CARYLTBURNS

COMPUTED BY:	SUNGATE DESIGN GROUP	**DATE:**	8/1/2017
CHECKED BY:	MICHAEL BAKER ENGINEERING	**DATE:**	8/14/2017

PROJECT NO.	SHEET NO.
R-5703	3D-9

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	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	C. S. PIPE 12 .064	15 .064	18 .064	24 .064	30 .079			36 .079
L 363+15	45	RT	2523		97.1																						
			2523	2553		93.4	68.0														100						
L 365+58	44	LT	2524		97.9																						
			2524	2527		94.5	92.9			84							X										
L 366+18	41	RT	2525		98.0																						
			2525	2526		94.7	93.1																				
L 366+00	0	CL	2526		95.8																						
			2526	2527		93.1	92.9																				
L 366+39	46	LT	2527		98.1																						
			2527	2561		92.9	69.5														120						
Y8LPD 16+00	14	RT	2529		72.4																						
			2529	2558		69.1	63.5														52						
Y8LPD 13+21	14	RT	2530		64.3																						
			2530	2557		58.9	58.5																				
			2531	2530		61.0	60.6																				
Y8LPD 13+12	14	RT	2531		64.3																						
Y8LPD 12+00	14	RT	2532		65.6																						
			2532	2570		62.3	62.0			40							X										
Y8LPC 13+31	0	CL	2533			67.7	50.9																				
Y8LPC 16+00	14	RT	2534		87.6																						
			2534	2563		84.2	69.5														92						
Y8LPC 18+85	14	RT	2535		79.0																						
			2535	2564		75.6	68.5																				
			2536	2537		67.7	67.5																				
Y8LPC 21+68	14	RT	2536		72.7																						
Y8LPC 22+44	14	RT	2537		73.2																						
			2537	2538		67.5	67.1																				
Y8LPC 23+92	14	RT	2538		73.5																						
			2538	2539		68.0	67.8																				
Y8 40+00	0	CL	2539		71.8																						
			2539	2554		67.8	67.5																				
Y8 37+00	75	RT	2540		72.0																						
			2540	2571		68.2	68.2			20							X										
Y8RPA 27+88	0	CL	2541			58.2	54.4																				
Y8 48+09	93	RT	2542	2543		57.2	52.2																				
Y8 48+48	0	CL	2543	3012	57.9	52.2	50.2																				
Y8LPD 19+50	14	RT	2559		89.0																						
			2559	2560		85.7	68.6														96						
L 366+29	0	CL	2562			69.8	68.8																				
Y8RPB 27+56	0	CL	2565			69.6	69.0																				
L 361+00	57	LT	2566		96.6																						
			2566	2518		93.2	93.0			52							X										
L 359+07	0	CL	2567		93.6																						
			2567	2516		90.9	90.7																				
L 362+00	52	LT	2568		96.6																						
			2568	2518		93.2	93.0			52							X										
L 345+60	70	LT	2569		80.6																						
			2569	2574		77.2	58.0														72						
Y8LPC 21+17	32	LT	2571		71.5																						
			2571	2536		67.9	67.7																				
SHEET TOTALS										248											532						

LINE & STATION	FROM	TO	R. C. PIPE CLASS III 12	15	18	24	30	36	42	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 363+15	2523																								
	2523	2553																							
L 365+58	2524																								
	2524	2527																							
L 366+18	2525																								
	2525	2526									44														
L 366+00	2526																								
	2526	2527									60														
L 366+39	2527																								
	2527	2561																							
Y8LPD 16+00	2529																								
	2529	2558																							
Y8LPD 13+21	2530																								
	2530	2557						80																	
	2531	2530									8														
Y8LPD 13+12	2531																								
Y8LPD 12+00	2532																								
	2532	2570																							
Y8LPC 13+31	2533																				348				
Y8LPC 16+00	2534																								
	2534	2563																							
Y8LPC 18+85	2535																								
	2535	2564		76																					
	2536	2537										72													
Y8LPC 21+68	2536																								
Y8LPC 22+44	2537																								
	2537	2538										144													
Y8LPC 23+92	2538																								
	2538	2539											60												
Y8 40+00	2539																								
	2539	2554				96																			
Y8 37+00	2540																								
	2540	2571																							
Y8RPA 27+88	2541												120												
Y8 48+09	2542	2543													108										
Y8 48+48	2543	3012													144										
Y8LPD 19+50	2559																								
	2559	2560																							
L 366+29	2562												332												
Y8RPB 27+56	2565											176													
L 361+00	2566																								
	2566	2518																							
L 359+07	2567																								
	2567	2516									60														
L 362+00	2568																								
	2568	2518																							
L 345+60	2569																								
	2569	2574																							
Y8LPC 21+17	2571																								
	2571	2536										68													
SHEET TOTALS				76		96		80			172	460	512		252						348				

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	OPEN THROAT 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	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. TYPE "D" STD. 840.19 OR STD. 840.28	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	J.B. STD. 840.31 OR STD. 840.32	M.H. FRAME AND COVER STD. 840.54	ADJUST 2GI	15" C.S. ELBOW, 0.064" THICK	18" C.S. ELBOW, 0.064" THICK	24" C.S. ELBOW, 0.064" THICK	30" SLUICE GATE	36" SLUICE GATE	MODIFIED CONC. FLUME	PIPE CLEAN OUT EA	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
L 363+15	2523					1													1		1																
	2523	2553																									2										
L 365+58	2524					1													1		1																
	2524	2527																																			
L 366+18	2525					1			1			1																									
	2525	2526																																			
L 366+00	2526					1													1			1															
	2526	2527																																			
L 366+39	2527					1	0.2												1		1																
	2527	2561																									2										
Y8LPD 16+00	2529					1			1			1																									
	2529	2558																									2										
Y8LPD 13+21	2530					1	0.4		1		1																										
	2530	2557																																			
	2531	2530																																			
Y8LPD 13+12	2531					1			1	1																											
Y8LPD 12+00	2532					1			1		1																										
	2532	2570																																			
Y8LPC 13+31	2533																																				
Y8LPC 16+00	2534					1			1		1																										
	2534	2563																									2										
Y8LPC 18+85	2535					1			1		1																										
	2535	2564																																			
	2536	2537																																			
Y8LPC 21+68	2536					1			1	1																											
Y8LPC 22+44	2537					1	0.7		1			1																									
	2537	2538																																			
Y8LPC 23+92	2538					1	0.5		1		1																										
	2538	2539																																			
Y8 40+00	2539					1													1			1															
	2539	2554																																			
Y8 37+00	2540					1													1			1															
	2540	2571																																			
Y8RPA 27+88	2541																																				
Y8 48+09	2542	2543	3.400																																		
Y8 48+48	2543	3012				1	0.8											1				1															
Y8LPD 19+50	2559					1			1			1																									
	2559	2560																									2										
L 366+29	2562																																				
Y8RPB 27+56	2565																																				
L 361+00	2566					1													1		1																
	2566	2518																																			
L 359+07	2567					1													1			1															
	2567	2516																																			
L 362+00	2568					1													1		1																
	2568	2518																																			
L 345+60	2569					1													1		1																
	2569	2574																									2										
Y8LPC 21+17	2571					1													1			1															
	2571	2536																																			
SHEET TOTALS			3.400			23	2.6		11	2	5	4						1	11		6	6					12										

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