

HYDRAULIC DESIGN DATA SHEET

LINE NO.	NUMBER OF CUSTOMERS	STATION	TO STATION	PIPE DIA. INCHES	FLOW G. P. M.	HEAD LOSS FT./1000	TOTAL LOSS FOR REACH	ELEVATIONS MAX.	AT 2ND MIN.	STATION GR.	PRESSURE MAX., PSI	AT 2ND MIN., PSI
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	PEAK FLOW	FROM	TANK TO	END OF LINE 1								
1			39600					1160.00	1150.00	965.00	84.9	80.1
	269	39600	41400	6.0	135	1.458	2.62		1147.38	980.00	77.9	72.5
	242	41400	43800		120	1.173	2.82		1144.56	990.00	73.6	66.9
	234	43800	45200		117	1.12	1.57		1142.99	1003.00	68.0	60.6
	234	45200	50800		117	1.12	6.27		1136.72	990.00	73.6	63.5
	22	50800	53400		110	0.998	2.59		1134.13	990.00	73.6	62.4
	213	53400	54600		106	0.932	1.12		1133.01	980.00	77.9	66.2
	210	54600	55200		105	0.916	0.55		1132.46	960.00	86.6	74.7
	208	55200	55600		104	0.900	0.36		1132.10	940.00	95.2	83.2
	206	55600	56000		103	0.884	0.35		1131.75	960.00	86.6	74.4
	202	56000	56200		101	0.853	0.17		1131.58	970.00	82.3	70.0
	200	56200	56400		100	0.837	0.16		1131.42	980.00	77.9	65.5
	198	56400	58800		99	0.822	1.97		1129.43	990.00	73.6	60.4
	186	58800	61400		94	0.746	1.94		1127.51	1000.00	69.3	55.2
	173	61400	63400		88	0.661	1.32		1126.19	1005.00	67.1	52.5
	90	63400	64000		68	0.411	0.25		1125.94	1000.00	69.3	54.5
	80	64000	65200		66	0.388	0.47		1125.47	1010.00	64.9	50.0
	69	65200	67400		64	0.366	0.80		1124.67	1000.00	69.3	54.0
	35	67400	67800		52	0.250	0.10		1124.57	995.00	71.4	56.1
	32	67800	68000		51	0.241	0.05		1124.52	1003.00	68.0	52.6
	27	68000	71600		48	0.215	0.77		1123.75	1010.00	64.9	49.2
	6	71600	74400	6.0	26	0.069	0.19	1160.00	1123.56	1008.00	65.8	50.0
TANK TO SOLENOID, AVERAGE FLOW TO MILAN												
1			39600					1160.00	1150.00	965.00	84.4	80.1
	496	39600	39000	8.0	249	1.102	0.66	1160.00	1149.34	980.00	77.9	73.3
14		0	0					1160.00	1149.34	980.00	77.9	73.3
	26	0	2000	6.0	108	0.965	1.93	1160.00	1147.41	1000.00	69.3	63.8
	16	2000	4400	6.0	105	0.916	2.20	1160.00	1145.21	1000.00	69.3	62.9

NEW 100 M GAL. TANK
LINE 16 & 17

LINE 18

NEW 100 M GAL. TANK
LINE 14 & 15

LINE 1, STA. 39+00

MASTER METER, MILAN


PEAK FLOW

168 EXIST. HOMES FROM NEW TANK TO THE
END OF LINE 1 INCLUDING BRANCH LINES.
168 x 80% + 100% GROWTH = 269 DESIGN

269 DESIGN = 135 GPM

AVERAGE FLOW

ALLOWANCE FOR MILAN STORAGE FROM NEW
TANK = 100 GPM + .3 GPM/DESIGN IN
SERVICE AREA.

 <p>sloco, inc.</p> <p>CONSULTING ENGINEERS, ARCHITECTS, PLANNERS</p> <p>Columbus, Indiana Madison, Indiana Delaware, Ohio</p>	JOB	61140
	SHEET NO.	73 OF 83
	SCALE	N/A
	DATE	9-26-80
	DRAWN	DW
	CHECKED	WDS
	APPROVED	
CERTIFIED		
<p>ELROD WATER CO., INC. RIPLEY COUNTY, INDIANA SYSTEM IMPROVE - DIVISION A HYDRAULIC DESIGN DATA</p>		