COMPUTED BY: LMJ	DATE: 3/9/2022	PROJECT NO.	SHEET NO.
CHECKED BY: WKJ	DATE: 5/4/2022	I-5987A	3D-24

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	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, or PVC) SIZE 15	18	24	30	36	42	48	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
THICKNESS OR GAUGE																		
		3127	3128		163.90	163.70												
LA2 475+62	91 LT	3127		166.40														
		3128	3129		163.70	163.50												
LA2 475+62	5 LT	3128		170.50														
LA2 475+62	91 RT	3129		166.00														
		3201	3202		166.00	165.90												
LA2 492+52	5 LT	3201		170.00														
		3202	3207		165.90	162.30												
LA2 492+52	2 RT	3202		170.00														
		3203	3205		166.50	166.30												
LA2 487+19	2 RT	3203		170.50														
		3204	3205		166.50	166.30												
LA2 486+38	2 RT	3204		170.50														
		3205	3206		166.30	163.50												
LA2 486+78	2 RT	3205		170.50														
LA2 488+67	1 RT																	
		3801	3802		174.90	161.80		56										
Y3 23+50	16 LT	3801		177.70														
		3803	3804		169.20	162.30		36										
Y3 21+90	16 LT	3803		172.00														
		3805	3806		174.80	171.90												
Y3 23+75	18 RT	3805		178.60														
		3806	3807		171.90	160.50		56										
Y3 22+95	18 RT	3806		175.60														
Y3 18+20	30 RT	3808							48									
Y3 22+45	65 RT																	
		3901	3902		161.00	160.80												
Y3 39+29	42 LT	3901		163.50														
Y3 39+29	42 RT	3902		163.30														
		3903	3904		161.00	160.80												
Y3 39+33	42 LT	3903		163.50														
Y3 39+33	42 RT	3904		163.30														
DR1 12+02	CL	3905																
TEMPORARY DRAINAGE																		
TOTALS																		
SHEET TOTAL								148	48	0	0	0	0	0	0	0	0	0
PROJECT TOTAL								1724	400	44	0	0	0	0	0	0	0	0

LINE & STATION	C. S. PIPE SIZE 15	18	24	30	36	42	48	R. C. PIPE CLASS III SIZE 15	18	24	30	36	42	48	R. C. PIPE CLASS IV SIZE 15	18	24	30	36	42	48
THICKNESS OR GAUGE	0.064	0.064	0.064	0.079	0.079	0.109	0.109														
																		88			
LA2 475+62																					
																		96			
LA2 475+62																					
LA2 475+62																					
															8						
LA2 492+52																					
LA2 492+52																					
															40						
LA2 487+19																					
															40						
LA2 486+38																					
LA2 486+78																					
LA2 488+67																					
Y3 23+50																					
Y3 21+90																					
															80						
Y3 23+75																					
Y3 22+95																					
Y3 18+20																					
Y3 22+45																					
											88										
Y3 39+29																					
Y3 39+29																					
											88										
Y3 39+33																					
Y3 39+33																					
DR1 12+02											120										
TEMPORARY DRAINAGE																					
TOTALS								160	124												
SHEET TOTAL	0	0	0	0	0	0	0	160	124	0	296	0	0	0	168	0	0	184	0	0	0
PROJECT TOTAL	1296	0	0	0	0	0	0	160	124	76	496	8	216	0	13796	3096	1716	1884	2056	1484	2284

| LINE & STATION | 16" WELDED STEEL PIPE 0.25" THICK, GRADE B IN SOIL | 18" WELDED STEEL PIPE 0.25" THICK, GRADE B IN SOIL | 24" WELDED STEEL PIPE 0.50" THICK, GRADE B IN SOIL | 30" WELDED STEEL PIPE 0.50" THICK, GRADE B IN SOIL | 36" WELDED STEEL PIPE 0.50" THICK, GRADE B IN SOIL | 42" WELDED STEEL PIPE 0.625" THICK, GRADE B IN SOIL | 48" WELDED STEEL PIPE 0.625" THICK, GRADE B IN SOIL | 16" WELDED STEEL PIPE 0.25" THICK, GRADE B NOT IN SOIL | 18" WELDED STEEL PIPE 0.25" THICK, GRADE B NOT IN SOIL | 24" WELDED STEEL PIPE 0.50" THICK, GRADE B NOT IN SOIL | 30" WELDED STEEL PIPE 0.50" THICK, GRADE B NOT IN SOIL | 36" WELDED STEEL PIPE 0.50" THICK, GRADE B NOT IN SOIL | 42" WELDED STEEL PIPE 0.625" THICK, GRADE B NOT IN SOIL | 48" WELDED STEEL PIPE 0.625" THICK, GRADE B NOT IN SOIL | ENDWALLS STD. 838.01 OR STD.838.11 (UNLESS OTHERWISE NOTED) CY | REINFORCED ENDWALLS CY | QUANTITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') PER EACH (0' THRU 5.0') | LIN.FT. A 5.0' THRU 10.0' | LIN.FT. B 10.0' AND ABOVE | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE 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 GRATE STD. 840.16 | G.D.I. TYPE "A" STD. 840.17 OR 840.26 | G.D.I. TYPE "B" STD. 840.18 OR 840.27 | G.D.I. TYPE "D" STD. 840.19 OR 840.28 | G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20 | G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22 | G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24 | J.B. STD. 840.31 OR 840.32 | T.B.J.B. STD. 840.24 | T.B.D.I. STD. 840.35 | T.B.D.I. FOR STEEL GRATES STD. 840.36 | STEEL FRAME AND TWO GRATES STD. 840.37 | M.H. STD. 840.51, STD. 840.52, OR STD.53 | M.H. FRAME AND COVER STD. 840.54 | TEMP STEEL PLATE COVER MASONARY DRAINAGE | 15" C.S. ELBOW | 15" SIDE DRAIN PIPE ELBOW | FLOWABLE FILL, C.Y. | PIPE REMOVAL, LIN. FT. | REMARKS |
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