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COMPUTED BY:	BJH	DATE:	03-15-22
CHECKED BY:	REL	DATE:	03-15-22

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
A-0009CA	3D-9

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 %	Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) 12	24	30	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	48 .109	R. C. PIPE CLASS III 12	15	18	24	30	36	48	R. C. PIPE CLASS IV 12	15	18	24	30	36	48
L 187+43	31 RT	1808		2192.0																																	
		1808	1809		2187.8	2179.6	1.1																								92						
L 183+15	45 RT	1812																																			
		1812	1803																																		
L 194+03	27 RT	1900		2199.9																																	
		1900	1901		2196.6	2195.3																		24													
L 194+99	81 RT	1902																																			
L 200+85	36 RT	1903																																			
L 203+63	43 RT	1904																																			
		1904	1905		2208.2	2206.1																					92										
L 134+43	41 LT																																				
L 134+86	36 RT																																				
L 177+80	42 LT																																				
L 123+96	7 LT																																				
L 123+89	38 LT																																				
L 124+03	25 RT																																				
L 59+17	32 RT																																				
L 73+19	29 RT																																				
L 72+98	34 LT																																				
L 69+22	28 RT																																				
L 65+49	34 RT																																				
L 82+72	28 LT																																				
L 91+22	48 RT																																				
L 99+32	29 RT																																				
L 127+70	51 RT																																				
L 200+85	26 RT																																				
L 170+93	3 RT																																				
L 89+74	12 RT																																				
L 93+90	21 RT																																				
L 91+78	23 LT																																				
L 96+58	109 LT																																				
L 102+55	26 LT																																				
L 104+11	13 RT																																				
L 169+94	32 LT																																				
L 168+14	31 LT																																				
L 187+39	12 LT																																				
L 178+74	0 CL																																				
L 65+13	9 LT																																				
L 65+17	57 LT																																				
L 65+09	39 RT																																				
L 67+49	3 LT																																				
L 67+64	42 RT																																				
L 67+34	48 LT																																				
L 71+70	6 LT																																				
L 71+90	48 RT																																				
L 71+49	60 LT																																				
L 129+33	11 LT																																				
L 129+23	60 LT																																				
L 129+43	39 RT																																				
L 134+64	3 LT																																				
SHEET TOTALS																								24			92				92						

LINE & STATION / SIZE / THICKNESS OR GAUGE	18" PIPE REHABILITAION CIPP LINER	24" WELDED STEEL PIPE 0.500" THICK, GRADE B IN SOIL	24" WELDED STEEL PIPE 0.500" THICK, GRADE B NOT IN SOIL	30" WELDED STEEL PIPE 0.500" THICK, GRADE B IN SOIL	30" WELDED STEEL PIPE 0.500" THICK, GRADE B NOT IN SOIL	36" WELDED STEEL PIPE 0.500" THICK, GRADE B IN SOIL	36" WELDED STEEL PIPE 0.500" THICK, GRADE B NOT IN SOIL	6" PVC PIPE (SPRING BOX)	6" DUCTILE IRON PIPE (SPRING BOX)	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	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) A: 0' THRU 5' EACH	B: 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	D.I. FRAME AND GRATES STD. 840.16	D.I. TYPE "A" STD. 840.17, 840.26, OR 840.45	G.D.I. TYPE "B" STD. 840.18, 840.27, OR 840.45	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/ 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	SPRING BOX STD. 840.41	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO D.I.	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	30" C.S. ELBOW	4-SIDED OTCB, SEE DETAIL SHEET 2D-13	MIN. DEPTH 2GI-A, SEE SHEET DETAIL 2D-1	JB W/ WEIR WALL, SEE DEITAL SHEET 2D-2	DRY DET. OUTLET CTL. STR, SEE SHEET 2D-7	DRY DET. OUTLET CTL. STR, SEE SHEET 2D-11	BERM DRAINAGE OUTLET STD. 850.10 (SY)	BERM DRAINAGE OUTLET STD. 850.11 (SY)	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
L 187+43														1												1	1																						
L 183+15																																																	
	80																																																RETAIN EXIST. 18" CMP & LINE W/ CIPP
L 194+03														1												1	1																						
L 194+99										52																																						
L 200+85										32																																						
L 203+63																																																	
L 134+43																																																0.182	PLUG EXIST. 30" CMP
L 134+86																																															0.182	PLUG EXIST. 30" CMP
L 177+80																																																20	REMOVE EXIST. 30" CMP (PARTIAL)
L 123+96																																													3				FILL EXIST. 15" CMP
L 123+89																																															0.045	PLUG EXIST. 15" CMP
L 124+03																																															0.045	PLUG EXIST. 15" CMP
L 59+17																																																45	REMOVE EXIST. 15" CMP
L 73+19																																																29	REMOVE EXIST. 18" CMP
L 72+98																																																39	REMOVE EXIST. 18" HDPE
L 69+22																																																29	REMOVE EXIST. 18" CMP
L 65+49																																																32	REMOVE EXIST. 15" CMP
L 82+72																																																28	REMOVE EXIST. 15" CMP
L 91+22																																																52	REMOVE EXIST. 8" CMP
L 99+32																																																27	REMOVE EXIST. 15" CMP
L 127+70																																																41	REMOVE EXIST. 15" CMP
L 200+85																																																28	REMOVE EXIST. 15" CMP
L 170+93																																													7				FILL EXIST. 18" CMP
L 89+74																																													20				FILL EXIST. 24" CMP
L 93+90																																													20				FILL EXIST. 24" CMP
L 91+78																																																40	REMOVE EXIST. 15" CMP
L 96+58																																																26	REMOVE EXIST. 15" HDPE
L 102+55																																																35	REMOVE EXIST. 15" CMP
L 104+11																																													10				FILL EXIST. 24" CMP
L 169+94																																																25	REMOVE EXIST. 8" CMP
L 168+14																																																26	REMOVE EXIST. 8" CMP
L 187+39																																																74	REMOVE EXIST. 15" CMP
L 178+74																																													34				FILL EXIST. 30" CMP
L 65+13																																													4				FILL EXIST. 15" CMP
L 65+17																																															0.045	PLUG EXIST. 15" CMP
L 65+09																																															0.045	PLUG EXIST. 15" CMP
L 67+49																																													6				FILL EXIST. 18" CMP
L 67+64																																															0.065	PLUG EXIST. 18" CMP
L 67+34																																															0.065	PLUG EXIST. 18" CMP
L 71+70																																													13				FILL EXIST. 24" CMP
L 71+90																																															0.116	PLUG EXIST. 24" CMP
L 71+49																																															0.116	PLUG EXIST. 24" CMP
L 129+33																																													12				FILL EXIST. 24" CMP
L 129+23																																															0.116	PLUG EXIST. 24" CMP
L 129+43																																															0.116	PLUG EXIST. 24" CMP
L 134+64																																													16				FILL EXIST. 30" CMP
SHEET TOTALS	80									32	52			2												2	2																		145		1.138	596	

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