COMPUTED BY:	MJD	DATE:	1/11/2012
CHECKED BY:	SKR	DATE:	7/18/14

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-3465	3D-14

RD266446

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	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 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 THICKNESS OR GAUGE SIZE 12" .064	15" .064	18" .064	24" .064	30" .079	36" .079	42" .109	48" .109	R.C. PIPE CLASS III SIZE 12"	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS IV SIZE 12"	15"	18"	24"	30"	36"	42"
-L-																																										
220+63	LT	1908	1909		184.0	183.2																																				56
221+04	LT	1909		188.0	183.2																																					
	LT	1909	1914		183.2	182.4																																				52
-Y9-																																										
22+58	RT	1914		187.2	182.4																																					
	RT	1914	1917		182.4	182.3	X																																			28
22+32	RT	1917		187.4	182.3																																					
	RT	1917	1919		182.3	182.1	X																																			24
22+08	RT	1919		188.0	175.0																																					
	RT	1919	1916		175.0	173.0																																				
	RT	1919	1915		175.0	175.2	X																																			
	RT	1915		187.6	175.2																																					
-L-																																										
221+15	RT	1910		186.6	183.6																																					
	RT	1910	1911		183.6	181.9																																				
-Y9-																																										
25+04	RT	1911		184.9	181.9																																					
	RT	1911	1912		181.9	181.8																																				
25+08	RT	1912		184.8	181.8																																					
	RT	1912	1913		181.8	181.9	X		16								X	X																								
	RT	1913		185.7	181.9																																					
	RT	1912	1918		181.8	180.0																																				
26+12	RT	1918		183.3	180.0																																					
-Y-																																										
13+46	RT	2001	2002		291.6	289.5																																				
15+81	LT	2007							28																																	
16+64	LT	2008							44																																	
17+56	LT	2009							32																																	
-YB-																																										
11+22	LT	2003	2004		288.6	286.7																																				
10+75	RT																																									
13+27	LT	2005							52																																	
	RT	2006							40																																	
-YA1-																																										
12+85	LT	2101		312.4	309.4																																					
	LT	2101	2102		309.4	309.2			28																																	
13+12	RT	2103		313.3	310.3																																					
	RT	2103	2104		310.3	310.2			32																																	
	RT	2113	2108		310.2	310.9																																				
-DRV3-																																										
10+60	RT	2108		314.6	310.9																																					
	RT	2108	2107		310.9	311.1	X																																			
	LT	2107		314.7	311.1																																					
	LT	2107	2106		311.1	311.2	X																																			
-YA2-																																										
10+58	RT	2106		314.7	311.2																																					
	RT	2106	2105		311.2	311.6	X																																			
	LT	2105		314.6	311.6																																					
-DRV2-																																										
14+90	RT	2109		304.0	301.0																																					
SHEET TOTALS									272																																	420

STATION	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")	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 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	4" CONCRETE PAVED DITCH, S.Y.	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
-L-																																										
220+63																																									79	REMOVE 15" RCP AND EXISTING CB
221+04									1			1			1																										15	REMOVE 15" RCP AND EXISTING DI
-Y9-																																										
22+58									1			1		1																												REMOVE 15" RCP AND EXISTING CB
22+32									1	0.1		1		1																								0.045			REMOVE EX. CB
22+08									1	5	3															1		1														
		112																																								TRENCHLESS INSTALLATION
									1	5	2.4											1				1						11.3									PLUG AND FILL THREE EX. 18" RCP
-L-																																										
221+15									1			1		1																												
-Y9-																																										
25+04									1			1		1																												
25+08									1			1		1																												
									1											1	1																					
																																					3.8			13	PLUG AND FILL EX. 15" RCP
26+12									1			1		1																												
-Y-																																										
13+46																																										
15+81																																										
16+64																																										
17+56																																									21	REMOVE 15" RCP
-YB-																																										
11+22																																									60	REMOVE 24" RCP
10+75																																									61	REMOVE 15" RCP
13+27																																									49	REMOVE 15" RCP
																																										REMOVE 15" RCP AT PROPOSED PIPE
-YA1-																																										
12+85									1			1		1																												
13+12									1			1			1																										37	REMOVE 15" RCP
-DRV3-																																										
10+60									1			1			1																										97	REMOVE 18" RCP (LT. OF YA1)
									1			1	1																													
																																									37	REMOVE 15" RCP
-YA2-																																										
10+58				1			1		1			1	1																												PREFAB TB BOX IN PHASE 1 & FINISH IN LATER PHASE
									1			1		1																												
-DRV2-																																										
14+90									1			1			1																											
SHEET TOTALS		112		1				1	17	10.1	5.4	14	2	8	4				1	1		1				1	1	1				15.1		0.045			469	

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