COMPUTED BY: GSBLELL DATE: 3/29/2012

CHECKED BY: AJFOSTER DATE: 4/7/2014

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2519B	3D-13

R0266410

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 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 SIZE 12"	15"	18"	24"	30"	36"	42"	48"	THICKNESS OR GAUGE .064	.064	.064	.064	.079	.079	.109	.109	R.C. PIPE CLASS III SIZE 12"	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS IV SIZE 12"	15"	18"	24"	30"	36"	42"	48"
-L- STA. 268+57.66	RT																																																		
-L- STA. 269+10	CL	2210		2668.59																																															
-L- STA. 268+35.12	CL	2210	2208		2664.35	2656.00																																							148'						
-L- STA. 270+60	LT	2212		2675.64																																															
-L- STA. 270+70	CL	2213		2677.84																																															
-L- STA. 270+64.95	LT	2212	2213		2672.89	2673.24																														52'															
-L- STA. 269+90	CL	2213	2210		2673.24	2664.35																																							160'						
-L- STA. 273+80	CL	2215		2694.43																																															
-L- STA. 272+25	CL	2215	2213		2689.83	2673.24																														308'															
-L- STA. 273+80	RT	2216		2691.61																																															
-L- STA. 273+23.62	RT																																																		
-L- STA. 273+80	RT	2216	2215		2688.86	2689.83																																							48'						
-L- STA. 273+99	LT	2218							56'																																										
-L- STA. 273+81	CL																																																		
-L- STA. 274+61.64	LT																																																		
SHEET 23																																																			
-L- STA. 275+73.99	LT	2301							56'																																										
-L- STA. 280+36.35	LT	2302			2767.52																																														
-L- STA. 280+29.8	LT	2303		2761.67																																															
-L- STA. 280+33.33	LT	2302	2303		2767.52	2758.92															24'																															
-L- STA. 280+30	LT	2304		2725.57																																															
-L- STA. 280+30	LT	2303	2304		2758.92	2722.82															100'																															
-L- STA. 277+40	LT	2305		2712.03																																															
-L- STA. 278+83.78	LT	2304	2305		2722.82	2709.28			292'																																											
-L- STA. 277+40	LT	2306		2713.93																																															
-L- STA. 277+40	CL	2305	2306		2709.03	2708.88																															48'															
-L- STA. 277+30	RT	2308		2709.70																																															
-L- STA. 277+35.09	RT	2306	2308		2708.88	2706.70																															68'															
-L- STA. 277+70	RT	2307		2711.04																																															
-L- STA. 277+50	RT	2307	2308		2708.29	2706.70			36'																																											
-L- STA. 276+91.33	RT	2308	2310		2706.70	2680.15																72'																														
-L- STA. 276+47.66	RT	2309	2310		2679.61	2679.65					12'																																									
-L- STA. 282+23	LT	2314		2734.61																																															
-L- STA. 282+50.1	LT	2313		2735.69																																															
-L- STA. 282+36.50	LT	2314	2313		2732.69	2732.19			24'																																											
-L- STA. 284+40	LT	2311		2748.82																																															
-L- STA. 284+40	LT	2312		2741.00																																															
-L- STA. 284+40	LT	2311	2312		2746.65	2738.25															24'																															
-L- STA. 283+44.32	LT	2312	2313		2738.00	2732.69				184'																																										
-L- STA. 282+50.0	CL	2315		2739.11																																															
-L- STA. 282+50.0	LT	2313	2315		2732.19	2731.93																																68'														
-L- STA. 282+50.0	RT	2318		2738.59																																															
-L- STA. 282+50.0	RT	2315	2318		2731.93	2731.80																																32'														
-L- STA. 282+00	RT	2319		2736.27																																															
-L- STA. 281+50	CL	2319A		2735.26																																															
-L- STA. 281+75	RT	2320	2319		2730.27	2730.70			48'																																											
-L- STA. 281+50	RT	2320		2734.02																																															
-L- STA. 282+25	RT	2318	2319		2731.80	2730.70					48'																																									
-L- STA. 281+50	RT	2319	2321		2730.70	2692.87																80'																														
-L- STA. 281+50	RT	2319A	2320		2731.02	2730.27			44'																																											
-L- STA. 281+75	RT	2320	2319		2730.27	2730.70			48'																																											
-L- STA. 283+65	CL	2316		2743.09																																															
-L- STA. 283+07.6	CL	2316	2315		2738.85	2735.10																																							112'							
-L- STA. 285+00	CL	2317		2746.40																																															
-L- STA. 284+32.6	CL	2317	2316		2741.92	2738.85																																							136'							
-L- STA. 285+00	RT	2324		2744.00																																															
-L- STA. 284+75.8	RT	2324	2325		2737.30	2734.80			52'																																											
-L- STA. 285+39.85	RT	2323		2745.78																																															
-L- STA. 285+20.07	RT	2323	2324		2739.15	2737.30			40'																																											
-L- STA. 286+00.73	RT	2322		2747.09																																															
-L- STA. 285+70.36	RT	2322	2323		2743.00	2739.15			60'																																											
-L- STA. 285+05	RT	2327							48'																																											
-L- STA. 285+36.35	LT	2326							24'																																											
SHEET TOTALS								828'	184'	60'										148'	72'	80'										360'	116'	100'										604'							

STATION	36" R.C. PIPE (CLASS V)	42" R.C. PIPE (CLASS V)	30" WELDED PIPE, .500" THICK, GRADE B	36" WELDED PIPE, .500" THICK, GRADE B	42" WELDED PIPE, .625" THICK, GRADE B	48" WELDED PIPE, .625" THICK, GRADE B	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 *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'	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	SPRING BOX STD. 840.41	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	T.B.G.D.I. STD. 840.35	T.B.J.B. STD. 840.34	J.B. STD. 840.31 OR 840.32	PARALLEL PIPE END SECTION STD. 310.02 OR 310.04	M. H. FRAME AND COVER STD. 840.54	OT CATCH BASIN OR STD. 840D04 (SHEET 2C-10)	PREFORMED SCOUR HOLE	FLOWABLE FILL	J.B. STD. 840.52	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	CS 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- STA. 268+57.66																																												30	REMOVE EXIST. 12" CM PIPE
-L- STA. 269+10									1			1			1			1																										
-L- STA. 268+35.12																																												
-L- STA. 270+60									1													1			1																		
-L- STA. 270+70									1			1			1																												
-L- STA. 270+64.95																																												
-L- STA. 269+90																																												
-L- STA. 273+80									1			1			1			1																										
-L- STA. 272+25																																				5								PLUG & FILL EXIST. 18" CMP & REMOVE HW
-L- STA. 273+80									1												1							1															
-L- STA. 273+23.62																																				1								PLUG & FILL EXIST. 15" CM PIPE & DI
-L- STA. 273+80																																												
-L- STA. 273+99																																		1										
-L- STA. 273+81																																				5								PLUG & FILL EXIST. 18" CMP & REMOVE HW
-L- STA. 274+61.64																																											40	REMOVE EXIST. 18" RC PIPE
SHEET 23																																												
-L- STA. 275+73.99																																												
-L- STA. 280+36.35									1																								1										
-L- STA. 280+29.8									1													1			1																		
-L- STA. 280+33.33																																									2@15"			
-L- STA. 280+30									1													1			1																		
-L- STA. 280+30																																									2@15"			
-L- STA. 277+40									1													1			1																		
-L- STA. 278+83.78																																												
-L- STA. 277+40									1	0.05						1		1	1																								
-L- STA. 277+40																																												
-L- STA. 277+30									1													1			1																		
-L- STA. 277+35.09																																				5								PLUG & FILL EXIST. 18" CMP & REMOVE HW
-L- STA. 277+70									1													1			1																		
-L- STA. 277+50																																												
-L- STA. 276+91.33																																												
-L- STA. 276+47.66																																												
-L- STA. 282+23									1														1		1																		
-L- STA. 282+50.1									1													1			1																		
-L- STA. 282+36.50																																												
-L- STA. 284+40									1																								1										
-L- STA. 284+40									1													1			1																		
-L- STA. 284+40																																									2@15"			
-L- STA. 283+44.32																																												
-L- STA. 282+50.0									1	2.18		1		1																													
-L- STA. 282+50.0																																												
-L- STA. 282+50.0									1	1.79												1				1																	
-L- STA. 282+50.0																																												
-L- STA. 282+00									1	0.57												1				1																	
-L- STA. 281+50									1																						1		1										
-L- STA. 281+75																																												
-L- STA. 281+50									1													1				1																	
-L- STA. 282+25																																												
-L- STA. 281+50																																									2@24"			
-L- STA. 281+50																																												
-L- STA. 281+75																																												
-L- STA. 283+65									1			1		1																													REMOVE EXIST. HW
-L- STA. 283+07.6																																				19								
-L- STA. 285+00									1			1		1																													
-L- STA. 284+32.6																																												
-L- STA. 285+00									1	1.7												1			1																		
-L- STA. 284+75.8																																											39	REMOVE EXIST. 12" HDPE PIPE
-L- STA. 285+39.85									1	1.63												1			1																		
-L- STA. 285+20.07																																											31	REMOVE EXIST. 12" CM PIPE
-L- STA. 286+00.73									1													1			1																		
-L- STA. 285+70.36																																												
-L- STA. 285+05																																		1										
-L- STA. 285+36.35																																		1										
SHEET TOTALS									26	7.92		6		3	3	1		1	1			15	1		12	4			1	3	1	2		35			6@15"2@24"			140	

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