



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
1C-1 THRU 1C-3	SURVEY CONTROL SHEETS
1D-1 THRU 1D-4	PROPOSED ALIGNMENT CONTROL SHEETS
1E-1 THRU 1E-8	RIGHT OF WAY CONTROL SHEETS, PERMANENT EASEMENT CONTROL SHEETS
2A-1 THRU 2A-9	PAVEMENT SCHEDULE, TYPICAL SECTIONS, WEDGING DETAIL, AND MILLING DETAIL
2B-1 THRU 2B-8	INTERSECTION DETAILS
2C-1 THRU 2C-30	DETAIL OF SLOTTED DRAIN 12"THRU 36"DIAMETER PIPE, DETAIL OF 8"X12"CURB TO 2'-6"CURB & GUTTER TRANSITION SECTION, SPECIAL D1 840D14, CONCRETE GRATED DROP INLET TYPE 'A' MINIMUM DEPTH, TYPE III REINFORCED APPROACH FILLS DETAIL, EXTRA DEPTH CONCRETE CATCH BASIN, MINIMUM DEPTH CONCRETE CATCH BASIN, CONCRETE MEDIAN DROP INLET TYPE 'A' EXTRA DEPTH OVER 12' TO 25', DETAIL TO CONVERT EXISTING D1, CB, DTGB OR G1 TO JUNCTION BOX (MANHOLE OPTIONAL), CONCRETE ENDWALL FOR (3 72" RCP, W/ PIPES IN WINGWALLS), CONCRETE ENDWALL FOR (60"RCP, 66"RCP, 72" WSP, W/ WINGWALLS), CONCRETE ENDWALL FOR (3 60"RCP, 72"RCP, W/ 48"RCP IN WINGWALL), DETAIL OF CHAIN LINK FENCE ON RETAINING WALL, COAL COMBUSTION PRODUCT PLACEMENT DETAIL, DETAIL OF GUARDRAIL INSTALLATION, DETAIL OF CURB RAMPS: DIRECTIONAL RAMPS, DETAIL OF CURB RAMPS: MEDIAN OR TURN ISLANDS, DETAIL OF CURB RAMPS: PARALLEL RAMPS, DETAIL OF CURB RAMPS: SHARED LANDING, METHOD FOR PLACEMENT OF DROP INLETS IN CONCRETE ISLANDS, SPECIAL JUNCTION BOX WITH SLAB LID, DETAIL OF PIPE COLLARS, DETAIL OF 1'-6" CURB & GUTTER TRANSITION SECTION
2G-1	GEOTECHNICAL DETAIL
2H-1	STOCKPILE CONTAINMENT DETAIL
2N-1 THRU 2N-2	NOISE WALL ENVELOPE DETAILS
3B-1 THRU 3B-2	SUMMARY OF GUARDRAIL, PAVEMENT REMOVAL SUMMARY, SUMMARY OF CONCRETE BARRIER, AND EARTHWORK SUMMARY
3D-1 THRU 3D-44	DRAINAGE SUMMARY
3G-1	GEOTECHNICAL SUMMARY
3P-1 THRU 3P-2	PARCEL INDEX SHEETS
4A THRU 52	PLAN AND PROFILE SHEETS
TMP-1 THRU TMP-31	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-30	PAVEMENT MARKING PLANS
EC-1 THRU EC-69	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-33	SIGNING PLANS
SIG-1 THRU SIG-M8	SIGNAL PLANS
SCP-1 THRU SCP-48	SIGNAL COMMUNICATION PLANS
UO-1 THRU UO-29	UTILITIES BY OTHERS PLANS
UC-1 THRU UC-60	UTILITIY PLANS
X-0A THRU X-0J	CROSS-SECTION INDEX SHEET AND SUMMARY
X-1 THRU X-166	CROSS-SECTIONS
S-1 THRU S-26	STRUCTURES PLANS
C1-1 THRU C1-18	CULVERT 1 PLANS
C2-1 THRU C2-3	CULVERT 2 PLANS
SBW-1 THRU SBW-3	SOUND BARRIER WALL PLANS
W-1 THRU W-9	RETAINING WALL PLANS

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 11.

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. 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 OR 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.

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

DRIVEWAYS: DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3 FOOT RADIUS OR RADIUS AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

STREET TURNOUT: STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADIUS 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 NOT SHOWN ON THE PLANS WILL BE PAID FOR AT THE CONTRACT PRICE FOR "TEMPORARY SHORING".

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 Fayetteville PWC (Power) Aqua NC (Water), Fayetteville PWC (Water and Sewer) Piedmont Natural Gas (Gas) CenturyLink (Communication), Spectrum (Communication), Level 3 (Communication)

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.

2018 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, 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 11
 225.02 Guide for Grading Subgrade - Secondary and Local
 225.04 Method of Obtaining Superlevation - Two Lane Pavement
 275.01 Rock Plating

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 1
 560.02 Method of Shoulder Construction - High Side of Superelevated Curve - Method 11

DIVISION 6 - ASPHALT BASES AND PAVEMENTS
 654.01 Pavement Repairs

DIVISION 8 - INCIDENTALS
 815.02 Subsurface 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
 838.33 Reinforced Concrete Endwall - for Single 66" Pipe 90 Skew
 838.45 Notes for Reinforced Concrete Endwall - Std. Dwg 838.21 thru 838.40
 838.63 Reinforced Brick Endwall - for Single 66" 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
 840.19 Concrete Grated Drop Inlet Type 'D' - 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
 840.28 Brick Grated Drop Inlet Type 'D' - 12" thru 36" Pipe
 840.29 Frames and Narrow Slot Flat Grates
 840.30 Driveway Drop Inlet
 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
 840.35 Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
 840.45 Precast Drainage Structure
 840.46 Traffic Bearing Precast Drainage Structure
 840.54 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
 846.04 Drop Inlet Installation in Shoulder Berm Gutter
 848.01 Concrete Sidewalk
 848.02 Driveway Turnout - Radius Type
 848.04 Street Turnout
 848.05 Curb Ramp - Proposed Curb & Gutter
 852.01 Concrete Islands
 852.04 Method for Placement of Drop Inlets in Grassed Median - Using 1'-6" Curb and Gutter
 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 (Special Detail for Type III Anchor Units Sheets 1 of 7 and 2 of 7)
 862.04 Anchoring End of Guardrail - B-77 and B-83 Anchor Units
 866.02 Woven Wire Fence - with Wood Post
 876.01 Rip Rap in Channels
 876.02 Guide for Rip Rap at Pipe Outlets
 876.04 Drainage Ditches with Class 'B' Rip Rap