

Upper Str. Type	Str. Number	Len. ft.	Area in ac	P.I. c.f.s.	D in	Total g.c.f.s.	Pipe Size in	Const. in	V in	Vh in	Q x Vh	Hyd. Grade	Flow Line Upper	Flow Line Lower	Top of Structure Upper	Top of Structure Lower	Free Board	Hydraulic Grade Line Upper	Hydraulic Grade Line Lower	Frict. Loss	Curve Loss	Junc. Loss	Entr. Loss	Angle (5 a)	Turn	Capacity c.f.s.	Q/Cap.	Normal Depth Ft.	
T	49	37	53	1.20	1.20	12	1.00x	1.53	0.04	0.04	0.11x	627.43	626.88	631.50	634.30	2.14	629.36	629.30	0.06			0.04	65	0.12	3.56	0.34	0.40		
T	48	46	86	2.28	2.28	12	1.00x	2.90	0.13	0.30	0.41x	622.30	621.64	627.50	626.50	2.46	625.04	624.69	0.35			0.13	90	0.23	3.56	0.64	0.58		
T	47	46	70	7.50	7.50	15	6.00x	6.11	0.58	4.35	1.35x	625.84	621.64	634.00	626.70	7.56	626.44	624.69	0.94			0.20	50	0.20	15.82	0.47	0.60		
AI	46	45	120	3.95	13.73	24	1.00x	4.37	0.30	4.07	0.37x	621.44	620.24	626.70	627.37	2.01	624.46	624.02	0.44			0.20	50	0.20	22.62	0.61	1.12		
AI	45	44	35	2.28	16.01	24	1.00x	5.10	0.40	6.46	0.50x	620.04	619.59	627.37	627.37	3.35	623.82	623.53	0.18			0.20	50	0.20	22.62	0.71	2.84		
CI	44	32	92.33	2.10	18.11	27	1.00x	4.55	0.32	5.83	0.34x	619.49	618.57	627.37	628.79	3.72	623.45	623.13	0.32			0.20	50	0.20	30.91	0.59	1.22		
T	43	42	35	1.71	1.71	15	1.00x	1.39	0.03	0.05	0.07x	616.89	616.54	621.53	621.53	3.10	618.43	618.40	0.02			0.11	0.03		6.46	0.26	0.44		
CI	42	29	125	1.41	3.12	15	4.60x	2.54	0.10	0.31	0.23x	616.34	610.59	621.53	621.00	3.13	618.29	618.00	0.29			0.11	0.03	0.44	13.85	0.23	0.40		
T	41	40	106.18	2.34	2.34	12	1.50x	2.98	0.14	0.32	0.43x	632.74	631.15	637.00	637.00	4.54	633.26	632.15	0.46			0.14	45	0.06	4.36	0.54	0.52		
MH	40	39	82.85	2.34	3.34	12	1.49x	2.98	0.14	0.32	0.43x	630.95	630.61	637.00	637.42	4.85	631.71	631.61	0.10			0.02	45	0.06	4.36	0.54	0.52		
CI	39	38	35	0.93	3.27	15	1.51x	2.66	0.11	0.36	0.26x	630.41	629.88	637.42	637.42	5.81	631.22	631.13	0.09			0.13	25	0.03	7.95	0.41	0.55		
CI	38	37	79.87	0.93	4.20	15	3.51x	3.42	0.18	0.76	0.42x	629.68	626.88	637.42	637.42	6.29	630.18	629.30	0.34			0.34	65	0.12	12.10	0.35	0.50		
CI	37	36	35	0.72	6.12	15	1.00x	4.99	0.39	2.36	0.90x	626.68	626.33	634.00	634.00	5.00	628.83	628.52	0.31			0.22	90	0.19	10.50	0.70	0.92		
CI	36	35	107	1.20	7.32	18	1.00x	4.14	0.27	1.95	0.49x	626.13	625.06	634.00	634.00	5.78	628.52	628.00	0.52			0.21	5	0.02	10.50	0.84	1.05		
AI	35	34	180	1.47	8.79	18	1.00x	4.97	0.38	3.38	1.00x	624.86	623.06	634.00	630.90	6.50	627.60	626.34	1.26			0.06	80	0.17	23.44	0.52	1.02		
AI	34	33	250	1.17	9.96	18	1.00x	5.64	0.49	4.91	0.90x	622.86	620.36	630.90	626.00	4.56	626.11	623.86	2.25			0.06	80	0.17	23.44	0.52	1.02		
AI	33	32	146.1	2.22	12.18	24	1.07x	3.88	0.23	2.84	0.29x	620.14	618.37	626.00	628.79	2.14	623.56	623.13	0.43			0.06	80	0.17	23.44	0.52	1.02		
CI	32	31	54	0.51	30.80	27	1.37x	7.75	0.93	28.70	0.99x	618.37	617.63	628.79	628.79	5.66	622.09	621.56	0.53			0.06	80	0.17	36.25	0.85	1.58		
CI	31	30	83.17	0.48	31.28	27	1.50x	7.87	0.96	30.06	1.02x	617.43	616.18	628.79	629.20	7.23	620.89	620.05	0.85			0.32	90	0.44	37.97	0.82	1.55		
MH	30	29	245	0.96	31.29	30	1.07x	6.37	0.65	19.72	0.30x	615.98	610.59	629.20	621.00	9.15	619.42	618.00	1.42			0.32	90	0.44	60.84	0.51	2.25		
AI	29	28	38.5	0.96	35.36	30	1.01x	7.20	0.81	28.49	0.74x	610.39	610.00	621.00	621.00	3.00	617.24	616.95	0.29			0.32	90	0.44	41.28	0.86	1.78		
T	26	21	36	38.23	38.23	30	5.30x	7.79	0.94	36.01	0.87x	608.00	606.02	617.72	619.50	7.21	610.51	610.20	0.31			0.94	90	0.97	96.19	0.40	1.08		
T	25	24	136	16.83	16.83	24	1.00x	5.36	0.45	7.50	0.55x	611.00	609.64	616.00	622.10	2.08	613.92	613.17	0.75			0.34	45	0.31	22.67	0.74	1.28		
AI	24	23	124.5	3.21	20.04	24	1.00x	6.38	0.63	12.66	0.78x	609.44	608.19	622.10	622.23	8.99	612.58	611.54	0.98			0.21	50	0.21	30.97	0.72	1.42		
CI	23	22	35	2.37	22.41	27	1.00x	5.64	0.49	11.05	0.52x	607.99	607.64	622.23	622.23	6.09	611.54	611.36	0.18			0.56	55	0.97	30.97	0.80	1.51		
CI	22	21	142	2.34	24.75	27	1.00x	6.22	0.60	14.89	0.64x	607.44	606.02	622.23	620.00	10.87	611.15	610.24	0.91			0.56	55	0.97	30.97	0.80	1.51		
MH	21	20	104	62.98	62.98	27	1.00x	8.91	1.23	77.63	0.89x	605.82	604.78	619.50	619.50	9.76	608.71	607.78	0.93			0.56	55	0.97	66.70	0.94	2.31		
T	19	18	105	2.34	2.34	12	0.75x	2.98	0.14	0.32	0.43x	631.01	630.22	635.00	635.00	2.19	632.81	632.36	0.45			0.05	0.14		3.09	0.76	0.65		
CI	18	17	35	2.34	4.68	18	0.74x	2.65	0.11	0.51	0.20x	630.12	629.86	635.00	635.80	3.44	632.30	632.23	0.07			0.08			9.05	0.52	0.75		
CI	17	16	127.5	2.34	7.02	21	0.73x	2.92	0.13	0.93	0.20x	629.76	628.80	635.00	635.50	3.57	632.15	631.90	0.25			0.09	60	0.07	13.75	0.51	0.88		
AI	16	13	240.21	3.04	10.04	24	0.75x	3.20	0.16	1.59	0.20x	628.70	626.90	635.00	632.90	3.60	631.74	631.27	0.47			0.09	60	0.07	19.58	0.51	1.00		
T	15	14	38	20.67	20.67	30	0.76x	3.20	0.42	8.67	0.45x	629.43	629.14	634.00	639.50	2.20	632.40	632.24	0.17			0.14	0.42	65	0.24	27.06	0.76	1.46	
MH	14	13	285	20.67	20.67	30	0.75x	4.21	0.28	5.69	0.25x	629.44	626.90	639.50	632.90	7.26	632.00	631.27	0.72			0.14	0.42	65	0.24	35.54	0.58	1.35	
AI	13	12	22	1.94	32.65	36	0.77x	4.62	0.33	10.82	0.24x	626.80	626.63	632.90	632.90	1.63	630.92	630.87	0.05			0.14	0.42	65	0.24	35.54	0.58	1.35	
T	11	10	120	3.24	3.24	12	2.00x	4.13	0.26	0.96	0.83x	633.04	630.64	638.50	640.04	4.88	633.62	632.45	0.99			0.05	0.26		5.04	0.64	0.58		
CI	10	9	35	0.99	4.23	15	1.00x	3.45	0.18	0.78	0.43x	630.44	630.09	640.04	640.04	7.59	632.45	632.30	0.15			0.05	0.26		5.04	0.64	0.58		
CI	9	4	202.62	0.27	4.50	15	1.76x	3.67	0.21	0.94	0.49x	629.89	626.45	640.04	632.40	7.74	632.24	631.26	0.98			0.05	0.26		90	0.15	8.42	0.53	0.65
T	61	8	40.51	15.82	15.82	21	1.26x	6.58	0.67	10.63	1.00x	634.47	633.96	637.88	638.50	1.77	636.11	635.71	0.40			0.04	0.67	50	0.34	17.78	0.89	1.28	
AI	8	7	64.44	1.20	17.02	24	1.30x	5.42	0.46	7.76	0.57x	633.01	632.17	638.50	638.50	2.79	634.53	634.17	0.36			0.04	0.67	50	0.34	25.83	0.66	1.18	
AI	7	6	125	0.39	17.41	24	1.30x	5.42	0.46	8.30	0.59x	631.97	630.34	638.50	639.64	4.33	633.67	632.93	0.74			0.16			25.83	0.67	1.20		
CI	6	5	35	1.50	18.91	24	1.31x	6.02	0.56	10.64	0.70x	630.14	629.68	639.64	639.64	6.71	632.76	632.52	0.24			0.16			25.93	0.73	1.26		
CI	5	4	137.5	1.35	20.26	24	2.20x	6.45	0.65	13.08	0.80x	629.48	626.45	639.64	632.40	7.12	632.38	631.26	1.10			0.05	0.15		33.98	0.60	1.10		
MH	4	3	30	24.76	24.76	27	1.00x	6.23	0.60	14.91	0.64x	626.25	625.95	632.4															