RD187117

COMPUTED BY: Y. J. ANORD DATE: 1/29/02

CHECKED BY: R. A. SHILLINGLAW DATE: 1/29/02

# STATE OF NORTH CAROLINA
# DIVISION OF HIGHWAYS

METRIC

| PROJECT NO. | SHEET NO. |
|---|---|
| R-2610 B | 3-G |

## *LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 1200mm & UNDER)*

| STATION | LOCATION (LT, RT, OR CL)' | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) SIZE 300 | 375 | 450 | 600 | 750 | 900 | 1050 | 1200 | BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) SIZE 300 | 400 | 450 | 600 | 800 | | 900 | | 1000 | | 1200 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| THICKNESS OR GAUGE | | | | | | | | | | | | | | | | 1.63 | 1.63 | 1.63 | 1.63 | 2.01 | | 2.01 | | 2.01 | | 2.01 | |
| SHEET 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 103+00 | LT | 101 | | 156.89 | 156.31 | 156.00 | | | 26.4 | | | | | | | | | | | | | | | | | | |
| -L- 104+60 | LT | 102 | | 160.31 | 159.47 | 157.79 | | | 27.6 | | | | | | | | | | | | | | | | | | |
| -L- 105+00 | LT | 103 | | 161.13 | 159.53 | 156.45 | | | | | | | | | | | 12.0 | | | | | | | | | | |
| -L- 105+06 | LT | 103A | 103B | | | | | | | 13.2 | | | | | | | | | | | | | | | | | |
| -L- 105+17 | LT | 103B | 103C | | | | | | | | | | 6.0 | | | | | | | | | | | | | | |
| -L- 105+20 | LT | 103D | 103B | | | | | | | 16.8 | | | | | | | | | | | | | | | | | |
| SHEET 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -Y17- 10+27 | CL | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 107+40 | RT | 104 | 106 | 164.99 | 164.15 | 164.02 | X | | 39.6 | | | | | | | | | | | | | | | | | | |
| -L- 107+00 | RT | 104 | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 107+40 | RT | 106A | | 164.99 | 164.18 | | | | | | | | | | | | | | | | | | | | | | |
| -L- 107+40 | LT | 106 | 106B | 165.66 | 164.02 | 163.65 | | | | | 30.0 | | | | | | | | | | | | | | | | |
| -L- 107+20 | LT | 107 | 107A | 166.86 | 166.02 | 164.50 | | | 22.8 | | | | | | | | | | | | | | | | | | |
| SHEET 33 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 109+20 | LT | 108 | 107 | 167.81 | 166.71 | 166.02 | X | | | 98.4 | | | | | | | | | | | | | | | | | |
| -L- 109+20 | LT | 109 | 108 | 167.42 | 166.84 | 166.71 | X | | 20.4 | | | | | | | | | | | | | | | | | | |
| -L- 111+27 | LT | 109A | | | | | | | | | | | | | 25.2 | | | | | | | | | | | | |
| -L- 111+80 | LT | 110 | 111 | 168.68 | 168.10 | 168.03 | X | | 20.4 | | | | | | | | | | | | | | | | | | |
| -L- 111+80 | LT | 111 | 111A | 169.03 | 168.03 | 167.40 | | | 20.4 | | | | | | | | | | | | | | | | | | |
| SHEET 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 113+35 | LT | 113 | | 169.35 | 168.09 | 167.56 | | | | 26.4 | | | | | | | | | | | | | | | | | |
| -L- 114+40 | LT | 115 | 114 | 169.92 | 169.34 | 169.20 | | | 15.6 | | | | | | | | | | | | | | | | | | |
| -L- 114+40 | LT | 114 | 114A | 170.80 | 169.20 | 162.20 | | | | | | | | | | | 18.0 | | | | | | | | | | |
| -L- 114+85 | LT | 114B | | | | | | | | | | | | | 12.0 | | | | | | | | | | | | |
| -L- 115+10 | RT | 114C | | | | | | | | | | | | | 4.8 | | | | | | | | | | | | |
| SHEET 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 116+20 | LT | 117 | 116 | 170.77 | 170.19 | 169.86 | | | 20.4 | | | | | | | | | | | | | | | | | | |
| -L- 116+20 | LT | 116 | 116A | 170.70 | 169.86 | 169.80 | X | | 19.2 | | | | | | | | | | | | | | | | | | |
| -L- 117+80 | LT | 118 | | 171.66 | 170.82 | 169.00 | | | 27.6 | | | | | | | | | | | | | | | | | | |
| SHEET TOTALS | | | | | | | | | 260.4 | 154.8 | 30.0 | | 6.0 | 0.0 | 42.0 | | 30.0 | | | | | | | | | | |

| STATION | 375mm SIDE DRAIN PIPE | 450mm SIDE DRAIN PIPE | 600mm SIDE DRAIN PIPE | ENDWALLS STD. 838.01 STD. 838.11 STD. 838.80 (UNLESS NOTED OTHERWIS) CU. METERS R.C.P. | C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0 THRU 1.50) | "TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') METERS A 1.5 THRU 3.00 | B 3.00 AND ABOVE | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME AND GRATE STD. 840.16 | M.D.I. TYPE "A" STD. 840.17 OR 840.26 | M.D.I. TYPE "B" STD. 840.18 OR 840.27 | M.D.I. TYPE "D" STD. 840.19 OR 840.28 | M.D.I. FRAME WITH GRATE STD. 840.20 | M.D.I. FRAME WITH TWO GRATES STD. 840.22 | M.D.I. (N.S.) FRAME WITH GRATE STD. 840.24 | M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24 | J.B. STD. 840.31 OR 840.32 | M.D.I. GRATE & FRAME STD. 840.22 | MANHOLE STD. 840.51 | M.H. STD. 840.51 OR 840.53 | M.H. FRAME AND COVER STD. 840.54 | MODIFIED CON. FLUME (EA) | D.I. CONC. APRON (EA) | BORE & JACK 600mm WELDED STL PIPE (LM) | PIPE CLEAN OUT (each) | BORE & JACK 750mm WELDED STL PIPE (LM) | BERM DRAIN OUTLET STD 850.10 | JB. TRAFFIC BEARING STD. 840.34 | FLOWABLE FILL (M3) | RC FES (EA) | CORR. STEEL ELBOWS NO. & SIZE | CONC. COLLARS CL. "B" $M^3$ STD. 840.72 | CONC. & BRICK PIPE PLUG, $M^3$ STD. 840.71 | PIPE REMOVAL (METERS) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHEET 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 103+00 | | | | | | 1 | | | | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | STR # 101 |
| -L- 104+60 | | | | | | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | STR # 102 |
| -L- 105+00 | | | | | | 1 | 0.10 | | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | 2-400 | | | | STR # 103 STD 820.04 |
| -L- 105+06 | | | | | | 1 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 0.33 | | | STR # 103B JB W/SLAB LID |
| -L- 105+17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 105+20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.33 | | | |
| SHEET 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -Y17- 10+27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3.53 | | | | | | | 450 mm pipe |
| -L- 107+40 | | | | | | 1 | 0.14 | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | STR # 106 |
| -L- 107+00 | | | | | | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | STR # 104 |
| -L- 107+40 | | | | | | 1 | | | | | | | | 1 | | | | | 1 | | | | 1 | | | | | | | | | | | | | | | | STR # 106A 3GI |
| -L- 107+40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 107+20 | | | | | | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | STR # 107 |
| SHEET 33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 109+20 | | | | | | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | STR # 108 |
| -L- 109+20 | | | | | | 1 | | | | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | STR # 109 |
| -L- 111+27 | | | | | | 1 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | STR # 109A |
| -L- 111+80 | | | | | | 1 | | | | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | STR # 110 |
| -L- 111+80 | | | | | | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | STR # 111 |
| SHEET 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 113+35 | | | | | | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | STR # 113 |
| -L- 114+40 | | | | | | 1 | | | | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | STR # 115 |
| -L- 114+40 | | | | | | 1 | 0.10 | | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | 2-400 | | | | STR # 114 STD 820.04 |
| -L- 114+85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.74 | | | |
| -L- 115+10 | | | | 4.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.74 | | | |
| SHEET 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 116+20 | | | | | | 1 | | | | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | STR # 117 |
| -L- 116+20 | | | | | | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | STR # 116 |
| -L- 117+80 | | | | | | 1 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | STR # 118 |
| SHEET TOTALS | | | | 4.6 | | 19 | 0.34 | | | | | | | 1 | 11 | 5 | 2 | 15 | | | 2 | 1 | | | | | | | | | | 3.53 | | 4-400 | 2.14 | | | |

| ABBREVIATIONS | |
|---|---|
| C.B. | CATCH BASIN |
| N.D.I. | NARROW DROP INLET |
| D.I. | DROP INLET |
| M.D.I. | MEDIAN DROP INLET |
| M.D.I.(N.S.) | MEDIAN DROP INLET (NARROW SLOT) |
| J.B. | JUNCTION BOX |
| M.H. | MANHOLE |
| T.B.D.I. | TRAFFIC BEARING DROP INLET |
| T.B.J.B. | TRAFFIC BEARING JUNCTION BOX |