Method of Clearing - Method II
225.01 Guide for Grading Subgrade - Interstate and Freeway
225.04 Method of Obtaining Superelevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS
300.01 Method of Pipe Installation
310.10 Driveway Pipe Construction
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS
560.01 Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 6 - ASPHALT BASES AND PAVEMENTS
654.01 Pavement Repairs
DIVISION 8 - INCIDENTALS
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
838.80 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 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
840.31 Concrete Junction Box - 12" thru 66" Pipe
840.32 Brick Junction Box - 12" thru 66" Pipe
840.34 Traffic Bearing Junction Box - for Use with Pipes 42" and Under
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
848.01 Concrete Sidewalk
848.02 Driveway Turnout - Radius Type
848.05 Curb Ramp - Proposed Curb & Gutter
848.06 Curb Ramp – Existing Curb & Gutter
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
852.10 Median Construction - with Curb and Gutter
862.01 Guardrail Placement
862.02 Guardrail Installation
876.01 Rip Rap in Channels
876.02 Guide for Rip Rap at Pipe Outlets
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2012 ROADWAY ENGLISH STANDARD DRAWINGS