6/20/00

COMPUTED BY: MBL	DATE: 2-05
CHECKED BY: SDK	DATE: 2-05

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2552B	3-J

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

		CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 300	375	450	600	750	900	1050	1200
R-2552B PROJECT TOTAL			1611.6	844.8	1434	630	502.8	204	43.2
	CLASS IV							99.6	120
R-2552C PROJECT TOTAL			2204	650.4	776.4	784.8	265.2	67.2	172.8
	CLASS IV			57.6	176.4	68.4	88.5	123.6	
COMBINED PROJECT TOTAL			3815.6	1495.2	2210.4	1414.8	768.0	271.2	216.0
	CLASS IV			57.6	176.4	68.4	88.5	223.2	120

	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 300 / 1.63	400 / 1.63	450 / 1.63	600 / 1.63	800 / 2.01	900 / 2.01	1000 / 2.01	C.S. PLAIN PIPE 400 / 1.63	450 / 1.63	BITUMINOUS COATED C.S. PIPE TYPE A 400 / 1.63	450	600	800 / 2.01	900
R-2552B PROJECT TOTAL		256.8	94.8						44.4					
R-2552C PROJECT TOTAL								33.6	22.8	712.8	28.8	8.4	51.6	7.2
COMBINED PROJECT TOTAL		256.8	94.8					33.6	67.2	712.8	28.8	8.4	51.6	7.2

	375mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) R.C.P. (CM)	C.S.P. (CM)	QUANTITIES: STRUCTURES FOR DRAINAGE *TOTAL M. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') PER EACH (0 THRU 1.50)	METERS A 1.50 THRU 3.00	METERS B 3.00 AND ABOVE	FRAME, GRATES, AND HOOD STD. 840.03 TYPE OF GRATE E	F	G
R-2552B PROJECT TOTAL	97.2	7.2		12.6		115	16.14	2.27			
R-2552C PROJECT TOTAL	110.4	34.8	7.2	31.2	1.5	163	14.66	0.12	2	2	2
COMBINED PROJECT TOTAL	207.6	42.0	7.2	43.8	1.5	278	30.8	2.39	2	2	2

	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME & GRATE STD. 840.16	T.B.D.I. STD. 840.36	T.B.D.I. FRAME WITH STEEL GRATE STD. 840.37	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	B.A.D.I. (SEE R-2552C SHEET 2-P)	M.D.I. FRAME WITH TWO FLAT GRATES STD. 840.20	M.D.I. FRAME WITH SAG GRATE STD. 840.22	M.D.I. FRAME WITH TWO SAG GRATES STD. 840.22	M.D.I. (N.S.) FRAME WITH TWO SAG GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	C.B. STD. 840.01 OR 840.02
R-2552B PROJECT TOTAL					32	74	2		20	9	88		3	
R-2552C PROJECT TOTAL	2	2	1	1	23	109	14	2	39	2	99	8	4	6
COMBINED PROJECT TOTAL	2	2	1	1	55	183	16	2	59	11	187	6	7	6

	O.T.C.B. STD. 840.04 OR 840.05	FRAME WITH N.S. FLAT GRATES STD. 840.29	T.B.D.I. STD. 840.35	M.H. FRAME AND COVER STD. 840.54	T.B.J.B. STD. 840.34	BDO	CONVERT EXISTING DROP INLET TO JUNCTION BOX	375mm BORE AND JACK SPIRAL WELDED STEEL (7mm THICK)	450mm BORE AND JACK SPIRAL WELDED STEEL (8mm THICK)	600mm BORE AND JACK SPIRAL WELDED STEEL (13mm THICK)	ADJUST EXISTING 2GI	MODIFIED CONCRETE FLUME	PREFORMED SCOUR HOLE
R-2552B PROJECT TOTAL		4	4	1		8						4	13
R-2552C PROJECT TOTAL	1			5	2		1	54	15.6	51.6	6	3	8
COMBINED PROJECT TOTAL	1	4	4	6	2	8	1	54	15.6	51.6	6	7	21

	C.S. ELBOWS TYPE B & TYPE A NO.	SIZE	CONC. COLLARS CL. "B" M3 STD. 840.72	CONC. & BRICK PIPE PLUG, M3 STD. 840.71	PIPE REMOVAL (METERS)	REMARKS
	TYPE B					
R-2552B PROJECT TOTAL	19	400	0.33		250.4	
	8	450				
	1	600				
	TYPE A					
R-2552C PROJECT TOTAL	63	400	8.38	0.97	1634	
	3	450				
	1	600				
	1	900				
COMBINED PROJECT TOTAL	SEE TYPE B & TYPE A FOR TOTAL		8.71	0.97	1884.4	

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 JUCTION BOX

STATE OF NORTH CAROLINA
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LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 1350 mm & OVER)

STATION (SIZE / THICKNESS OR GAUGE)	LOCATION (LT, RT, OR CL)	STRUCTURE NO. FROM	TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 1350	1500	1650	1800	1950	2100
LINE -L-													
68+65	M	23	-							54			
73+41	M	32	-										
75+27	M	37	-										
R-2552B PROJECT TOTAL										54			
R-2552C PROJECT TOTAL								100.8	124.8	43.2	15.6		
COMBINED PROJECT TOTAL								100.8	124.8	97.2	15.6		

STATION	BITUMINOUS COATED C.S. PIPE TYPE B 1400 / 2.77	1400 / 3.51	1400 / 4.27	1500 / 2.77	1500 / 3.51	1650	1800	SHOP ELONGATED	STRUCTURAL PLATE PIPE 1500 / 2.77	1500 / 3.51	1500 / 4.27	1650 / 2.77	1650 / 3.51	1650 / 4.27	1800 / 2.77	1800 / 3.51	1800 / 4.27
LINE -L-																	
68+65																	
73+41																	
75+27																	
R-2552B PROJECT TOTAL																	
R-2552C PROJECT TOTAL																	
COMBINED PROJECT TOTAL																	

STATION	REINFORCED ENDWALLS CLASS "A" CONC. WITH R.C. cu. m.	WITH C.S. cu. m.	MASONARY DRAINAGE STRUCTURES CUBIC METERS	C.B. STD. 840.01 OR 840.02	FRAME, GRATES & HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	1350mm CL IV	1500mm CL IV	1650 BORE AND JACK SPIRAL WELDED STEEL (22mm THICK)	REINF. CONC. FLARED END SECTION NO. & SIZE	CORR. STEEL FLARED END SECTIONS NO. & SIZE	REINF. CONC. ELBOWS NO. & SIZE	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS, CL. "B" m^3 STD. 840.72	PIPE REMOVAL (meters)	REMARKS
LINE -L-																	
68+65	4.8																HW LEFT
73+41	3.8							78									HW LEFT
75+27	4.3								140.4								HW LEFT METH 'B'
R-2552B PROJECT TOTAL	12.9							78	140.4								
R-2552C PROJECT TOTAL	17.2	5								52.8					2.49	27.6	
COMBINED PROJECT TOTAL	30.1	5						78	140.4	52.8					2.49	27.6	

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 JUCTION BOX

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