RAL-M5705

COMPUTED BY: WDR DATE:

CHECKED BY: JAB DATE:

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2237B	3-J

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

STATION	LOCATION (LT, RT, OR CL')	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL
Sheet 10							
L 89+37	R	59	60		1879.00	1874.42	
L 89+35	R	60		1877.27			
L 89+35	R	60	57		1874.00	1862.57	
L 89+49	C						
L 90+10	R	61		1885.04			
L 90+10	R	61	60		1882.29	1874.67	
L 91+85	R	63		1867.41			
Sheet 11							
L 94+85	R						
L 95+23	R	65		1922.41			
L 95+23	R	65	OUT		1919.62	1876.00	
L 95+08	L						
L 99+30	L	66		1957.76			
L 99+30	L	66	OUT		1954.86	1952.00	
L 99+51	C						
L 100+21	L	67		1964.44			
L 100+21	L	67	66		1961.54	1955.01	
L 102+65	R	68		1942.00			
L 102+65	R	68	OUT		1938.73	1935.00	
L 103+50	R	69		1990.00			
L 103+50	R	69	68		1986.73	1938.88	
L 103+65	R						
L 104+10	R	70		1995.24			
L 104+10	R	70	69		1992.24	1986.88	
Sheet 12							
L 105+73	C						
L 106+39	L						
L 106+40	R	71		2013.56			
L 106+40	R	71	70		2010.56	1992.39	
L 106+40	R	72	71		2022.50	2010.71	
L 106+40	R	72			2022.50		
L 108+46	L						
L 108+79	C						
L 109+52	R	73	74		2067.50	2032.80	
L 109+52	R	73			2067.50		
L 109+50	R	74		2035.65			
L 109+50	R	74	75		2032.65	2031.58	
L 109+35	L	75		2034.43			
L 109+35	L	75	OUT		2031.43	2029.80	
L 114+00	R	76		2050.13			
L 114+00	R	76	79		2047.38	2045.86	
L 116+00	R	79		2048.46			
L 116+00	R	79	81		2045.71	2034.50	
SHEET TOTALS							

Pipes (SIZE / THICKNESS OR GAUGE): CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE); BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE); ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE), CU. YARDS

STATION	FROM	TO	R.C. 12"	R.C. 15"	R.C. 18"	R.C. 24"	R.C. 30"	R.C. 36"	R.C. 42"	R.C. 48"	C.S. 12" .064	C.S. 15" .064	C.S. 18" .064	C.S. 24" .064	C.S. 24" .138	C.S. 30" .079	C.S. 30"	C.S. 36" .079	C.S. 36"	C.S. 42" .109	C.S. 42"	C.S. 48" .109	C.S. 48"	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS R.C.P.	ENDWALLS C.S.P.
L 89+37	59	60			20																							
L 89+35	60	57			336																							
L 90+10	61	60		76																								
L 95+23	65	OUT										132																
L 99+30	66	OUT										24																
L 100+21	67	66		92																								
L 102+65	68	OUT											16															
L 103+50	69	68											108															
L 104+10	70	69			60																							
L 106+40	71	70			232																							
L 106+40	72	71											48															
L 109+52	73	74											84															
L 109+50	74	75			96																							
L 109+35	75	OUT			56																							
L 114+00	76	79		200																								
L 116+00	79	81										48																
SHEET TOTALS				368	800							204	256															

Drainage structures and other items. QUANITIES FOR DRAINAGE STRUCTURES; *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B'); FRAME, GRATES, AND HOOD STANDARD 840.03, TYPE OF GRATE

STATION	FROM	TO	PER EACH (0' THRU 5.0')	LIN. FT. A 5.0' THRU 10.0'	LIN. FT. B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	E	F	G	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 TWO GRATES STD. 840.20	M.D.I. FRAME WITH GRATE STD. 840.22	M.D.I. FRAME WITH TWO GRATES STD. 840.22	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.46	M.H. FRAME AND COVER STD. 840.54	SPRING BOX STD. 840.41	6" P.V.C. FOR SPRING BOX		36" BDO SPECIAL DETAIL	24" SMOOTH STEEL PIPE, t=0.5"	36" SMOOTH STEEL PIPE, t=0.5"	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD. 840.72	FLOWABLE FILL, C.Y.	PIPE REMOVAL LIN. FT.	REMARKS
L 89+35	60		1													1													J.B. W / SLAB LID
L 89+49																											9.5		
L 90+10	61		1								1				1														
L 91+85	63		1	2.77												1													J.B. W/SLAB LID/REMOVE HEADWALL
L 94+85																												21	PIPE REMOVAL
L 95+23	65		1								1				1														
L 95+23	65	OUT																							2@15"				
L 95+08																												34	PIPE REMOVAL
L 99+30	66		1								1		1																
L 99+51																											2.5		
L 100+21	67		1								1		1																
L 102+65	68		1													1													J.B. W/ SLAB LID
L 103+50	69		1													1													J.B. W/SLAB LID
L 103+50	69	68																							2@18"				
L 103+65																											2.7		
L 104+10	70		1								1				1														
L 105+73																											5.2		
L 106+39																												35	PIPE REMOVAL
L 106+40	71		1								1				1														
L 106+40	72	71																							1@18"				
L 106+40	72																												B.D.O.
L 108+46																												42	PIPE REMOVAL
L 108+79																											2.3		
L 109+52	73	74																							1@18"				
L 109+52	73																												B.D.O.
L 109+50	74		1								1				1														
L 109+35	75		1								1				1														
L 114+00	76		1								1				1														
L 116+00	79		1								1				1														
																									2@15"				
SHEET TOTALS			14	2.77							10		2		8	4					0				4@18"		22.2	132	

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