RD266446

COMPUTED BY:	CRAIG FREEMAN	DATE:	10/21/14
CHECKED BY:	D. GARDNER	DATE:	12/12/16

PROJECT NO.	SHEET NO.
U-3621A	3D-2

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 %	Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) 12	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	C. S. PIPE 12 .064	15 .064	18 .064	24 .064	30 .079	36 .079	42 .109	48 .109
			0509	0507		135.8	134.4																						
L 42+28	39	RT	0510		137.3																								
			0510	0511		133.6	132.8																						
			0511	0528		131.1	130.9																						
L 43+04	40	RT	0511		136.6																								
L 45+95	40	RT	0512		139.2																								
			0512	0531		136.1	133.6																						
			0513	0504		137.0	136.8																						
L 49+69	39	RT	0513		139.8																								
L 44+43	49	RT	0514		137.3																								
			0514	0528		133.4	134.2	0.3																					
L 45+20	7	RT	0515		138.7																								
			0515	0535		135.7	135.5																						
			0516	0541		134.6	133.0	0.6																					
Y3 10+40	19	RT	0516		137.8																								
			0517	0523		132.6	132.0	0.9																					
Y3 10+47	19	LT	0517		137.8																								
Y4 14+21	17	RT	0518		139.1																								
			0518	0525		135.9	135.5																						
Y4 14+21	17	LT	0519		139.1																								
			0519	0518		136.0	135.9																						
L 39+93	80	LT	0521		139.1																								
			0521	0534		136.6	136.1																						
L 42+29	9	LT	0522		136.9																								
			0522	0510		133.8	133.6																						
Y3 11+00	19	LT	0523		138.6																								
			0523	0524		132.0	131.7																						
L 43+04	58	LT	0524		138.6																								
			0524	0503		131.7	131.3	0.4																					
Y4 14+25	39	RT	0525		138.2																								
			0525	0527		135.5	134.8																						
Y4 14+16	34	RT	0526	0525		136.0	135.5																						
L 43+71	67	LT	0527		138.0																								
			0527	0524		134.8	134.2																						
L 43+70	39	RT	0528		137.2																								
			0528	0529		130.9	130.8																						
L 47+57	38	RT	0530		140.3																								
			0530	0512		136.9	136.1																						
L 44+70	77	RT	0531		136.7																								
			0531	0514		133.6	133.4																						
L 40+80	62	LT	0532		138.4																								
			0532	0533		136.1	136.0	0.3																					
L 40+84	40	LT	0533		140.5																								
			0533	0509		135.9	135.8																						
L 40+16	39	LT	0534		139.4																								
			0534	0533		136.1	135.9																						
L 46+02	2	RT	0535		139.3																								
			0535	0512		136.3	135.7																						
L 49+46	57	RT	0536		139.6																								
								SHEET TOTALS																					

STRUCTURE FROM	STRUCTURE TO	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" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE
0509	0507												52							
0510																				
0510	0511												76							
0511	0528														68					
0511																				
0512																				
0512	0531										128									
0513	0504										80									
0513																				
0514																				
0514	0528										72									
0515																				
0515	0535										84									
0516	0541											36								
0516																				
0517	0523											56								
0517																				
0518																				
0518	0525										24									
0519																				
0519	0518										36									
0521																				
0521	0534											48								
0522																				
0522	0510										52									
0523																				
0523	0524												68							
0524																				
0524	0503												52							
0525																				
0525	0527											44								
0526	0525										12									
0527																				
0527	0524											72								
0528																				
0528	0529														16					
0530																				
0530	0512										164									
0531																				
0531	0514										40									
0532																				
0532	0533										24									
0533																				
0533	0509												32							
0534																				
0534	0533											68								
0535																				
0535	0512										40									
0536																				
SHEET TOTALS											756	324	280		84					

STRUCTURE FROM	STRUCTURE TO	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	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16											J.B. STD. 840.31 OR STD. 840.32					M.H. FRAME AND COVER STD. 840.54						MIN. DEPTH C.B. (SEE DETAIL SHEET 2C-3)			FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
0509	0507																																								
0510		1			1		1																																		
0510	0511																																								
0511	0528																																								
0511		1	0.5		1	1																																			
0512		1			1			1																																	
0512	0531																																								
0513	0504																																								
0513		1				1																													1						
0514		1			1			1																																	
0514	0528																																								
0515		1								1		1	1																												
0515	0535																																								
0516	0541																																								
0516		1			1	1																																			
0517	0523																																								
0517		1	0.2		1	1																																			
0518		1			1			1																																	
0518	0525																																								
0519		1			1		1																																		
0519	0518																																								
0521		1										1	1																												REMOVE EXISTING DI
0521	0534																																								
0522		1			1			1			1																														
0522	0510																																								
0523		1	1.6		1		1																																		
0523	0524																																								
0524		1	1.9																					1					1												
0524	0503																																								
0525		1																						1					1												
0525	0527																																								
0526	0525																																								
0527		1										1	1																												
0527	0524																																								
0528		1	1.3		1			1																																	
0528	0529																																								
0530		1			1			1																																	
0530	0512																																								
0531		1						1																											1						
0531	0514																																								
0532		1										1	1																												
0532	0533																																								
0533		1			1			1																																	
0533	0509																																								
0534		1			1			1																																	
0534	0533																																								
0535		1			1		1				1																														
0535	0512																																								
0536		1										1	1																												
SHEET TOTALS		24	5.5		15	4	4	9		1	2	5	5											2					2						2						

NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)

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