COMPUTED BY:	GSBLELL	DATE:	3/29/2012
CHECKED BY:	AJFOSTER	DATE:	4/1/2014

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2519B	3D-10

RD265410

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)

STATION	LOCATION (LT, RT, OR CL)'	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	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	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"
								THICKNESS OR GAUGE													.064	.064	.064	.064	.079	.079	.109	.109																		
-L- STA. 206+50	LT	1811		2730.37																																										
-L- STA. 206+50	RT	1809	1811		2724.14	2723.45																									108'															
-L- STA. 206+49.73	LT	1811	1812		2723.45	2713.80																	36'																							
-L- STA. 208+20	LT	1810		2726.75																																										
-L- STA. 207+35	LT	1810	1811		2723.00	2723.45			168'																																					
-L- STA. 207+35	LT	1829		2727.58																																										
-L- STA. 207+35	LT	1829	1810		2723.34	2723.00																																		40'						
-Y19- STA. 10+37.88	LT	1802									20'																																			
-Y19- STA. 11+60.38	LT	1803									36'																																			
-L- STA. 208+09.60	RT																																													
-L- STA. 212+50	CL	1813		2718.31																																										
-L- STA. 213+37	CL	1814		2716.60																																										
-L- STA. 212+93.36	CL	1813	1814		2714.07	2709.07																																		84'						
-L- STA. 213+37	RT	1815		2716.56																																										
-L- STA. 213+37	RT	1814	1815		2709.07	2712.32																																		44'						
-L- STA. 213+37	RT	1815	1816		2712.32	2697.95																48'																								
-L- STA. 214+70	CL	1817		2713.21																																										
-L- STA. 214+03.47	CL	1817	1814		2708.97	2709.07																																		132'						
-L- STA. 216+50	RT	1824		2706.52																																										
-L- STA. 216+50	RT	1823	1824		2714.45	2703.72																36'																								
-L- STA. 216+50	RT	1823		2716.62																																										
-Y20- STA.10+50	LT	1826		2698.19																																										
-Y20- STA.10+50	LT	1825	1826		2719.63	2695.39																52'																								
-Y20- STA.9+87.48	LT	1827		2697.31																																										
-Y20- STA.9+62.23	LT	1826	1827		2695.39	2695.01			56'																																					
-Y20- STA.9+62.23	LT	1827	1828		2695.01	2694.87			44'																																					
-L- STA. 220+40	RT	1902		2689.26																																										
-L- STA. 218+44.61	RT	1824	1902		2703.72	2687.34			396'																																					
SHEET 19																																														
-L- STA. 220+61.61	RT	1902	1903		2687.34	2687.10			40'																																					
-L- STA. 222+85	CL	1904		2677.79																																										
-L- STA. 222+85	LT	1905		2673.23																																										
-L- STA. 222+85	LT	1904	1905		2673.24	2670.23																																		68'						
-L- STA. 219+49.83	LT	1901		2690.71																																										
-L- STA. 219+49.83	CL	1919		2695.41																																										
-L- STA. 219+49.83	LT	1919	1901		2690.93	2687.96																																		68'						
-L- STA. 221+17.51	LT	1901	1905		2687.96	2670.48			328'																																					
-L- STA. 224+00	LT	1906		2664.97																																										
-L- STA. 223+42.38	LT	1905	1906		2670.23	2661.97				112'																																				
-L- STA. 225+50	LT	1907		2657.35																																										
-L- STA. 225+50	CL	1908		2663.31																																										
-L- STA. 225+50	LT	1908	1907		2659.07	2654.55																																		80'						
-L- STA. 224+75	LT	1906	1907		2660.22	2652.60					144'																																			
-L- STA. 227+02.4	LT	1909		2651.35																																										
-L- STA. 227+02.4	LT	1910		2661.47																																										
-L- STA. 226+26.41	LT	1909	1910		2648.60	2459.30																32'																								
-L- STA. 227+02.5	LT	1907	1909		2652.60	2646.60					148'																																			
-L- STA. 227+46.33	LT	1911		2648.79																																										
-L- STA. 227+46.33	LT	1912		2680.28																																										
-L- STA. 227+46.33	LT	1912	1911		2678.11	2646.04																76'																								
-L- STA. 227+24.36	LT	1909	1911		2646.60	2644.04					40'																																			
-L- STA. 229+50	LT	1913		2641.34																																										
-L- STA. 228+48.17	LT	1911	1913		2643.54	2636.09							200'																																	
-L- STA. 229+50	CL	1920		2641.75																																										
-L- STA. 229+50	LT	1913	1920		2636.09	2637.51																																								
-L- STA. 229+50	RT	1914		2640.84																																										
-L- STA. 229+50	RT	1920	1914		2637.51	2635.59																																								
SHEET TOTALS									1032'	168'	332'		200'									244'	36'																	516'						

STATION	36" R.C. PIPE (CLASS V)	42" R.C. PIPE (CLASS V)	30" WELDED PIPE, .500" THICK, GRADE B	36" WELDED PIPE, .500" THICK, GRADE B	42" WELDED PIPE, .625" THICK, GRADE B	48" WELDED PIPE, .625" THICK, GRADE B	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	ENDWALLS CU. YARDS C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES "TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') LIN. FT. 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	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E	TYPE OF GRATE F	TYPE OF GRATE G	CONCRETE TRANSITIONAL SECTION DROP INLET	CATCH BASIN	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	SPRING BOX STD. 840.41	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	T.B.G.D.I. STD. 840.35	T.B.J.B. STD. 840.34	J.B. STD. 840.31 OR 840.32	PARALLEL PIPE END SECTION STD. 310.02 OR 310.04	M. H. FRAME AND COVER STD. 840.54	OT CATCH BASIN OR STD. 840D04 (SHEET 2C-10)	PREFORMED SCOUR HOLE	FLOWABLE FILL	J.B. STD. 840.52	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	CS PIPE ELBOWS NO. & SIZE	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	CONC. COLLARS CL. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
-L- STA. 206+50									1	1.92																																				
-L- STA. 206+50																																												86	REMOVE EXIST. 12" CM PIPE
-L- STA. 206+49.73																																							2@18"						
-L- STA. 208+20									1													1					1																		
-L- STA. 207+35																																														
-L- STA. 207+35									1																								1		1										
-L- STA. 207+35																																														
-Y19- STA. 10+37.88																																												20	REMOVE EXIST. 15" CM PIPE
-Y19- STA. 11+60.38																																												24	REMOVE EXIST. 18" CM PIPE
-L- STA. 208+09.60																																												40	REMOVE EXIST. 12" CM PIPE
-L- STA. 212+50									1			1		1																															
-L- STA. 213+37									1	2.53						1		1	1																										
-L- STA. 212+93.36																																														
-L- STA. 213+37									1																								1		1										
-L- STA. 213+37																																														
-L- STA. 213+37																																							2@15"						
-L- STA. 214+70									1							1		1	1																										
-L- STA. 214+03.47																																														
-L- STA. 216+50									1																		1			1															
-L- STA. 216+50																																							2@15"						
-L- STA. 216+50									1																											1									
-Y20- STA.10+50									1																		1			1															
-Y20- STA.10+50																																							2@15"						
-Y20- STA.9+87.48									1										1	1																										
-Y20- STA.9+62.23																																														
-Y20- STA.9+62.23																																												25	REMOVE EXIST. 12" CM PIPE
-L- STA. 220+40									1																			1		1															
-L- STA. 218+44.61																																														
SHEET 19																																														
-L- STA. 220+61.61																																														
-L- STA. 222+85									1			1		1																															
-L- STA. 222+85									1																		1			1															
-L- STA. 222+85																																												45	REMOVE EXIST. 12" CM PIPE
-L- STA. 219+49.83									1																		1			1															
-L- STA. 219+49.83									1			1		1																															
-L- STA. 219+49.83																																														
-L- STA. 221+17.51																																														
-L- STA. 224+00									1																		1			1															
-L- STA. 223+42.38																																														
-L- STA. 225+50									1																		1			1															
-L- STA. 225+50									1			1		1																															
-L- STA. 225+50																																												71	REMOVE EXIST. 18" CM PIPE
-L- STA. 224+75																																														
-L- STA. 227+02.4									1																		1			1															
-L- STA. 227+02.4									1																											1									
-L- STA. 226+26.41																																							2@15"						
-L- STA. 227+02.5																																														
-L- STA. 227+46.33									1	0.25																	1			1															
-L- STA. 227+46.33									1																											1									
-L- STA. 227+46.33																																							2@15"						
-L- STA. 227+24.36																																														
-L- STA. 229+50									1	0.25																	1			1															
-L- STA. 228+48.17																																														
-L- STA. 229+50									1																								1		1										
-L- STA. 229+50							56'																																							
-L- STA. 229+50									1	0.25																	1				1														
-L- STA. 229+50							40'																																					71	REMOVE EXIST. 18" CM PIPE & HW
SHEET TOTALS							96'		26	5.20		4		1	3	2		3	3	6	6	1		10	3			3		3	3		71			10@15"2@18"			382	

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