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-9

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 (-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
	CL	1203	1204		273.6	271.5													
	LT	1204		274.5	271.5														
	LT	1204	1205		271.5	269.3													
126+00	LT	1205		272.3	269.1														
	LT	1205	1206		269.1	267.3	X												
127+98	RT	1201								36									
	LT	1206		270.7	266.9														
	LT	1206	1209		266.9	266.8	X												
128+57	LT	1209		270.8	258.4														
127+98	CL	1207		273.1	270.1														
	CL	1207	1208		270.1	270.0	X												
128+57	CL	1208		273.3	270.0														
	CL	1208	1209		270.0	267.8													
	LT	1209	1210		258.4	256.1													
128+72	LT	1227	1228		260.0	256.1													
	RT	1227	1226		260.0	262.2													
128+85	RT	1226	1225		262.2	262.5													
128+57	LT	1209	1212		266.1	268.9													
130+43	LT	1212		273.6	268.9														
-Y6B-																			
10+80	RT	1222		275.9	272.9														
	RT	1222	1223		272.9	272.8	X												
	LT	1223		275.9	271.6														
	LT	1223	1221		271.6	271.8													
	LT	1223	1211		271.6	271.0	X												
11+60	LT	1224								28									
-L-																			
130+43	CL	1211		275.6	271.0														
	CL	1211	1212		271.0	269.4													
	CL	1211	1231		271.9	272.8													
133+40	CL	1213		283.8	280.1														
	CL	1213	1214		280.6	281.7													
	RT	1214		285.0	281.7														
	RT	1214	1215		281.7	283.7				28							X	X	
	RT	1215		287.2	283.7														
	CL	1213	1218		280.8	285.7													
135+69	CL	1218		288.7	285.7														
	CL	1218	1219		285.7	286.6											X	X	
	RT	1219		289.6	286.6														
	RT	1219	1220		286.6	295.5			32							X			
	RT	1219	1309		286.6	287.2													
130+43	LT	1212	1229		270.6	274.9													
132+04	LT	1229		277.9	274.9														
	LT	1229	1217		274.9	276.3													
133+46	LT	1217		281.8	276.3														
	LT	1217	1216		276.3	276.4	X		28								X	X	
	LT	1216		278.6	276.4														
	LT	1217	1230		278.8	283.7													
131+00	CL	1231		277.2	272.8														
	CL	1231	1213		272.8	280.1													
SHEET TOTALS									60	92									

STATION	LOCATION	FROM	TO	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"
	CL	1203	1204																		52					
	LT	1204																								
	LT	1204	1205																		120					
126+00	LT	1205																								
	LT	1205	1206																			192				
127+98	RT	1201																								
	LT	1206																								
	LT	1206	1209																				60			
128+57	LT	1209																								
127+98	CL	1207																								
	CL	1207	1208																		60					
128+57	CL	1208																								
	CL	1208	1209																		64					
	LT	1209	1210																							60
128+72	LT	1227	1228																					80		
	RT	1227	1226																							
128+85	RT	1226	1225																					36		
128+57	LT	1209	1212																						180	
130+43	LT	1212																								
-Y6B-																										
10+80	RT	1222																								
	RT	1222	1223																		36					
	LT	1223																								
	LT	1223	1221																					24		
	LT	1223	1211																					72		
11+60	LT	1224																								
-L-																										
130+43	CL	1211																								
	CL	1211	1212																					52		
	CL	1211	1231																				56			
133+40	CL	1213																								
	CL	1213	1214																			32				
	RT	1214																								
	RT	1214	1215																							
	RT	1215																								
	CL	1213	1218																		232					
135+69	CL	1218																								
	CL	1218	1219																		32					
	RT	1219																								
	RT	1219	1220																							
	RT	1219	1309																		208					
130+43	LT	1212	1229																		156					
132+04	LT	1229																								
	LT	1229	1217																		140					
133+46	LT	1217																								
	LT	1217	1216																							
	LT	1216																								
	LT	1217	1230																		212					
131+00	CL	1231																								
	CL	1231	1213																				240			
SHEET TOTALS																					1312	224	356	264	180	60

STATION	LOCATION	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
	CL	1203	1204																	
	LT	1204										1			1			1		
	LT	1204	1205																	
126+00	LT	1205										1			1			1		
	LT	1205	1206																	
127+98	RT	1201																		
	LT	1206										1			1	1				
	LT	1206	1209																	
128+57	LT	1209										1	5	2.4	1		1			
127+98	CL	1207										1			1	1				1
	CL	1207	1208																	
128+57	CL	1208										1			1		1			1
	CL	1208	1209																	
	LT	1209	1210																	
128+72	LT	1227	1228																	
	RT	1227	1226		96															
128+85	RT	1226	1225																	
128+57	LT	1209	1212																	
130+43	LT	1212										1			1		1			
-Y6B-																				
10+80	RT	1222										1			1	1				
	RT	1222	1223																	
	LT	1223										1			1	1				
	LT	1223	1221																	
	LT	1223	1211																	
11+60	LT	1224																		
-L-																				
130+43	CL	1211						1			1	1			1		1			1
	CL	1211	1212																	
	CL	1211	1231																	
133+40	CL	1213						1			1	1			1		1			1
	CL	1213	1214																	
	RT	1214										1			1		1			
	RT	1214	1215																	
	RT	1215										1								
	CL	1213	1218																	
135+69	CL	1218										1			1		1			1
	CL	1218	1219																	
	RT	1219										1			1			1		
	RT	1219	1220																	
	RT	1219	1309																	
130+43	LT	1212	1229																	
132+04	LT	1229										1			1		1			
	LT	1229	1217																	
133+46	LT	1217										1	0.5		1		1			
	LT	1217	1216																	
	LT	1216										1								
	LT	1217	1230																	
131+00	CL	1231								1		1								
	CL	1231	1213																	
SHEET TOTALS					96			2		1	2	19	5.5	2.4	16	4	9	3		5

STATION	LOCATION	FROM	TO	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
	CL	1203	1204																				
	LT	1204																					
	LT	1204	1205																			48	REMOVE 18" RCP
126+00	LT	1205																				16	REMOVE 15" RCP (RT. SIDE OF ROAD)
	LT	1205	1206																				
127+98	RT	1201																					
	LT	1206																					
	LT	1206	1209																				
128+57	LT	1209																					
127+98	CL	1207																					
	CL	1207	1208																				
128+57	CL	1208																					
	CL	1208	1209																				
	LT	1209	1210														1						
128+72	LT	1227	1228															17.1			0.656		PLUG AND FILL 30" RCP
	RT	1227	1226																				TRENCHLESS INSTALLATION
128+85	RT	1226	1225																		0.656		
128+57	LT	1209	1212																				
130+43	LT	1212																					
-Y6B-																							
10+80	RT	1222																					
	RT	1222	1223																				
	LT	1223																					
	LT	1223	1221																				
	LT	1223	1211																			61	REMOVE 18" RCP
11+60	LT	1224																				18	REMOVE 15" RCP
-L-																							
130+43	CL	1211																					PREFAB TB BOX IN PHASE 1 & FINISH IN LATER PHASE
	CL	1211	1212																				
	CL	1211	1231																				
133+40	CL	1213																					PREFAB TB BOX IN PHASE 1 & FINISH IN LATER PHASE
	CL	1213	1214																				
	RT	1214																					
	RT	1214	1215																				
	RT	1215					30																
	CL	1213	1218																				
135+69	CL	1218																					
	CL	1218	1219																				
	RT	1219																					
	RT	1219	1220													11			2 @ 15"				BERM DRAINAGE OUTLET
	RT	1219	1309																				
130+43	LT	1212	1229																			54	REMOVE 15" RCP
132+04	LT	1229																					
	LT	1229	1217																				
133+46	LT	1217																				47	REMOVE 15" RCP
	LT	1217	1216																				
	LT	1216							1				1										
	LT	1217	1230																			26	REMOVE 15" RCP
131+00	CL	1231								1	1	1											BUILT AS TBDI IN PHASE 1 & CONV. TO TBJB LATER
	CL	1231	1213																				
SHEET TOTALS							30		1	1	1	1	1			11	1	17.1	2 @ 15"		1.312	270	

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