COMPUTED BY: MTP DATE: 11/9/2012

CHECKED BY: TEH DATE: 3/14/2015

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2514D	3D-6

RD24062

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)

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) SIZE												C.S. PIPE SIZE									R.C. PIPE CLASS III SIZE									R.C. PIPE CLASS IV SIZE								
SIDE DRAIN PIPE THICKNESS OR GAUGE								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" .064	15" .064	18" .064	24" .064	30" .079	36" .079	42" .109	48" .109	12"	15"	18"	24"	30"	36"	42"	48"	12"	15"	18"	24"	30"	36"	42"	48"
-Y10RPA- 37+87	RT	2615	2616		58.61	57.54																															72							
-Y10RPC- 16+00	CL	2603	2604		26.65	26.21																																				132		
-Y10RPD- 14+53	LT	2683		42.15																																								
		2683	2684		39.40	31.60			80																																			
-L- 623+21	RT	2703	2704		30.65	30.35																															16							
-L- 623+50	RT	2701		45.37																																								
-L- 623+50	RT	2701	2702		42.20	32.00			48							X																													
-L- 627+21	CL																																											
-L- 627+26	RT	2715		40.40																																								
-L- 627+38	RT	2715	2705		37.23	36.89																															24							
-L- 627+50	RT	2705		40.06																																								
-L- 627+75	RT	2705	2706		36.89	36.31																															52							
-L- 627+75	RT	2707	2708		22.25	18.30				56																																			
-L- 628+00	RT	2706	2707		36.31	22.25			48							X																													
-L- 628+00	RT	2707		25.00																																								
-L- 629+44	LT																																											
-Y10RPA- 15+72	RT	2709		37.26																																								
-Y10RPA- 15+72	RT	2709	2710		34.09	28.86			32							X																													
-Y10RPA- 15+84	RT	2716	2709		34.19	34.09																															24							
-Y10RPA- 15+96	RT	2716		37.36																																								
-Y10RPA- 17+87	LT	2711		35.15																																								
-Y10RPA- 17+87	CL	2711	2712		32.40	28.22																															80							
-Y10RPA- 18+05	RT	2713																																										
-Y10RPA- 18+42	RT	2713	2714		28.16	18.00					76					X																													
-Y3- 34+24	LT	3003	0607		24.54	23.87																																	168					
-Y3- 35+07	RT	3002		29.37																																								
-Y3- 35+07	CL	3002	3003		26.12	25.98																																44						
-Y3- 35+07	LT	3003		29.40																																								
-Y3- 35+08	RT	3001	3002		26.65	26.37			20																																			
-Y3- 35+10	RT	3001		28.90																																								
-Y10- 20+21	RT	3102		28.58																																								
-Y10- 20+22	RT	3101	3102		26.19	25.58															12																							
-Y10- 20+22	CL	3101		29.19																																								
SHEET 6 TOTALS								228	56	76										12								268	44	168			132												
PROJECT TOTALS								2,340	276	112	32									108								3,940	1,368	716	1,464	4,042	572	832											
SAY																																												

STATION	** " R.C. PIPE (CLASS V)	**** " RC PIPE CULVERTS, CONTRACTOR DESIGN	***** RC PIPE CULVERTS, CONTRACTOR DESIGN	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	ENDWALLS CU. YARDS C.S.P.	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'	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	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATE 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. TYPE "D" STD. 840.19 OR 840.28	G.D.I. FRAME WITH TWO GRATES STD. 840.20	G.D.I. FRAME WITH GRATE STD. 840.22	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	SPECIAL 3G1, SEE DETAIL SHEET 2C-2	C.B. STD. 840.04 OR 840.05	T.B.D.I. STD. 840.36	T.B.D.I. STEEL FRAME WITH TWO GRATES STD. 840.37	BERM DRAINAGE OUTLET STD. 850.11	CONVERT EXIST. D.I. TO J.B.	MANHOLE FRAME AND COVER STD. 840.54	SPECIAL JB, SEE DETAIL SHEET 2C-2	SIDE DRAIN 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
-Y10RPA- 37+87																																													
-Y10RPC- 16+00				4.5																																									
-Y10RPD- 14+53																																													
																																									2 @ 15"				
-L- 623+21																																											0.399		COLLAR AND EXTEND 15" RCP
-L- 623+50						1																				1	1																		
-L- 623+50																																									2 @ 15"				
-L- 627+21																																											0.090		PLUG AND FILL 15" RCP W/ FLOWABLE FILL
-L- 627+26						1																		1		1																			
-L- 627+38																																													
-L- 627+50						1																		1		1																			
-L- 627+75																																													
-L- 627+75																																													
-L- 628+00																																									2 @ 15"				
-L- 628+00						1																		1					1															
-L- 629+44																																											0.130		PLUG AND FILL 18" RCP W/ FLOWABLE FILL
-Y10RPA- 15+72						1																		1		1																			
-Y10RPA- 15+72																																									2 @ 15"				
-Y10RPA- 15+84																																													
-Y10RPA- 15+96						1																		1		1																			
-Y10RPA- 17+87						1																												1											
-Y10RPA- 17+87																																													
-Y10RPA- 18+05																																	1												
-Y10RPA- 18+42																																									2 @ 24"				
-Y3- 34+24																																												284	
-Y3- 35+07						1			1			1																																	
-Y3- 35+07																																												41	
-Y3- 35+07						1			1			1																																	
-Y3- 35+08																																												9	
-Y3- 35+10						1										1	1																												
-Y10- 20+21																																			1										CONVERT EXIST. D.I. TO J.B. SEE SHEET 2D-
-Y10- 20+22																																													
-Y10- 20+22						1																		1					1															
SHEET 6 TOTALS				4.5		11			2		1	1				1	1		6		4		2				1	1	1	1			8 @ 15" 2 @ 24"	0.220	0.399	334	
PROJECT TOTALS				82.5		147	22.08	6.33	23	4	9	10	2		5	5	8	91	4	61	12	45			3	3	3	6	6	1	1	3	1	66 @ 15" 6 @ 18" 2 @ 24"	0.220	1.163	1,059	
SAY				83			31																												0.5	1.5	1,060	

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