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

PROJECT NO.	SHEET NO.
U-3465	3D-12

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

R0266446

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												C.S. PIPE SIZE								R.C. PIPE CLASS III SIZE								R.C. PIPE CLASS IV 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	12"	15"	18"	24"	30"	36"	42"	48"	12"	15"	18"	24"	30"	36"	42"	48"	12"	15"	18"	24"	30"	36"	42"
THICKNESS OR GAUGE																				.064	.064	.064	.064	.079	.079	.109	.109															
-Y7-																																										
10+90	LT	1608		245.1	242.1																																					
11+70	RT	1611	1612		240.4	237.9																																				
-L-																																										
188+80	LT	1617		236.8	233.8																																					
	LT	1617	1701		233.8	233.5																																				
189+18	LT	1701		236.5	233.5																																					
	LT	1701	1702		233.5	233.0	X																																			
190+68	LT	1702		237.1	233.0																																					
	LT	1702	1706		233.0	232.9	X																																			
	CL	1706		236.5	232.7																																					
	CL	1706	1709		232.7	231.6																																				
190+26	CL	1705		236.5	233.5																																					
	CL	1705	1706		233.5	233.4	X																																			
190+68	CL	1706	1704		233.3	233.5	X																																			
191+20	CL	1704		236.5	233.5																																					
	CL	1704	1703		233.5	233.9	X																																			
192+40	CL	1703		236.9	233.9																																					
189+25	RT	1708		236.4	233.4																																					
	RT	1708	1709		233.4	232.4																																				
190+68	RT	1709		235.4	231.0						36					X	X	X																									
	RT	1709	1710		231.0	225.2																																				
190+64	RT	1710		228.2	225.2																																					
190+68	RT	1709	1707		231.6	231.8	X																																			
191+20	RT	1707		234.8	231.8																																					
194+50	LT	1711		238.9	236.7																																					
	LT	1711	1712		236.7	235.1																																				
194+73	CL	1712		238.1	234.3																																					
	CL	1712	1713		234.3	232.4	X																																			
194+65	RT	1714	1713		230.3	232.4					28																															
194+69	RT	1713		236.1	232.4																																					
198+75	CL	1715		233.7	230.7																																					
	CL	1715	1716		230.7	229.7																																				
199+10	CL	1716		232.7	229.7																																					
	CL	1716	1717		229.7	229.6	X																																			
	LT	1717		233.3	229.6																																					
	LT	1717	1801		229.6	220.3																																				
199+70	RT	1718		230.2	227.2																																					
	RT	1718	1802		227.2	220.0																																				
203+00	RT	1802		222.9	219.2																																					
	RT	1802	1803		219.2	216.2																																				
204+80	RT	1803		219.2	216.2																																					
	RT	1806	1803		215.3	216.2																																				
202+70	LT	1801		223.3	220.3																																					
	LT	1801	1826		220.3	214.5			56							X																											
-Y8-																																										
13+85	RT	1809		218.7	214.9																																					
	RT	1809	1810		214.9	214.5			20																																	
SHEET TOTALS									76		64																															

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 TBD TO TBJB (SEE DETAIL 2C-4)	TEMP. STEEL PLATE COVERS FOR DRAINAGE STRUCTURES (SEE DETAIL 2C-5)	QUANTITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL."B") 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	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
-Y7-																																								
10+90									1			1			1																								27	REMOVE 15" RCP
11+70																																							36	RMOVE 18" RCP
-L-																																								
188+80									1			1			1																									
189+18									1			1			1																									
190+68									1			1			1																									
									1			1		1				1																						
																																							52	REMOVE 24" RCP AT PROPOSED PIPE
190+26									1			1		1				1																					21	REMOVE 15" RCP
190+68																																								
191+20									1			1	1					1																						
192+40									1			1			1			1																						
189+25									1			1		1																										
190+68				1				1	1			1		1																							2 @ 24"			PREFAB TB BOX IN PHASE 1 & FINISH IN LATER PHASE
																																								REMOVE 24" RCP AT PROPOSED PIPE
190+64									1										1	1																				
190+68																																								
191+20									1			1	1																											
194+50									1										1	1																				
194+73									1			1			1			1																						
																																							56	REMOVE 24" RCP
194+65																																								
194+69				1				1	1			1			1																									PREFAB TB BOX IN PHASE 1 & FINISH IN LATER PHASE
198+75									1			1		1				1																					39	REMOVE 15" RCP
199+10									1			1		1				1																					33	REMOVE 15" RCP
									1			1			1																									
199+70									1			1		1																										
203+00									1			1		1																										PREFAB TB BOX IN PHASE 1 & FINISH IN LATER PHASE
																																			11.9					PLUG & FILL 24" RCP
204+80									1			1		1																										PREFAB TB BOX IN PHASE 1 & FINISH IN LATER PHASE
																																							23	REMOVE 15" RCP
202+70									1			1			1																									
																																					2 @ 15"			
-Y8-																																								
13+85									1			1			1																									
																																					2 @ 15"			
SHEET TOTALS				2				2	23			21	2	9	10		7		2	2														11.9	2 @ 24"			235	

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