COMPUTED BY: LMJ	DATE: 3/9/2022	PROJECT NO.	SHEET NO.
CHECKED BY: WKJ	DATE: 5/4/2022	I-5987A	3D-22

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	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) SIZE 15	18	24	30	36	42	48	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
								THICKNESS OR GAUGE										
LA2 457+04	5 LT	2906		167.10														
		2907	2909		162.40	162.20												
LA2 457+46	75 LT	2907		166.40														
		2908	2909		162.40	162.20												
LA2 456+62	75 LT	2908		166.40														
		2909	2910		162.00	161.40	.9		20									
LA2 457+04	75 LT	2909		166.40														
		2914	2915		163.00	162.60		40										
LA2 454+49	73 RT	2914		167.10														
		2916	2917		163.30	157.80		36										
LA2 453+59	73 RT	2916		167.30														
		2918	2919		163.40	158.50		32										
LA2 451+53	73 RT	2918		167.50														
		2920	2921		163.40	163.40												
LA2 447+98	2 RT	2920		167.40														
		2921	2924		163.40	163.20												
LA2 447+98	5 LT	2921		167.40														
		2922	2923		163.40	163.40												
LA2 448+84	2 RT	2922		167.40														
		2923	2924		163.40	163.20												
LA2 448+84	5 LT	2923		167.40														
		2924	2925		163.20	163.10	.6											
LA2 448+41	5 LT	2924		167.40														
		2925	2926		163.10	159.50	.7											
LA2 448+41	2 RT	2925		167.40														
		3001	3002		162.60	162.30												
LA2 469+32	98 LT	3001		165.10														
		3002	3005		162.30	162.30												
LA2 468+79	5 LT	3002		170.50														
		3003	3004		166.20	166.20												
LA2 467+84	5 LT	3003		170.20														
		3004	3005		166.20	165.70												
LA2 467+84	2 RT	3004		170.20														
		3005	3006		162.30	161.80												
LA2 468+76	2 RT	3005		170.50														
LA2 468+21	100 RT	3006		164.30														
		3007	3008		188.60	187.20												
Y3 28+28	14 RT	3007		192.70														
		3008	3009		187.20	163.60		88										
Y3 27+52	16 RT	3008		191.20														
		3009	3010		163.60	163.40		12										
LA2 460+90	85 LT	3009		165.60														
		3010	3011		162.64	162.43												
LA2 460+90	75 LT	3010		167.41														
		3011	3012		162.43	161.92												
LA2 460+90	3 LT	3011		168.13														
		3012	3013		161.80	161.80												
LA2 462+59	5 LT	3012		168.64														
		3013	3014		161.90	161.69												
LA2 462+59	3 RT	3013		168.64														
						SHEET TOTAL		208	20									

LINE & STATION	C. S. PIPE 15	18	24	30	36	42	48	R. C. PIPE CLASS III 15	18	24	30	36	42	48	R. C. PIPE CLASS IV 15	18	24	30	36	42	48
	THICKNESS OR GAUGE 0.064	0.064	0.064	0.079	0.079	0.109	0.109														
LA2 457+04																					
															40						
LA2 457+46																					
															40						
LA2 456+62																					
LA2 457+04																					
LA2 454+49																					
LA2 453+59																					
LA2 451+53																					
															8						
LA2 447+98																					
															40						
LA2 447+98																					
															8						
LA2 448+84																					
															40						
LA2 448+84																					
															8						
LA2 448+41																					
LA2 448+41																					
LA2 469+32																					
																	8				
LA2 468+79																					
															8						
LA2 467+84																					
															92						
LA2 467+84																					
LA2 468+76																					
LA2 468+21																					
															76						
Y3 28+28																					
Y3 27+52																					
LA2 460+90																					
												68					68				
LA2 460+90																					
																	168				
LA2 460+90																					
																	8				
LA2 462+59																					
																	68				
LA2 462+59																					
SHEET TOTAL												68					360		312	8	

LINE & STATION	16" WELDED STEEL PIPE 0.25" THICK, GRADE B IN SOIL	18" WELDED STEEL PIPE 0.25" THICK, GRADE B IN SOIL	24" WELDED STEEL PIPE 0.50" THICK, GRADE B IN SOIL	30" WELDED STEEL PIPE 0.50" THICK, GRADE B IN SOIL	36" WELDED STEEL PIPE 0.50" THICK, GRADE B IN SOIL	42" WELDED STEEL PIPE 0.625" THICK, GRADE B IN SOIL	48" WELDED STEEL PIPE 0.625" THICK, GRADE B IN SOIL	16" WELDED STEEL PIPE 0.25" THICK, GRADE B NOT IN SOIL	18" WELDED STEEL PIPE 0.25" THICK, GRADE B NOT IN SOIL	24" WELDED STEEL PIPE 0.50" THICK, GRADE B NOT IN SOIL	30" WELDED STEEL PIPE 0.50" THICK, GRADE B NOT IN SOIL	36" WELDED STEEL PIPE 0.50" THICK, GRADE B NOT IN SOIL	42" WELDED STEEL PIPE 0.625" THICK, GRADE B NOT IN SOIL	48" WELDED STEEL PIPE 0.625" THICK, GRADE B NOT IN SOIL	ENDWALLS STD. 838.01 OR STD.838.11 (UNLESS OTHERWISE NOTED) CY	REINFORCED ENDWALLS CY	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'	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 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 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. (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 840.32	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	T.B.D.I. FOR STEEL GRATES STD. 840.36	STEEL FRAME AND TWO GRATES STD. 840.37	M.H. STD. 840.51, STD. 840.52, OR STD.53	M.H. FRAME AND COVER STD. 840.54	TEMP STEEL PLATE COVER MASONARY DRAINAGE	15" C.S. ELBOW	15" SIDE DRAIN PIPE ELBOW	FLOWABLE FILL, C.Y.	PIPE REMOVAL LIN. FT.	REMARKS
LA2 457+04																		1																								1	1							
LA2 457+46																		1																								1	1							
LA2 456+62																		1																								1	1							
LA2 457+04																		1																								1	1							
LA2 454+49																		1																								1	1							
LA2 453+59																		1																								1	1							
LA2 451+53																		1																								1	1							
LA2 447+98																		1																								1	1							
LA2 447+98																		1																								1	1							
LA2 448+84																		1																								1	1							
LA2 448+84																		1																								1	1							
LA2 448+41																		1																								1	1							
								52							52																																6.0		
LA2 448+41																		1																								1	1							
																																															13.0		
LA2 469+32																							2																										SEE SPECIAL DETAIL SHEET 2C-9
LA2 468+79																		1	3.3																							1	1							
LA2 467+84																		1																								1	1							
LA2 467+84																		1																								1	1							
LA2 468+76																		1	3.3																							1	1							
LA2 468+21																							2																										SEE SPECIAL DETAIL SHEET 2C-9
Y3 28+28																		1																								1	1						27	
																																														2		42	
Y3 27+52																		1																								1	1							
LA2 460+90																		1																		1		1												
LA2 460+90																		1																								1	1							
LA2 460+90																		1	0.7																							1	1							
LA2 462+59																		1	1.8																							1	1							
																																															10.0		
LA2 462+59																		1	1.7																							1	1							
SHEET TOTAL								52							52			24	10.8				5												1		1				23	23					2	29.0	69	

ABBREVIATIONS

C.A.A - CORRUGATED ALUMINUM INLET
C.B - CATCH BASIN
C.S. - CORRUGATED STEEL
D.I. - DROP INLET
G.D.I. - GRATED DROP INLET
P.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