COMPUTED BY: BTB DATE: 9/16/2013

CHECKED BY: DGL DATE: 9/19/2013

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-5523	3

44003WS

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.

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	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
SIZE																			
THICKNESS OR GAUGE																			
-Y1- 10+96	RT	0401		306.1	300.87														
	RT	0401	0402		303.35	303.65													
-Y1- 10+96	RT	0401	Out		300.87	300.6													
-Y1- 11+84	RT	0402		306.4	303.65														
-Y1- 10+97.5	CL	0403	0401		301.7	300.87													
-L- 12+81	CL	0404		301.4	294.5														
-L- 12+81	RT	0404	0405		294.5	295.1													
	CL	0404	0406		297.4	297.53													
-L- 12+82.5	LT	0404	Out		294.5	293.9													
-L- 13+17	CL	0406		300.7	297.53														
-L- 13+55	CL	0407			296.0	295.5													
-L- 14+78	CL	0408			293.1	292.8													
-Y2- 12+30	CL	0409			296.3	295.0													
-Y1- 14+18	LT	0410								36									
-Y1- 15+38	LT	0411								36									
-Y1- 16+63	LT	0412						48											
-Y1- 17+61	LT	0413						32											
-Y1- 12+15	LT	0415								44									
-Y3- 10+38	CL	0501			310.5	310													
-Y3- 11+38	RT	0502						32											
-Y3-10+87	RT	0503						32											
-L- 29+10	LT	0504						32											
-Y1- 27+79	LT	0601			302.3	301.7													
-Y2- 15+46	LT	0602						28											
-Y2- 12+08	LT																		
-Y1- 13+21	LT																		
-Y1- 13+15	RT																		
-Y1- 24+48	RT																		
-Y2- 16+38	LT																		
-Y2- 16+40	CL																		
PROJECT TOTALS								**204**	**116**										
SAY								**204**	**116**										

STATION	C.S. PIPE 12"	15"	18"	24"	30"	36"	42"	48"	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"
SIZE																								
THICKNESS OR GAUGE	.064	.064	.064	.064	.079	.079	.109	.109																
-Y1- 10+96																								
										84														
-Y1- 10+96												20												
-Y1- 11+84																								
-Y1- 10+97.5												60												
-L- 12+81																								
-L- 12+81												40												
										36														
-L- 12+82.5												48												
-L- 13+17																								
-L- 13+55											80													
-L- 14+78																				168				
-Y2- 12+30																				68				
-Y1- 14+18																								
-Y1- 15+38																								
-Y1- 16+63																								
-Y1- 17+61																								
-Y1- 12+15																								
-Y3- 10+38											120													
-Y3- 11+38																								
-Y3-10+87																								
-L- 29+10																								
-Y1- 27+79																				72				
-Y2- 15+46																								
-Y2- 12+08																								
-Y1- 13+21																								
-Y1- 13+15																								
-Y1- 24+48																								
-Y2- 16+38																								
-Y2- 16+40																								
PROJECT TOTALS									**120**	**200**	**168**									**308**				
SAY									**120**	**200**	**168**									**308**				

STATION	** R.C. PIPE (CLASS V)	**** RC PIPE CULVERTS, CONTRACTOR DESIGN	***** RC PIPE CULVERTS, CONTRACTOR DESIGN	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0')	LIN. FT. A 5.0' THRU 10.0'	LIN. FT. B 10.0' AND ABOVE	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B')	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	D.I. STD. 840.14 OR 840.15	D.I. FRAME WITH GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR 840.26	G.D.I. TYPE "B" STD. 840.18 OR 840.27		G.D.I. (W.S. FLAT) FRAME WITH TWO GRATES STD. 840.20	G.D.I. FRAME WITH GRATE STD. 840.22	G.D.I. FRAME WITH TWO GRATES STD. 840.29 (NS/FLAT)	T.B.G.D.I. STD. 840.35			M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING D.I. TO J.B. w/ M.H.(SEE SHEET 2-H)	ADJUSTMENT OF 2 G.I.	STEEL FRAME WITH TWO GRATES 840.37	SIDE DRAIN PIPE ELBOWS NO. & SIZE	C.S. PIPE ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
-Y1- 10+96								1	0.23															1		1											
																																				24	REMOVE 15" RCP
-Y1- 10+96																																					
-Y1- 11+84								1																1		1											
-Y1- 10+97.5																																					REMOVE 15" RCP and headwall
-L- 12+81								1	1.9							1		1	1																		
-L- 12+81																																					
-L- 12+82.5																																					
-L- 13+17								1								1		1	1																		
-L- 13+55																																					
-L- 14+78																																					DUAL 24" RCP IV
-Y2- 12+30																																					
-Y1- 14+18																																				49	REMOVE 15" RCP
-Y1- 15+38																																				41	REMOVE 15" RCP
-Y1- 16+63																																				37	REMOVE 15" RCP
-Y1- 17+61																																				24	REMOVE 15" RCP
-Y1- 12+15																																					
-Y3- 10+38																																					
-Y3- 11+38																																					
-Y3-10+87																																					
-L- 29+10																																				34	Remove 15" RCP
-Y1- 27+79																																					Remove 18" RCP and 15" CMP
-Y2- 15+46																																					
-Y2- 12+08																																				25	Remove 15" RCP
-Y1- 13+21																																				25	Remove 15" RCP
-Y1- 13+15																																				20	Remove 12" RCP
-Y1- 24+48																																				105	Remove 18" RCP
-Y2- 16+38																																				71	Remove 15" RCP
-Y2- 16+40																																				60	Remove two 15" RCPs
PROJECT TOTALS								**4**	**2.13**							**2**		**2**	**2**					**2**		**2**										**515.0**	
SAY								**4**	**2.5**							**2**		**2**	**2**					**2**		**2**										**515.0**	

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