COMPUTED BY: PWR DATE: 5 /04 /05
CHECKED BY: MWL DATE: 6 /06 /05

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
R-4733	3-A

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

STATION	LOCATION (LT,RT, OR CL)	STRUCTURE NO.	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) SIZE 12"	15"	18"	24"	30"	36"	42"	48"	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) THICKNESS OR GAUGE .064	.064	.064	.064	.079	.079	.109	.109	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	C.S.P.	QUANTITIES: STRUCTURES PER EACH (0' THRU 5.0')	FOR DRAINAGE PIPING TOTAL LF. FOR EACH QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') LIN. *FT. A: 5.0' THRU 10.0'	B: 10.0' AND ABOVE	D.I. STD.840.14 OR STD.840.15	D.I. GRATES & FRAMES 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. GRATES & FRAMES STD.840.20	M.D.I. GRATES & FRAMES STD.840.22	BERM DRAIN OUTLET STD. 850.10	FLOWABLE FILL (CY)	CORR. STEEL ELBOW NO. & SIZE	PIPE REMOVAL (LIN. FT.)	REMARKS
-L- 35+43	LT.	1	3346.00																					1			1	1											DI
		1 TO 2		3343.75	3335.58											20																						2 - 15'		15" CSP W/ELBOWS
-L- 35+46	LT.	2	3337.50																					1						1		1							2GI TYPE 'D'
		2 TO 3		3335.58	3335.10			40																															15" PIPE
-L- 35+92	LT.	3	3337.85																					1					1			1							2GI
		3 TO 4		3335.10	3333.80			164																															15" PIPE
-L- 37+66	LT.	4	3336.55																					1					1			1							2GI
		4 TO 5		3333.80	3329.72			232																															15" PIPE
-L- 40+05	LT.	5	3332.72																					1				1				1							2GI TYPE 'A'
		5 TO 6		3329.72	3327.00												28																						18" CSP
-L- 40+29	LT.	6	3331.42																					1	1.42				1					1					2GI TYPE 'A' (EXTRA DEPTH)
		6 TO 7		3325.00	3324.71					20																												26	24" PIPE / REMOVE CB & PORTIONS OF EXIST. PIPES
-L- 40+53	LT.	7	3331.30																					1	1.59		1	1											DI (EXTRA DEPTH)
		7 TO 8		3328.00	3335.00											16																						2 - 15'		15" CSP W/ELBOWS
-L- 40+50	LT.	8	3343.00																					1	3.00		1	1											DI (EXTRA DEPTH)
SITE 1 TOTALS								436		20						36	28							8	6.01		3	3	2	2	1	3	2				4 - 15'	26	
-L2- 24+00	LT.	9 TO 10		2702.00	2702.65							52																											30" PIPE
-L2- 24+50	LT.	10	2707.90																					1				1				1							2GI TYPE 'A'
		10 TO 11		2702.65	2705.75							252																											30" PIPE
-L2- 26+94	LT.	11	2711.00																					1				1				1							2GI TYPE 'A' / REMOVE HW & PORTION OF EXIST. CMP & FILL W/FLOWABLE FILL
		11 TO 12		2705.75	2707.45							292																											30" PIPE
-L2- 29+77	LT.	12	2712.70																					1				1				1							2GI TYPE 'A'
		12 TO 13		2707.45	2748.50											80																						1 - 15'		15" CSP W/ELBOW
-L2- 29+78	LT.	13		2748.50																													1						BDO
		12 TO 14		2707.45	2707.65							64																											30" PIPE
-L2- 30+40	LT.	14	2712.90																					1				1				1							2GI TYPE 'A'
-L2- 30+40	LT.																																				4.1			REMOVE HW & FILL W/FLOWABLE FILL
		14 TO 15		2707.65	2708.75					208																													24" PIPE
-L2- 32+49	LT.	15	2713.50																					1				1				1							2GI TYPE 'A'
		15 TO 16		2708.75	2712.20				220																														18" PIPE
-L2- 34+76	LT.	16	2715.20																					1					1			1							2GI
-L2- 34+72	LT.																																				4.2			REMOVE HW & FILL W/FLOWABLE FILL
		16 TO 17		2712.20	2713.50				184																														18" PIPE
-L2- 36+64	LT.	17	2716.50																					1					1			1							2GI
-L2- 38+41	LT.	18	2718.35	2715.56																				1					1			1							2GI / REMOVE HW
SITE 2 TOTALS									404	208	660					80								8				5	3			8	1				31.3	1 - 15'	12	
PROJECT TOTALS								436	404	228	660					116	28							16	6.01		3	3	7	5	1	3	10	1				31.3	5 - 15'	38	
SAY								440	420	240	680					120	40																						35			

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

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#$$USERNAME$$#
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