COMPUTED BY: Jake Stanovich DATE: 03/10/2022

CHECKED BY: Will Hines, PE DATE: 03/10/2022

PROJECT NO. I-5878 SHEET NO. 3D-15

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) 15	18	24	30	36	42	48	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	R. C. PIPE CLASS III 18	24	30	36	R. C. PIPE CLASS IV 15	18	24	30	36	42	48	R. C. PIPE CLASS V 12	15	18	24	36	42	QUANTITIES FOR SEALED DRAINAGE STRUCTURES NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B) 0' THRU 5'	A 5' THRU 10'	B 10' AND ABOVE		16" DUCTILE IRON PIPE (CLASS 250) TYPE 3 SEALED PIPE SYSTEM - SEE SPECIAL PROVISION	18" DUCTILE IRON PIPE (CLASS 250) TYPE 3 SEALED PIPE SYSTEM - SEE SPECIAL PROVISION	36" DUCTILE IRON PIPE (CLASS 150) TYPE 3 SEALED PIPE SYSTEM - SEE SPECIAL PROVISION	16" WELDED STEEL PIPE 0.281" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	18" WELDED STEEL PIPE 0.312" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	24" WELDED STEEL PIPE 0.375" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	30" WELDED STEEL PIPE 0.469" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	36" WELDED STEEL PIPE 0.532" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) 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	G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	J.B. STD. 840.31 OR STD. 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 WITH TWO GRATES STD. 840.37	TEMPORARY 1" STEEL COVER	M.H. FRAME AND COVER STD. 840.54	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	BERM DITCH OUTLET STD. 850.11 (PER EACH)		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
			56A12	56A02		198.65	198.21																		32																																																														
Y15 1+71	176	RT	56A13		199.3																																														1	0.8											1						1																		Special Detail Std. 840d17
L 964+85	35	RT	0000																																																																																	5				
L 964+96	35	LT	0000																																																																																	5				
L 970+60	27	RT	0000																																																																																	5				
SR9 89+02	17	RT	0000																																																																																				19	
Y14RPB 17+97	15	RT	0000																																																																																				601	
Y14RPB 21+81	69	RT	0000																																																																																	6				
L 972+58	83	LT	0000																																																																																	228				
Y14 26+07	41	LT	0000																																																																																	9				
L 972+65	86	LT	0000																																																																																	228				
Y14RPB 22+35	76	LT	0000																																																																																				72	
Y14RPB 22+36	75	LT	0000																																																																																				73	
L 973+96	32	LT	0000																																																																																	4				
L 973+92	32	RT	0000																																																																																	4				
L 973+61	1	RT	0000																																																																																	22				
SBCD 10+76	15	LT	0000																																																																																				285	
L 973+58	82	RT	0000																																																																																				69	
L 972+74	81	RT	0000																																																																																				100	
L 973+33	79	RT	0000																																																																																				46	
SBCD 14+98	25	RT	0000																																																																																				129	
SBCD 15+66	46	LT	0000																																																																																				84	
SBCD 16+25	88	LT	0000																																																																																				95	
SBCD 17+00	88	LT	0000																																																																																				50	
L 977+61	32	LT	0000																																																																																	4				
L 977+57	40	RT	0000																																																																																	5				
L 980+34	1	RT	0000																																																																																				549	
LREV 985+57	2	LT	0000																																																																																				491	
LREV 988+30	46	LT	0000																																																																																	5				
LREV 988+33	15	RT	0000																																																																																				79	
LREV 994+27	87	RT	0000																																																																																				166	
LREV 994+14	102	LT	0000																																																																																				62	
LREV 997+65	59	LT	0000																																																																																	5				
LREV 1000+20	127	RT	0000																																																																																	60				
LREV 998+94	64	LT	0000																																																																																	50				
LREV 1009+94	5	RT	0000																																																																																	5				
LREV 1016+18	32	RT	0000																																																																																	6				
LREV 1020+21	28	LT	0000																																																																																	4				
LREV 1020+47	33	RT	0000																																																																																	4				
SR11 21+95	21	RT	0000																																																																																				64	
L 1022+79	61	RT	0000																																																																																	30				
Y15RPA 23+29	64	RT	0000																																																																																				41	
LREV 1021+33	127	RT	0000																																																																																				26	
Y15RPD 10+68	63	LT	0000																																																																																				28	
Y15RPD 10+09	62	LT	0000																																																																																				24	
Y15RPD 12+74	53	LT	0000																																																																																				39	
Y15RPD 25+20	80	LT	0000																																																																																				56	
Y15RPD 26+30	18	LT	0000																																																																																				136	
Y15RPD 25+80	36	RT	0000																																																																																				9	
							SHEET TOTALS																		32																										1	0.8											1						1														694			3393	

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

JSTANOVICH