COMPUTED BY: E. PHIPPS DATE: 6-25-04
CHECKED BY: J. RECK DATE: 6-25-04

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

KCI Associates of North Carolina, P.A.
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SUITE 200, LANDMARK CENTER I
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METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2562C	3-H

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 1200 mm & 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	2.77	2.77
155+70	CL	136		44.753																					
		136	135		44.169	44.019	Y			50.4															
155+20		135		44.969																					
		135	OUT		44.019	43.953				22.8															
156+00	RT	137	OUT																						
156+00	RT	EX																							
156+50	CL	EX																							
156+50	LT	138	OUT										10.8												
156+80	RT	139		45.490																					
		139	140		44.906	44.767				22.8															
156+80	CL	140		45.605																					
		140	OUT		44.767	44.450				28.8															
158+10	RT	141		46.250																					
		141	142		45.336	45.240	Y			24															
158+10	RT	EX																							
158+00	CL	142		46.413																					
		142	OUT		45.220	44.950				30															
158+12	CL	EX																							
159+50	LT	143	OUT																						
159+35	RT	EX																							
159+55	CL	EX																							
159+75	RT	EX																							
160+20	RT	144		47.280																					
		144	145		46.442	46.350				24															
160+20	CL	145		47.569																					
		145	OUT		46.350	45.900				31.2															
161+89	RT	150		48.000																					
		150	151		47.416	47.329	Y			30															
161+85	RT	EX																							
162+95	RT	147		48.690																					
		147	148		47.937	47.786				42															
162+52	RT	148		48.370																					
		148	149		47.786	47.720	Y			22.8															
		146	149		48.250	47.645	Y				27.6														
162+47	CL	149		48.730																					
		149	151		47.645	47.245	Y				72														
161+76	CL	151		48.300																					
		151	OUT		47.104	47.000																			
10+62-Y5	RT	151A	OUT		47.550	47.300						22.8													
10+20-Y5	RT	EX																							
10+15-Y5	RT	EX																							
		152	153		47.400	47.172					24														
166+01	CL	153		47.832																					
		153	OUT		47.172	47.075					26.4														
163+80	RT	EX																							
165+60	CL	EX																							
166+01	CL	EX																							
168+00	RT	EX																							
SHEET TOTAL										328.8	150.0	22.8	10.8					7.2		15.6					

STATION	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.	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. METERS C.S.P.	QUANTITIES: STRUCTURES PER EACH (0 THRU 1.50)	METERS 1.50 THRU 3.00 A	METERS 3.00 AND ABOVE B	FOR DRAINAGE TOTAL M FOR PAY QUANTITY SHALL BE COL. A + (0.5 X COL. B)	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. FRAME WITH GRATE STD. 840.22	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	450MM FES	FLOWABLE FILL, M3	375 MM PARALLEL PES 310.02	CORR. STEEL ELBOW NO. & SIZE	CONC. COLLARS, CL. "B" m^3 STD.840.72	CONC. & BRICK PIPE PLUG m^3 STD.840.71	PIPE REMOVAL (meters)	REMARKS
155+70						1								1			1	1							
155+20						1							1					1							
156+00	7.2																					2			
156+00																								7	
156+50																								8	
156+50																									
156+80						1								1			1	1							
156+80						1							1					1							
158+10																									
158+12																								7	
159+50		15.6																							
159+35																								6	
159+55																								5	
159+75																								7	
160+20						1								1			1	1							
160+20						1								1			1	1							
161+89						1								1			1	1							
161+85																								8	
162+95						1								1			1	1							
162+52						1								1			1	1							
162+47						1								1			1	1							
161+76																									
10+62-Y5						1								1			1	1							
10+20-Y5																								7	
10+15-Y5																						4.3		0.08	
																				1					
166+01						1								1		1	1								
163+80																									REMOVE EXISTING PIPE
165+60																								7	
166+01																								18	
168+00																								7	
SHEET TOTAL	7.2		15.6			14				1	1	7	6		2	13	1			4.3	2		0.08	95	

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

6/22/2004
USER NAME = $$USERNAME$$
DESIGN = $$DESIGN$$
DGN FILE = $$DGNFILE$$
PROJECT NAME = $$PROJECT$$