M60TICIVIL122

COMPUTED BY:	MAT	DATE:	4/30/2018
CHECKED BY:	DCM	DATE:	4/30/2018

PROJECT NO.	SHEET NO.
U-5114	3D-7

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	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %
Y 14+10	36	RT	0806		793.6			
			0806	0808		789.9	786.2	
Y 14+83	30	LT	0807		791.9			
			0807	0813		788.2	784.9	0.9
Y 15+64	36	RT	0808		789.9			
			0808	0809		786.2	786.1	
Y 15+71	36	RT	0809		789.8			
			0809	0816		786.1	783.1	
Y 16+01	96	RT	0810		789.5			
			0810	0812		786.0	785.7	0.4
Y 16+08	89	RT	0811		789.3			
			0811	0815		785.3	784.9	0.7
Y 16+08	96	RT	0812		789.4			
			0812	0811		785.4	785.3	0.7
Y 16+08	59	RT						
Y 16+20	30	LT	0813		788.9			
			0813	0818		784.9	781.2	
Y 16+42	21	LT						
Y 16+43	21	RT						
Y 16+43	22	LT						
Y 16+60	96	RT	0814		789.3			
			0814	0815		785.5	785.1	
Y 16+60	89	RT	0815		789.3			
			0815	0816		784.9	782.9	0.9
Y 17+12	36	RT	0816		787.4			
			0816	0817		782.4	781.7	0.3
Y 17+41	20	LT						
Y 17+42	22	RT						
Y 17+43	22	LT						
Y 17+57	36	RT	0817		787.0			
			0817	0818		781.7	781.4	0.4
Y 17+58	32	LT	0818		786.2			
			0818	0822		780.2	778.5	0.4
Y 17+75	60	RT	0819		788.6			
			0819	0820		785.3	785.0	
Y 17+78	52	RT	0820		789.2			
			0820	0817		785.0	783.0	
Y 18+33	34	LT	0822		784.3			
			0822	0824		778.5	774.9	0.4
Y 19+59	58	RT	0823		783.7			
			0823	0828		779.7	778.1	0.3
Y 19+55	37	RT						
Y 19+59	58	RT						
Y 19+93	38	LT	0824		780.3			
			0824	0830		772.9	772.2	0.6
Y 19+93	20	LT	0825		776.2			
			0825	0824		774.2	773.4	
Y 19+94	22	LT						
Y 19+95	6	RT	0826		781.7			
Y 19+96	34	RT	0827		778.9			

Line & Station	Offset	From	To	HDPE PIPE 30	HDPE PIPE	C.S. PIPE 12 (.064)	C.S. PIPE 15 (.064)	C.S. PIPE 18 (.064)	R.C. PIPE CLASS III 12	CLASS III 15	CLASS III 18	CLASS III 24	CLASS III 30	CLASS III 36	CLASS III 42	CLASS III 48	CLASS III 48	R.C. PIPE CLASS IV 12	CLASS IV 15	CLASS IV 18	CLASS IV 24	CLASS IV 30	CLASS IV 36	CLASS IV 42	CLASS IV 48	CLASS IV	R.C. PIPE CLASS V 12	CLASS V 15	CLASS V 30	CLASS V 36	CLASS V 42	CLASS V 48	CLASS V
Y 14+10	36 RT	0806																															
		0806	0808																152														
Y 14+83	30 LT	0807																															
		0807	0813																	136													
Y 15+64	36 RT	0808																															
		0808	0809																	4													
Y 15+71	36 RT	0809																															
		0809	0816																144														
Y 16+01	96 RT	0810																															
		0810	0812							8																							
Y 16+08	89 RT	0811																															
		0811	0815																	48													
Y 16+08	96 RT	0812																															
		0812	0811																	4													
Y 16+08	59 RT																																
Y 16+20	30 LT	0813																															
		0813	0818																	136													
Y 16+42	21 LT																																
Y 16+43	21 RT																																
Y 16+43	22 LT																																
Y 16+60	96 RT	0814																															
		0814	0815																4														
Y 16+60	89 RT	0815																															
		0815	0816								76																						
Y 17+12	36 RT	0816																															
		0816	0817																		44												
Y 17+41	20 LT																																
Y 17+42	22 RT																																
Y 17+43	22 LT																																
Y 17+57	36 RT	0817																															
		0817	0818																		68												
Y 17+58	32 LT	0818																															
		0818	0822																			72											
Y 17+75	60 RT	0819																															
		0819	0820							8																							
Y 17+78	52 RT	0820																															
		0820	0817							28																							
Y 18+33	34 LT	0822																															
		0822	0824										156																				
Y 19+59	58 RT	0823																															
		0823	0828																44														
Y 19+55	37 RT																																
Y 19+59	58 RT																																
Y 19+93	38 LT	0824																															
		0824	0830										28																				
Y 19+93	20 LT	0825																															
		0825	0824									20																					
Y 19+94	22 LT																																
Y 19+95	6 RT	0826																															
Y 19+96	34 RT	0827																															
SHEET TOTALS										44	76	20	184						344	328	112	72											

Line & Station	Offset	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 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. (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	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54
Y 14+10	36 RT	0806					1			1		1																							
		0806	0808																																
Y 14+83	30 LT	0807					1			1			1																						
		0807	0813																																
Y 15+64	36 RT	0808					1			1		1																							
		0808	0809																																
Y 15+71	36 RT	0809					1			1		1																							
		0809	0816																																
Y 16+01	96 RT	0810					1												1	1															
		0810	0812																																
Y 16+08	89 RT	0811					1			1			1																						
		0811	0815																																
Y 16+08	96 RT	0812					1			1			1																						
		0812	0811																																
Y 16+08	59 RT																																		
Y 16+20	30 LT	0813					1			1			1																						
		0813	0818																																
Y 16+42	21 LT																																		
Y 16+43	21 RT																																		
Y 16+43	22 LT																																		
Y 16+60	96 RT	0814					1			1		1																							
		0814	0815																																
Y 16+60	89 RT	0815					1			1		1																							
		0815	0816																																
Y 17+12	36 RT	0816					1	0.1		1		1																							
		0816	0817																																
Y 17+41	20 LT																																		
Y 17+42	22 RT																																		
Y 17+43	22 LT																																		
Y 17+57	36 RT	0817					1	0.3		1		1																							
		0817	0818																																
Y 17+58	32 LT	0818					1	0.9		1			1																						
		0818	0822																																
Y 17+75	60 RT	0819					1			1	1																								
		0819	0820																																
Y 17+78	52 RT	0820					1																							1					1	
		0820	0817																																
Y 18+33	34 LT	0822					1	0.8		1			1																						
		0822	0824																																
Y 19+59	58 RT	0823					1			1	1																								
		0823	0828																																
Y 19+55	37 RT																																		
Y 19+59	58 RT																																		
Y 19+93	38 LT	0824					1	2.5		1			1																						
		0824	0830																																
Y 19+93	20 LT	0825																																	
		0825	0824																																
Y 19+94	22 LT																																		
Y 19+95	6 RT	0826					1	1.2		1			1			1																			
Y 19+96	34 RT	0827																																	
SHEET TOTALS							19	5.8		17	2	7	8			1			1	1										1					1	

Line & Station	Offset	From	To		CONVERT EXISTING D.I. TO C.B.	15" PIPE END SECTION	CONVERT EXISTING C.B. TO T.B.J.B.	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 D.I.	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	30" C.S. ELBOW	PREFORMED SCOUR HOLE (PER EACH)	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
Y 14+10	36 RT	0806																					
		0806	0808																				
Y 14+83	30 LT	0807																					
		0807	0813																				
Y 15+64	36 RT	0808																					
		0808	0809																				
Y 15+71	36 RT	0809																					
		0809	0816																				
Y 16+01	96 RT	0810																					
		0810	0812																				
Y 16+08	89 RT	0811																					
		0811	0815																				
Y 16+08	96 RT	0812																					
		0812	0811																				
Y 16+08	59 RT																			2				
Y 16+20	30 LT	0813																					
		0813	0818																				
Y 16+42	21 LT																			5				
Y 16+43	21 RT																			2				
Y 16+43	22 LT																			4				
Y 16+60	96 RT	0814																					
		0814	0815																				
Y 16+60	89 RT	0815																					
		0815	0816																				
Y 17+12	36 RT	0816																					
		0816	0817																				
Y 17+41	20 LT																			2				
Y 17+42	22 RT																			1				
Y 17+43	22 LT																			29				
Y 17+57	36 RT	0817																					
		0817	0818																				
Y 17+58	32 LT	0818																					
		0818	0822																				
Y 17+75	60 RT	0819																					
		0819	0820																				
Y 17+78	52 RT	0820																					
		0820	0817																				
Y 18+33	34 LT	0822																					
		0822	0824																				
Y 19+59	58 RT	0823																					
		0823	0828																				
Y 19+55	37 RT																			2				
Y 19+59	58 RT																			1				
Y 19+93	38 LT	0824																					
		0824	0830																				
Y 19+93	20 LT	0825																			0.5526			
		0825	0824																				
Y 19+94	22 LT																			5				
Y 19+95	6 RT	0826																					
Y 19+96	34 RT	0827																			0.5526			
SHEET TOTALS																			53	1.1052			

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