COMPUTED BY: RWP DATE: 2/18/2014

CHECKED BY: RSW DATE: 6/8/2014

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".

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STATEWIDE

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

PROJECT NO.	SHEET NO.
R-2603	3D-7

STATION / SIZE / THICKNESS OR GAUGE	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"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	C.S. PIPE 15" .064	18" .064	24" .064	36" .079	42" .109	48" .109	R.C. PIPE CLASS III 15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS IV 15"	18"	24"	30"	36"	42"	48"
-Y10- 12+17	LT	0951		1053.5	1049.0																																	
		0951	0952		1049.0	1047.1			44																													
-L- 91+83	LT	0952		1052.1	1047.1																																	
		0952	0953		1047.1	1046.1			24																													
-L- 91+75	LT	0953		1051.1	1046.1																																	
		0953	0955		1046.1	1045.5																		176														
-L- 90+01	LT	0954		1050.5	1046.2																																	
		0954	0955		1046.2	1045.5			16																													
-L- 90+00	LT	0955		1050.5	1045.5																																	
		0955	0957		1045.5	1044.8																				84												
-L- 89+17	LT	0956		1050.6	1046.3																																	
		0956	0957		1046.3	1044.8																				36												
-L- 89+15	LT	0957		1050.3	1044.8																																	
		0957	0959		1044.8	1044.0																					80											
-L- 91+19	RT	0964		1051.0	1048.0																																	
		0964	0968		1048.0	1047.9			12																													
-L- 91+18	RT	0968		1050.9	1047.9																																	
		0968	0958		1047.9	1047.6																		68														
-L- 90+50	RT	0958		1050.6	1047.6																																	
		0958	0959		1047.6	1045.8																		132														
-L- 89+20	RT	0959		1050.3	1044.8																																	
-L- 89+14 (OUT)	RT	0959	0960		1044.8	1042.0							28																									
NOT USED		1001	1004																																			
-L- 93+53	LT	1005		1052.7	1049.9																																	
		1005	1006		1049.9	1047.7			24																													
-L- 93+50	LT	1006		1051.7	1047.7																																	
		1006	0953		1047.7	1047.2																		176														
NOT USED		1007																																				
-DRIVE8- 10+88	CL	1008																							56													
-L- 93+50	RT	1009		1051.7	1048.8																																	
		1009	1011		1048.7	1048.8																		124														
-L- 94+75	LT	1010		1052.1	1049.1																																	
		1010	1011		1049.1	1048.8																		80														
-L- 94+75	RT	1011		1052.1	1048.8																																	
		1011	1012		1048.8	1048.2																		84														
-L- 95+60	RT	1012		1052.4	1048.2																																	
-L- 95+70 (OUT)	LT	1012	1028		1048.2	1047.8																		108														
-L- 96+70	RT	1013		1052.9	1049.4																																	
		1013	1014		1049.9	1048.7																		80														
-L- 96+56	LT	1014		1052.9	1048.7																																	
-L- 96+56 (OUT)	LT	1014	1017		1048.7	1047.3																										32						
-L- 96+78 (IN)	LT	1015	1016		1045.4	1024.8															172																	
-L- 96+85	RT	1016		1030.0	1024.8																																	
-L- 96+85	RT																																					
-L- 98+38	LT	1018		1053.4	1050.1																																	
-L- 98+26 (OUT)	LT	1018	1019		1050.1	1048.7			24																													
-L- 101+00	LT	1020		1053.7	1050.7																																	
		1020	1021		1050.7	1046.7																		200														
-L- 103+00	LT	1021		1049.7	1046.7																																	
		1021	1105		1046.7	1029.0																		228														
-L- 95+41	LT	1022																																				
-Y11- 13+31	CL	1023	1019		1050.5	1048.7																			104													
-DRIVE6- 12+65	CL	1029	1030		1031.3	1023.5																			64													
-L- 101+50	RT	1024		1051.4	1048.4																																	
		1024	1025		1048.4	1042.5																		216														
-L- 103+65 (IN)	RT	1027	1026		1055.2	1043.3			28					X																									
-L- 103+65	RT	1026		1047.0	1043.0																																	
		1026	1025		1043.0	1042.5			8																													
-L- 103+65	RT	1025		1046.2	1042.5																																	
		1025	1104		1042.5	1034.8																		188														
SHEET TOTALS									180				28								172			1684	400	120	80				32						

STATION	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) R.C.P.	ENDWALLS CU. YARDS C.S.P.	QUANTITIES FOR MASONRY 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'	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	F	G	CONCRETE TRANSITIONAL SECTION DROP INLET	CATCH BASIN	O.T.C.B. STD. 840.04 OR 840.05	D.I. STD. 840.14 OR 840.15	D.I. FRAME & GRATES 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	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35 (FOR CAST IRON FRAME & GRATES)	DRIVEWAY DROP INLET, STD. 840.30				G.D.I. (N.S.) FRAME WITH SAG GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO SAG GRATES STD. 840.24	G.D.I. (N.S.) FRAME WITH SAG GRATE STD. 840.29	G.D.I. (N.S.) FRAME WITH TWO FLAT GRATES STD. 840.29	FRAME WITH GRATES, DRIVEWAY DROP INLET, STD. 840.30	MANHOLE FRAME AND COVER STD. 840.54	TEMPORARY 1" STEEL COVER (SEE DETAIL ON SHEET 2C-10)	PREFORMED SCOUR HOLE			BERM DRAINAGE OUTLET (SY) STD. 850.10 OR 850.11	CONVERT EXIST. D.I. TO J.B. w/ MH (SEE DETAIL ON SHEET 2C-4)				ADJUST EXIST. C.B.	ADJUST EXIST. D.I.	FLOWABLE FILL (CY)	CORR. STEEL PIPE ELBOWS - NO. & SIZE (INCHES)	DRAINAGE PIPE ELBOWS - NO. & SIZE (INCHES)	CONC. & BRICK PIPE PLUG (C.Y.) STD. 840.71	CONC. COLLARS CL. "B" (C.Y.) STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
-Y10- 12+17						1													1															1																
-L- 91+83						1													1															1																
-L- 91+75						1			1		1																																						43	REM 18"
																																																	50	REM 18"
-L- 90+01						1										1	1																																
-L- 90+00						1			1		1																																						
																																																	127	REM 18"
-L- 89+17						1										1	1																																
																																																	26	REM 26' OF EX. 24"
-L- 89+15						1	0.5		1		1																																						
																																																	51	REM 30"
-L- 91+19						1													1															1																
-L- 91+18						1			1			1																																					
-L- 90+50						1			1			1																																					
-L- 89+20						1	0.5		1			1																																					
-L- 89+14 (OUT)																																																		
NOT USED																																																		
-L- 93+53						1													1																		1														
-L- 93+50						1			1		1																																							
NOT USED																																																		
-DRIVE8- 10+88																																																		
-L- 93+50						1			1			1																																						
-L- 94+75						1			1		1																																							
-L- 94+75						1			1			1																																						
-L- 95+60						1			1			1																																						
-L- 95+70 (OUT)																																																		
-L- 96+70						1			1			1																																						
																																																	101	REM 30"
-L- 96+56						1			1		1																																							
-L- 96+56 (OUT)																																																		
-L- 96+78 (IN)					2.0																																													
-L- 96+85						1	0.2								1																																		O.T.C.B. (4 SIDES OPEN)
-L- 96+85																																																	6	REM 6' OF EX. 18"
-L- 98+38						1			1	1																																								
-L- 98+26 (OUT)																																																		
-L- 101+00						1			1			1																																						
-L- 103+00						1			1			1																																						
-L- 95+41				40																																													40	REM 15"
-Y11- 13+31																																																	71	REM 18"
-DRIVE6- 12+65																																																		TIE TO EXIST. CB
-L- 101+50						1			1		1																																							
-L- 103+65 (IN)																																								11										
-L- 103+65						1																					1									1													
-L- 103+65						1			1		1																																							
SHEET TOTALS	40				2.0	26	1.2		18	1	8	9			1	2	2		4		1									3		1		1				11											515	

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.)	GRATED DROP INLET (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

7/2/2015 14:09
R:\Roadway\Proj\R2603_rdy_psh\3D-1_thru_3D-12_DrainageSummaries.xls