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JOSHHP-NEW

COMPUTED BY:	Joshua G. Dalton, PE	DATE:	1/7/2019
CHECKED BY:	Brian N. Elam, PE	DATE:	1/7/2019

PROJECT NO.	SHEET NO.
U-5754	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 / SIZE / THICKNESS OR GAUGE	OFFSET		STRUCTURE NUMBER FROM	TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %
Y2 17+63	16	LT	0601		744.5			
			0601	0602		738.7	738.5	
Y2 17+59	23	LT	0602		738.5			
Y2 19+15	16	LT	0701		739.0			
			0701	0702		735.8	735.6	
Y2 19+23	24	LT	0702		740.7			
Y2 20+54	17	LT	0703		732.3			
Y2 21+81	17	LT	0704		727.6			
Y2 23+28	17	LT	0705		724.1			
Y2 24+12	19	LT	0706		724.1			
Y2 24+45	20	LT	0707		723.0			
			0707	0711		719.3	719.2	0.5
Y2 27+99	25	LT	0708		727.1			
			0708	0709		723.5	723.4	
Y2 28+02	21	LT	0709		727.1			
Y1 57+68	28	RT	0710		741.5	735.1		
Y2 24+55	19	LT	0711		723.0	719.2		

LINE & STATION	FROM	TO	R. C. PIPE CLASS III 12	15	18	24	30	36	42	48	54	60	66	72	78	84	R. C. PIPE CLASS IV 12	15	18	24	30	36	42	48	54	60	66	72	78	84
Y2 17+63	0601																													
	0601	0602																	8											
Y2 17+59	0602																													
Y2 19+15	0701																													
	0701	0702															12													
Y2 19+23	0702																													
Y2 20+54	0703																													
Y2 21+81	0704																													
Y2 23+28	0705																													
Y2 24+12	0706																													
Y2 24+45	0707																													
	0707	0711															12													
Y2 27+99	0708																													
	0708	0709																8												
Y2 28+02	0709																													
Y1 57+68	0710																													
Y2 24+55	0711																													
SHEET TOTALS																	24	8	8											
PROJECT TOTALS																	24	8	8											

LINE & STATION	FROM	TO	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
Y2 17+63	0601					1	0.8														
	0601	0602																			
Y2 17+59	0602																				
Y2 19+15	0701					1															
	0701	0702																			
Y2 19+23	0702																				
Y2 20+54	0703																				
Y2 21+81	0704																				
Y2 23+28	0705																				
Y2 24+12	0706																				
Y2 24+45	0707					1															
	0707	0711																			
Y2 27+99	0708					1														1	
	0708	0709																			
Y2 28+02	0709																				
Y1 57+68	0710					1	1.4													1	
Y2 24+55	0711					1															
SHEET TOTALS						6	2.2													2	
PROJECT TOTALS						6	2.2													2	

LINE & STATION	FROM	TO	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	DRIVEWAY D.I. STD. 840.30	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30	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	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING C.B. TO D.I.	CONVERT EXISTING D.I. TO J.B.	CONVERT EXISTING J.B. TO D.I.	ADJUST C.B.	ADJUST G.D.I.
Y2 17+63	0601																1	1							
	0601	0602																							
Y2 17+59	0602																								
Y2 19+15	0701																1	1							
	0701	0702																							
Y2 19+23	0702																		1			1			
Y2 20+54	0703																	1							1
Y2 21+81	0704																	1							1
Y2 23+28	0705																	1							1
Y2 24+12	0706																	1							1
Y2 24+45	0707																1	1							
	0707	0711																							
Y2 27+99	0708					1																			
	0708	0709																							
Y2 28+02	0709																	1							1
Y1 57+68	0710					1																			
Y2 24+55	0711																1	1							
SHEET TOTALS						2											4	9	1			1			5
PROJECT TOTALS						2											4	9	1			1			5

LINE & STATION	FROM	TO	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
Y2 17+63	0601						
	0601	0602					
Y2 17+59	0602			0.5526			
Y2 19+15	0701						
	0701	0702					
Y2 19+23	0702						
Y2 20+54	0703						
Y2 21+81	0704						
Y2 23+28	0705						
Y2 24+12	0706						
Y2 24+45	0707						
	0707	0711					
Y2 27+99	0708						
	0708	0709					
Y2 28+02	0709						
Y1 57+68	0710						
Y2 24+55	0711						
SHEET TOTALS				0.5526			
PROJECT TOTALS				0.5526			

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