WEL3JP2653

COMPUTED BY:	MLH	DATE:	02/26/2023
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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-5863	3D-4

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, PVC, or PP PIPE) 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
		0802	0803		1877.3	1877.0														
Y5 11+53	20 LT	0802		1880.3																
		0803	0804		1877.0	1874.3														
Y5 11+54	31 RT	0803		1880.1																
L 63+12	20 LT	0804		1877.3																
		0804	0810		1874.3	1874.0														
L 66+25	22 RT	0805		1888.0																
		0805	0807		1885.0	1880.5														
L 65+00	5 LT	0806		1883.9																
		0806	0807		1880.7	1880.5														
L 65+22	22 RT	0807		1883.7																
		0807	0808		1880.5	1878.2	0.4													
Y7 10+88	19 LT	0808		1881.2																
		0808	0809		1878.2	1877.9	0.4													
ROUNDABOUT 10+59	34 RT	0809		1881.9																
		0809	0810		1877.9	1874.0	0.5													
L 63+12	18 RT	0810		1877.3																
		0810	0706		1874.0	1869.2	1.0													
L 71+70	22 RT	0813		1885.0																
		0813	0814		1881.8	1880.0														
		0814	0817		1876.7	1875.3														
L 72+69	22 RT	0814		1883.6																
Y8 10+45	23 LT	0815		1883.2																
		0815	0817		1879.5	1879.1														
Y8 11+74	22 LT	0816		1880.4																
		0816	0818		1876.7	1876.5														
Y8 10+45	14 LT	0817		1883.3																
		0817	0818		1875.3	1874.7	0.4													
Y8 11+74	14 LT	0818		1880.9																
		0818	0908		1874.7	1869.1	0.6													
L 73+44.4	17 LT	0819		1884.6																
		0819	0817		1875.6	1875.3														
ROUNDABOUT 12+10	23 LT	0821		1883.3																
		0821	0801		1879.0	1878.4														
Y8 13+00	19 LT	0901		1873.7																
		0901	0908		1869.7	1869.5														
Y8 14+62	7 LT	0902		1859.9																
		0902	0910		1854.5	1852.1	0.3													
Y8 14+62	22 LT	0903		1859.4																
		0903	0902		1854.9	1854.5														
Y8 16+08	12 LT	0904		1847.0																
		0904	0906		1843.8	1842.8			16							X	X			
Y8 15+97	26 LT	0905		1847.9																
		0905	0906		1842.5	1841.8	0.4				12					X	X			
Y8 16+08	26 LT	0906		1846.7																
		0906	0907		1841.8	1841.7	0.4				12					X	X			
Y8 13+00	11 LT	0908		1874.0																
		0908	0911		1869.1	1862.4	2.4													
Y8 13+73	15 LT	0909		1867.1																
		0909	0911		1863.4	1863.2	0.7													
				SHEET TOTALS					16		24									

STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	C. S. PIPE 12	15	18	24	30	36	42	48	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	R. C. PIPE CLASS V 12	15	18	24	30	36	42	48	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY
		.064	.064	.064	.064	.079	.079	.109	.109																												
0802	0803																										60										
0802																																					
0803	0804																	108																			
0803																																					
0804																																					
0804	0810																										36										
0805																																					
0805	0807																	92																			
0806																																					
0806	0807																	32																			
0807																																					
0807	0808																	60																			
0808																																					
0808	0809																										48										
0809																																					
0809	0810																	60																			
0810																																					
0810	0706																	72																			
0813																																					
0813	0814																	96																			
0814	0817																			40																	
0814																																					
0815																																					
0815	0817																	8																			
0816																																					
0816	0818																	8																			
0817																																					
0817	0818																			128																	
0818																																					
0818	0908																			120																	
0819																																					
0819	0817			64																																	
0821																																					
0821	0801																	44																			
0901																																					
0901	0908																	8																			
0902																																					
0902	0910																				36																
0903																																					
0903	0902			16																																	
0904																																					
0904	0906																																				
0905																																					
0905	0906																																				
0906																																					
0906	0907																																				
0908																																					
0908	0911																			68																	
0909																																					
0909	0911																	8																			
SHEET TOTALS																		596	80	356	36						144										

STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	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	OPEN THROAT C.B. (3 OR 4 SIDE) SEE SHEET 2B-4	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	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	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
0802	0803																																				
0802		1			1	1																															
0803	0804																																				
0803		1			1	1																															
0804		1			1		1																														
0804	0810																																				
0805		1			1			1																													
0805	0807																																				
0806		1							1			1	1																								
0806	0807																																				
0807		1			1			1																													
0807	0808																																				
0808		1			1			1																													
0808	0809																																				
0809		1			1		1																														
0809	0810																																			284	Remove 1@18" CMP
0810		1			1			1																													
0810	0706																																				
0813		1			1		1																														
0813	0814																																				
0814	0817																																			44	Remove 1@18" CMP
0814		1	1.9										1			1																				
0815		1			1			1																													
0815	0817																																				
0816		1			1			1																													
0816	0818																																				
0817		1	3.0											1				1																			
0817	0818																															8					Flowable Fill 128 LF of 18" CMP
0818		1	1.2											1				1																			
0818	0908																															8					Flowable Fill 120 LF of 18" CMP
0819		1	4.0											1				1																			
0819	0817																																			63	Remove 63 LF of 1@18"CMP
0821		1										1	1																								
0821	0801																																				
0901		1			1			1																													
0901	0908																																				
0902		1	0.4											1				1																			
0902	0910																																				
0903		1										1	1																								
0903	0902																																				
0904		1			1			1																													
0904	0906																																			12	Remove 1@18"CMP
0905		1	0.4											1				1																			
0905	0906																																				
0906		1													1			1																			
0906	0907																																				
0908		1												1				1																			
0908	0911																																				
0909		1			1			1																													
0909	0911																															10					Flowable Fill 153 LF of 18" CMP
SHEET TOTALS		25	10.9		14	2	3	9	1			3	3	1	1	6	1			7				26		403	

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