RAL-2TK9479H9P

COMPUTED BY:	MKD	DATE:	09/13/2021
CHECKED BY:	WDY	DATE:	09/14/2021

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U2579-AB	3D-7

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 %	Side Drain Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE) 15	18	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	DO NOT USE PP PIPE
Y4RPA 21+22	21 LT	6148		938.3											
		6148	6150		935.3	932.8									
Y4RPA 21+50	21 LT	6149		939.6											
		6149	6148		936.6	935.3									
Y4SPC 22+00	14 LT	6151		959.4											
		6151	6152		956.4	956.1									
Y4SPC 22+60	14 LT	6152		962.0											
		6152	0699		956.1	955.8									
Y4 37+35	109 LT	6153		945.5											
		6153	6144		943.1	937.3									
Y6 18+90	18 RT	0702													
		0702	0703		942.3	929.8	0.6			x			x	x	x
Y4RPC 14+21	44 LT	0703		933.3											
		0703	0704		929.3	924.1	0.5								
L 733+65	0 CL	0704		937.1											
		0704	0723		923.1	922.5									
L 737+00	84 LT	0707		934.1											
		0707	0726		930.0	914.5				x			x	x	x
L 737+00	103 RT	0708		930.0											
		0708	0762		927.4	927.3									
L 737+00	155 RT	0709													
		0709	0708		939.2	927.7	0.5			x			x	x	x
Y4RPC 10+56	173 LT	0711						36							
L 737+00	0 CL	0712		932.7											
		0712	0714		926.9	917.0	0.4								
L 740+50	0 CL	0714		923.9											
		0714	0753		916.5	906.6	0.4								
L 740+50	106 RT	0715		920.4											
		0715	0763		917.6	917.4	0.3								
L 743+00	0 CL	0717		917.5											
		0717	0719		914.7	906.7									
L 744+00	84 RT	0718		914.7											
		0718	0729		907.8	907.1	0.7								
L 745+00	0 CL	0719		912.3											
		0719	0822		906.4	903.8	0.8								
L 734+00	115 LT	0723		933.1											
		0723	0724		922.5	922.3	0.4								
L 736+67	84 LT	0725		934.7											
		0725	0707		930.6	930.0									
L 740+52	132 RT	0727													
		0727	0715		924.5	917.8	0.6								
L 744+00	115 RT	0728		910.7											
		0728	0718		908.0	907.8									
L 745+00	84 RT	0729		912.1											
		0729	0719		906.9	906.4	0.4								
Y4RPD 11+83	78 RT	0731													
		0731	0758		919.4	910.5									
SRI 16+43	46 LT	0732													
SR1 20+74	22 LT	0750		900.5											
						SHEET TOTALS		36							

LINE & STATION	C. S. PIPE 15 .064	18 .064	24 .064	30 .079	36 .079	42 .109	R. C. PIPE CLASS III 12	15	18	24	30	36	42	48
Y4RPA 21+22														
								52						
Y4RPA 21+50														
								28						
Y4SPC 22+00														
								60						
Y4SPC 22+60														
								56						
Y4 37+35														
								108						
Y6 18+90														
			64											
Y4RPC 14+21														
										128				
L 733+65														
											120			
L 737+00														
L 737+00														
									24					
L 737+00														
Y4RPC 10+56														
L 737+00														
									348					
L 740+50														
										112				
L 740+50														
									24					
L 743+00														
								196						
L 744+00														
								96						
L 745+00														
									196					
L 734+00														
											52			
L 736+67														
													32	
L 740+52														
L 744+00														
								32						
L 745+00														
									84					
Y4RPD 11+83														
												160		
SRI 16+43														
SR1 20+74														
SHEET TOTALS	108		152					628	676	240		172	160	

LINE & STATION	R. C. PIPE CLASS IV 15	18	24	30	36	42	48	R. C. PIPE CLASS V 42	24" WELDED STEEL PIPE, IN SOIL (OUT OF SOIL)	30" WELDED STEEL PIPE, IN SOIL (OUT OF SOIL)	42" WELDED STEEL PIPE, IN SOIL (OUT OF SOIL)	48" WELDED STEEL PIPE, IN SOIL (OUT OF SOIL)	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) A: 0' THRU 5' EACH	A: 5' THRU 10' LIN. FT.	A: 10' AND ABOVE LIN. FT.	C.B. STD. 840.01 OR STD. 840.02
Y4RPA 21+22														1			1
Y4RPA 21+50																	1
Y4SPC 22+00														1			1
Y4SPC 22+60														1			1
Y4 37+35														1			
Y6 18+90																	
Y4RPC 14+21														1			
L 733+65														1	5.0	4.0	
L 737+00														1			
L 737+00														1			
L 737+00																	
Y4RPC 10+56																	
L 737+00														1	0.8		
L 740+50														1	2.4		
L 740+50														1			
L 743+00														1			
L 744+00														1	1.8		
L 745+00														1	0.9		
L 734+00														1	5.0	0.6	
L 736+67														1			
L 740+52																	
L 744+00														1			
L 745+00														1	0.2		
Y4RPD 11+83													1,990				
SRI 16+43																	
SR1 20+74														1			
SHEET TOTALS													1,990	19	16.1	4.6	4

LINE & STATION	FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E	F	G	CONCRETE TRANSITIONAL	D.I. STD. 852.04 OR STD. 852.06	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/ 2 GRA. STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ GRA. STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ 2 GRA. STD. 840.22	G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FRAME W/ 2 GRA. STD. 840.24	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	PIPE CLEANOUT (PER EACH)	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.	ADJUST D.I.	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	30" C.S. ELBOW	36" C.S. ELBOW	42" C.S. ELBOW	BERM DITCH OUTLET STD. 850.10 (PER EACH)	##" SLUICE GATE (42" SIZE SLUICE GATE)	TRASH RACK	PREFORMED SCOUR HOLE (PER EACH)	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
Y4RPA 21+22			1																																									
Y4RPA 21+50			1																																									
Y4SPC 22+00		1																																										
Y4SPC 22+60		1																																										
Y4 37+35										1				1							1																							
Y6 18+90																																					1							BDO
																																		2										
Y4RPC 14+21										1				1																													950	950' PIPE REMOVAL FOR ALL OF SHEET 7
L 733+65										1				1																														
L 737+00										1				1																														
																													2															
L 737+00										1				1																														
																																					1							BDO
																													2															
Y4RPC 10+56																																												
L 737+00										1				1																														
L 740+50										1				1																														
L 740+50										1				1																														
L 743+00										1				1																														
L 744+00										1		1																																
L 745+00										1				1																														
L 734+00										1				1																														
L 736+67										1		1																																
L 740+52																																					1							BDO
L 744+00										1				1																														
L 745+00										1		1																																
Y4RPD 11+83																																												HEADWALL
SRI 16+43																																												
SR1 20+74										1				1																														
SHEET TOTALS		2	2							16		3		13							1					4		2				3									950	

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