

8/17/99

# GENERAL NOTES

**GENERAL NOTES:** 2012 SPECIFICATIONS  
 EFFECTIVE: 01-17-2012  
 REVISED: 01-24-2017

**GRADE LINE: 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.

**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

**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.

**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.

**DRIVEWAYS:**  
 DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.03 AT LOCATIONS SHOWN ON PLANS OR AS 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 NOT SHOWN ON THE PLANS WILL BE PAID FOR AT THE CONTRACT PRICE FOR "TEMPORARY SHORING".

**UTILITIES:**  
 UTILITY OWNERS ON THIS PROJECT ARE DUKE ENERGY PROGRESS, AT&T, CHARTER COMMUNICATIONS (CATV), ENERGY UNITED, PIEDMONT NATURAL GAS, COUNTY OF CATAWBA (W&S), AND CITY OF NEWTON (W&S)  
 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.

# INDEX OF SHEETS

| SHEET NUMBER               | DESCRIPTION   |
|----------------------------|---|
| 1                          | TITLE   |
| 1A-1 THRU 1A-2             | INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS   |
| 1B                         | CONVENTIONAL SYMBOLS  |
| <b>PART I - R-3100A</b>    |   |
| 1                          | TITLE (R-3100A)   |
| 1C-1 THRU 1C-8             | SURVEY CONTROL SHEETS   |
| 2A-1 THRU 2A-3             | PAVEMENT SCHEDULE AND TYPICAL SECTIONS  |
| 2B-1                       | TEMPORARY DETOUR (-Y22-) DETAIL   |
| 2B-2 THRU 2B-4             | TEMPORARY ALIGNMENTS FOR CROSSEOVERS DETAILS  |
| 2B-5 THRU 2B-8             | INTERSECTION DETAILS  |
| 2C-1 THRU 2C-3             | 2'-9" CURB & GUTTER DETAIL  |
| 2C-4                       | CONCRETE DRIVEWAY DETAIL  |
| 2C-5                       | DETAIL TO CONVERT EXISTING DI, CB, OTCB, OR GITO JUNCTION BOX   |
| 2C-6                       | DRAINAGE OPENING THRU MONOLITHIC ISLAND   |
| 2C-7                       | DETAIL OF SHOULDER BERM GUTTER TO 2'-6" CURB & GUTTER TRANSITION SECTION  |
| 2C-8                       | EMERGENCY VEHICLE ACCESS FOR CONCRETE ISLAND  |
| 2D-1                       | DRAINAGE DETAILS  |
| 2G-1 THRU 2G-3             | GEOTECHNICAL DETAILS  |
| 3B-1 THRU 3B-2             | EARTHWORK SUMMARY   |
| 3B-3                       | GUARDRAIL SUMMARY   |
| 3B-4                       | ROADWAY SUMMARIES (WOVEN WIRE FENCE, ASPHALT PAVEMENT REMOVAL, CONCRETE PAVEMENT REMOVAL, BREAKING EXISTING ASPHALT PAVEMENT, SHOULDER DRAIN, AND SHOULDER BERM GUTTER) |
| 3D-1 THRU 3D-11            | DRAINAGE SUMMARIES  |
| 3G-1                       | GEOTECHNICAL SUMMARIES  |
| 3P-1 THRU 3P-2             | PARCEL INDEX SHEETS   |
| 4 THRU 36                  | PLAN SHEET AND PROFILE SHEET  |
| TMP-1 THRU TMP-6R          | TRANSPORTATION MANAGEMENT PLANS   |
| PMP-1 THRU PMP-17          | PAVEMENT MARKING PLANS  |
| EC-1 THRU EC-48            | EROSION CONTROL PLANS   |
| RF-1                       | REFORESTATION PLANS   |
| SIGN-1 THRU SIGN-19        | SIGNING PLANS   |
| SIG-1 THRU SIG-M8          | SIGNAL PLANS  |
| UC-1 THRU UC-19            | UTILITY CONSTRUCTION PLANS  |
| UO-1 THRU UO- 19           | UTILITIES BY OTHERS PLANS   |
| X-1A                       | CROSS-SECTION INDEX OF SHEETS   |
| X-1B THRU X-1F             | CROSS-SECTION SUMMARIES   |
| X-1 THRU X-145             | CROSS-SECTIONS  |
| C-1 THRU C-26              | CULVERT PLANS   |
| <b>PART II - R-3100B</b>   |   |
| 1                          | TITLE (R-3100B)   |
| 1C-1 THRU 1C-7 (OMIT 1C-5) | SURVEY CONTROL SHEETS   |
| 2A-1 THRU 2A-3             | PAVEMENT SCHEDULE AND TYPICAL SECTIONS  |
| 2B-1 THRU 2B-2             | CONCRETE MONOLITHIC ISLAND DETAILS  |
| 2C-1                       | 2'-9" CURB & GUTTER DETAILS   |
| 2C-2                       | DETAIL OF 2'-9" CURB & GUTTER TO FRAME AND GRATE  |
| 2C-3                       | DETAIL OF 2'-9" CURB & GUTTER TRANSITION SECTION  |
| 2C-4                       | DETAIL TO CONVERT EXISTING DI, CB, OTCB, OR GITO JUNCTION BOX   |
| 2C-5                       | EMERGENCY VEHICLE ACCESS FOR CONCRETE ISLAND  |
| 2D-1 THRU 2D-2             | STREAM CHANNEL CHANGE ALIGNMENT DETAILS   |
| 2G-1 THRU 2G-3             | STANDARD TEMPORARY WALL   |
| 2G-4                       | STANDARD TEMPORARY SHORING  |
| 3B-1                       | EARTHWORK SUMMARY   |
| 3B-2                       | GUARDRAIL SUMMARY, SUMMARY OF ASPHALT PAVEMENT REMOVAL, SUMMARY OF ASPHALT PAVEMENT BREAKING, AND WOVEN WIRE FENCE  |
| 3D-1 THRU 3D-15            | DRAINAGE SUMMARIES  |
| 3G-1                       | GEOTECHNICAL SUMMARY  |
| 3P-1                       | PARCEL INDEX SHEETS   |
| 4 THRU 27                  | PLAN SHEET AND PROFILE SHEET  |
| TMP-1 THRU TMP-22          | TRANSPORTATION MANAGEMENT PLANS   |
| PMP-1 THRU PMP-13          | PAVEMENT MARKING PLANS  |
| EC-1 THRU EC-31            | EROSION CONTROL PLANS   |
| RF-1 THRU RF-3             | REFORESTATION PLANS   |
| SIGN-1 THRU SIGN-19        | SIGNING PLANS   |
| SIG-1 THRU SIG-M8          | SIGNAL PLANS  |
| UC-1 THRU UC-17            | UTILITY CONSTRUCTION PLANS  |
| UO-1 THRU UO-15            | UTILITIES BY OTHERS PLANS   |
| X-1                        | CROSS-SECTION INDEX OF SHEETS   |
| X-1A THRU X-1E             | CROSS-SECTION SUMMARIES   |
| X-2 THRU X-94              | CROSS-SECTIONS  |
| C-27 THRU C-47             | CULVERT PLANS   |
| W-1 THRU W-2               | WALL PLANS  |

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|--|---|
| PROJECT REFERENCE NO.<br>R-3100A /R-3100B                                | SHEET NO.<br>1A-1   |
| R-3100A ROADWAY DESIGN ENGINEER  | R-3100B ROADWAY DESIGN ENGINEER   |
|  |   |
| MOTT MACDONALD I & E, LLC<br>LICENSE NO. F-0669                          | URS CORPORATION<br>LICENSE NO. C-2243   |
| <b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b> |   |
| Prepared in the Office of:   | <b>M</b><br>MOTT MACDONALD<br>PO Box 700<br>Fayetteville, NC 27526<br>www.mottmac.com/america   |
| Prepared in the Office of:   | <b>URS</b><br>URS Corporation - North Carolina<br>1620 Piedmont Park Drive<br>Morrisville, North Carolina 27560<br>TELEPHONE: 919.416.1100 FAX: 919.416.1419<br>NC LICENSE # C-2243 |

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