COMPUTED BY: C. MOZINGO DATE: 03-29-01
CHECKED BY: R. SHILLINGLAW DATE: 04-10-01

6/20/00

# STATE OF NORTH CAROLINA
# DIVISION OF HIGHWAYS

METRIC

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2610 A | 3-C |

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

ABBREVIATIONS

- E.D. EXTRA DEPTH
- H.D. HEAVY DUTY
- 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

| STATION / SIZE / THICKNESS OR GAUGE | 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) 300 | 375 | 450 | 600 | 750 | 900 | 1050 | 1200 | BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 300 1.63 | 400 1.63 | 450 1.63 | 600 1.63 | 600 | 800 2.01 | 800 | 900 2.01 | 900 | 375mm SIDE DRAIN PIPE | 450mm SIDE DRAIN PIPE | 600mm SIDE DRAIN PIPE | ENDWALLS STD. 838.01 STD. 838.11 STD. 838.80 (UNLESS NOTED OTHERWISE) CU. METERS R.C.P. | C.S.P. | QUANTITIES: STRUCTURES PER EACH (0 THRU 1.50) | FOR DRAINAGE *TOTAL M FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') METERS A 1.50 THRU 3.00 | B 3.00 AND ABOVE | TYPE OF CONSTRUCTION PERMITTED BRICK | BLOCK | CONCRETE | PRECAST | C.B. STD 840.01 OR 840.02 | FRAME, GRATES, AND HOOD STD 840.03 TYPE OF GRATE E | F | G | | MDI TYPE "A" STD 840.17 OR 840.26 | MDI TYPE "B" STD 840.18 OR 840.27 | MDI TYPE "D" STD 840.19 OR 840.28 | FRAME W/TWO GRATES, STD 840.22 (WIDE SLOT SAG) | FRAME W/TWO GRATES, STD 840.24 (NARROW SLOT SAG) | JB STD 840.31 OR 840.32 | MODIFIED CONCRETE FLUME (EA) | CONCRETE CB STD. 840.04 OR 840.05 | MH FRAME & COVER STD 840.54 | DI STD 840.14 OR 840.15 | FRAME W/TWO GRATES, STD 840.16 (DI GRATES) | CONVERT CB TO DI (EA) | FRAME W/TWO GRATES, STD 840.20 (WIDE SLOT FLAT) | CONVERT DI TO JB (EA) | BDO STD 850.10 | CONVERT CB TO JB (EA) | ADJUST CB (EA) | TYPE "B" BIT. COAT. CS PIPE ELBOWS NO. & SIZE (EA) | CONCRETE COLLARS, CL "B" STD 840.72 (CM) | CONCRETE & BRICK PIPE PLUG STD 840.71 (CM) | FLOWABLE FILL MATERIAL (CM) | TRAFFIC BEARING JB STD 840.34 (EA)- | PIPE REMOVAL (LM) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHEET 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -Y3REV- 12+00 | LT | 24 | | 84.110 | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | X | X | X | X | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | STR # 24 |
| -Y3REV- 12+10 | CL | 24 | 25 | -- | 83.545 | 83.730 | | | 25.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -Y3REV- 12+20 | RT | 25 | | 84.290 | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | X | X | X | X | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | STR # 25 |
| -Y3REV- 11+31 | RT | 20A | | 83.810 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | X | X | X | X | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | STR # 20A |
| -Y3REV- 11+31 | RT | 20A | 20B | | ????? | 83.650 | | | | 12.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SHEET 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 22+79 | RT | 26 | 28 | -- | 82.892 | 81.100 | | | | 70.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 23+48 | LT | 28 | 29 | -- | 80.950 | 80.000 | | | | | 44.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 23+48 | CL | 28 | | 82.090 | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | X | X | X | X | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | STR # 28 |
| -L- 23+70 | RT | 30 | 31 | -- | 84.670 | 84.000 | | | 18.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 23+80 | RT | 30 | | 85.480 | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | X | X | X | X | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | STR # 30 |
| -L- 24+80 | LT | 32A | | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3.48 | | 34.8 | PLUG 1-450mm PIPE |
| -L- 25+10 | CL | 32 | 34 | -- | 89.100 | 86.500 | | | | 52.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 25+10 | RT | 32 | | 90.480 | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | X | X | X | X | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | STR # 32 |
| -L- 25+10 | RT | 32 | 33 | -- | 89.100 | 89.160 | | | | 20.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -Y5- 11+10 | RT | 35 | 36 | -- | 86.494 | -- | | | | 6.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -Y5- 11+10 | RT | 35 | | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | STR # 35 |
| -L- 26+18 | CL | 32B | | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4.56 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SHEET 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 27+00 | LT | 37 | | -- | 83.573 | 83.310 | | | 30.0 (CLASS IV W/ METHOD B INSTALL) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.29 | | | | | |
| -L- 28+49 | LT | 38 | 39 | -- | ???? | ???? | | | | | | | | | | | 12.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2-400 | | | | | | |
| -L- 28+49 | LT | 38 | | ???? | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | X | X | X | X | | | | | | | 1 | | | | | | | | | | | 1 | | | | | | | | | | | STR # 38 STD. 820.04 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SHEET 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 29+60 | CL | 40 | 41 | -- | 91.300 | 91.025 | | | 18.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 29+60 | CL | 40 | | 92.300 | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | X | X | X | X | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | STR # 40 |
| -L- 29+60 | LT | 41 | 42 | -- | 91.000 | 84.500 | | | | | | | | | | | 16.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2-400 | | | | | | |
| -L- 29+60 | LT | 41 | | 93.000 | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | X | X | X | X | | | | | | | 1 | | | | | | | | | | | 1 | | | | | | | | | | | STR # 41 STD. 820.04 |
| -L- 29+76 | LT | 43 | | -- | 85.120 | 84.408 | | | | | 36.0 (CLASS IV W/ METHOD B INSTALL) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.40 | | | | | |
| -L- 29+65 | LT | 44 | | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | 6.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 30+80 | LT | 45 | 46 | -- | 89.300 | 89.200 | | | 15.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 30+80 | LT | 45 | | 90.110 | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | X | X | X | X | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | STR # 45 |
| -L- 30+80 | LT | 46 | 47 | -- | 89.100 | 87.100 | | | | | | | | | | | 4.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2-400 | | | | | | |
| -L- 30+80 | LT | 46 | | 90.200 | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | X | X | X | X | | | | | | | 1 | | | | | | | | | | | 1 | | | | | | | | | | | STR # 46 STD. 820.04 |
| -L- 31+70 | LT | 49 | 50 | -- | 85.253 | 84.233 | | | | 28.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 31+70 | LT | 49 | | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | X | X | X | X | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | | | | STR # 49 |
| -Y9- 11+85 | CL | 52 | 53 | -- | 87.000 | 88.500 | | | | 49.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 18.3 | |
| -Y9- 11+85 | RT | 52 | | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | X | X | X | X | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | STR # 52 |
| -Y9- 11+85 | RT | 52 | 54 | -- | 87.000 | 87.110 | | | 12.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.29 | | | | | |
| -Y9- 11+85 | RT | 52 | 55 | -- | 86.600 | 86.400 | | | | 6.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -L- 29+76 | RT | 48 | | ???? | ???? | ???? | | | | | 3.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.40 | | | | | |
| -Y9- 12+80 | CL | 51 | | -- | 83.770 | 83.110 | | | | | 34.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 36.3 | |
| -L- 29+60 | LT | 44A | | -- | -- | -- | | | | | | 12.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 13.0 | |
| -Y9- 12+40 | LT | 50A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 8.3 | |
| | | | | | | | | | (CL IV) | | (CL IV) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SHEET TOTAL | | | | | | | | | 30.0 88.8 | | 36.0 82.8 | 12.0 | | | | | 33.6 | | | | | | | | | | | 6.0 | | | | | | | | | | | | | | | | | 7 | | 4 | | 3 | | | | | | | | | 1 | | | | 6-400 | | | 8.04 | | | |
| | | | | | | | | | | 246.0 | | | | | | | | | | | | | | | | | | | | 13 | | | | | | | | | | | | | | 2 | | 2 | | | 1 | 1 | | | | 3 | | | | | | 1.38 | | | | 110.7 | |

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RShillinglaw AT RDI87117