NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

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

COMPUTED BY: RWP DATE: 2/18/2014

CHECKED BY: RSW DATE: 6/8/2014

PROJECT NO.	SHEET NO.
R-2603	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".

STATION	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
-L- 55+88	RT	0705		1093.9	1091.2																		
		0705	0713		1091.2	1087.9			68														
-L- 57+30	RT	0714		1091.3	1088.5																		
		0714	0713		1088.5	1087.9			80														
-L- 56+53	RT	0713		1093.9	1087.9																		
		0713	0708		1087.9	1085.9																	
-L- 56+50	LT	0708		1089.2	1085.9																		
		0708	0711		1085.9	1078.7																	
-L- 58+21	LT	0709		1087.2	1082.2																		
		0709	0711		1082.2	1078.7			24					X									
-L- 58+20	CL	0710		1085.2	1080.2																		
		0710	0711		1080.2	1078.7																	
-L- 58+20	LT	0711		1083.7	1078.7																		
-L- 59+42 (RCBC)	LT	0711	0712		1078.7	1054.0													120				
-L- 60+00	LT																						
-L- 60+25	LT	0715		1076.9	1071.9																		
-L- 59+52 (RCBC)		0715	0716		1071.9	1055.0												72					
-L- 59+67	RT																						
NOT USED		0717	0718																				
-L-61+82	CL	0719		1076.0	1073.0																		
		0719	0720		1073.0	1070.3																	
-L- 60+40	CL	0720		1078.3	1070.3																		
		0720	0721		1070.3	1069.5																	
-L- 59+58	CL	0721		1079.5	1069.5																		
-L- 59+48 (RCBC)		0721	0722		1069.5	1054.0												52					
NOT USED		0723	0726																				
-Y8- 13+76	LT	0727		1074.6	1071.9																		
-Y8- 13+50 (OUT)	LT	0727	0728		1071.9	1071.8			28														
NOT USED		729																					
-L- 63+03	LT	0730		1075.7	1072.9																		
		0730	0731		1072.9	1071.7			28														
-L- 63+03	LT	0731		1074.5	1071.7																		
		0731	0805		1071.7	1070.7																	
-L- 61+83	RT	0732		1074.6	1071.8																		
		0732	0733		1071.8	1071.2																	
-L- 62+82	RT	0733		1074.9	1071.2																		
		0733	0815		1071.2	1070.0																	
NOT USED		0801																					
NOT USED		0803	0804																				
NOT USED		0813	0814																				
NOT USED		0817	0818																				
-L- 65+30	RT	0815		1073.0	1070.0																		
-L- 65+27 (OUT)	RT	0815	0816		1070.0	1068.0																	
-L- 64+24	LT	0805		1073.9	1070.7																		
		0805	0802		1070.7	1068.3																	
-L- 66+30	LT	0806		1074.5	1071.7																		
		0806	0807		1071.7	1071.0			64														
-L- 65+42	LT	0808		1074.3	1071.6																		
		0808	0807		1071.6	1071.0			56														
-L- 65+98	LT	0807		1074.2	1071.0																		
		0807	0802		1071.0	1068.5			32														
-L- 65+97	LT	0802		1072.6	1068.3																		
		0802	0809		1068.3	1068.0																	
-L- 65+95	CL	0809		1073.2	1068.0																		
		0809	0811		1068.0	1066.5																	
-L- 67+63	LT	0810		1073.4	1070.6																		
		0810	0811		1070.6	1066.5																	
-L- 67+65	CL	0811		1071.5	1066.5																		
		0811	0812		1066.5	1065.4																	
-L- 67+92	RT	0812		1070.4	1065.4																		
SHEET TOTALS									380									124	120				

STATION	FROM	TO	R.C. PIPE CLASS III 15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS IV 15"	18"	24"	30"	36"	42"	48"	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) CU. YARDS R.C.P.	C.S.P.
	0713	0708	96																		
	0708	0711	164																		
	0710	0711	36																		
	0719	0720	144																		
	0720	0721	44																		
	0731	0805	120																		
	0732	0733	104																		
	0733	0815	248																		
-L- 65+27 (OUT)	0815	0816	24																		
	0805	0802		172																	
	0802	0809		44																	
	0809	0811		172																	
	0810	0811	64																		
	0811	0812	56																		
SHEET TOTALS			1100	388																	

STATION	FROM	TO	QUANTITIES FOR MASONRY 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 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
-L- 55+88	0705		1													1					
-L- 57+30	0714		1													1					
-L- 56+53	0713		1	1.0												1					
-L- 56+50	0708		1			1			1												
-L- 58+21	0709		1													1					
-L- 58+20	0710		1			1			1		1										
-L- 58+20	0711		1			1			1												
-L- 60+25	0715		1			1			1												
-L-61+82	0719		1							1			1	1							
-L- 60+40	0720		1	3.0						1			1	1							
-L- 59+58	0721		1	5.0		1			1		1										
-Y8- 13+76	0727		1			1		1													
-L- 63+03	0730		1													1					
-L- 63+03	0731		1			1			1												
-L- 61+83	0732		1			1		1													
-L- 62+82	0733		1			1		1													
-L- 65+30	0815		1			1		1													
-L- 64+24	0805		1			1			1												
-L- 66+30	0806		1													1					
-L- 65+42	0808		1													1					
-L- 65+98	0807		1													1					
-L- 65+97	0802		1			1			1												
-L- 65+95	0809		1	0.2		1		1			1										
-L- 67+63	0810		1													1					
-L- 67+65	0811		1			1		1			1										
-L- 67+92	0812		1			1		1													
SHEET TOTALS			26	9.2		15		7	8	2	4		2	2		9					

STATION	FROM	TO	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
-L- 55+88	0705					1															
-L- 57+30	0714					1															
-L- 56+53	0713					1															
-L- 58+21	0709					1															
	0710	0711																		80	REM 15"
-L- 59+42 (RCBC)	0711	0712																		70	REM 15"
-L- 60+00																				70	REM 24", 84", 108"
-L- 60+25	0715														295.0						FILL 125' OF 108" CMP w/FLOWABLE FILL
-L- 59+52 (RCBC)	0715	0716													173.0						FILL 95' OF 7'x7' RCBC w/FLOWABLE FILL
-L- 59+67															52.0						FILL 22' OF 108" CMP w/FLOWABLE FILL
-L- 63+03	0730					1															
	0805	0802																		137	REM 15"
-L- 66+30	0806					1														23	REM 12"
-L- 65+42	0808					1															
-L- 65+98	0807					1															
-L- 67+63	0810					1														28	REM 28' OF EX. 15"
	0810	0811																		51	REM 18"
	0811	0812																		34	REM 34' OF EX. 18"
SHEET TOTALS						9									520.0					493	

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