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-13

RD26446

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 SIZE 12"	15"	18"	24"	30"	36"	42"	48"	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"
THICKNESS OR GAUGE																				.064	.064	.064	.064	.079	.079	.109	.109																
-Y8-																																										
13+85	RT	1809	1808		214.9	215.0	X																															40				
	LT	1808		218.0	215.0																																					
-L-																																										
204+65	LT	1807	1806		207.0	211.9					60																															
	LT	1806		218.7	211.9																																					
	LT	1806	1805		211.9	212.4	X																															172				
206+50	LT	1805		216.3	212.4																																					
	LT	1805	1804		212.4	212.5	X																															60				
207+10	LT	1804		215.5	212.5																																					
207+60	RT	1814		215.1	212.1																																					
	RT	1814	1829		212.1	212.7			24								X	X																								
	RT	1829		214.9	212.7																																					
	RT	1814	1827		212.1	209.6																																180				
209+40	RT	1827		212.6	209.6																																					
	RT	1827	1820		209.6	209.8			24								X	X																								
	RT	1820		212.0	209.8																																					
	RT	1827	1828		209.6	208.5																																100				
210+40	RT	1828		211.5	208.5																																					
	RT	1828	1821		208.5	208.8	X		24								X	X																								
210+40	RT	1821		211.0	208.8																																					
211+95	RT	1816	1828		206.2	208.5																																152				
211+95	RT	1816		209.5	206.2																																					
	RT	1816	1815		206.5	207.8	X		20								X	X																								
	RT	1815		210.0	207.8																																					
	RT	1816	1817		206.2	202.0																																	260			
214+62	RT	1817		205.3	201.5																																					
	RT	1817	1819		201.5	201.1																																		72		
215+35	RT	1819		204.9	201.1																																					
	RT	1819	1818		201.9	202.9																																52				
	CL	1818		205.9	202.9																																					
210+00	CL	1811		213.9	210.9																																					
	CL	1811	1822		210.9	210.2																																60				
213+08	CL	1812		209.7	206.7																																					
	CL	1812	1813		206.7	206.0																																56				
215+35	RT	1819	1903		201.1	192.5																																		288		
218+22	RT	1903		196.3	192.5																																					
	RT	1903	1902		193.2	193.3	X		20								X	X																								
218+13	RT	1902		196.0	193.3																																					
	RT	1902	1901		193.3	194.7			32								X	X																								
217+85	RT	1901		197.4	194.7																																					
218+22	RT	1903	1905		192.5	187.2																																		156		
219+76	RT	1905		191.0	186.2																																					
	RT	1905	1904		187.4	187.5	X		20								X	X																								
	RT	1904		190.2	187.5																																					
	RT	1905	1907		186.2	185.9	X																																			
219+92	LT	1907		190.7	185.9																																					
219+20	LT	1906		193.1	190.1																																					
	LT	1906	1907		190.1	187.7																																72				
219+92	LT	1907	1908		185.9	184.0																																				
220+63	LT	1908		188.8	184.0																																					
SHEET TOTALS								164			60																											944	260	516			

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')	"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 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	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	M.H. FRAME AND COVER STD. 840.54	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
13+85																																							
									1			1		1																									
-L-																																							
204+65																																					2 @ 24"		
									1	1.8		1			1																							
206+50									1			1			1																								
207+10									1			1			1																								
207+60									1			1		1																									
									1											1	1																		
																																						24	REMOVE 15" RCP
209+40									1			1		1																									
																																						13	REMOVE 15" RCP
									1											1	1																		
210+40									1			1		1																									
210+40									1											1	1																		
211+95																																						19	REMOVE 15" RCP
211+95									1			1		1																									
									1											1	1																		
																																						20	REMOVE 15" RCP
214+62									1			1		1																									
																																						21	REMOVE 24" RCP
215+35									1			1		1																									
					1			1	1			1		1			1																						PREFAB TB BOX IN PHASE 1 & FINISH IN LATER PHASE
210+00									1			1		1			1																						
213+08									1			1		1			1																						
215+35																																						31	REMOVE 15" RCP
218+22									1			1		1																									
																						1				1													
218+13									1													1				1													
217+85									1													1				1													
218+22																																						63	REMOVE 15" CMP AND EXISTING JB AND DI
219+76									1			1		1																									
																																						4	REMOVE PIPE AND DI
									1													1				1													
																																							REMOVE 36" AND EXISTING JB
219+92									1			1			1																							47	REMOVE 18" RCP
219+20									1			1			1																								
																																						23	REMOVE 15" RCP AND EXISTING DI
219+92																																							
220+63									1			1			1																								
SHEET TOTALS					1			1	25	1.8		18		12	6		3		4	4		3				3								2 @ 24"			265	

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