RD248621

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2915A	3D-6

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

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

LINE & STATION	LOCATION (LT, RT, OR CL)	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	SLOPE CRITICAL %	SIDE DRAIN PIPE (RCP, CSP, CAAP, HDPE, or PVC) SIZE 12	15	18	24	30	36	42	48	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
								THICKNESS OR GAUGE											
L 84+37	RT	905		2955.50															
		905	902		2946.30	2945.10													
L 84+50	LT	902		2949.60															
		902	901		2936.83	2936.00													
L 84+60	LT	901		2939.50															
L 84+94	RT	906		2952.50															
		906	905		2948.40	2947.80													
L 84+94	RT	907		2960.50															
		907	906		2960.50	2948.60				28						X			
L 84+80	RT	908		2954.12															
		908	909		2951.10	2948.70													
L 88+62	RT	909		2951.83															
		909	910		2946.13	2945.75													
L 88+40	LT	911	OUT		2946.50	2945.80			32										
L 89+09	LT																		
L 89+14	RT	913		2951.57															
L 89+16	CL	913	OUT		2945.90	2939.90													
L 92+63	RT	915		2943.67															
L 92+39	CL	915	914		2939.50	2933.30													
L 92+80	LT	916		2948.00															
		916	1001		2945.00	2944.50													
L 93+12	CL																		
L 94+25	LT	1001		2947.70															
L 95+00		1001	1002		2944.30	2942.70													
L 95+80	RT	1003		2945.00															
		1003	1002		2943.00	2942.65													
L 96+04	CL	1002		2947.70															
		1002	1004		2942.40	2941.90													
L 97+00	LT	1004		2946.70															
		1004	1005		2941.80	2940.90													
L 97+70	RT	1005		2945.85															
		1005	1008		2940.70	2940.00													
L 99+15	RT	1009		2942.70															
		1009	1011		2940.50	2940.00													
L 99+59	RT	1011		2944.30															
L 99+60	RT	1010		2947.50															
L 99+61	RT																		
L 99+40	RT	1008		2945.10															
		1008	1007		2940.00	2939.60													
L 99+58	CL																		
L 99+59	RT																		
L 99+60	LT																		
L 99+66	LT																		
L 100+77	RT																		
L 101+51	LT																		
L 103+00	RT	1012		2943.77															
		1012	1102		2940.60	2938.90													
L 104+28	RT																		
L 106+05	RT	1102		2942.60															
		1102	1101		2929.30	2928.00													
						SHEET TOTAL			32	28									

LINE & STATION	C.S. PIPE SIZE 12	15	18	24	30	36	42	48	R.C. PIPE CLASS III SIZE 12	15	18	24	30	36	42	48	R.C. PIPE CLASS IV SIZE 12	15	18	24	30	36	42	48	* " R.C. PIPE (CLASS V)	15" RC PIPE CULVERTS, CONTRACTOR DESIGN	18" RC PIPE CULVERTS, CONTRACTOR DESIGN	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE
	THICKNESS OR GAUGE																												
L 84+37																													
														120															
L 84+50																													
						168																							
L 84+60																													
L 84+94																													
										60																			
L 84+94																													
L 84+80																													
									384																				
L 88+62																													
									68																				
L 88+40																													
L 89+09																													
L 89+14																													
L 89+16														132															
L 92+63																													
L 92+39											144																		
L 92+80																													
									144																				
L 93+12																													
L 94+25																													
L 95+00									76																				
L 95+80																													
									68																				
L 96+04																													
										100																			
L 97+00																													
										172																			
L 97+70																													
										172																			
L 99+15																													
									44																				
L 99+59																													
L 99+60																													
L 99+61																													
L 99+40																													
										20																			
L 99+58																													
L 99+59																													
L 99+60																													
L 99+66																													
L 100+77																													
L 101+51																													
L 103+00																													
									308																				
L 104+28																													
L 106+05																													
										80																			
SHEET TOTAL			168						1092	604	144		252																

LINE & STATION	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') PER EACH (0' THRU 5.0')	LIN.FT. A 5.0' THRU 10.0'	B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	CONCRETE TRANSITIONAL SECTION DROP INLET STD. 852.04 OR 852.06	CATCH BASIN STD. 852.05	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATE STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR 840.26	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. TYPE "D" STD. 840.19 OR 840.28	G.D.I. FRAME WITH TWO GRATES STD. 840.20 WIDE/FLAT	G.D.I. FRAME WITH TWO GRATES STD. 840.22 WIDE/SAG	G.D.I. FRAME WITH TWO GRATES STD. 840.29 NARROW/FLAT	G.D.I. FRAME WITH TWO GRATES STD. 840.24 NARROW/SAG	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	MANHOLE FRAME AND COVER STD. 840.54	BERM DRAINAGE OUTLET (BDO) STD. 850.10	BERM DRAINAGE OUTLET (BDO) STD. 850.11	CONCRETE MEDIAN DI TYPE-A, EXTRA DEPTH (SEE DETAIL 2C-7)	FLOWABLE FILL (C.Y.)	15" SIDE DRAIN PIPE ELBOWS	18" SIDE DRAIN PIPE ELBOWS NO. & SIZE	24" SIDE DRAIN PIPE ELBOWS NO. & SIZE	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PSH (PREFORMED SCOUR HOLE (QTY. EACH)	PIPE REMOVAL LIN. FT.	15" PIPE END SECTION	18" PIPE END SECTION	REMARKS
L 84+37			1	4.20																		1		1																
L 84+50			1	5.00	2.77									1			1																							REMOVE DI
L 84+60		3																																						STD. 838.01 (SHEET 2 OF 3)
L 84+94			1																			1		1																
L 84+94																									1															18" BERM DITCH OUTLET PIPE
																																	2							
L 84+80			1															1					1																	TB 2GI
L 88+62			1	0.60														1					1																	TB 2GI
L 88+40																																								
L 89+09																																					46			REMOVE 36" RCP
L 89+14	3.4																																							STD. 838.01
L 89+16																																								
L 92+63	1.5																																							STD. 838.01
L 92+39																																								
L 92+80			1							1		1	1																											
L 93+12																																					54			REMOVE 24" RCP
L 94+25			1							1		1	1																											STD. 852.06
L 95+00																																								
L 95+80			1													1			1																					
L 96+04			1	0.30															1			1																		
L 97+00			1							1		1	1																											
L 97+70			1	0.15													1						1																	TB 2GI
L 99+15			1													1		1																						
L 99+59																																								SEE SHEET 3D-12 FOR QUANTITIES
L 99+60																																								SEE SHEET 3D-12 FOR QUANTITIES
L 99+61																																								
L 99+40			1														1						1																	TB 2GI
L 99+58																																					24			REMOVE 12" CMP
L 99+59																																					61			REMOVE 36" CMP
L 99+60																																					45			REMOVE 42" RCP
L 99+66																																					45			REMOVE 42" RCP
L 100+77																																					39			REMOVE 18" HDPE
L 101+51																																					45			REMOVE 18" RCP
L 103+00			1														1						1																	TB 2GI
L 104+28																																					28			REMOVE 10" HDPE
L 106+05			1	5.00	3.30												1						1																	TB 2GI
SHEET TOTAL	4.9	3	15	15.3	6.1					3		3	3		1	2	6	2		1	3		6	3	1						2					387			

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I.(N.S.)	(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