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

PROJECT NO.	SHEET NO.
U-3465	3D-8

RD266446

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

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 / SIZE / THICKNESS OR GAUGE	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	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"	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	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-																																																																																
	LT	1033	1034		291.5	291.1																															88																																							47	REMOVE 15" RCP
108+68	LT	1034		294.1	291.1																																															1			1			1																						
	LT	1034	1032		291.1	292.1																															52																																								
	CL	1032		295.1	292.1																																															1			1			1		1																				
	CL	1032	1031		292.1	292.4																															20																																								
108+50	CL	1031		295.4	292.4																																															1			1			1		1																				
108+68	LT	1034	1035		291.1	290.4																															88																																								
109+54	LT	1035		293.4	290.4																																															1			1			1																						
	LT	1035	1101		290.4	288.8																															192																																								
110+12	RT	1030	1103		289.3	283.9																																	368																																					32	REMOVE 15" RCP
-Y4-																																																																																
11+50	RT	1024							32																																																																						37	REMOVE 18" RCP
11+70	LT	1025							40																																																																						
1161	LT	1026							12																																																																			0.399		TIE TO EXISTING 15" DRIVEWAY PIPE
-L-																																																																																
113+80	RT	1103		287.7	283.9																																															1			1		1																							20	REMOVE 15" RCP
	RT	1103	1108		283.9	281.1																																	180																																					20	REMOVE 15" RCP
115+60	RT	1108		284.8	281.1																																															1			1		1																							
111+43	LT	1101		291.8	288.8																																															1			1			1																						
	LT	1101	1102		288.8	287.5			32																																																																								
114+50	LT	1105		286.2	283.2																																															1			1			1																						
	LT	1105	1106		283.2	281.6																															140																																							20	REMOVE 15" RCP
115+90	LT	1106		284.6	280.9																																															1			1			1																						
	LT	1106	1107		281.3	281.5	X																														60																																							24	REMOVE 15" RCP
116+50	LT	1107		284.5	281.5																																															1			1	1																								
115+90	LT	1106	1112		280.9	280.6																																	80																																						REMOVE 24" RCP AT PROPOSED PIPE
115+60	RT	1108	1112		281.1	280.9	X																																30																																						
115+90	RT	1112		284.6	280.4																																															1			1		1																							
	RT	1112	1109		280.4	279.0																																		56																																					
116+50	RT	1109		284.5	279.0																																															1	0.5		1	1																								
	RT	1109	1120		279.0	266.0						92				X																																																										2@30"				
116+44	RT	1122							28																																																																			28	TEMPORARY PIPE TO BE REMOVED
	RT	1109	1110		279.5	280.6																															352																																							90	REMOVE 15" RCP (LEFT SIDE OF ROAD)
120+00	RT	1110		283.6	280.6																																															1			1		1																							
120+00	LT	1117		283.6	280.6																																															1			1			1																						
	LT	1117	1121		280.6	276.7																															252																																								
122+52	LT	1121		280.2	276.7																																															1			1			1																						
123+50	LT	1118		278.6	275.6																																															1			1			1																						
-Y6A-																																																																																
10+76	RT	1113		280.6	278.4																																															1														1				1										
	RT	1113	1115		278.4	277.4			48								X	X																																																													
-L-																																																																																
122+32	RT	1114		280.8	277.8																																															1			1		1																							
	RT	1114	1115		277.8	277.4																															20																																								
122+52	RT	1115		280.4	277.4																																															1			1		1			1																				
	RT	1115	1116		277.4	277.3	X																														44																																								
122+52	CL	1116		281.1	277.3																																											1			1	1			1			1																						PREFAB TB BOX IN PHASE 1 & FINISH IN LATER PHASE
	CL	1116	1121		277.3	276.7																															44																																								
123+50	LT	1118	1204		275.6	271.5																															128																																								
	LT	1121	1118		276.7	275.6																															100																																								
124+78	CL	1203		276.7	273.6																																															1							1								1	1											40	REMOVE 18" (RT. SIDE OF ROAD)
SHEET TOTALS									192			92																									1580		658	56							1			1	21	0.5		19	2	6	11	1	3						1	1	1		1						2 @ 30"		0.399	358	

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