

# DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA



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2018 SPECIFICATIONS  
EFFECTIVE: 01-16-2018  
REVISED:

INDEX OF SHEETS	
SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, STANDARD DRAWINGS, AND GENERAL NOTES
1B	CONVENTIONAL SYMBOLS
1C-1 THRU 1C-2	SURVEY CONTROL SHEETS
2A-1	PAVEMENT SCHEDULE, TYPICAL SECTIONS
2C-1	GUARDRAIL INSTALLATION
2G-1 THRU 2G-5	STANDARD REINFORCED SOIL SLOPE (RSS) WITH HIGH GROUNDWATER, STANDARD REINFORCED SOIL SLOPE (RSS) WITH LOW GROUNDWATER, GEOTEXTILE FOR EMBANKMENT STABILIZATION DETAILS
2H-1	STOCKPILE CONTAINMENT DETAIL
3B-1 THRU 3B-2	GUARDRAIL SUMMARY, REMOVAL OF EXISTING ASPHALT PAVEMENT, BREAKING OF EXISTING ASPHALT PAVEMENT, SHOULDER BERM GUTTER SUMMARY, EARTHWORK SUMMARY
3D-1	DRAINAGE SUMMARY
3G-1	GEOTECHNICAL SUMMARIES
3P-1	PARCEL INDEX SUMMARY
4 THRU 7	PLAN AND PROFILE SHEETS
TMP-1 THRU TMP-6	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS
EC-1 THRU EC-7	EROSION CONTROL PLANS
RF-1	REFORESTATION PLAN
SIGN-1 THRU SIGN-3	SIGNING PLANS
UO-1 THRU UO-3	UTILITIES BY OTHERS PLANS
X-1A	CROSS-SECTION SUMMARY
X-1 THRU X-16	CROSS-SECTIONS
S-1 THRU S-46	STRUCTURE PLANS

2018 ROADWAY ENGLISH STANDARD DRAWINGS

EFF. 01-16-2018  
REV.

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" HIGHWAY DESIGN BRANCH - N. C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N. C., DATED JANUARY, 2018 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
- 225.02 GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL
- 225.04 METHOD OF OBTAINING SUPERELEVATION - TWO LANE PAVEMENT
- 275.01 ROCK PLATING

**DIVISION 3 - PIPE CULVERTS**

- 300.01 METHOD OF PIPE INSTALLATION
- 310.10 DRIVEWAY PIPE CONSTRUCTION

**DIVISION 4 - MAJOR STRUCTURES**

- 422.01 BRIDGE APPROACH FILLS - TYPE I STANDARD APPROACH FILL
- 422.03 REINFORCED BRIDGE APPROACH FILLS - TYPE A ALTERNATE APPROACH FILL FOR INTEGRAL ABUTMENT

**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**

- 806.01 CONCRETE RIGHT-OF-WAY MARKER
- 806.02 GRANITE RIGHT-OF-WAY MARKER
- 838.21 REINFORCED CONCRETE ENDWALL - FOR SINGLE 54" PIPE 90 SKEW
- 838.51 REINFORCED BRICK ENDWALL - FOR SINGLE 54" PIPE 90 SKEW
- 838.75 NOTES FOR REINFORCED BRICK ENDWALL - STD. DWG. 838.51 THRU 838.52
- 840.00 CONCRETE BASE PAD FOR DRAINAGE STRUCTURES
- 840.25 ANCHORAGE FOR FRAMES - BRICK OR CONCRETE OR PRECAST
- 840.29 FRAMES AND NARROW SLOT FLAT GRATES
- 840.35 TRAFFIC BEARING GRATED DROP INLET - FOR CAST IRON DOUBLE FRAME AND GRATES
- 840.46 TRAFFIC BEARING PRECAST DRAINAGE STRUCTURE
- 840.66 DRAINAGE STRUCTURE STEPS
- 840.72 PIPE COLLAR
- 846.01 CONCRETE CURB, GUTTER AND CURB & GUTTER
- 846.04 DROP INLET INSTALLATION IN SHOULDER BERM GUTTER
- 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
- 876.01 RIP RAP IN CHANNELS
- 876.02 GUIDE FOR RIP RAP AT PIPE OUTLETS

GENERAL NOTES:

**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. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATIONS 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.

**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 EDGEcombe MARTIN EMC (POWER), EDGEcombe COUNTY (WATER), CENTURY LINK (TELEPHONE), AND SUDDENLINK (CATV).

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 CONTRACT.