RAL-2TK9470H0P

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-2

**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	C. S. PIPE 15 .064	18 .064	24 .064	30 .079	36 .079	42 .109
		0530	0510		939.3	939.2	0.3														
Y1B 15+00	34 RT	0532						28													
Y1B 16+31	39 RT	0533						28													
Y1B 17+54	45 RT	0534						24													
Y1B 16+00	28 LT	0535						36													
Y1B 18+00	0 CL	0536	0531																		
Y1B 25+35	37 LT	0601		943.5																	
		0601	0602		941.3	940.4															
Y1B 25+35	14 LT	0602		945.3																	
		0602	0530		939.6	939.3	0.3														
Y1B 26+13	14 LT	0604		945.2																	
		0604	0602		939.9	939.6															
Y1B 27+43	14 LT	0605		945.5																	
		0605	0604		941.5	940.4	0.8														
Y1B 27+43	34 LT	0606		944.1																	
		0606	0605		941.9	941.7															
EY3A 21+62	30 RT	0607		958.3																	
		0607	0678		953.4	952.7															
Y1B 28+31	35 LT	0608		944.8																	
		0608	0609		942.5	942.4															
Y1B 28+30	14 LT	0609		946.2																	
		0609	0605		942.1	941.5	0.6														
Y4 40+96	93 LT	0610		936.0																	
		0610	0613		935.5	935.3															
Y1B 29+22	32 LT	0611		947.0																	
		0611	0612		944.8	944.5															
Y1B 29+17	17 LT	0612		947.5																	
		0612	0621		944.3	943.5															
Y4 40+84	53 LT	0613		943.9																	
		0613	0655		935.3	933.3	0.4														
Y1B 30+70	32 LT	0614		951.0																	
		0614	0615		948.8	948.6															
Y1B 30+70	14 LT	0615		951.6																	
		0615	0612		948.4	944.3															
Y4 38+39	41 RT	0616		942.8																	
		0616	0660		938.6	938.3															
Y4 39+80	41 RT	0617		943.3																	
		0617	0655		937.9	935.0															
Y4 39+80	53 LT	0618		942.6																	
		0618	0613		937.7	936.3	0.4														
Y1B 32+65	32 LT	0619		956.3																	
		0619	0620		954.0	953.8															
Y1B 32+65	14 LT	0620		956.8																	
		0620	0615		953.8	948.6															
Y1B 28+69	17 LT	0621		946.7																	
		0621	6124		943.5	943.2	0.5														
Y4RPA 10+64	90 LT	0622																			
		0622	0627		933.0	911.7	0.5													64			
Y1B 35+83	40 LT	0623		956.8																	
SHEET TOTALS								116										64			

FROM	TO	R. C. PIPE CLASS III 12	15	18	24	30	36	42	48	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
0530	0510				24																	
0532																						
0533																						
0534																						
0535																						
0536	0531			84																		
0601																						
0601	0602		24																			
0602																						
0602	0530											120										
0604																						
0604	0602											76										
0605																						
0605	0604										128											
0606																						
0606	0605		20																			
0607																						
0607	0678									12												
0608																						
0608	0609		20																			
0609																						
0609	0605										84											
0610																						3.400
0610	0613													44								
0611																						
0611	0612		16																			
0612																						
0612	0621										48											
0613																						
0613	0655													96								
0614																						
0614	0615		20																			
0615																						
0615	0612										152											
0616																						
0616	0660									60												
0617																						
0617	0655									76												
0618																						
0618	0613											104										
0619																						
0619	0620		16																			
0620																						
0620	0615									192												
0621																						
0621	6124										4											
0622																						
0622	0627																					
0623																						
SHEET TOTALS			116	84	24					340	416	300		140								3.400

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

FROM	TO	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	D.I. STD. 852.04 OR STD. 852.06 (CONCRETE TRANSITIONAL)	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
0530	0510																			
0532																				
0533																				
0534																				
0535																				
0536	0531																			
0601		1									1	1								
0601	0602																			
0602		1	0.6		1			1												
0602	0530																			
0604		1	0.3		1	1														
0604	0602																			
0605		1			1		1													
0605	0604																			
0606		1									1	1								
0606	0605																			
0607		1												1				1		
0607	0678																			
0608		1									1	1								
0608	0609																			
0609		1			1		1													
0609	0605																			
0610																				
0610	0613																			
0611		1									1	1								
0611	0612																			
0612		1			1		1													
0612	0621																			
0613		1	3.6		1		1													
0613	0655																			
0614		1									1	1								
0614	0615																			
0615		1			1		1													
0615	0612																			
0616		1			1		1													
0616	0660																			
0617		1	0.4		1			1												
0617	0655																			
0618		1			1		1													
0618	0613																			
0619		1									1	1								
0619	0620																			
0620		1			1		1													
0620	0615																			
0621		1			1		1													
0621	6124																			
0622																				
0622	0627																			
0623		1			1		1													
SHEET TOTALS		20	4.9		13	1	10	2			6	6		1				1		

FROM	TO	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
0530	0510																										
0532																											
0533																											
0534																											
0535																											
0536	0531																										
0601																										1916	1916' PIPE REMOVAL FOR ALL OF SHEET 6
0601	0602																										
0602																											
0602	0530																										
0604																											
0604	0602																										
0605																											
0605	0604																										
0606																											
0606	0605																										
0607																											
0607	0678																										
0608																											
0608	0609																										
0609																											
0609	0605																										
0610																											HEADWALL
0610	0613																										
0611																											
0611	0612																										
0612																											
0612	0621																										
0613																											
0613	0655																										
0614																											
0614	0615																										
0615																											
0615	0612																										
0616																											
0616	0660																										
0617																											
0617	0655																										
0618																											
0618	0613																										
0619																											
0619	0620																										
0620																											
0620	0615																										
0621																											
0621	6124																										
0622																			1								BDO
0622	0627														2												
0623																											
SHEET TOTALS															2				1							1916	

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