RA-1553

COMPUTED BY:	T.A.HARRIS	DATE:	6/6/13
CHECKED BY:	VBARODAWALA	DATE:	5/12/14

PROJECT NO.	SHEET NO.
R-2514C	3D-4

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".**

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

LINE & STATION / SIZE / THICKNESS OR GAUGE	OFFSET		STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Side drain 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	DO NOT USE PVC	C. A. A. 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	48	R. C. PIPE CLASS V 12	15	18	24	30	36	42	48
L 115+25	58	LT	1205		52.6	49.9																																															
L 117+90	58	RT	1203		51.8	45.8																																															
			1203	1204		45.8	39.3	1.6																44																													
			1203	1206		45.8	46.8	0.3																							96																						
L 116+95	58	RT	1206		52.1	46.8																																															
			1206	1207		46.8	47.1																								60																						
L 116+95	0	CL	1207		50.1	47.1																																															
L 115+15	113	LT	1208																																																		
			1208	1209		36.7	36.0																											212																			
L 123+87	101	LT	1210								40							X																																			
L 122+48	65	LT																																																			
L 125+37	103	LT	1211								36							X																																			
L 127+82	4	LT																																																			
L 125+86	64	LT																																																			
L 118+35	40	LT	1212			40.5																																															
			1212	1216																																112																	
L 118+35	56	RT	1213			39.7																																															
			1213	1216																																84																	
L 118+35	15	RT	1216		52.2	39.2																																															
L 125+50	0	CL	1214		47.4	44.4																																															
			1214	1215		44.4	40.5																								92																						
L 127+00	0	CL									100																																										
L 137+10	0	CL	1301		44.1	39.9																																															
			1301	1303		39.9	38.5																								116																						
L 137+78	66	LT																																																			
			1303																																																		
			1303	1305		38.5	38.7																									100																					
			1303	1306		38.5	38.4																									80																					
L 132+00	0	CL	1302		45.3	42.3																																															
			1302	1304		42.3	41.6																									80																					
L 131+46	88	LT	1307								24							X																																			
L 134+53	102	LT	1308								40							X																																			
L 138+61	101	LT	1309									32						X																																			
L 140+71	65	LT																																																			
L 141+67	99	LT	1401								24							X																																			
L 145+46	95	LT	1402								32							X																																			
L 148+00	0	CL									100																																										
L 149+20	93	LT	1403									32						X																																			
L 151+40	92	LT	1404									24						X																																			
L 152+48	101	LT	1405									32						X																																			
L 153+88	103	LT	1406									60						X																																			
L 154+00	0	CL									100																																										
L 154+08	63	LT																																																			
L 154+56	65	LT																																																			
L 153+64	99	RT	1407								40							X																																			
L 153+00	0	CL	1408		43.1	40.1																																															
L 157+20	6	LT																																																			
L 157+85	5	LT																																																			
L 153+00	0	CL	1408	1409																											100																						
L 165+20	14	LT	1501		42.2	36.5																																															
SHEET TOTALS											536	180												44							464	260		212		196																	

LINE & STATION	FROM	TO	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY CY	QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) 0' THRU 5' EACH	A 5' THRU 10' LIN. FT.	B 10' AND ABOVE LIN. FT.	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E	F	G	CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06	C.B. STD. 852.05	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26	G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	SPECIAL JB (SEE SPECIAL DETAIL 2C-3)	18" CAAP PIPE ELBOW	JB STD. 840.31 or 840.32	TB G.D.I. STD. 840.36	STEEL GRATE AND FRAME STD. 840.37	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
L 115+25	1205					1												1	1										60	REMOVE 24" RCP
L 117+90	1203					1	1.0											1	1											
	1203	1204																					2							ROD & LUG W/ SLEEVE GASKET
	1203	1206																												
L 116+95	1206					1	0.4											1	1											
	1206	1207																												
L 116+95	1207					1												1			1									
L 115+15	1208		3.400																											
	1208	1209																												
L 123+87	1210																													
L 122+48																													16	REMOVE 15" RCP
L 125+37	1211																												19	REMOVE 15" RCP
L 127+82																													12	REMOVE 15" RCP
L 125+86																													9	REMOVE 15" RCP
L 118+35	1212		6.000																											
	1212	1216																												
L 118+35	1213		6.000																											
	1213	1216																												
L 118+35	1216					1	5.0	3.0											1			1								WILDLIFE CROSSING ACCESS STRUCTURE
L 125+50	1214					1												1			1									
	1214	1215																												
L 127+00																													100	TEMPORARY DRAINAGE, SEE SHEET TMP-25
L 137+10	1301					1											1			1	1									
	1301	1303																												
L 137+78																													19	REMOVE 15" RCP
	1303					1												1			1									
	1303	1305																												
	1303	1306																												
L 132+00	1302					1												1			1									
	1302	1304																												
L 131+46	1307																												21	REMOVE 15" RCP
L 134+53	1308																												26	REMOVE 18" RCP
L 138+61	1309																												24	REMOVE 15" RCP
L 140+71																													16	REMOVE 15" RCP
L 141+67	1401																												20	REMOVE 18" RCP
L 145+46	1402																												25	REMOVE 15" HDPE
L 148+00																													100	TEMPORARY DRAINAGE, SEE SHEET TMP-25
L 149+20	1403																												21	REMOVE 18" RCP
L 151+40	1404																												17	REMOVE 15" HDPE
L 152+48	1405																												27	REMOVE 18" RCP
L 153+88	1406																												20	REMOVE 18" RCP
L 154+00																													100	TEMPORARY DRAINAGE, SEE SHEET TMP-10
L 154+08																													20	REMOVE 18" RCP
L 154+56																													23	REMOVE 18" RCP
L 153+64	1407																												37	REMOVE 18" RCP
L 153+00	1408					1												1			1								36	REMOVE 18" RCP
L 157+20																													20	REMOVE 15" RCP
L 157+85																													21	REMOVE 18" RCP
L 153+00	1408	1409																												
L 165+20	1501					1	0.7						1		1	1													35	REMOVE 18" RCP
SHEET TOTALS			15.400			11	7.1	3.0					1		1	1	1	8	4	1	6	1	2						844	

ABBREVIATIONS

C.A.A.	CORRUGATED ALUMINIUM ALLOY
C.B.	CATCH BASIN
C.S.	CORRUGATED STEEL
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
H.D.P.E.	HIGH DENSITY POLYETHYLENE
J.B.	JUNCTION BOX
M.H.	MANHOLE
N.S.	NARROW SLOT
P.V.C.	POLYVINYL CHLORIDE
R.C.	REINFORCED CONCRETE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX
W.S.	WIDE SLOT