

PLEASE NOTE: I SELECTED RANDOM ZONES WITH THE HIGHEST FLOWS TO ENSURE PRESSURES ARE SUFFICIENT. PRESSURE LOSS CHARTS CAN BE PROVIDED FOR ALL, IF NECESSARY.

Irrigation						
Quantity	Symbol	Description	Part Number	Pressure	Flow	Radius
Sprinklers						
11	●	Hunter 10F - PROS-04	10F	30 psi	1.59 gpm	10.8'
150	●	Hunter 10H - PROS-04	10H	30 psi	0.88 gpm	10.8'
209	●	Hunter 10Q - PROS-04	10Q	30 psi	0.42 gpm	10.8'
18	●	Hunter 12F - PROS-04	12F	30 psi	2.7 gpm	12.8'
82	●	Hunter 12H - PROS-04	12H	30 psi	1.3 gpm	12.8'
82	●	Hunter 12Q - PROS-04	12Q	30 psi	0.67 gpm	12.8'
1	●	Hunter 170 - PROS-04	170Q	30 psi	1.2 gpm	12.8'
24	●	Hunter 15F - PROS-04	15F	30 psi	3.75 gpm	15.8'
273	●	Hunter 15H - PROS-04	15H	30 psi	1.88 gpm	15.8'
163	●	Hunter 15Q - PROS-04	15Q	30 psi	0.97 gpm	15.8'
449	●	Hunter 5H - PROS-04	5H	30 psi	0.23 gpm	5.8'
340	●	Hunter 5Q - PROS-04	5Q	30 psi	0.12 gpm	5.8'
4	●	Hunter 8F - PROS-04	8F	30 psi	0.97 gpm	8.8'
273	●	Hunter 8H - PROS-04	8H	30 psi	0.47 gpm	8.8'
340	●	Hunter 8Q - PROS-04	8Q	30 psi	0.24 gpm	8.8'
30	●	Hunter CS-530 - PROS-04	CS-530	30 psi	1.3 gpm	30 x 5 ft
19	●	Hunter ES-515 - PROS-04	ES-515	30 psi	0.65 gpm	15 x 5 ft
35	●	Hunter PGP-1.5 Blue - PGP-ADJ 1.5	PGP-ADJ 1.5	45 psi	1.5 gpm	31.8'
2	●	Hunter PGP-2.0 Blue - PGP-ADJ 2	PGP-ADJ 2	45 psi	2 gpm	34.8'
26	●	Hunter PGP-3.0 Blue - PGP-ADJ 3	PGP-ADJ 3	45 psi	3 gpm	38.8'
9	●	Hunter PGP-4.0 Blue - PGP-ADJ 4	PGP-ADJ 4	45 psi	4 gpm	40.8'
10	●	Hunter PGP-5.0 Blue - PGP-ADJ 5	PGP-ADJ 5	45 psi	5 gpm	43.8'
8	●	Hunter SS-530 - PROS-04	SS-530	30 psi	1.3 gpm	30 x 5 ft
252	●	Introl Systems 533-90	533	30 psi	1.59 gpm	0.8'
Meters/Pumps						
1	M	2 inch meter				
1	M	2 inch meter				
Backflow Devices						
1	●	Febco 765 - 1 1/2"	765 - 1 1/2"			
Control Valves						
6	●	Hunter PGV-100G-S	PGV-100G-S			
1	●	Hunter PGV-101G-S	PGV-101G-S			
1	●	Hunter PGV-151 Globe	PGV-151 Globe			
41	●	Hunter PGV-201 Globe	PGV-201 Globe			
37	●	Rain Bird XC2-100-PRF	XC2-100-PRF			
Irrigation Accessories						
2	●	Hunter ACC-1200	ACC-1200			
2	●	Hunter Mini Click				
2	●	Nibco 2" isolation valve				
Lateral Line Pipe						
20016 ft	●	Class 315 1 1/4"				
6462 ft	●	Class 200 3/4"				
7714 ft	●	Class 200 1"				
5989 ft	●	Class 200 1 1/4"				
2448 ft	●	Class 200 1 1/2"				
2679 ft	●	Class 200 2"				
916 ft	●	Class 200 2 1/2"				
Mainline Pipe						
6 ft	●	Class 200 1 1/2"				
4525 ft	●	Class 200 2 1/2"				
Drip Tubing						
39945 ft	●	Rain Bird XFS-09-18	XFS-09-18			

Run Set: 21						
Water Source #1						
Type	Meter					
Static Pressure	60 psi					
Service Line	0 psi					
Master Valve Loss	1.252 psi					
Filter Loss	0 psi					
Mainline Components						
Backflow Loss	2.505 psi					
Master Valve Loss	1.919 psi					
Filter Loss	0 psi					
Zone 21 @ 40.22 gpm						
Mainline Loss	3.31 psi					
Valve Loss	1.978 psi					
Lateral Loss	2.591 psi					
Fittings Loss	0.50 psi					
Elevation	0 psi					
Sprinkler Requirement	30 psi					
Total Design Pressure	43.583 psi					
Residual Pressure	16.417 psi					

Water Source #1						
Type	12 inch meter					
Static Pressure	60 psi					
Elevation Change	0 ft					
Service Line Information						
Pipe Category	Poly 180					
Pipe Size	Poly 180 2"					
Length	5 ft					
Velocity	5 ft/s					
Recommendations						
Maximum Recommended Flow	32.29 gpm					
Available Working Pressure	84 psi					

Run Set: 22						
Water Source #1						
Type	Meter					
Static Pressure	60 psi					
Service Line	0 psi					
Master Valve Loss	1.209 psi					
Filter Loss	0 psi					
Mainline Components						
Backflow Loss	2.502 psi					
Master Valve Loss	1.981 psi					
Filter Loss	0 psi					
Zone 22 @ 40.09 gpm						
Mainline Loss	3.28 psi					
Valve Loss	1.991 psi					
Lateral Loss	4.283 psi					
Fittings Loss	0.757 psi					
Elevation	0 psi					
Sprinkler Requirement	30 psi					
Total Design Pressure	45.261 psi					
Residual Pressure	14.739 psi					

Water Source #2						
Type	12 inch meter					
Static Pressure	60 psi					
Elevation Change	0 ft					
Service Line Information						
Pipe Category	Poly 180					
Pipe Size	Poly 180 2"					
Length	5 ft					
Velocity	5 ft/s					
Recommendations						
Maximum Recommended Flow	32.29 gpm					
Available Working Pressure	84 psi					

Run Set: 23						
Water Source #1						
Type	Meter					
Static Pressure	60 psi					
Service Line	0 psi					
Master Valve Loss	1.264 psi					
Filter Loss	0 psi					
Mainline Components						
Backflow Loss	2.516 psi					
Master Valve Loss	1.939 psi					
Filter Loss	0 psi					
Zone 23 @ 40.64 gpm						
Mainline Loss	1.938 psi					
Valve Loss	1.938 psi					
Lateral Loss	2.899 psi					
Fittings Loss	0.337 psi					
Elevation	0 psi					
Sprinkler Requirement	30 psi					
Total Design Pressure	41.02 psi					
Residual Pressure	18.99 psi					

Run Set: 18						
Water Source #1						
Type	Meter					
Static Pressure	60 psi					
Service Line	0 psi					
Master Valve Loss	1.32 psi					
Filter Loss	0 psi					
Mainline Components						
Backflow Loss	2.555 psi					
Master Valve Loss	1.78 psi					
Filter Loss	0 psi					
Zone 18 @ 42.2 gpm						
Mainline Loss	3.94 psi					
Valve Loss	1.78 psi					
Lateral Loss	2.879 psi					
Fittings Loss	0.682 psi					
Elevation	0 psi					
Sprinkler Requirement	30 psi					
Total Design Pressure	44.256 psi					
Residual Pressure	15.744 psi					

Run Set: 38						
Water Source #1						
Type	Meter					
Static Pressure	60 psi					
Service Line	0 psi					
Master Valve Loss	1.492 psi					
Filter Loss	0 psi					
Mainline Components						
Backflow Loss	2.588 psi					
Master Valve Loss	1.608 psi					
Filter Loss	0 psi					
Zone 38 @ 43.92 gpm						
Mainline Loss	0.91 psi					
Valve Loss	1.608 psi					
Lateral Loss	2.884 psi					
Fittings Loss	0.277 psi					
Elevation	0 psi					
Sprinkler Requirement	30 psi					
Total Design Pressure	41.077 psi					
Residual Pressure	18.923 psi					

Run Set: 60						
Water Source #2						
Type	Meter					
Static Pressure	60 psi					
Service Line	0 psi					
Master Valve Loss	1.685 psi					
Filter Loss	0 psi					
Mainline Components						
Backflow Loss	0 psi					
Master Valve Loss	0 psi					
Filter Loss	0 psi					
Zone 60 @ 46.85 gpm						
Mainline Loss	1.98 psi					
Valve Loss	1.315 psi					
Lateral Loss	2.882 psi					
Fittings Loss	0.497 psi					
Elevation	0 psi					
Sprinkler Requirement	30 psi					
Total Design Pressure	37.966 psi					
Residual Pressure	22.034 psi					

Drip Zone Data				
Zone #	Total Area	Total Flow	Precip Rate	
1	1386.39 SqFt	553.5 gpm	0.64 in/hr	
2	1989.21 SqFt	787.5 gpm	0.64 in/hr	
3	1624.34 SqFt	648.9 gpm	0.64 in/hr	
4	1426.78 SqFt	570.6 gpm	0.64 in/hr	
5	1004.12 SqFt	396.6 gpm	0.64 in/hr	
6	1884.59 SqFt	756.6 gpm	0.64 in/hr	
7	1342.76 SqFt	531.9 gpm	0.64 in/hr	
8	1541.15 SqFt	606.6 gpm	0.63 in/hr	
9	1999.96 SqFt	786.5 gpm	0.64 in/hr	
10	1457.49 SqFt	574.2 gpm	0.63 in/hr	
11	1703.72 SqFt	681.3 gpm	0.64 in/hr	
12	1688.42 SqFt	675.9 gpm	0.64 in/hr	
13	2094.36 SqFt	833.4 gpm	0.64 in/hr	
14	2551.73 SqFt	813.6 gpm	0.64 in/hr	
15	2061.84 SqFt	823.5 gpm	0.64 in/hr	
16	1153.84 SqFt	465.3 gpm	0.63 in/hr	
42	1051.72 SqFt	420.3 gpm	0.64 in/hr	
71	24.46 SqFt	9.8 gpm	0.59 in/hr	
87	1758.76 SqFt	702.9 gpm	0.64 in/hr	
88	188.68 SqFt	748.6 gpm	0.64 in/hr	
89	1783.79 SqFt	702.8 gpm	0.63 in/hr	
90	1961.29 SqFt	783.9 gpm	0.64 in/hr	
91	1351.09 SqFt	540.9 gpm	0.64 in/hr	
92	1555.98 SqFt	628.2 gpm	0.63 in/hr	
93	1553.53 SqFt	630.9 gpm	0.64 in/hr	
94	395.56 SqFt	155.7 gpm	0.63 in/hr	
95	1720.85 SqFt	677.1 gpm	0.63 in/hr	
96	2142.87 SqFt	848.7 gpm	0.64 in/hr	
97	1502.56 SqFt	591.3 gpm	0.63 in/hr	
98	1461.08 SqFt	584 gpm	0.64 in/hr	
99	1007.69 SqFt	434.3 gpm	0.63 in/hr	
100	1276.61 SqFt	507.6 gpm	0.64 in/hr	
101	1471.45 SqFt	587.2 gpm	0.64 in/hr	
102	1962.56 SqFt	792.9 gpm	0.64 in/hr	
103	1471.45 SqFt	587.2 gpm	0.64 in/hr	