RAL-GTPH6L3

COMPUTED BY: CGM DATE: 08/26/2024

CHECKED BY: JJM DATE: 08/26/2024

PROJECT NO.	SHEET NO.
R-5726	3D-10

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 %	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	R. C. PIPE CLASS III 15	18	24	30	36		R. C. PIPE CLASS IV 15	18	24	30	36	42	48	R. C. PIPE CLASS V 24	30	36	42	48
L 191+08	76 LT	1752		581.9																																		
		1752	1753		570.0	567.1																																
L 190+86	23 RT	1753		571.6																																		
		1753	1750		567.1	554.9																														144			
L 192+25	68 RT	1761		590.1																																		
		1761	1760		584.8	556.0	1.5			100						X	X	X		X																		
L 201+00	71 LT	1805		617.5																																		
		1805	1806		614.5	608.9																							296										
L 198+00	55 LT	1806		611.9																																		
		1806	1807		608.9	601.9																							180										
L 196+16	55 LT	1807		605.4																																		
		1807	1808		601.9	601.7	0.3																						12										
L 196+02	55 LT	1808		604.7																																		
		1808	1810		601.7	595.3	0.3																						100										
L 195+00	69 LT	1810		598.5																																		
		1810	1809		595.3	595.0	0.4																						52										
L 194+95	0 CL	1811		601.2																																		
		1811	1718		597.8	585.0																268																
L 195+65	10 RT	1812		603.8																																		
		1812	1811		600.8	597.8																68																
L 199+00	0 CL	1813		614.7																																		
		1813	1812		609.0	600.8																332																
L 199+00	71 RT	1821		612.2																																		
		1821	1813		609.2	609.0																72																
L 206+75	10 LT	1910		621.8																																		
		1910	1911		619.0	618.4																						64											
L 207+35	11 RT	1911		621.5																																		
		1911	1912		618.1	617.8																64																
L 211+78	0 CL	1915		614.5																																		
		1915	1914		612.3	611.9																88																
L 215+41	0 CL	1917		617.0																																		
		1917	1918		612.2	611.5	0.5																124															
L 220+50	0 CL	2010		631.2																																		
		2010	1917		626.5	612.2	0.3																508															
L 226+00	0 CL	2012		647.4																																		
		2012	2010		644.1	627.0	0.4															548																
L 220+50	71 LT	2020		631.0																																		
		2020	2010		628.0	627.0																72																
L 220+50	71 RT	2021		633.1																																		
		2021	2010		630.1	627.0																72																
L 226+00	71 LT	2030		647.3																																		
		2030	2012		644.3	644.1																72																
L 226+00	71 RT	2031		648.4																																		
		2031	2012		645.4	644.1																72																
L 234+90	18 LT	2109		653.2																																		
		2109	2110		650.0	648.4																						100											
L 233+90	0 CL	2110		651.2																																		
		2110	2111		648.1	646.5																84																
L 241+50	9 LT	2114		646.9																																		
		2114	2115		644.8	643.7																							84										
SHEET TOTALS										100												1812	632					164	724							144			

LINE & STATION	FROM	TO	24" WELDED STEEL PIPE 0.25" THICK 50% IN SOIL, 50% NOT IN SOIL	30" WELDED STEEL PIPE 0.375" THICK IN SOIL	30" WELDED STEEL PIPE 0.375" THICK NOT IN SOIL	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
L 191+08	1752								1	5.0	1.9							
	1752	1753		50	50													
L 190+86	1753								1									
	1753	1750																
L 192+25	1761								1	0.3								
	1761	1760																
L 201+00	1805								1									
	1805	1806																
L 198+00	1806								1									
	1806	1807																
L 196+16	1807								1									
	1807	1808																
L 196+02	1808								1									
	1808	1810																
L 195+00	1810								1									
	1810	1809																
L 194+95	1811								1								1	
	1811	1718																
L 195+65	1812								1									
	1812	1811																
L 199+00	1813								1	0.7								
	1813	1812																
L 199+00	1821								1									
	1821	1813																
L 206+75	1910								1									
	1910	1911																
L 207+35	1911								1								1	
	1911	1912																
L 211+78	1915								1									
	1915	1914																
L 215+41	1917								1									
	1917	1918																
L 220+50	2010								1									
	2010	1917																
L 226+00	2012								1									
	2012	2010																
L 220+50	2020								1									
	2020	2010																
L 220+50	2021								1									
	2021	2010																
L 226+00	2030								1									
	2030	2012																
L 226+00	2031								1									
	2031	2012																
L 234+90	2109								1								1	
	2109	2110																
L 233+90	2110								1									
	2110	2111																
L 241+50	2114								1									
	2114	2115																
SHEET TOTALS				50	50				25	6.0	1.9						3	

LINE & STATION	FROM	TO	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	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 W GRATE STD. 840.20	G.D.I.(W.S. FLAT) FR W/2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FR W/ GRATE STD. 840.22	G.D.I.(W.S. SAG) FR W/ 2 GRATES STD. 840.22	G.D.I. (N.S. FLAT) FR W/ GRATE STD. 840.29	G.D.I.(N.S. FLAT) FR W/2 GRATES STD. 840.29	J.B. STD. 840.31 OR STD. 840.32	ANGLED VANE GRATES & FRAMES STD. 840.33	T.B.J.B. STD. 840.34		M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54		CONV. EXIST. CB TO JB(SEE DETAIL SHEET 2C-11)	CONV. EXIST. CB TO DI(SEE DETAIL SHEET 2C-12)	CONVERT EXISTING D.I. TO J.B.	CONVERT EXISTING J.B. TO D.I.	BASIN OUTLET STR. (SEE DETAIL SHEET 2D-3)	TEMPORARY STEEL COVERS	FLOWABLE FILL CY	PIPE CLEAN OUT EA	CONCRETE / BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.	REMARKS
L 191+08	1752														1					1												
	1752	1753																														
L 190+86	1753																1															
	1753	1750																														
L 192+25	1761						1			1																						
	1761	1760																														
L 201+00	1805						1					1																				
	1805	1806																														
L 198+00	1806						1			1																						
	1806	1807																														
L 196+16	1807						1			1																						
	1807	1808																														
L 196+02	1808						1			1																						
	1808	1810																														
L 195+00	1810						1					1																				
	1810	1809																														
L 194+95	1811			1	1																											
	1811	1718																														
L 195+65	1812						1					1																				
	1812	1811																														
L 199+00	1813						1					1																				
	1813	1812																														
L 199+00	1821						1					1																				
	1821	1813																														
L 206+75	1910						1					1																				
	1910	1911																														
L 207+35	1911			1	1																											
	1911	1912																														
L 211+78	1915							1				1																			50	
	1915	1914																														
L 215+41	1917					1						1																				
	1917	1918																														
L 220+50	2010					1						1																				
	2010	1917																														
L 226+00	2012						1					1																				
	2012	2010																														
L 220+50	2020						1					1																				
	2020	2010																														
L 220+50	2021						1					1																				
	2021	2010																														
L 226+00	2030						1					1																				
	2030	2012																														
L 226+00	2031						1					1																				
	2031	2012																														
L 234+90	2109			1	1																											
	2109	2110																														
L 233+90	2110						1					1																				
	2110	2111																														
L 241+50	2114							1				1																			24	
	2114	2115																														
SHEET TOTALS				3	3	2	16	2		4		16			1		1			1											74	

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