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W143-2

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CHECKED BY:	DSW	DATE:	08/05/15

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-5104	3D-2

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 %	C.S. PIPE (SE: SHOP ELONGATED) 12 .064	15 .064	18 .064	24 .064		30 .079			36 .079			42 .109	48 .109	54	60	66	72	78	84		
L 30+50	18	RT	0515		2186.4																								
			0515	0512A		2183.7	2175.3																						
L 33+00	18	RT	0516		2198.2																								
			0516	0515A		2195.2	2188.0																						
L 33+00	19	LT	0517		2198.2																								
			0517	0514		2195.2	2183.4																						
Y3 10+44	12	LT	0518		2178.6																								
			0518	0519		2173.9	2171.5																						
Y3 08+54	10	LT	0519		2175.8																								
			0519	0521A		2171.5	2170.1																						
Y3 07+79	9	LT	0521		2173.8																								
			0521	0522		EX	EX																						
Y3 12+50	12	LT	0527		2175.1																								
			0527	EX		2172.6	2172.6																						
Y3 12+20	13	RT	0529		2175.8																								
			0529	EX		2172.8	2171.7																						
Y4 12+17	11	RT	0601		2201.9																								
			0601	0601A		2198.0	2197.2																						
L 36+24	18	LT	0603		2200.8																								
			0603	EX		2195.0	EX																						
L 36+30	11	RT	0604		2201.1																								
			0604	0603		21956.2	EX																						
L 36+46	19	LT	0605		2200.9																								
			0605	0603		2197.8	2196.8																						
L 36+45	19	RT	0606		2201.0																								
			0606	0604		2197.8	2196.4																						
L 37+00	18	RT	0607		2201.5																								
			0607	0606		2198.5	2197.8																						
Y5 12+10	12	RT	0610		2207.5																								
			0610	0610A		2203.1	2202.9																						
Y5 12+06	10	LT	0611		2207.3																								
			0611	0611A		2202.6	2202.4																						
L 39+33	16	LT	0612		2204.2																								
			0612	0619		2199.5	2198.6	1.0																					
L 39+50	18	LT	0614		2204.2																								
			0614	0612		2200.0	2199.8																						
L 40+00	19	RT	0616		2206.6																								
			0616	0612A		2203.1	2201.7	1.3																					
L 39+67	29	RT	0617		2206.6																								
			0617	0620		2204.3	2203.8																						
L 40+70	19	RT	0618		2207.6																								
			0618	0616		2204.2	2203.1																						
L 40+00	27	RT	0620		2206.8																								
			0620	0616		2203.8	2203.1	0.8																					
Y6 12+00	19	RT	0621		2211.9																								
			0621	0622		2208.9	2204.8			42																			
Y6 12+00	19	LT	0622		2211.9																								
			0622	0623		2204.8	2204.4																						
L 42+58	18	LT	0623		2210.9																								
			0623	0625		2204.4	2204.0																						
								SHEET TOTALS		42																			

FROM	TO	R.C. PIPE CLASS IV 12	15	18	24	30	36	42	48	54	60	66	72	78	84		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
0515																				1			1			1
0515	0512A		228																							
0516																				1			1			1
0516	0515A		148																							
0517																				1			1		1	
0517	0514		248																							
0518																				1						
0518	0519				188																					
0519																				1						
0519	0521A				56																					
0521																				1						
0521	0522																									
0527																				1			1			1
0527	EX			8																						
0529																				1			1		1	
0529	EX		40																							
0601																				1			1			1
0601	0601A		16																							
0603																				1	0.8					
0603	EX		8																							
0604																				1						
0604	0603																									
0605																				1			1		1	
0605	0603		20																							
0606																				1			1	1		
0606	0604		16																							
0607																				1			1			1
0607	0606		56																							
0610																				1			1			1
0610	0610A		12																							
0611																				1						
0611	0611A		8																							
0612																				1						
0612	0619			52																						
0614																				1			1		1	
0614	0612		16																							
0616																				1			1			1
0616	0612A		64																							
0617																				1						
0617	0620		32																							
0618																				1			1			1
0618	0616		68																							
0620																				1						
0620	0616		12																							
0621																				1			1			1
0621	0622																									
0622																				1	1.4				1	
0622	0623		52																							
0623																				1	1.5					
0623	0625		40																							
SHEET TOTALS			1084	60	244															25	3.7		14	1	5	9

FROM	TO	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	G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24	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	TB M.H. STD. 840.52 6' DIAMETER	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO J.B.	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	30" C.S. ELBOW	OFFSET CB STD. 804.D02		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
0515																																	
0515	0512A																																
0516																																	
0516	0515A																																
0517																																	
0517	0514																																
0518				1										1																			
0518	0519																																
0519				1										1																			
0519	0521A																																
0521				1								1																					
0521	0522																																Retain existing pipe
0527																																	
0527	EX																																Connect to drainage constructed by City of Brevard
0529																																	
0529	EX																																Connect to drainage constructed by City of Brevard
0601																																	
0601	0601A																																
0603																1					1												
0603	EX																													0.4465			REMOVE EX CB, COLLAR AND EXTEND PIPE
0604																1					1												
0604	0603																													0.8930			REMOVE EX CB, COLLAR AND EXTEND PIPE (2 COLLARS)
0605																																	
0605	0603																																
0606																																	
0606	0604																																
0607																																	
0607	0606																																
0610																																	
0610	0610A																																
0611														1			1																
0611	0611A																																
0612																1					1												
0612	0619																																
0614																																	
0614	0612																																
0616																																	
0616	0612A																																
0617														1			1																
0617	0620																																
0618																																	
0618	0616																																
0620														1			1																
0620	0616																																
0621																																	
0621	0622																						2										
0622																					1						1						OFFSET CB SEE DETAIL IN PLAN SET
0622	0623																																
0623																1					1												
0623	0625																																
SHEET TOTALS				3								1		5		4	3				5		2				1			1.3395			

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