| COMPUTED BY: | JMB | DATE: | 2/13/15 |
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| CHECKED BY: | AKW | DATE: | 12/17/2015 |

RD266193

# NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
# DIVISION OF HIGHWAYS

| PROJECT NO. | SHEET NO. |
|---|---|
| B-5123 | 3D-2 |

**Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".**

## *LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)*

| LINE & STATION | OFFSET | | STRUCTURE NUMBER FROM | TO | TOP ELEVATION FT. | INVERT ELEVATION FT. | INVERT ELEVATION FT. | MINIMUM REQUIRED SLOPE % | Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) 12 | 15 | 18 | 24 | 30 | 36 | 42 | 48 | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | DO NOT USE PVC | C. S. PIPE (0.064" THICK) 15 .064 | R. C. PIPE CLASS IV 15 | 15" SIDE DRAIN PIPE | DRAINAGE STRUCTURE MASONRY EACH | QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) 0' THRU 5' EACH | A 5' THRU 10' LIN. FT. | B 10' AND ABOVE LIN. FT. | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E | F | G | CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06 | C.B. STD. 852.05 | OPEN THROAT C.B. STD. 840.04 OR STD. 840.05 | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME AND GRATES STD. 840.16 | G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27 | G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24 | G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29 | 15" C.S. ELBOW | PREFORMED SCOUR HOLE (PER EACH) | PIPE REMOVAL LIN. FT. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L 29+80 | 0 | CL | 0503 | | 586.9 | | | | | | | | | | | | | | | | | | | | 1 | 1 | | | | | | | | | | | | 1 | | 1 | | | | |
| | | | 0503 | 0504 | | 584.2 | 583.3 | 0.4 | | | | | | | | | | | | | | | 24 | | | | | | | | | | | | | | | | | | | | | |
| L 29+60 | 9 | RT | 0504 | | 587.4 | | | | | | | | | | | | | | | | | | | | 1 | 1 | | | | | | | 1 | | | 1 | 1 | | | | | | | |
| | | | 0504 | 0505 | | 583.3 | 582.0 | 0.6 | | | | | | | | | | | | | | | 60 | | | | | | | | | | | | | | | | | | | | | |
| SRVRD 15+72 | 26 | RT | 0428 | | 564.8 | | | | | | | | | | | | | | | | | | | | 1 | 1 | | | | | | | | | | | | 1 | 1 | | | | | |
| | | | 0428 | 0429 | | 562.0 | 561.6 | | | 88 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SRVRD 11+62 | 23 | RT | 0430 | | 574.5 | | | | | | | | | | | | | | | | | | | | 1 | 1 | | | | | | | | | | 1 | 1 | | | | | | | Tempoary Drop Inlet |
| | | | 0430 | 0423 | | 571.2 | 565.4 | | | 44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 44 | Temporary Pipe |
| DET2 13+08 | 22 | LT | 0408 | 0430 | | 575.8 | 571.2 | | | | | | | | | | | | | | | 40 | | | | | | | | | | | | | | | | | | | | | 40 | Temporary Pipe |
| SRVRD 12+07 | 32 | RT | 0423 | | 569.4 | | | | | | | | | | | | | | | | | | | | 1 | 1 | | | | | | | | | 1 | | | | | | | | | |
| | | | 0423 | 0424 | | 565.4 | 565.0 | | | | | 92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L 29+46 | 1 | RT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 68 | Remove Existing 18" CMP |
| L 28+45 | 45 | LT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 40 | Remove Existing 12" CMP |
| SRVRD 16+19 | 23 | RT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 44 | Remove Existing 18" CMP |
| L 19+57 | 45 | LT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 40 | Remove Existing 15" RCP |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L 28+50 | 55 | LT | 0507 | | | | | | | | | | | | | | | | | | | | | 52 | | | | | | | | | | | | | | | | | | | | Driveway Pipe |
| L 26+38 | 0 | CL | 0508 | 0416 | 585.4 | 583.9 | | | | | | | | | | | | | | | | | 84 | | | | | | | | | | | | | | | | | | | | 84 | Temporary Pipe |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UTILITIES | | | | | | | | | | | | | | | | | | | | | | | | | | | 5.0 | | | | | | | | | | | | | | | | | |
| SHEET TOTALS | | | | | | | | | | 132 | | 92 | | | | | | | | | | 40 | 168 | 52 | 5 | 5 | 5.0 | | | | | | 1 | | 1 | 2 | 2 | 2 | 1 | 1 | | | 360 | |
| PROJECT TOTALS | | | | | | | | | | 132 | 120 | 92 | | | | | | | | | | 288 | 1392 | 52 | 29 | 29 | 10.0 | | 18 | | 8 | 10 | 2 | 3 | 2 | 3 | 3 | 6 | 1 | 5 | 8 | 2 | 388 | |

**ABBREVIATIONS**

| | |
|---|---|
| C.A.A. | CORRUGATED ALUMINIUM ALLOY |
| C.B. | CATCH BASIN |
| C.S. | CORRUGATED STEEL |
| D.I. | DROP INLET |
| G.D.I. | GRATED DROP INLET |
| H.D.P.E. | HIGH DENSITY POLYETHYLENE |
| J.B. | JUNCTION BOX |
| M.H. | MANHOLE |
| N.S. | NARROW SLOT |
| P.V.C. | POLYVINYL CHLORIDE |
| R.C. | REINFORCED CONCRETE |
| T.B.D.I. | TRAFFIC BEARING DROP INLET |
| T.B.J.B. | TRAFFIC BEARING JUNCTION BOX |
| W.S. | WIDE SLOT |