

8/17/99

14-FEB-2017 16:58  
R:\F\02\UN\B49E0\_Rdy\_tsh\_1A.dgn  
\$\$\$\$\$USERNAME\$\$\$\$\$

|                                                                                                |           |
|------------------------------------------------------------------------------------------------|-----------|
| PROJECT REFERENCE NO.                                                                          | SHEET NO. |
| B-4950                                                                                         | 1A        |
| ROADWAY DESIGN<br>ENGINEER                                                                     |           |
| <div></div> |           |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED                               |           |



## INDEX OF SHEETS

| SHEET NUMBER     | SHEET                                                                          |
|------------------|--------------------------------------------------------------------------------|
| 1                | TITLE SHEET                                                                    |
| 1A               | INDEX OF SHEETS, GENERAL NOTES,<br>AND STANDARD DRAWINGS                       |
| 1B               | CONVENTIONAL SYMBOLS                                                           |
| 1C-1             | SURVEY CONTROL SHEET                                                           |
| 2A-1             | PAVEMENT SCHEDULE, TYPICAL SECTIONS,<br>AND WEDGING DETAIL                     |
| 2C-1             | STRUCTURE ANCHOR UNIT – TYPE III DETAIL                                        |
| 2C-2             | COAL COMBUSTION PRODUCT PLACEMENT DETAIL                                       |
| 3B-1             | SUMMARY OF EARTHWORK, PAVEMENT REMOVAL,<br>SHOULDER BERM GUTTER, AND GUARDRAIL |
| 3D-1             | SUMMARY OF DRAINAGE                                                            |
| 4                | PLAN SHEET                                                                     |
| 5                | PROFILE SHEET                                                                  |
| TMP-1 THRU TMP-3 | TRANSPORTATION MANAGEMENT PLANS                                                |
| PMP-1            | PAVEMENT MARKING PLANS                                                         |
| EC-1 THRU EC-5   | EROSION CONTROL PLANS                                                          |
| SIGN-1           | SIGNING PLANS                                                                  |
| UO-1 THRU UO-2   | UTILITIES BY OTHERS PLANS                                                      |
| X-1A             | CROSS-SECTION SUMMARY SHEET                                                    |
| X-1 THRU X-7     | CROSS-SECTIONS                                                                 |
| S1-1 THRU S1-25  | STRUCTURE PLANS                                                                |
| S2-1 THRU S2-26  | STRUCTURE PLANS                                                                |

## GENERAL NOTES

|                                       |                                                                                                                                                                                                                                                                          |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GENERAL NOTES:                        | 2012 SPECIFICATIONS<br>EFFECTIVE: 01-17-2012<br>REVISED: 10-31-2014                                                                                                                                                                                                      |
| GRADE LINE:<br>GRADING AND SURFACING: | THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED 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 “MODIFIED” WITH HAND CLEARING BEYOND THE SLOPE STAKES.                                                                                                                               |
| 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                                                                                                                                  |
| 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 South River EMC (Power)                                                                                                                                                                                                               |
|                                       | ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.                                                                                                                                                                                                     |
| RIGHT-OF-WAY MARKERS:                 | ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.                                                                                                                                                                                                      |

## STANDARD DRAWINGS

|                                                                                                                                                                                                                                                                        |                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                        | EFF. 01-17-2012<br>REV. 02-29-2016                                            |
| 2012 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, 2012 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                        |
| DIVISION 3 – PIPE CULVERTS                                                                                                                                                                                                                                             |                                                                               |
| 300.01                                                                                                                                                                                                                                                                 | Method of Pipe Installation                                                   |
| DIVISION 4 – MAJOR STRUCTURES                                                                                                                                                                                                                                          |                                                                               |
| 422.10                                                                                                                                                                                                                                                                 | Reinforced Bridge Approach Fills                                              |
| DIVISION 5 – SUBGRADE, BASES AND SHOULDERS                                                                                                                                                                                                                             |                                                                               |
| 560.01                                                                                                                                                                                                                                                                 | Method of Shoulder Construction – High Side of Superelevated Curve – Method I |
| DIVISION 8 – INCIDENTALS                                                                                                                                                                                                                                               |                                                                               |
| 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                                                      |
| 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                                                        |
| 876.02                                                                                                                                                                                                                                                                 | Guide for Rip Rap at Pipe Outlets                                             |