COMPUTED BY:	KDA	DATE:	1/27/2015
CHECKED BY:	ITY	DATE:	3/23/2015

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
B-5105	3D-1

RD27970

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	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) SIZE	THICKNESS OR GAUGE	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	C.S. PIPE SIZE	THICKNESS OR GAUGE	R.C. PIPE CLASS III SIZE	R.C. PIPE CLASS IV SIZE	** R.C. PIPE (CLASS V)	*** RC PIPE CULVERTS, CONTRACTOR DESIGN	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.	ENDWALLS CU. YARDS C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0')	LIN. FT. A 5.0' THRU 10.0'	LIN. FT. B 10.0' AND ABOVE	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B')	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 (EACH) DROP INLET	CATCH BASIN	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	CONVERT D.I. TO J.B. W/M.H. COVER (SEE DETAIL 2C-1)	MANHOLE FRAME & COVER STD. 840.54	ADJUST EXISTING MANHOLE	DRAINAGE PIPE ELBOWS NO. & SIZE	C. S. 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-																																																			
14+43.50	RT	401		559.90	556.48																				1				1		1																		
		401	401A		556.48	556.08										80'																																	
15+24.86	RT	401A		559.53	556.08																				1				1		1																		
		401A	402		556.08	555.67										80'																																	
16+06.50	RT	402		559.16	555.67																				1				1		1																		
		402	403		555.67	549.87									32'																																2 @ 18"				
17+76.50	RT	404		558.85	555.68																				1				1		1																		
		404	405		555.68	555.40											48'																																
18+26.50	RT	405		558.60	555.40																				1				1	1																			
		405	406		555.40	539.41								56'																																2 @ 15"				
18+90.00	RT	407		558.90	555.73																				1				1			1																	
		407	405		555.73	555.40											60'																																
18+26.50	LT	408		558.60	555.41																				1				1	1																			
		408	409		555.41	552.21								36'																																2 @ 15"				
18+90.00	LT	410		558.90	555.73																				1				1		1																		
		410	408		555.73	555.41											64'																																
21+25.00	LT	411		559.78	553.61																				1	1.17			1		1																		
		411	412		553.61	543.08									52'																																2 @ 24"				
21+25.00	RT	413		559.78	556.36																				1				1			1																	
		413	411		556.36	556.14												44'																																
21+85.00	RT	414		561.82	558.40																				1				1			1																	
		414	413		558.40	556.36												160'																																
22+40.00	LT	415		561.06	554.19																				1	1.87			1		1																		
		415	411		554.19	553.61											112'																															82	REMOVE 30" RCP AND HEADWALL
22+64.00	LT	416		561.32	554.31																																								1					
		416	415		554.31	554.19											24'																																
23+39.00	LT	417		563.52	555.82																					2.7													1	1									
23+39.00		418		561.31	557.04																				1										1	1													
		418	417		557.04	555.82										12'																																	
4 @ 15"																																																			
2 @ 18"																										5.74																								
PROJECT TOTALS														92'	32'	52'		172'	136'						172'	204'			13	6'		12	2	7	3			1	1		1	1	1					2 @ 24"			82'	PROJECT TOTAL

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