D3CAD274448

COMPUTED BY: JL MOORE DATE: 6/1/2015

CHECKED BY: PA JORDAN DATE: 6/1/15

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
W-5103	3D-4

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".

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

STATION (SIZE / THICKNESS OR GAUGE) -L-	LOCATION (LT, RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	DRAINAGE 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	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"
218+46	LT	1701		50.1	46.9																																					
218+70	RT	1702		50.4	46.8																																					
219+40	RT	1703		50.4	46.6																																					
220+50	RT	1704		50.0	46.3																																					
222+00	RT	1705		49.1	45.8																																					
223+50	CL	1706		47.5	44.8																																					
225+50	LT	1707		45.3	41.5																																					
		1701	1702		46.9	46.8	X																													32						
		1702	1703		46.8	46.6	X																													76						
		1703	1704		46.6	46.3	X																													100						
		1704	1705		46.3	45.8	X																													148						
		1705	1706		45.8	44.8	X																													148						
		1706	1707		44.8	42.6	X																													200						
245+50	LT	1901		38.5																																						
		1901	1902		35.8	35.5	X																													48						
260+00	RT	2001		34.4	32.5																																					
258+05	RT	2002		35.4	31.9																																					
258+05	LT	2003		35.7	31.8																																					
256+75	RT	2004		34.8	31.6																																					
256+75	LT	2005		34.3	30.9																																					
254+50	LT	2006		33.1	30.4																																					
251+90	LT	1904		32.5	29.3																																					
		2001	2002		32.5	31.9	X																													192						
		2002	2003		31.9	31.8	X																													20						
		2003	2005		31.8	31.1	X																													128						
		2004	2005		31.6	31.1	X																													20						
		2005	2006		30.9	30.4	X																														224					
		2006	1904		30.4	29.3	X																														256					
		1903	1904		31.0	31.0	X																														12					
		1904	1905		29.3	29.1	X																																64			
L1																																										
31+00	RT	2401		17.9	15.9																																					
		2401	2402		15.9	15.8	X																													12						
43+50	RT	2501		20.3	18.4																																					
41+00	RT	2502		21.8	17.6																																					
39+30	RT	2503		22.1	17.1																																					
39+30	LT	2504		22.4	17.0																																					
37+90	RT	2505		22.7	19.5																																					
37+90	LT	2506		22.3	16.6																																					
37+20	LT	2508		21.0	16.2																																					
37+26	CL	2509		22.2	16.0																																					
		2501	2502		18.4	17.6	X																													248						
		2502	2503		17.6	17.1	X																													164						
		2503	2504		17.1	17.0	X																													20						
		2504	2506		17.0	16.6	X																														144					
		2505	2506		19.5	19.1	X																													20						
		2506	2508		16.6	16.2	X																														64					
		2508	2509		16.2	16.0																															8					
SHEET TOTALS																																				1576	708		64			

STRUCTURE NO. FROM	TO	24" WELDED STEEL PIPE, 0.5" THICK	30" WELDED STEEL PIPE, 0.5" THICK	36" WELDED STEEL PIPE, 0.5" THICK	4 SIDE OPEN THROAT CATCH BASIN (SEE DETAIL 2C-6)	ADJUST CB	ADJUST DI	CONVERT TBDI TO TBJB (SEE DETAIL 2C-4)	TEMP. STEEL PLATE COVERS FOR DRAINAGE STRUCTURES (SEE DETAIL 2C-5)	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	O.T.C.B. STD. 840.04 OR STD. 840.05	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	GRATE WITH FRAME, DRIVEWAY DROP INLET STD. 840.30	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. TYPE "D" STD. 840.19 OR 840.28	T.B.D.I. STD. 840.35	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	M.H. FRAME AND COVER STD. 840.54	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.34	G.D.I. TYPE "A" STD. 840.17, 840.26	ENERGY DISSIPATOR BASIN	FLOWABLE FILL (CY)	DRAINAGE 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
1701										1							1			1	1																	
1702										1							1			1	1																	
1703										1							1			1	1																	
1704										1							1			1	1																	
1705										1							1			1	1																	
1706										1													1					1										
1707										1													1					1										Remove 2GI
1901										1													1			1												
1901	1902																																					1902 requires a parallel pipe end section
2001										1														1				1										
2002										1							1			1	1																	
2003										1							1			1	1																	
2004										1							1			1	1																	
2005										1							1			1	1																	
2006										1														1				1										
1904										1														1				1										
1903	1904																																			0.45	4.00	
1904	1905																																				56.00	
2401										1														1				1										
2401	2402																																			0.4		
2501										1													1					1										
2502										1													1					1										
2503										1										1	1																	
2504										1										1	1																	
2505										1										1	1																	
2506										1										1	1																	
2508										1													1					1										
2509										1	1.2																1			1								Remove OTCB
SHEET TOTALS										24	1.2						9			13	13		6	4		1	1	9		1						0.85	60	

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