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WEI-JPCKXL3

COMPUTED BY:	mlh	DATE:	8/23/2023
CHECKED BY:	kba	DATE:	8/24/2023

PROJECT NO.	SHEET NO.
HB-0003	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	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, PVC, or PP PIPE) 6	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	DO NOT USE PP PIPE	C. S. PIPE 6 (.064)	15 (.064)	18 (.064)	24 (.064)	30 (.079)	R. C. PIPE CLASS III 12	15	18	24	30	36	42	48	R. C. PIPE CLASS IV 12	15	18	24	30	36	42	48	15" WELDED STEEL PIPE 0.25" THICK, GRADE B IN SOIL	15" WELDED STEEL PIPE 0.25" THICK, GRADE B NOT IN SOIL	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	CONCRETE BRIDGE APPROACH D.I. STD. 840.13	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 WITH GRATE STD. 840.20	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	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	T.B.D.I. FOR STEEL GRATES STD. 840.36	STEEL FRAME WITH TWO GRATES STD. 840.37	SPRING BOX STD. 840.41	TRAFFIC BEARING PRECAST DRN. STR. 840.46	M.H. FRAME AND COVER STD. 840.54	M.H. FRAME AND COVER FOR OTCB STD. 840.55	6" CS PIPE ELBOW, 0.064" THICK	15" SIDE DRAIN PIPE ELBOW	24" SIDE DRAIN PIPE ELBOW	30" SIDE DRAIN PIPE ELBOW	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
L 175+05	1	RT	0401		2693.5																																												1																									1	1									4		17	Remove 15" CMP
			0401	0402		2689.0	2686.6																														92																																																				
L 176+00	1	RT	0402		2691.1																																												1																									1	1												
			0402	0413		2686.6	2685.7																																				24	24																																											
L 176+00	46	LT	0413		2690.2																																												1																									1	1												
			0413	0403		2685.7	2680.9	0.4		32																																																																								2						
L 178+10	47	LT	0410		2684.4																																												1																									1	1												
			0410	0404		2679.9	2678.2																														48																																																						
L 178+60	49	LT	0404		2682.7																																												1																									1	1												
			0404	0405		2678.2	2678.0			24							X																																																																		2			3			Flowable Fill 15" CMP
L 182+27	76	RT	0406	0409		2667.4	2665.3	0.9				16																																																																										14	Remove 18" HDPE
L 182+25	1	LT	0407		2670.3																																												1																									1	1												
			0407	0408		2665.8	2665.8																														4																																																						
L 182+25	1	RT	0408		2670.6																																												1																									1	1												
			0408	0409		2665.8	2665.5																														60																																																						
L 182+27	62	RT	0409		2670.5																																												1	0.8													1				1																					
			0409	0415		2664.8	2659.3																																172																																																		
L 184+00	79	RT	0414	0415		2661.5	2660.1			16							X																																																																								
L 184+00	62	RT	0415		2664.6																																												1	0.3													1				1																					
			0415	0521		2659.3	2653.4																																196																																																		
L 175+76	73	RT	0411		2678.5																																									1.400																																													
			0411	0412		2676.5	2676.4																		8																																																																					
L 175+79	70	RT	0412		2678.5																																																																																					0.5526		
L 187+00	1	LT	0501		2656.0																																												1																									1	1												
			0501	0502		2651.5	2651.4																														4																																																						
L 187+00	1	RT	0502		2655.9																																												1																									1	1												
			0502	0503		2651.4	2651.1																														60																																																						
L 186+00	62	RT	0521		2658.6																																												1	0.3																										1		1										
			0521	0503		2653.4	2650.4	0.4																															100																																																		
L 187+00	62	RT	0503		2655.9																																												1	0.5																										1		1										
			0503	0504		2650.4	2648.2	0.5																															100																																																	
L 188+00	62	RT	0504		2653.4																																												1	0.3																										1		1										
			0504	0505		2648.2	2609.3	2.0				96					X																																																																				2		6			Flowable Fill 1@15" CMP
L 192+00	1	LT	0506		2644.8																																												1																									1	1												
			0506	0507		2640.3	2639.6																														64																																																							
L 192+00	62	RT	0507		2644.1																																												1																									1	1												
			0507	0510		2639.6	2617.7			40							X																																																																			2						
L 192+31	94	RT	0508																																																																																						0.6560		
			0508	0509		2616.6	2616.5						12																																																																										21	Remove 30" CMP
L 192+26	105	RT	0509		2624.0																																												1	2.5										1																						1								4 OTCB
			0509	0510		2616.5	2616.4						24																																																																													
L 192+00	104	RT	0510		2627.0																																												1	5.0	0.6								1																						1								4 OTBC
			0510	0512		2616.4	2615.0						104																																																																								40			Flowable Fill 30" CMP
Y1 15+00	27	LT	0511		2619.4																																												1																1					1																		
			0511	0512		2616.7	2616.2			88																																																																														
Y1 16+00	27	LT	0512		2620.3																																												1	0.3													1						1																		
			0512	0513		2615.0	2614.7																										52																																																										
Y1 16+00	26	RT	0513		2623.5																																												1	3.8																				1								1										
			0513	0514		2614.7	2604.8						40				X																																																																						2				
L 194+35	62	RT	0515		2636.9																																												1																1			1																					
SHEET TOTALS										200		112	180													8						52					332		568					24	24	1.400			22	13.7	0.6								2				3	2			3		2	1				11	14		3	1	2		6	2	2	53	1.2086	52	

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