

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

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

STATION	LOCATION (L, RT, OR CU)	STRUCTURE NO.		TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE)								BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE)								ENDWALLS			QUANTITIES FOR DRAINAGE STRUCTURES	FRAME, GRATES AND HOOD STANDARD 840.03	PIPE PLUG, FLOWABLE FILL (CU. YDS.)	CONC. & BRICK PIPE PLUG, STD. 840.71 (CU. YDS.)	PIPE PLUG, FLOWABLE FILL (CU. YDS.)	CONC. COLLARS CL. "B" STD. 840.72 (CU. YDS.)	4" CONC. PAVED DITCH S.Y. (BERM, DITCH, OUTLET)	CONVERT D.I. TO O.T.C.B. (SEE DETAIL 2-Q)	BIT COAT CS PIPE ELBOWS NO. & SIZE	PIPE REMOVAL LIN.F.T.	REMARKS												
		12"	15"					18"	24"	30"	36"	42"	48"	12"	15"	18"	24"	30"	36"	42"	48"	STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE)	R.C.P.	C.S.P.	PER EACH (0' THRU 5.0')	5.0' THRU 10.0'												10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	E	F	G	PER EACH (0' THRU 5.0')	A	B	A	B		
THICKNESS OR GAUGE	FROM	TO	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	12"	15"	18"	24"	30"	36"	42"	48"	12"	15"	18"	24"	30"	36"	42"	48"	15" WELDED STEEL PIPE, 0.5" THICK, GRADE B (BY BORING & JACKING)	36" WELDED STEEL PIPE, 0.5" THICK, GRADE B (BY BORING & JACKING)	C.B. STD. 840.04 OR 840.05	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. FRAME W/ GRATES STD. 840.24	M.D.I. FRAME W/ GRATES STD. 840.29	TRAFFIC BEARING D.I. STD. 840.35	M.H. STD. 840.51 OR 840.53	J.B. STD. 840.31 OR 840.32	M.H. FRAME & COVER STD. 840.54	CONC. APRON FOR CATCH BASIN	CONC. & BRICK PIPE PLUG, STD. 840.71 (CU. YDS.)	PIPE PLUG, FLOWABLE FILL (CU. YDS.)	CONC. COLLARS CL. "B" STD. 840.72 (CU. YDS.)	4" CONC. PAVED DITCH S.Y. (BERM, DITCH, OUTLET)	CONVERT D.I. TO O.T.C.B. (SEE DETAIL 2-Q)	BIT COAT CS PIPE ELBOWS NO. & SIZE	PIPE REMOVAL LIN.F.T.	REMARKS								
-L- 28+02	LT.	32		292.5																																	2GI												
-L- 28+02	LT.	32	33		286.3	286.0					56'																							126'	REMOVE 2 PIPES, REMOVE DI														
-L- 26+60	RT.	34									20'																																						
-YA- 16+89	RT.	38		301.6																																													
-YA- 16+89	RT.	38	39		298.8	298.7				36'																																							
-YA- 16+74	LT.	40		307.5																																													
-YA- 16+74	LT.	40	41		304.7	314.5						24'																								1@15"													
-YA- 16+74	LT.	40	42		304.7	302.6				184'																																							
-YA- 16+54	RT.	40A																																															
-YA- 16+54	RT.	40A	40			304.7				36'																																							
-YA- 16+77	LT.	41																																															
-YA- 14+88	LT.	42		305.3																																													
-YA- 14+88	LT.	42	43		302.6	314.0							24'																							1@15"													
-YA- 14+88	LT.	42	44		302.6	302.1				40'																																							
-YA- 14+90	LT.	43																																															
-YA- 14+46	LT.	44		304.8																																													
-YA- 14+46	LT.	44	45		302.1	298.5				80'																																							
-YA- 13+00	LT.	46		299.7																																													
-YA- 13+00	LT.	46	47		296.9	296.0				72'																																							
-YA- 13+00	LT.	46	48		296.9	303.0																																											
SHEET TOTALS :								448'			56'	20'																																					
TOTAL :								8'	912'	80'	92'	28'	396'	540'	32'							124'																											
SAY 13																									SAY 37										SAY 1.5 2.5 2.5														

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 54" & OVER)

STATION	LOCATION (L, RT, OR CU)	STRUCTURE NO.		TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE)						REINFORCED ENDWALLS		MASONRY DRAINAGE STRUCTURES (CUBIC YARDS)	QUANTITIES FOR DRAINAGE STRUCTURES	FRAME, GRATES AND HOOD STANDARD 840.03	PIPE PLUG, FLOWABLE FILL (CU. YDS.)	CONC. & BRICK PIPE PLUG, STD. 840.71 (CU. YDS.)	PIPE REMOVAL LIN.F.T.	REMARKS													
		54"	60"					66"	72"	78"	84"	WITH R.C. - C.Y.	WITH C.S. - C.Y.	PER EACH (0' THRU 5.0')	5.0' THRU 10.0'								10.0' AND ABOVE	54" WELDED STEEL PIPE, 0.75" THICK, GRADE B (BY BORING & JACKING)	72" WELDED STEEL PIPE, 1.0" THICK, GRADE B (BY BORING & JACKING)	M.D.I. TYPE 'A' STD. 840.17 OR 840.26	M.D.I. FRAME W/ GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	M.H. FRAME & COVER STD. 840.54	SPECIAL DROP INLET (SEE DETAIL 2-R)	DROP INLET FRAME W/ GRATE STD. 840.16				
-Y6- 12+05	LT.	35												7.1																					
-Y6- 12+05	LT.	35	36		282.8	281.6	136'																												
-Y3- 21+91	LT.	36		290.4										8.4																					
-Y3- 21+91	LT.	36	37		281.6	281.3																													
-Y3- 20+07	LT.	49		289.0																	23.15	42'	TRENCHLESS INSTALLATION, REMOVE HW												
-Y3- 20+07	LT.	49	50		282.1	281.8	44'																												
-Y3- 20+52	LT.	50		289.0																	.232		2GI												
-Y3- 20+52	LT.	50	51		281.8																														
-Y3- 20+52	RT.	51																																	
TOTAL :								180'																											
SAY 7.5          SAY 8.5																																			
* ADD TO 48" & UNDER TOTALS																																			

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