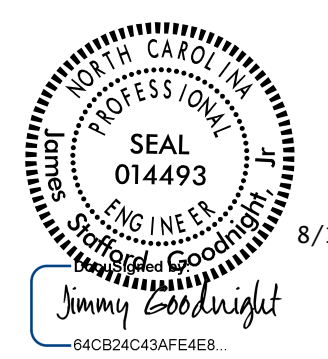


DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA



8/14/2023

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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
200.02 METHOD OF CLEARING - METHOD II
225.01 GUIDE FOR GRADING SUBGRADE - INTERSTATE AND FREEWAY
225.02 GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL
225.04 METHOD OF OBTAINING SUPERELEVATION - TWO LANE PAVEMENT
225.05 METHOD OF OBTAINING SUPERELEVATION - DIVIDED HIGHWAYS
225.06 METHOD OF GRADING SIGHT DISTANCE AT INTERSECTIONS
240.01 GUIDE FOR BERM DITCH CONSTRUCTION
275.01 ROCK PLATING (USE SPECIAL DETAIL)
- 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
815.03 PIPE UNDERDRAIN AND BLIND 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
838.39 REINFORCED CONCRETE ENDWALL - FOR SINGLE 72" PIPE 90 SKEW
838.40 REINFORCED CONCRETE ENDWALL - FOR DOUBLE AND TRIPLE 72" PIPES 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
838.69 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
840.04 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
840.24 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
840.29 FRAMES AND NARROW SLOT FLAT GRATES
840.31 CONCRETE JUNCTION BOX - 12" THRU 66" PIPE
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840.35 TRAFFIC BEARING GRATED DROP INLET - FOR CAST IRON DOUBLE FRAME AND GRATES
840.45 PRECAST DRAINAGE STRUCTURE
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840.66 DRAINAGE STRUCTURE STEPS
840.71 CONCRETE AND BRICK PIPE PLUG
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
848.04 STREET TURNOUT
848.05 CURB RAMP - PROPOSED CURB & GUTTER
848.06 CURB RAMP - EXISTING CURB & GUTTER
850.01 CONCRETE PAVED DITCHES
850.10 GUIDE FOR BERM DRAINAGE OUTLET - 15" AND 18" 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
876.01 RIP RAP IN CHANNELS
876.02 GUIDE FOR RIP RAP AT PIPE OUTLETS
876.04 DRAINAGE DITCHES WITH CLASS 'B' RIP RAP

GENERAL NOTES:
2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018
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 II.

SUPERELEVATION:
ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NOS. 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

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.

UNDERDRAINS:
UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.03 AT LOCATIONS 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.

UTILITIES:
UTILITY OWNERS ON THIS PROJECT ARE CHARTER, DUKE NET, CENTURY LINK & WILKES TELECOMMUNICATIONS - COMMUNICATIONS; FRONTIER - NATURAL GAS; WEST WILKES & TOWN OF WILKESBORO - WATER/SEWER

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.