RD266410

COMPUTED BY: GSBLELL DATE: 3/29/2012

CHECKED BY: AJFOSTER DATE: 3/5/2014

PROJECT NO.	SHEET NO.
R-2519B	3D-2

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**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 / SIZE / THICKNESS OR GAUGE	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) 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 12" .064	15" .064	18" .064	24" .064	30" .079	36" .079	42" .109	48" .109
-L- STA. 41+10	LT	0606		2453.81																							
-L- STA. 41+10	LT	0606	0605		2449.57	2448.35																					
-L- STA. 41+21	LT	0607		2453.81																							
-L- STA. 41+15	LT	0607	0606		2450.30	2449.57																					
-L- STA. 42+00	LT	605A		2452.12																							
-L- STA. 41+98	LT	0605	605A		2449.57	2446.84						92'															
-L- STA. 42+31.56	LT	605A	0608		2446.84	2446.80						60'															
-L- STA. 42+78.57	LT	0608	608A		2446.80	2446.70						48'															
-Y4- STA. 12+86	LT	0609		2449.66																							
-Y4- STA. 12+50	CL	0609	0610		2446.85	2440.17																					
-Y4- STA. 9+70	CL	0619	0620		2438.79	2438.45																					
-Y5- STA. 13+50	LT	0612		2463.19																							
-Y5- STA. 13+50	LT	0611	0612		2468.70	2460.19																12'					
-Y5- STA. 12+50	LT	0613		2460.80																							
-Y5- STA. 13+00	LT	0612	0613		2460.19	2457.80				108'																	
-Y5- STA. 10+84	LT	0614		2451.00																							
-Y5- STA. 11+68	LT	0613	0614		2457.80	2448.33				180'																	
-L- STA. 46+00	RT	0615		2455.60																							
-L- STA. 45+48	RT	0614	0615		2448.33	2447.57					100'																
-L- STA. 46+00	CL	0616		2460.45																							
-L- STA. 46+00	CL	0615	0616		2447.57	2447.36																					
-L- STA. 44+65	CL	0618		2457.87																							
-L- STA. 44+32	CL	0618	0616		2454.30	2453.90																					
-L- STA. 46+30	LT	0616	0617		2447.36	2444.45																					
-L- STA. 48+15	RT	0622		2462.43																							
-L- STA. 50+00	RT	0621		2471.40																							
-L- STA. 49+08	RT	0621	0622		2468.65	2459.68			180'																		
-L- STA. 48+15	CL	0623		2467.50																							
-L- STA. 48+15	CL	0622	0623		2459.68	2459.44																					
-L- STA. 48+15	LT	0624		2466.00																							
-L- STA. 48+15	LT	0623	0624		2459.44	2459.25																					
-L- STA. 48+16	LT	0624	0625		2450.25	2445.69															44'						
-L- STA. 51+50	CL	0626		2482.32																							
-L- STA. 51+50	LT	0627		2481.24																							
-L- STA. 51+50	LT	0626	0627		2478.08	2477.00																					
-L- STA. 50+70	LT	0628		2477.66																							
-L- STA. 51+10	LT	0627	0628		2477.00	2473.91			84'								X	X	X								
-L- STA. 50+58	LT	0628	0629		2467.20	2462.65															50'						
-Y4- STA. 10+92	RT	0630											24'														
-L- STA. 49+00	CL																										
SHEET 7																											
-L- STA. 52+52	RT	0701							36'																		
-L- STA. 52+80	RT	0702	0703		2485.00	2482.93																					
-L- STA. 52+80	CL	0703		2487.43																							
-L- STA. 52+80	LT	0703	0704		2472.00	2467.00																			52'		
-L- STA. 54+60	RT	0705		2498.46																							
-L- STA. 54+60	CL	0706		2495.39																							
-L- STA. 54+60	RT	0705	0706		2493.46	2492.64																					
-L- STA. 54+60	LT	0707		2476.05																							
-L- STA. 54+60	LT	0706	0707		2482.00	2472.40															60'						
-L- STA. 54+44	LT	0707	0708		2472.40	2472.40			8'																		
-L- STA. 59+04	RT	0709	0710		2501.00	2497.64																					
-L- STA. 58+74	RT	0710		2503.44																							
-L- STA. 57+14	LT	0718		2501.60																							
-L- STA. 57+98	LT	0710	0718		2497.64	2485.17																					
-L- STA. 54+90	LT	0719		2476.20																							
SHEET TOTALS									308'	288'	100'	200'	24'								154'	12'			52'		

STATION	R.C. PIPE CLASS III 12"	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS IV 12"	15"	18"	24"	30"	36"	42"	48"	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
-L- STA. 41+10																						
-L- STA. 41+10										48'												
-L- STA. 41+21																						
-L- STA. 41+15										8'												
-L- STA. 42+00																						
-L- STA. 41+98																						
-L- STA. 42+31.56																						
-L- STA. 42+78.57																						
-Y4- STA. 12+86																						
-Y4- STA. 12+50										64'												
-Y4- STA. 9+70													120'									
-Y5- STA. 13+50																						
-Y5- STA. 13+50																						
-Y5- STA. 12+50																						
-Y5- STA. 13+00																						
-Y5- STA. 10+84																						
-Y5- STA. 11+68																						
-L- STA. 46+00																						
-L- STA. 45+48																						
-L- STA. 46+00																						
-L- STA. 46+00				52'																		
-L- STA. 44+65																						
-L- STA. 44+32										132'												
-L- STA. 46+30				116'																		
-L- STA. 48+15																						
-L- STA. 50+00																						
-L- STA. 49+08																						
-L- STA. 48+15																						
-L- STA. 48+15		68'																				
-L- STA. 48+15																						
-L- STA. 48+15		40'																				
-L- STA. 48+16																						
-L- STA. 51+50																						
-L- STA. 51+50																						
-L- STA. 51+50										44'												
-L- STA. 50+70																						
-L- STA. 51+10																						
-L- STA. 50+58																						
-Y4- STA. 10+92																						
-L- STA. 49+00																						
SHEET 7																						
-L- STA. 52+52																						
-L- STA. 52+80						112'																
-L- STA. 52+80																						
-L- STA. 52+80																						
-L- STA. 54+60																						
-L- STA. 54+60																						
-L- STA. 54+60		48'																				
-L- STA. 54+60																						
-L- STA. 54+60																						
-L- STA. 54+44																						
-L- STA. 59+04																52'						
-L- STA. 58+74																						
-L- STA. 57+14																						
-L- STA. 57+98																						200'
-L- STA. 54+90																						
SHEET TOTALS		156'		168'		112'				296'			120'			52'						200'

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 PER EACH (0' THRU 5.0')	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') 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	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. 41+10			1			1	1				1																							
-L- STA. 41+10																																		
-L- STA. 41+21			1			1	1				1																							
-L- STA. 41+15																																		
-L- STA. 42+00			1	0.28										1				1																
-L- STA. 41+98																																		
-L- STA. 42+31.56																																		
-L- STA. 42+78.57																																		
-Y4- STA. 12+86			1												1				1															
-Y4- STA. 12+50																																		
-Y4- STA. 9+70																																	41'	REMOVE EXIST. 15" PVC PIPE
-Y5- STA. 13+50			1												1			1																
-Y5- STA. 13+50																														2@18"				
-Y5- STA. 12+50			1												1			1																
-Y5- STA. 13+00																																		
-Y5- STA. 10+84			1													1		1																
-Y5- STA. 11+68																																		
-L- STA. 46+00			1	3.03										1				1																
-L- STA. 45+48																																		
-L- STA. 46+00			1	5	3.09					1		1	1																					
-L- STA. 46+00																																		
-L- STA. 44+65			1							1		1	1																					
-L- STA. 44+32																																		
-L- STA. 46+30																																		
-L- STA. 48+15			1												1			1									4							
-L- STA. 50+00			1												1			1																
-L- STA. 49+08																																		
-L- STA. 48+15			1	3.06		1			1		1																							
-L- STA. 48+15																																		
-L- STA. 48+15			1	5	5.75																			1				1						
-L- STA. 48+15																																		
-L- STA. 48+16																																		
-L- STA. 51+50			1			1		1			1																							
-L- STA. 51+50			1												1				1															
-L- STA. 51+50																																		
-L- STA. 50+70			1	5	0.46										1				1															
-L- STA. 51+10																																		
-L- STA. 50+58																																		
-Y4- STA. 10+92																																		
-L- STA. 49+00																																	64'	REMOVE EXIST. 18" CMP
SHEET 7																																		
-L- STA. 52+52																																		
-L- STA. 52+80	3.400																										14						212'	REMOVE EXIST. 18" CMP
-L- STA. 52+80			1	5	5.43																			1				1						
-L- STA. 52+80																																		
-L- STA. 54+60			1			1		1			1																							
-L- STA. 54+60			1	5	3.39										1				1															
-L- STA. 54+60																																		
-L- STA. 54+60			1																			1		1										
-L- STA. 54+60																																		
-L- STA. 54+44																																		
-L- STA. 59+04	6																																	
-L- STA. 58+74			1	0.8																								1						
-L- STA. 57+14			1	5	6.43																			1				1						
-L- STA. 57+98																											86							
-L- STA. 54+90			1	1.4																					1									
SHEET TOTALS	9.400		24	38.57	24.55	5	2	2	1	2	5	2	2	2	8	1		7	4			1		4	1		104	4		2@18"			317'	

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