COMPUTED BY: Joshua G. Dalton, PE DATE: 3/12/2015

CHECKED BY: Jimmy Goodnight, PE DATE: 4/1/2015

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
W-5514	3D-3

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.

Choose Project Tier

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

STATION / SIZE	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"	15"	18"	24"	30"	36"	42"	48"	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"	** " R.C. PIPE (CLASS V)	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	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	G.D.I. FRAME WITH GRATE STD. 840.20	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.34	M.H. FRAME AND COVER STD. 840.54	T.B.D.I. STD. 840.35	CONVERT O.T.C.B. TO C.B.	CONVERT C.B. TO J.B.	SIDE DRAIN 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
THICKNESS OR GAUGE																				.064	.064	.064	.064	.079	.079	.109	.109																																																				
204+60 -L-	RT	1121		193.0	189.8																																														1							1		1	1																		
		1121	1120		189.8	189.6																															56																																											
205+20 -L-	RT	1122		193.0	187.8																																														1			1		1			1																					
205+80 -L-	RT	1123		193.1	190.0																																														1			1		1			1																					
		1123	1122		190.0	187.8																															60																																										
206+40 -L-	RT	1124		193.2	190.2																																														1			1		1			1																					
		1124	1123		190.2	190.0																															60																																										
207+00 -L-	RT	1125		193.3	190.3																																														1			1		1			1																					
		1125	1124		190.3	190.0																															60																																										
207+69 -L-	RT	1126		193.5	190.3																																														1			1		1			1																					
		1126	1127		190.3	188.4																															52																																										
199+13 -L-	RT	1128		189.9	186.7																																														1							1		1	1																		
		1128	1113		186.7	186.3																															68																																										
208+20 -L-	RT	1201		193.6	190.5																																														1			1		1			1																					
		1201	1126		190.5	190.3																															52																																										
208+80 -L-	RT	1202		193.8	190.7																																														1			1		1			1																					
		1202	1201		190.7	190.5																															60																																										
209+30 -L-	RT	1203		193.9	190.9																																														1			1		1			1																					
		1203	1202		190.9	190.7																															52																																										
214+00 -L-	LT	1204		194.8	191.6																																														1							1		1	1																		
		1204	1205		191.6	190.6																															228																																										
211+70 -L-	LT	1205		193.8	190.6																																														1							1		1	1																		
		1205	1206		190.6	190.5																															8																																										
211+64 -L-	LT	1206		193.8	190.5																																														1							1		1	1																		
		1206	1207		190.5	189.9																															112																																										
210+55 -L-	RT	1207		194.2	189.9																																														1							1		1	1																		
		1207	1208		189.9	188.8																															52																																										
228+00 -L-	RT	1301		192.8	189.6																																														1							1		1	1																		
		1301	1302		189.6	189.4																															52																																										
228+50 -L-	RT	1302		192.7	189.4																																														1							1		1	1																		
		1302	1303		189.4	189.2																															52																																										
229+00 -L-	RT	1303		192.6	189.2																																														1							1		1	1																		
		1303	1304		189.2	189.0																															24																																										
229+24 -L-	RT	1304		192.6	189.0																																														1							1		1	1																		
		1304	1305		189.0	187.5																															48																																										
230+72 -L-	LT	1306		192.5	189.3																																														1							1		1	1																		
		1306	1307		189.3	189.0																															80																																										
231+50 -L-	LT	1307		192.4	189.0																																														1							1		1	1																		
		1307	1308		189.0	188.5																															12																																										
231+60 -L-	LT	1308		192.4	181.3																																														1	5	1.1																		1	1									
234+68 -L-	RT	1402		192.9	188.9																																														1							1		1	1																		
		1402	1401		188.9	188.2																															48																																										
235+10 -L-	RT	1403		192.9	189.1																																														1							1		1	1																		
		1403	1402		189.1	188.9																															44																																										
235+50 -L-	RT	1404		192.9	189.3																																														1							1		1	1																		
		1404	1403		189.3	189.1																															40																																										
236+00 -L-	RT	1405		192.9	189.5																																														1							1		1	1																		
		1405	1404		189.5	189.3																															52																																										
236+50 -L-	RT	1406		192.9	189.7																																														1							1		1	1																		
		1406	1405		189.7	189.5																															52																																										
245+33 -L-	LT	1407		192.7	189.5																																														1							1		1	1																		
		1407	1408		189.5	187.3																																																																												
246+20 -L-	CL	1408		192.9	187.3																																														1	0.6																		1	1									
SHEET 3-C TOTALS																																					1424														28	5.6	1.1	8		8		18	8	18	18									2	2								
SHEET 3-A TOTALS																																					1652														28	7.4						26		26	26									2	2								
SHEET 3-B TOTALS																															16		12	20			808		52										4.5		22	4		2	1	2		12		12	12							5	1	2	6	5	1	3			1.317	10	
PROJECT TOTALS																															16		12	20			3884		52										4.5		78	17.0	1.1	10	1	10		56	8	56	56							5	1	6	10	5	1	3			1.317	10	
SAY																																																	5			18.4																											2		

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