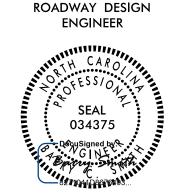
PROJECT REFERENCE NO. SHEET NO.

1-2513AA/AB



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

EFF. 01-16-2024

2024 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Contracts Standards and Development Unit - N. C. Department of Transportation - Raleigh, N. C., Dated January 16, 2024 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
225.03	Deceleration and Acceleration Lanes
225.05	Method of Obtaining Superelevation - Divided Highways
225.06	Method of Grading Sight Distance at Intersections
235.01	Embankment Monitoring
0.40 0.4	

240.01 Guide for Berm Ditch Construction 275.01 Rock Plating (Use Special Detail) DIVISION 3 - PIPE CULVERTS

300.01 Method of Pipe Installation DIVISION 4 - MAJOR STRUCTURES

423.01 Bridge Approach Fills - Type I Approach Fill for Bridge Abutment 423.03 Bridge Approach Fills - Type 2 Approach Fill for Bridge Abutment with MSE Wall (IN LIEU OF STANDARD, SEE DETAIL SHEETS 2G-4 TO 2G-6 AND SPECIAL PROVISIONS)

DIVISION 5 - SUBGRADE, BASES AND SHOULDERS 560.02 Method of Shoulder Construction - High Side of Superelevated Curve - Method II DIVISION 6 - ASPHALT BASES AND PAVEMENTS 654.01 Pavement Repairs

665.01 Asphalt Shoulders - Milled Rumble Strips 665.02 Limits for Asphalt Shoulders - Milled Rumble Strips 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 Pavement

710.01 Concrete Pavement - Station Marking 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 838.11 Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew

838.33 Reinforced Concrete Endwall - for Single 66" Pipe 90 Skew 838.45 Notes for Reinforced Concrete Endwall - Std. Dwg 838.21 thru 838.40 838.57 Reinforced Brick Endwall - for Single 54" Pipe 90 Skew 838.63 Reinforced Brick Endwall - for Single 60" Pipe 90 Skew

838.27 Reinforced Concrete Endwall - for Single 60" Pipe 90 Skew

838.57 Notes for Reinforced Brick Endwall - Std. Dwg 838.51 thru 838.70 Concrete Base Pad for Drainage Structures 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 840.19 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 840.31 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 840.36 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

840.54 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 846.02 Drop Inlet Installation in Expressway Gutter 846.04 Drop Inlet Installation in Shoulder Berm Gutter

848.01 Concrete Sidewalk 848.06 Curb Ramp

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

854.05 Concrete Median Transition Barrier - Location of Overhead Assembly 854.06 Median Hazard Protection 854.07 Single Slope Concrete Barrier

857.01 Precast Reinforced Concrete Barrier - 41" Single Faced 862.01 Guardrail Placement 862.02 Guardrail Installation

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

866.01 Chain Link Fence - 4', 5' and 6' High Fence 866.02 Woven Wire Fence - with Wood Post 866.06 Chain Link Fence on Retaining Wall

876.01 Rip Rap in Channels and Ditches 876.02 Guide for Rip Rap at Pipe Outlets 876.04 Drainage Ditches with Class 'B' Rip Rap

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SHEET NUMBER

2A-1 THRU 2A-11

2N-1 THRU 2N-3 NOISE WALL ENVELOPE DETAILS 3B-1 THRU 3B-3 ROADWAY SUMMARIES DRAINAGE SUMMARIES 3D-1 THRU 3D-10 3G-1 THRU 3G-3 GEOTECHNICAL SUMMARIES 3P-1 PARCEL INDEX SHEET 4 THRU 32 PLAN AND PROFILE SHEET RW-1 THRU RW-14 SURVEY CONTROL, EXISTING CENTERLINES, RIGHT OF WAY,

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SCP-1 THRU SCP-4 SIGNAL COMMUNICATION PLANS AND SPLICE DETAILS

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CROSS-SECTIONS

NW-1 THRU NW-5 NOISE WALL DETAILS W-1 THRU W-11 WALL PLANS

2024 SPECIFICATIONS GENERAL NOTES: EFFECTIVE: 01-16-2024 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:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH 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.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.02

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. 816.02 AND DETAILS IN PLANS 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 City of Asheville,

Metropolitan Sewerage District, and Duke Energy

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 IN ACCORDANCE WITH STD 848.06.