

# Final Calculations - Hazen-Williams

SPRINKLER SYSTEMS INC.  
3 CANAL PLAZA THIRD FLOOR AREA 1

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Date

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
TYP to ARM	32.98 32.98	1.049 120.0 0.3283	2E T	4.0 5.0 0.0	2.500 9.000 11.500	17.000 0.0 3.776			K Factor = 8.00	
	0.0 32.98						20.776		K Factor = 7.24	
6 to 7	43.89 43.89	1.394 150.0 0.0923		0.0 0.0 0.0	18.000 0.0 18.000	36.785 0.0 1.662			K Factor @ node ARM	
									Vel = 9.23	
7 to 8	44.87 88.76	1.394 150.0 0.3396	2E T	9.523 9.523 0.0	36.500 19.046 55.546	38.447 0.0 18.865			K Factor @ node ARM	
	0.0 88.76						57.312		K Factor = 11.72	
ARM1 to 3	35.93 35.93	1.049 120.0 0.3846	3E T	6.0 5.0 0.0	5.000 11.000 16.000	20.167 0.0 6.153			K Factor = 8.00	
	0.0 35.93						26.320		K Factor = 7.00	
ARM2 to 2	33.64 33.64	1.049 120.0 0.3404	3E T	6.0 5.0 0.0	5.000 11.000 16.000	17.677 0.0 5.447			K Factor = 8.00	
	0.0 33.64						23.124		K Factor = 7.00	
ARM3 to 1	32.98 32.98	1.049 120.0 0.3284	3E T	6.0 5.0 0.0	5.000 11.000 16.000	17.000 0.0 5.254			K Factor = 8.00	
1 to 2	0.0 32.98	1.394 150.0 0.0544		0.0 0.0 0.0	16.000 0.0 16.000	22.254 0.0 0.870				Vel = 6.93
2 to 3	33.64 66.62	1.394 150.0 0.1998		0.0 0.0 0.0	16.000 0.0 16.000	23.124 0.0 3.196				Vel = 14.00
3 to 4	35.93 102.55	1.394 150.0 0.4436	E T	4.762 9.523 0.0	35.000 14.284 49.284	26.320 0.0 21.864				Vel = 21.56
4 to 5	0.0 102.55	1.394 150.0 0.4436	T	9.523 0.0 0.0	9.000 9.523 18.523	48.184 0.0 8.217				Vel = 21.56
5 to 8	0.0 102.55	2.003 150.0 0.0759		0.0 0.0 0.0	12.000 0.0 12.000	56.401 0.0 0.911				Vel = 10.44
8 to 9	88.76 191.31	2.003 150.0 0.2407	T	12.965 0.0 0.0	22.000 12.965 34.965	57.312 0.0 8.415				Vel = 19.48
9 to 10	0.0 191.31	2.003 150.0 0.2406	T	12.965 0.0 0.0	30.000 12.965 42.965	65.727 0.0 10.339				Vel = 19.48