JSTANOVICH

COMPUTED BY: Jake Stanovich DATE: 08/16/2022

CHECKED BY: Will Hines, PE DATE: 08/16/2022

PROJECT NO.	SHEET NO.
B-5869	3D-1

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	TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) 12	15	18	24	30	36	42	48	54	60	66	72	78	84	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC
L 20+59	32	LT	0401		1106.4																						
			0401	0402		1103.1	1102.3																				
L 20+44	32	LT	0402		1105.6																						
			0402	0403		1102.3	1098.0																				
L 19+63	32	LT	0403		1101.3																						
			0403	0417		1098.0	1095.2	0.3																			
L 18+27	32	RT	0404		1092.5																						
			0404	0407		1089.2	1083.8	0.6																			
L 17+53	32	RT	0407		1087.1																						
			0407	0408		1083.8	1075.4	0.8																			
L 16+16	32	RT	0408		1078.7																						
			0408	0409		1075.1	1069.9	0.4																			
L 14+79	32	RT	0409		1073.4																						
			0409	0410		1069.9	1066.6	0.6																			
L 13+65	32	RT	0410		1070.5																						
			0410	0411		1066.4	1065.8																				
L 13+00	32	RT	0411		1069.8																						
			0411	0412		1065.8	1065.4																				
L 13+00	32	LT	0412		1069.5																						
			0412	0413		1065.4	1063.0																				
L 12+44	32	LT	0413		1068.3																						
			0413	0414		1063.3	1037.0	0.8				68											X		X	X	X
L 21+34	96	RT	0415		1094.0																						
			0415	0416		1089.5	1074.3	1.1				60											X		X	X	X
L 19+11	32	LT	0417		1098.5																						
			0417	0404		1095.2	1089.2	0.4																			
L 35+01	44	RT	0501		1153.9																						
			0501	0502		1150.6	1150.3																				
L 34+05	37	RT	0502		1153.7																						
			0502	0503		1150.3	1150.0																				
L 33+56	37	LT	0503		1153.3																						
			0503	0504		1150.0	1148.6																				
L 32+50	38	LT	0504		1151.9																						
			0504	0506		1148.6	1144.1																				
L 30+80	38	LT	0506		1147.4																						
			0506	0508		1144.1	1138.8	0.6																			
L 29+15	38	LT	0508		1142.1																						
			0508	0510		1138.8	1132.4	1.0																			
L 27+50	8	RT	0509		1138.2																						
			0509	0510		1134.9	1132.4																				
L 27+50	37	LT	0510		1136.2																						
			0510	0512		1132.6	1128.3	0.6																			
L 26+25	5	RT	0511		1133.6																						
			0511	0512		1130.3	1128.1																				
L 26+25	34	LT	0512		1131.8																						
			0512	0513		1128.3	1123.9	0.9																			
L 25+00	32	LT	0513		1127.4																						
			0513	0514		1123.9	1120.2	1.0																			
L 24+11	32	LT	0514		1124.3																						
			0514	0515		1120.2	1120.0																				
							SHEET TOTALS					128															

STRUCTURE NUMBER FROM	TO	C. S. PIPE 12 (.064)	15 (.064)	18 (.064)	24 (.064)	30 (.079)	36 (.079)	42 (.109)	48 (.109)	54	60	66	72	78	84	R. C. PIPE CLASS IV 12	15	18	24	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.
0401																							1		
0401	0402																16								
0402																							1		
0402	0403																80								
0403																							1		
0403	0417																52								
0404																							1		
0404	0407																68								
0407																							1		
0407	0408																128								
0408																							1		
0408	0409																	132							
0409																							1		
0409	0410																	112							
0410																							1		
0410	0411																		64						
0411																							1		
0411	0412																		64						
0412																							1		
0412	0413																		56						
0413																							1		
0413	0414																								
0415																							1		
0415	0416																								
0417																							1		
0417	0404																104								
0501																							1		
0501	0502																96								
0502																							1		
0502	0503																88								
0503																							1		
0503	0504																104								
0504																							1		
0504	0506																164								
0506																							1		
0506	0508																156								
0508																							1		
0508	0510																156								
0509																							1		
0509	0510																44								
0510																							1		
0510	0512																	120							
0511																							1		
0511	0512																40								
0512																							1		
0512	0513																	120							
0513																							1		
0513	0514																	88							
0514																							1		
0514	0515																		36						
SHEET TOTALS																	1296	572	220				25		

STRUCTURE NUMBER FROM	TO	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	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	DRIVEWAY D.I. STD. 840.30	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30	J.B. STD. 840.31 OR STD. 840.32	ANGLED VANE GRATES AND FRAMES STD. 840.33	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35 OR STD. 840.46	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO J.B.	24" DRAINAGE PIPE ELBOW	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.	REMARKS
0401		1		1																				
0401	0402																							
0402		1		1																				
0402	0403																							
0403		1		1																				
0403	0417																							
0404		1			1																			
0404	0407																							
0407		1			1																			
0407	0408																							
0408		1			1																			
0408	0409																							
0409		1			1																			
0409	0410																							
0410		1			1																			
0410	0411																							
0411		1			1																			
0411	0412																							
0412		1		1																				
0412	0413																							
0413		1		1																				
0413	0414																		2					
0415													1				1							
0415	0416																		2					
0417		1		1																				
0417	0404																							
0501		1	1																					
0501	0502																							
0502		1	1																					
0502	0503																							
0503		1		1																				
0503	0504																							
0504		1		1																				
0504	0506																							
0506		1		1																				
0506	0508																							
0508		1		1																				
0508	0510																							
0509						1		1	1															
0509	0510																							
0510		1		1																				
0510	0512																							
0511						1		1	1															
0511	0512																							
0512		1		1																				
0512	0513																							
0513		1		1																				
0513	0514																							
0514		1		1																				
0514	0515																							
SHEET TOTALS		22	2	14	6	2		2	2				1				1		4					

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