6/20/00

COMPUTED BY: AL SMITH DATE: 9/23/02
CHECKED BY: S. ASHLEY DATE: 10/27/03

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT REFERENCE NO.	SHEET NO.
U-2734	3-J

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

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	DUCTILE IRON PIPE (UNLESS NOTED OTHERWISE) 300	375	450	600	750	900	1050	1200				PRECAST DRAINAGE STRUCTURE REQUIRED		375mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (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	C.B. STD. 840.01 OR 840.02	FRAME, GRATES, AND HOOD STD. 840.03 TYPE OF GRATE E	F	G		D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME & 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. (N.S.) FRAME W/ 2 GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.34	M.H.C. STD. 840.54	T.B.D.I. STD. 840.35	D.I. FRAME & GRATE STD. 840.29	T.B.J.B. STD. 840.52	PRE-FORMED SCOUR HOLE	CONC. APRON FOR DI STD. 852.06	ADJUST EX. C.B.	ADJUST EX. D.I.	ADJUST EX. M.H.	CONV. EXIST. D.I. TO J.B.	CONC. APRON FOR CB STD. 852.05	FLOWABLE FILL (CUBIC METERS)	BORE AND JACK (METERS) W/TWO COLLARS	CONC. & BRICK PIPE PLUG m STD.840.71	CONC. COLLARS, CL. "B" m STD.840.72	PIPE REMOVAL (meters)	REMARKS
		225	227		13.60	13.38	*			48.0																																																								
-Y1- 14+40	LT	227		14.24	13.38																						X							1			1			X																										
		227	228		13.38	13.50			4.8																																																									
		227	229		13.38	13.28	*			20.4																																																						17.2	
-Y1- 14+47	RT	229		14.23	13.28																						X							1			1		X																											
		229	230		13.28	13.18	*			22.8																																																								
-Y1- 11+50	RT	231		13.95	13.00																						X							1															1																		
		232	231		13.57	13.00			2.4																																																									
-Y1- 11+50	RT	232		14.49	13.57																						X							1			1			X																										
SHEET TOTAL										91.2																								4						2								1																		
									7.2																		4										3		1																										17.2	
																																														1																				
PROJECT TOTAL								16.8		918		266.4		213.3						100.8												9.7		147				9		47		23		15		2		6		4	1				11					5		95.2		9.1		
									931.6		443.8		269.2		450		145.2		109.2								95								11.99		71		15				23		20		37		9			1		1		1		1	3		170	47.2@1050			925.5	
																																																														48@900		12.5		1350 & OVER (COLLARS)
																																																														SAY	.5	21.3		TOTAL

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

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

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) 1350	1500	1650	1800	1950	2100		BITUMINOUS COATED C.S. PIPE TYPE B 1400 2.77	1400 3.51	1400 4.27	1500 2.77	1500 3.51	1500	1650	1650	1800	1800	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			REINFORCED ENDWALLS CLASS "A" CONC. WITH R.C. cu. m.	WITH C.S. cu. m.																					BORE AND JACK (METERS) W/TWO COLLARS		CONC. COLLARS, CL. "B" m STD.840.72			REMARKS
-L- 21+22	CL	25			5.20	4.90		31.7																														7.1																						24@1350		3.76			HEADWALL & ENDWALL SEE SHT. 2-BB
-L- 21+25	CL	26			5.20	4.90		31.7																																																				24@1350		3.76			
-L- 38+41	CL	94			6.50	5.80					14.6																											5.6																						31.7@1800		4.98			HEADWALL & ENDWALL SEE SHT. 2-AA
PROJECT TOTAL								63.4			14.6																											12.7																						79.7		12.50			
SAY								63.6			15.6																																																	48@1350					
																																																												31.7@1800					

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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