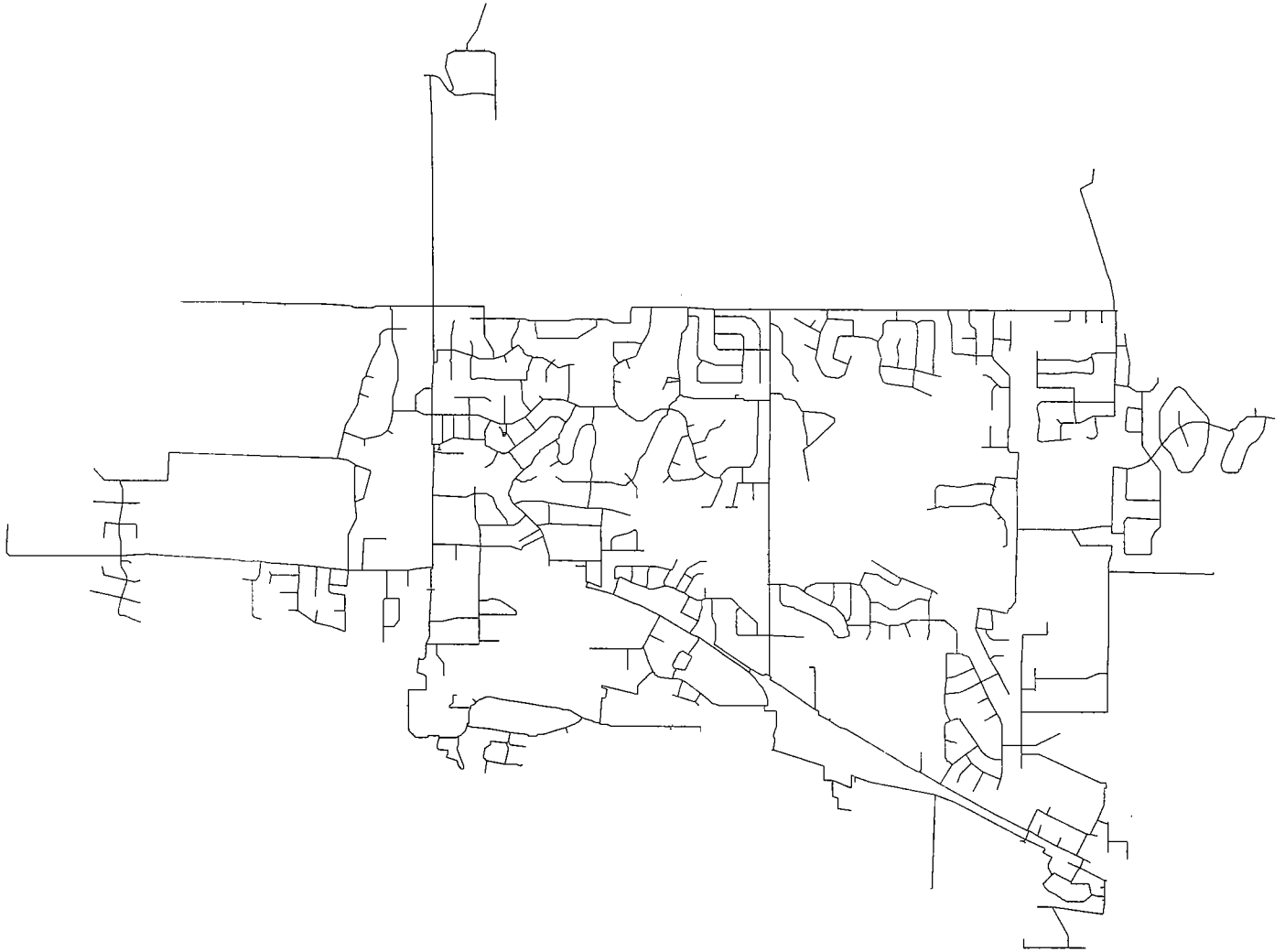


2026 Scenario

Scenario: 2026



Scenario: 2026
Fire Flow Analysis
Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-1 | false | 4.69 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-2 | false | 10.75 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-3 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-4 | true | 1.49 | 1,500.00 | 1,501.49 | 91.05 | J-981 | 39.07 | 5,000.00 |
| J-5 | true | 2.76 | 1,500.00 | 1,502.76 | 90.59 | J-981 | 39.07 | 5,000.00 |
| J-6 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-7 | false | 1.16 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-8 | true | 103.96 | 1,500.00 | 1,603.96 | 91.79 | J-981 | 39.07 | 5,000.00 |
| J-9 | false | 6.02 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-10 | false | 10.08 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-11 | true | 0.02 | 1,500.00 | 1,500.02 | 91.07 | J-981 | 39.07 | 5,000.00 |
| J-12 | true | 10.70 | 1,500.00 | 1,510.70 | 91.48 | J-981 | 39.07 | 5,000.00 |
| J-13 | true | 16.54 | 1,500.00 | 1,516.54 | 90.51 | J-981 | 39.07 | 5,000.00 |
| J-14 | true | 4.87 | 1,500.00 | 1,504.87 | 91.99 | J-981 | 39.07 | 5,000.00 |
| J-15 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-16 | false | 11.67 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-17 | true | 6.81 | 1,500.00 | 1,506.81 | 92.55 | J-981 | 39.07 | 5,000.00 |
| J-18 | true | 1.95 | 1,500.00 | 1,501.95 | 92.59 | J-981 | 39.07 | 5,000.00 |
| J-19 | false | 9.44 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-20 | true | 6.09 | 1,500.00 | 1,506.09 | 90.14 | J-981 | 35.53 | 4,997.51 |
| J-21 | true | 0.00 | 1,500.00 | 1,500.00 | 91.83 | J-981 | 39.07 | 5,000.00 |
| J-22 | true | 7.93 | 1,500.00 | 1,507.93 | 92.25 | J-981 | 39.07 | 5,000.00 |
| J-23 | false | 12.65 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-24 | true | 5.98 | 1,500.00 | 1,505.98 | 92.18 | J-981 | 39.07 | 5,000.00 |
| J-25 | true | 0.00 | 1,500.00 | 1,500.00 | 90.66 | J-981 | 39.07 | 5,000.00 |
| J-26 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-27 | false | 9.73 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-28 | true | 15.57 | 1,500.00 | 1,515.57 | 90.36 | J-981 | 39.07 | 5,000.00 |
| J-29 | true | 13.62 | 1,500.00 | 1,513.62 | 92.07 | J-981 | 39.07 | 5,000.00 |
| J-30 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-31 | false | 4.57 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-32 | true | 12.65 | 1,500.00 | 1,512.65 | 78.58 | J-981 | 39.07 | 5,000.00 |
| J-33 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-34 | true | 3.89 | 1,500.00 | 1,503.89 | 70.47 | J-981 | 20.01 | 4,181.56 |
| J-35 | false | 11.67 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-36 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-37 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-38 | true | 3.89 | 1,500.00 | 1,503.89 | 72.03 | J-981 | 43.93 | 5,000.00 |
| J-39 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-40 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-41 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-42 | true | 0.00 | 1,500.00 | 1,500.00 | 78.61 | J-981 | 39.07 | 5,000.00 |
| J-43 | true | 9.92 | 1,500.00 | 1,509.92 | 82.19 | J-981 | 37.88 | 5,000.00 |
| J-44 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-45 | true | 2.92 | 1,500.00 | 1,502.92 | 74.93 | J-981 | 43.89 | 5,000.00 |
| J-46 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-47 | true | 4.86 | 1,500.00 | 1,504.86 | 60.32 | J-981 | 20.00 | 2,735.00 |
| J-48 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Scenario: 2026
Fire Flow Analysis
Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-49 | false | 8.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-50 | false | 8.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-51 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-52 | true | 9.73 | 1,500.00 | 1,509.73 | 34.39 | J-981 | 43.53 | 1,760.24 |
| J-53 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-54 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-55 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-56 | true | 6.81 | 1,500.00 | 1,506.81 | 69.79 | J-981 | 38.25 | 5,000.00 |
| J-57 | true | 21.40 | 1,500.00 | 1,521.40 | 68.39 | J-981 | 36.38 | 5,000.00 |
| J-58 | false | 6.80 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-59 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-60 | true | 2.81 | 1,500.00 | 1,502.81 | 56.27 | J-981 | 41.11 | 2,853.67 |
| J-61 | true | 10.70 | 1,500.00 | 1,510.70 | 71.20 | J-981 | 37.54 | 5,000.00 |
| J-62 | false | 10.73 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-63 | true | 10.73 | 1,500.00 | 1,510.73 | 74.21 | J-981 | 39.07 | 5,000.00 |
| J-64 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-65 | true | 13.62 | 1,500.00 | 1,513.62 | 70.05 | J-981 | 27.06 | 4,016.18 |
| J-66 | true | 15.57 | 1,500.00 | 1,515.57 | 59.13 | J-981 | 20.02 | 2,815.75 |
| J-67 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-68 | true | 29.19 | 1,500.00 | 1,529.19 | 70.94 | J-981 | 37.00 | 5,000.00 |
| J-69 | true | 23.35 | 1,500.00 | 1,523.35 | 78.19 | J-981 | 26.12 | 5,000.00 |
| J-70 | false | 8.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-71 | true | 19.46 | 1,500.00 | 1,519.46 | 55.79 | J-981 | 20.00 | 2,471.52 |
| J-72 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-73 | false | 9.73 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-74 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-75 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-76 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-77 | true | 3.89 | 1,500.00 | 1,503.89 | 63.51 | J-981 | 20.00 | 4,319.29 |
| J-78 | false | 4.86 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-79 | false | 10.70 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-80 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-81 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-83 | true | 11.67 | 1,500.00 | 1,511.67 | 62.45 | J-981 | 27.44 | 4,257.27 |
| J-84 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-85 | false | 1.95 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-86 | true | 12.63 | 1,500.00 | 1,512.63 | 61.44 | J-981 | 29.14 | 3,980.52 |
| J-87 | false | 8.75 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-88 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-89 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-90 | false | 6.82 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-91 | true | 7.79 | 1,500.00 | 1,507.79 | 60.82 | J-981 | 25.20 | 3,473.49 |
| J-92 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-93 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-94 | true | 3.90 | 1,500.00 | 1,503.90 | 48.94 | J-981 | 20.00 | 2,286.68 |
| J-95 | false | 14.59 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-96 | false | 3.71 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-97 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Scenario: 2026
Fire Flow Analysis
Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-98 | false | 2.91 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-99 | false | 3.90 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-100 | true | 4.58 | 1,500.00 | 1,504.58 | 44.01 | J-981 | 20.02 | 2,043.48 |
| J-101 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-102 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-103 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-104 | true | 0.00 | 1,500.00 | 1,500.00 | 60.62 | J-981 | 21.73 | 3,029.72 |
| J-105 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-106 | false | 10.70 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-107 | false | 11.33 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-108 | true | 7.78 | 1,500.00 | 1,507.78 | 61.88 | J-981 | 20.86 | 3,421.44 |
| J-109 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-110 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-111 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-112 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-113 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-114 | true | 5.84 | 1,500.00 | 1,505.84 | 62.42 | J-981 | 23.01 | 3,816.58 |
| J-115 | true | 4.86 | 1,500.00 | 1,504.86 | 86.23 | J-981 | 21.30 | 4,826.95 |
| J-116 | true | 5.84 | 1,500.00 | 1,505.84 | 63.64 | J-981 | 20.62 | 4,293.40 |
| J-117 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-118 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-119 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-120 | true | 7.78 | 1,500.00 | 1,507.78 | 63.07 | J-981 | 21.51 | 4,403.36 |
| J-121 | true | 7.78 | 1,500.00 | 1,507.78 | 61.91 | J-981 | 20.00 | 3,979.72 |
| J-122 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-123 | true | 13.62 | 1,500.00 | 1,513.62 | 50.07 | J-981 | 20.64 | 2,518.62 |
| J-124 | false | 12.32 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-125 | true | 15.57 | 1,500.00 | 1,515.57 | 35.93 | J-126 | 21.09 | 1,852.35 |
| J-126 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-127 | true | 0.00 | 1,500.00 | 1,500.00 | 70.07 | J-981 | 29.60 | 5,000.00 |
| J-128 | true | 1.93 | 1,500.00 | 1,501.93 | 52.01 | J-981 | 20.02 | 2,580.78 |
| J-131 | false | 2.94 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-132 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-133 | false | 13.62 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-134 | false | 11.67 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-135 | false | 29.31 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-136 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-137 | false | 1.95 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-138 | false | 11.67 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-139 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-140 | true | 0.15 | 1,500.00 | 1,500.15 | 79.58 | J-981 | 40.94 | 3,216.94 |
| J-141 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-142 | true | 7.78 | 1,500.00 | 1,507.78 | 83.86 | J-981 | 40.33 | 3,743.91 |
| J-143 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-144 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-145 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-146 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-147 | false | 7.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Scenario: 2026
Fire Flow Analysis
Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-148 | true | 10.58 | 1,500.00 | 1,510.58 | 61.47 | J-981 | 31.85 | 3,903.66 |
| J-149 | true | 29.20 | 1,500.00 | 1,529.20 | 60.06 | J-981 | 39.38 | 3,490.30 |
| J-150 | false | 9.73 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-151 | true | 12.65 | 1,500.00 | 1,512.65 | 62.66 | J-981 | 22.27 | 4,326.22 |
| J-152 | true | 13.62 | 1,500.00 | 1,513.62 | 61.99 | J-981 | 28.99 | 4,157.89 |
| J-153 | true | 4.86 | 1,500.00 | 1,504.86 | 62.36 | J-981 | 24.15 | 4,340.26 |
| J-154 | true | 13.62 | 1,500.00 | 1,513.62 | 79.33 | J-981 | 22.17 | 3,549.00 |
| J-155 | true | 16.54 | 1,500.00 | 1,516.54 | 78.77 | J-981 | 20.13 | 3,284.83 |
| J-156 | true | 0.00 | 1,500.00 | 1,500.00 | 74.82 | J-981 | 35.08 | 2,925.81 |
| J-157 | false | 3.02 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-158 | true | 25.09 | 1,500.00 | 1,525.09 | 72.57 | J-981 | 43.16 | 2,903.67 |
| J-159 | true | 20.43 | 1,500.00 | 1,520.43 | 86.77 | J-981 | 36.10 | 5,000.00 |
| J-160 | true | 1.12 | 1,500.00 | 1,501.12 | 88.83 | J-981 | 41.23 | 5,000.00 |
| J-161 | true | 13.62 | 1,500.00 | 1,513.62 | 85.39 | J-981 | 36.82 | 5,000.00 |
| J-162 | false | 0.97 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-163 | true | 7.05 | 1,500.00 | 1,507.05 | 88.39 | J-981 | 40.55 | 5,000.00 |
| J-164 | true | 15.57 | 1,500.00 | 1,515.57 | 85.49 | J-981 | 20.01 | 4,416.96 |
| J-165 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-166 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-167 | true | 6.69 | 1,500.00 | 1,506.69 | 85.73 | J-981 | 20.00 | 4,259.77 |
| J-168 | true | 1.37 | 1,500.00 | 1,501.37 | 86.51 | J-981 | 20.03 | 4,417.29 |
| J-169 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-170 | false | 6.51 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-171 | false | 17.33 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-172 | true | 6.81 | 1,500.00 | 1,506.81 | 88.23 | J-981 | 21.51 | 5,000.00 |
| J-173 | false | 2.24 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-174 | true | 1.95 | 1,500.00 | 1,501.95 | 76.46 | J-981 | 35.44 | 3,101.96 |
| J-175 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-176 | false | 4.70 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-177 | false | 39.54 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-178 | false | 10.70 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-179 | false | 64.70 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-180 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-181 | false | 7.77 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-182 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-183 | false | 10.69 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-184 | true | 3.89 | 1,500.00 | 1,503.89 | 97.54 | J-981 | 20.00 | 3,851.76 |
| J-185 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-186 | true | 7.78 | 1,500.00 | 1,507.78 | 60.44 | J-981 | 44.67 | 1,501.00 |
| J-187 | true | 0.00 | 1,500.00 | 1,500.00 | 92.59 | J-981 | 44.10 | 3,297.00 |
| J-188 | false | 10.69 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-189 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-190 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-191 | true | 3.88 | 1,500.00 | 1,503.88 | 95.28 | J-981 | 42.42 | 5,000.00 |
| J-192 | false | 2.22 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-193 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-194 | true | 4.86 | 1,500.00 | 1,504.86 | 94.32 | J-981 | 42.38 | 5,000.00 |
| J-195 | false | 66.47 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

w:\...2026 scenario.wcd

01/17/07 12:39:35 © Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA +1-203-755-1666

Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026
Fire Flow Analysis
Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-196 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-197 | true | 46.51 | 1,500.00 | 1,546.51 | 91.71 | J-981 | 31.88 | 5,000.00 |
| J-198 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-199 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-200 | false | 4.69 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-201 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-202 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-203 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-204 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-205 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-206 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-207 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-208 | false | 1.95 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-209 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-210 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-211 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-212 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-213 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-214 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-215 | false | 11.67 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-216 | true | 8.76 | 1,500.00 | 1,508.76 | 84.88 | J-981 | 20.00 | 3,870.20 |
| J-217 | false | 15.68 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-218 | true | 1.74 | 1,500.00 | 1,501.74 | 91.19 | J-981 | 39.07 | 5,000.00 |
| J-219 | false | 24.87 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-220 | true | 0.00 | 1,500.00 | 1,500.00 | 90.45 | J-981 | 39.07 | 5,000.00 |
| J-221 | true | 0.00 | 1,500.00 | 1,500.00 | 87.99 | J-981 | 39.07 | 5,000.00 |
| J-222 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-223 | false | 0.49 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-224 | true | 1.81 | 1,500.00 | 1,501.81 | 87.07 | J-981 | 39.07 | 4,766.80 |
| J-225 | true | 5.06 | 1,500.00 | 1,505.06 | 87.51 | J-981 | 20.00 | 4,974.04 |
| J-226 | true | 9.73 | 1,500.00 | 1,509.73 | 78.19 | J-981 | 39.37 | 3,243.17 |
| J-227 | true | 17.51 | 1,500.00 | 1,517.51 | 78.36 | J-981 | 20.03 | 3,424.09 |
| J-228 | false | 12.65 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-229 | true | 7.78 | 1,500.00 | 1,507.78 | 72.04 | J-981 | 20.03 | 2,984.29 |
| J-230 | true | 10.70 | 1,500.00 | 1,510.70 | 71.00 | J-981 | 20.03 | 2,924.58 |
| J-231 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-232 | true | 16.56 | 1,500.00 | 1,516.56 | 73.40 | J-981 | 20.03 | 2,998.86 |
| J-233 | true | 7.69 | 1,500.00 | 1,507.69 | 73.19 | J-981 | 20.02 | 2,959.85 |
| J-234 | false | 12.75 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-235 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-236 | false | 114.24 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-237 | false | 0.64 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-238 | true | 0.91 | 1,500.00 | 1,500.91 | 84.50 | J-981 | 20.00 | 3,899.50 |
| J-239 | false | 2.66 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-240 | false | 26.03 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-241 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-242 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-243 | true | 6.81 | 1,500.00 | 1,506.81 | 80.52 | J-981 | 20.00 | 3,601.88 |

Scenario: 2026
Fire Flow Analysis
Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-244 | true | 11.67 | 1,500.00 | 1,511.67 | 81.32 | J-981 | 20.00 | 3,538.46 |
| J-245 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-246 | true | 9.73 | 1,500.00 | 1,509.73 | 81.69 | J-981 | 20.00 | 3,599.03 |
| J-247 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-248 | true | 8.76 | 1,500.00 | 1,508.76 | 80.34 | J-981 | 20.00 | 3,552.65 |
| J-249 | true | 5.84 | 1,500.00 | 1,505.84 | 79.40 | J-981 | 20.00 | 3,592.12 |
| J-250 | false | 3.21 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-251 | true | 7.78 | 1,500.00 | 1,507.78 | 77.62 | J-981 | 20.00 | 3,399.13 |
| J-252 | false | 1.29 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-253 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-254 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-255 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-256 | false | 0.25 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-257 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-258 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-259 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-260 | true | 2.92 | 1,500.00 | 1,502.92 | 56.04 | J-981 | 20.44 | 3,232.98 |
| J-261 | false | 1.95 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-262 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-263 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-264 | true | 9.73 | 1,500.00 | 1,509.73 | 54.97 | J-981 | 20.43 | 3,051.94 |
| J-265 | false | 5.85 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-266 | true | 16.54 | 1,500.00 | 1,516.54 | 53.33 | J-981 | 20.02 | 2,899.69 |
| J-267 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-268 | true | 14.59 | 1,500.00 | 1,514.59 | 58.47 | J-981 | 21.23 | 3,450.54 |
| J-269 | true | 8.76 | 1,500.00 | 1,508.76 | 58.12 | J-981 | 20.39 | 3,459.60 |
| J-270 | true | 11.67 | 1,500.00 | 1,511.67 | 57.67 | J-981 | 20.02 | 3,175.61 |
| J-271 | true | 2.46 | 1,500.00 | 1,502.46 | 55.67 | J-981 | 20.00 | 3,022.59 |
| J-272 | false | 8.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-273 | true | 8.76 | 1,500.00 | 1,508.76 | 54.34 | J-981 | 20.01 | 2,991.88 |
| J-274 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-275 | true | 10.70 | 1,500.00 | 1,510.70 | 55.37 | J-981 | 20.43 | 3,158.56 |
| J-276 | true | 14.59 | 1,500.00 | 1,514.59 | 53.38 | J-981 | 20.00 | 2,952.22 |
| J-277 | false | 17.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-278 | true | 19.47 | 1,500.00 | 1,519.47 | 53.37 | J-981 | 24.15 | 3,146.76 |
| J-279 | false | 4.46 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-280 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-281 | false | 6.25 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-282 | false | 11.67 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-283 | true | 4.24 | 1,500.00 | 1,504.24 | 59.15 | J-981 | 33.03 | 2,299.39 |
| J-284 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-285 | true | 0.00 | 1,500.00 | 1,500.00 | 61.67 | J-981 | 32.00 | 2,361.50 |
| J-286 | false | 5.60 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-287 | true | 10.70 | 1,500.00 | 1,510.70 | 77.37 | J-981 | 20.00 | 2,852.05 |
| J-288 | true | 15.57 | 1,500.00 | 1,515.57 | 76.57 | J-981 | 20.00 | 2,852.05 |
| J-289 | true | 6.81 | 1,500.00 | 1,506.81 | 75.57 | J-981 | 20.00 | 2,852.05 |
| J-290 | true | 4.86 | 1,500.00 | 1,504.86 | 69.42 | J-981 | 20.03 | 2,722.69 |
| J-291 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026
Fire Flow Analysis
Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-292 | false | 8.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-293 | false | 5.50 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-294 | false | 8.03 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-295 | true | 3.21 | 1,500.00 | 1,503.21 | 86.31 | J-981 | 20.00 | 4,208.20 |
| J-296 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-297 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-298 | true | 0.00 | 1,500.00 | 1,500.00 | 69.75 | J-981 | 20.01 | 2,875.90 |
| J-299 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-300 | false | 0.97 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-301 | false | 9.73 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-302 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-303 | true | 0.00 | 1,500.00 | 1,500.00 | 71.01 | J-981 | 20.00 | 2,876.45 |
| J-304 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-305 | true | 14.59 | 1,500.00 | 1,514.59 | 71.89 | J-981 | 20.00 | 2,876.44 |
| J-306 | true | 15.57 | 1,500.00 | 1,515.57 | 73.62 | J-981 | 20.01 | 2,876.06 |
| J-307 | true | 10.70 | 1,500.00 | 1,510.70 | 75.70 | J-981 | 20.00 | 2,876.45 |
| J-308 | true | 10.70 | 1,500.00 | 1,510.70 | 72.40 | J-981 | 20.00 | 2,876.44 |
| J-309 | true | 16.54 | 1,500.00 | 1,516.54 | 78.47 | J-981 | 20.01 | 2,876.19 |
| J-310 | true | 25.29 | 1,500.00 | 1,525.29 | 78.14 | J-981 | 20.01 | 2,876.08 |
| J-311 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-312 | false | 274.77 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-313 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-314 | true | 0.00 | 1,500.00 | 1,500.00 | 69.59 | J-981 | 20.02 | 2,875.85 |
| J-315 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-316 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-317 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-318 | true | 14.59 | 1,500.00 | 1,514.59 | 81.92 | J-981 | 37.28 | 5,000.00 |
| J-319 | false | 34.72 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-320 | false | 8.96 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-321 | true | 18.48 | 1,500.00 | 1,518.48 | 86.48 | J-981 | 20.00 | 2,659.47 |
| J-322 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-323 | true | 12.32 | 1,500.00 | 1,512.32 | 64.37 | J-981 | 20.00 | 2,517.77 |
| J-325 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-326 | true | 0.00 | 1,500.00 | 1,500.00 | 83.52 | J-981 | 20.00 | 3,626.21 |
| J-327 | false | 8.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-328 | true | 4.86 | 1,500.00 | 1,504.86 | 54.01 | J-981 | 31.64 | 2,098.30 |
| J-329 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-330 | true | 6.81 | 1,500.00 | 1,506.81 | 75.84 | J-981 | 20.46 | 3,555.67 |
| J-331 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-332 | false | 10.70 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-333 | false | 1.03 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-334 | true | 10.70 | 1,500.00 | 1,510.70 | 77.76 | J-981 | 20.00 | 3,356.19 |
| J-335 | false | 8.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-336 | true | 7.78 | 1,500.00 | 1,507.78 | 77.70 | J-981 | 20.00 | 3,347.92 |
| J-337 | true | 7.78 | 1,500.00 | 1,507.78 | 77.35 | J-981 | 20.00 | 3,308.03 |
| J-338 | true | 5.84 | 1,500.00 | 1,505.84 | 77.42 | J-981 | 20.00 | 3,349.72 |
| J-339 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-340 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Scenario: 2026
Fire Flow Analysis
Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-341 | true | 6.81 | 1,500.00 | 1,506.81 | 74.35 | J-981 | 20.00 | 3,082.38 |
| J-342 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-343 | true | 6.81 | 1,500.00 | 1,506.81 | 72.46 | J-981 | 20.00 | 2,921.46 |
| J-344 | true | 9.73 | 1,500.00 | 1,509.73 | 66.31 | J-981 | 20.01 | 2,642.53 |
| J-345 | false | 15.73 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-346 | true | 6.43 | 1,500.00 | 1,506.43 | 76.23 | J-981 | 20.03 | 2,848.93 |
| J-347 | true | 4.86 | 1,500.00 | 1,504.86 | 72.24 | J-981 | 20.00 | 2,682.95 |
| J-348 | false | 17.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-349 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-350 | true | 7.78 | 1,500.00 | 1,507.78 | 72.33 | J-981 | 20.00 | 2,771.72 |
| J-351 | false | 8.76 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-352 | false | 17.92 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-353 | true | 3.89 | 1,500.00 | 1,503.89 | 67.51 | J-981 | 29.51 | 1,501.00 |
| J-354 | true | 12.66 | 1,500.00 | 1,512.66 | 60.61 | J-981 | 20.00 | 2,876.44 |
| J-355 | false | 6.81 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-356 | false | 5.84 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-357 | true | 11.67 | 1,500.00 | 1,511.67 | 57.60 | J-981 | 20.02 | 2,875.84 |
| J-358 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-359 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-360 | true | 0.00 | 1,500.00 | 1,500.00 | 41.24 | J-981 | 28.17 | 2,552.98 |
| J-361 | true | 0.00 | 1,500.00 | 1,500.00 | 96.73 | J-981 | 42.54 | 5,000.00 |
| J-364 | false | 5.81 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-365 | false | 0.96 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-366 | false | 3.02 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-367 | false | 9.87 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-368 | false | 7.16 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-369 | false | 1.16 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-370 | true | 0.00 | 1,500.00 | 1,500.00 | 70.32 | J-981 | 25.71 | 3,139.77 |
| J-371 | false | 19.01 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-372 | true | 9.53 | 1,500.00 | 1,509.53 | 90.92 | J-981 | 39.07 | 5,000.00 |
| J-373 | false | 2.20 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-374 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-375 | false | 0.73 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-376 | false | 15.08 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-377 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-378 | false | 12.40 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-379 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-380 | false | 13.19 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-381 | true | 1.62 | 1,500.00 | 1,501.62 | 68.28 | J-981 | 41.71 | 3,464.00 |
| J-382 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-383 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-384 | true | 5.63 | 1,500.00 | 1,505.63 | 93.65 | J-981 | 39.07 | 5,000.00 |
| J-385 | true | 0.94 | 1,500.00 | 1,500.94 | 91.53 | J-981 | 38.29 | 5,000.00 |
| J-386 | true | 17.77 | 1,500.00 | 1,517.77 | 91.12 | J-981 | 39.07 | 5,000.00 |
| J-387 | false | 1.74 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-388 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-389 | true | 0.00 | 1,500.00 | 1,500.00 | 93.77 | J-981 | 39.07 | 5,000.00 |
| J-390 | false | 10.30 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |

Scenario: 2026
Fire Flow Analysis
Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-391 | true | 0.00 | 1,500.00 | 1,500.00 | 68.13 | J-981 | 41.83 | 2,478.13 |
| J-392 | true | 7.77 | 1,500.00 | 1,507.77 | 92.58 | J-981 | 37.81 | 5,000.00 |
| J-393 | false | 10.08 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-394 | true | 0.00 | 1,500.00 | 1,500.00 | 92.89 | J-981 | 39.07 | 5,000.00 |
| J-395 | true | 1.07 | 1,500.00 | 1,501.07 | 92.13 | J-981 | 39.07 | 5,000.00 |
| J-396 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-397 | false | 10.42 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-398 | true | 0.00 | 1,500.00 | 1,500.00 | 95.25 | J-981 | 39.07 | 5,000.00 |
| J-399 | true | 18.48 | 1,500.00 | 1,518.48 | 93.35 | J-981 | 39.07 | 5,000.00 |
| J-400 | true | 13.43 | 1,500.00 | 1,513.43 | 91.96 | J-981 | 39.07 | 5,000.00 |
| J-401 | true | 0.00 | 1,500.00 | 1,500.00 | 91.07 | J-981 | 39.07 | 5,000.00 |
| J-402 | true | 2.47 | 1,500.00 | 1,502.47 | 93.85 | J-981 | 39.07 | 5,000.00 |
| J-403 | true | 0.00 | 1,500.00 | 1,500.00 | 94.02 | J-981 | 39.07 | 5,000.00 |
| J-404 | true | 0.42 | 1,500.00 | 1,500.42 | 91.15 | J-981 | 39.07 | 5,000.00 |
| J-405 | false | 3.66 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-406 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-407 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-408 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-409 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-410 | false | 10.70 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-411 | true | 7.65 | 1,500.00 | 1,507.65 | 64.80 | J-981 | 29.52 | 5,000.00 |
| J-412 | true | 12.65 | 1,500.00 | 1,512.65 | 72.89 | J-981 | 33.14 | 5,000.00 |
| J-413 | true | 4.86 | 1,500.00 | 1,504.86 | 74.49 | J-981 | 34.83 | 5,000.00 |
| J-414 | true | 3.88 | 1,500.00 | 1,503.88 | 49.94 | J-981 | 20.02 | 2,875.81 |
| J-415 | true | 8.75 | 1,500.00 | 1,508.75 | 48.86 | J-981 | 20.00 | 2,876.45 |
| J-416 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-417 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-418 | true | 10.70 | 1,500.00 | 1,510.70 | 73.60 | J-981 | 20.00 | 2,838.69 |
| J-419 | true | 7.78 | 1,500.00 | 1,507.78 | 73.39 | J-981 | 20.00 | 2,834.30 |
| J-420 | false | 12.65 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-421 | true | 15.57 | 1,500.00 | 1,515.57 | 64.40 | J-981 | 20.03 | 2,617.61 |
| J-422 | true | 0.00 | 1,500.00 | 1,500.00 | 65.38 | J-981 | 20.46 | 2,657.28 |
| J-423 | false | 4.86 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-424 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-425 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-426 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-427 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-428 | false | 0.58 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-429 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-430 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-431 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-432 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-433 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-434 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-435 | false | 1.95 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-436 | true | 3.89 | 1,500.00 | 1,503.89 | 61.93 | J-981 | 20.00 | 2,500.68 |
| J-437 | true | 1.95 | 1,500.00 | 1,501.95 | 58.39 | J-981 | 28.08 | 2,334.97 |
| J-438 | false | 1.95 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Scenario: 2026
Fire Flow Analysis
Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-439 | true | 1.95 | 1,500.00 | 1,501.95 | 35.86 | J-981 | 37.48 | 1,726.59 |
| J-440 | true | 0.82 | 1,500.00 | 1,500.82 | 45.14 | J-981 | 27.55 | 1,916.61 |
| J-441 | false | 11.15 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-442 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-443 | true | 7.55 | 2,500.00 | 2,507.55 | 80.52 | J-981 | 36.63 | 5,000.00 |
| J-444 | true | 0.72 | 1,500.00 | 1,500.72 | 92.07 | J-981 | 39.07 | 5,000.00 |
| J-445 | false | 0.11 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-446 | true | 8.72 | 1,500.00 | 1,508.72 | 91.70 | J-981 | 39.07 | 5,000.00 |
| J-447 | true | 0.00 | 1,500.00 | 1,500.00 | 91.22 | J-981 | 39.07 | 5,000.00 |
| J-448 | true | 0.00 | 1,500.00 | 1,500.00 | 87.47 | J-981 | 20.22 | 4,382.00 |
| J-449 | true | 1.25 | 1,500.00 | 1,501.25 | 86.28 | J-981 | 20.65 | 4,103.81 |
| J-450 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-451 | true | 0.00 | 2,500.00 | 2,500.00 | 83.49 | J-981 | 39.07 | 5,000.00 |
| J-452 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-453 | true | 0.12 | 1,500.00 | 1,500.12 | 91.04 | J-981 | 39.07 | 5,000.00 |
| J-454 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-455 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-456 | true | 1.84 | 1,500.00 | 1,501.84 | 90.59 | J-981 | 39.07 | 5,000.00 |
| J-457 | true | 0.00 | 1,500.00 | 1,500.00 | 90.66 | J-981 | 39.07 | 5,000.00 |
| J-458 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-459 | true | 0.24 | 1,500.00 | 1,500.24 | 87.33 | J-981 | 30.63 | 4,514.33 |
| J-460 | true | 0.01 | 2,500.00 | 2,500.01 | 74.52 | J-981 | 20.00 | 4,555.88 |
| J-461 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-462 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-463 | true | 0.00 | 1,500.00 | 1,500.00 | 80.24 | J-981 | 39.08 | 3,361.01 |
| J-464 | true | 0.55 | 1,500.00 | 1,500.55 | 81.89 | J-981 | 22.89 | 3,564.77 |
| J-465 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-466 | true | 0.00 | 1,500.00 | 1,500.00 | 84.05 | J-981 | 20.02 | 3,890.52 |
| J-467 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-468 | true | 0.03 | 1,500.00 | 1,500.03 | 76.83 | J-981 | 39.55 | 3,081.10 |
| J-469 | true | 0.07 | 2,500.00 | 2,500.07 | 57.97 | J-981 | 20.03 | 3,520.87 |
| J-470 | true | 0.01 | 1,500.00 | 1,500.02 | 78.31 | J-981 | 33.12 | 3,209.43 |
| J-471 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-472 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-473 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-474 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-475 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-476 | true | 0.03 | 1,500.00 | 1,500.03 | 82.68 | J-981 | 39.07 | 3,486.25 |
| J-477 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-478 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-479 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-480 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-481 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-482 | true | 0.00 | 1,500.00 | 1,500.00 | 92.15 | J-981 | 30.68 | 5,000.00 |
| J-483 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-484 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-485 | true | 0.00 | 1,500.00 | 1,500.00 | 90.34 | J-981 | 20.00 | 4,974.37 |
| J-486 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Scenario: 2026
Fire Flow Analysis
Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-487 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-488 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-489 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-490 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-491 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-492 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-493 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-494 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-495 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-496 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-497 | false | 56.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-498 | false | 12.65 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-499 | true | 0.00 | 1,500.00 | 1,500.00 | 74.49 | J-981 | 21.21 | 2,765.78 |
| J-500 | true | 9.73 | 1,500.00 | 1,509.73 | 75.81 | J-981 | 20.00 | 2,782.44 |
| J-501 | true | 11.55 | 1,500.00 | 1,511.55 | 76.67 | J-981 | 20.43 | 2,684.82 |
| J-502 | true | 15.58 | 1,500.00 | 1,515.58 | 74.50 | J-981 | 27.08 | 2,597.98 |
| J-503 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-504 | true | 0.00 | 1,500.00 | 1,500.00 | 79.61 | J-981 | 39.07 | 5,000.00 |
| J-505 | false | 0.01 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-506 | true | 0.00 | 1,500.00 | 1,500.00 | 81.06 | J-981 | 39.07 | 5,000.00 |
| J-507 | false | 6.83 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-508 | true | 11.67 | 1,500.00 | 1,511.67 | 75.67 | J-981 | 29.20 | 5,000.00 |
| J-509 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-510 | true | 7.78 | 1,500.00 | 1,507.78 | 66.29 | J-981 | 42.00 | 3,242.71 |
| J-511 | true | 12.65 | 1,500.00 | 1,512.65 | 75.32 | J-981 | 36.42 | 5,000.00 |
| J-512 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-513 | false | 7.79 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-514 | true | 5.84 | 1,500.00 | 1,505.84 | 72.58 | J-981 | 38.04 | 5,000.00 |
| J-515 | true | 7.78 | 1,500.00 | 1,507.78 | 76.84 | J-981 | 36.90 | 5,000.00 |
| J-516 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-517 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-518 | true | 2.92 | 1,500.00 | 1,502.92 | 71.61 | J-981 | 31.56 | 5,000.00 |
| J-519 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-520 | true | 5.84 | 1,500.00 | 1,505.84 | 71.32 | J-981 | 36.64 | 5,000.00 |
| J-521 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-522 | true | 6.81 | 1,500.00 | 1,506.81 | 63.86 | J-981 | 20.00 | 2,588.44 |
| J-523 | true | 2.25 | 1,500.00 | 1,502.25 | 54.68 | J-981 | 20.00 | 2,588.47 |
| J-524 | false | 16.61 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-525 | true | 2.92 | 1,500.00 | 1,502.92 | 72.57 | J-981 | 20.03 | 2,843.00 |
| J-527 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-528 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-529 | false | 12.63 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-530 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-531 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-532 | true | 7.78 | 1,500.00 | 1,507.78 | 80.08 | J-981 | 20.24 | 4,372.78 |
| J-533 | false | 1.95 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-534 | true | 7.78 | 1,500.00 | 1,507.78 | 80.26 | J-981 | 20.22 | 4,446.55 |
| J-535 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Scenario: 2026
Fire Flow Analysis
Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-536 | true | 4.86 | 1,500.00 | 1,504.86 | 84.24 | J-981 | 39.33 | 5,000.00 |
| J-537 | false | 56.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-538 | true | 2.92 | 1,500.00 | 1,502.92 | 83.50 | J-981 | 29.05 | 5,000.00 |
| J-539 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-540 | true | 5.84 | 1,500.00 | 1,505.84 | 83.66 | J-981 | 31.53 | 5,000.00 |
| J-541 | false | 1.95 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-542 | true | 13.62 | 1,500.00 | 1,513.62 | 84.53 | J-981 | 39.07 | 5,000.00 |
| J-543 | true | 6.29 | 1,500.00 | 1,506.29 | 91.58 | J-981 | 39.07 | 5,000.00 |
| J-544 | true | 9.30 | 1,500.00 | 1,509.30 | 91.43 | J-981 | 39.07 | 5,000.00 |
| J-546 | true | 7.78 | 1,500.00 | 1,507.78 | 88.37 | J-981 | 39.07 | 4,738.77 |
| J-547 | true | 13.13 | 1,500.00 | 1,513.13 | 90.70 | J-981 | 39.07 | 5,000.00 |
| J-548 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-549 | true | 8.05 | 1,500.00 | 1,508.05 | 88.67 | J-981 | 30.77 | 5,000.00 |
| J-550 | true | 0.00 | 1,500.00 | 1,500.00 | 88.55 | J-981 | 30.68 | 5,000.00 |
| J-551 | true | 0.00 | 1,500.00 | 1,500.00 | 88.85 | J-981 | 29.70 | 5,000.00 |
| J-552 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-553 | true | 24.32 | 1,500.00 | 1,524.32 | 89.31 | J-981 | 30.32 | 5,000.00 |
| J-554 | true | 19.46 | 1,500.00 | 1,519.46 | 89.18 | J-981 | 27.98 | 5,000.00 |
| J-555 | true | 10.70 | 1,500.00 | 1,510.70 | 87.98 | J-981 | 20.00 | 4,838.02 |
| J-556 | false | 15.09 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-557 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-558 | false | 19.10 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-559 | true | 15.57 | 1,500.00 | 1,515.57 | 88.32 | J-981 | 20.22 | 4,958.54 |
| J-560 | false | 12.26 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-561 | true | 7.78 | 1,500.00 | 1,507.78 | 90.40 | J-981 | 32.98 | 5,000.00 |
| J-562 | true | 0.00 | 1,500.00 | 1,500.00 | 90.70 | J-981 | 38.83 | 5,000.00 |
| J-563 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-564 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-565 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-566 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-567 | true | 3.39 | 1,500.00 | 1,503.39 | 92.58 | J-981 | 39.07 | 5,000.00 |
| J-568 | false | 22.40 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-569 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-570 | false | 22.40 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-571 | true | 22.38 | 1,500.00 | 1,522.38 | 69.34 | J-981 | 20.02 | 2,875.85 |
| J-572 | true | 12.65 | 1,500.00 | 1,512.65 | 74.36 | J-981 | 20.02 | 2,875.85 |
| J-573 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-574 | true | 9.73 | 1,500.00 | 1,509.73 | 74.88 | J-981 | 20.02 | 2,875.85 |
| J-575 | false | 7.79 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-576 | true | 12.65 | 1,500.00 | 1,512.65 | 71.19 | J-981 | 20.02 | 2,875.85 |
| J-577 | true | 16.54 | 1,500.00 | 1,516.54 | 74.48 | J-981 | 20.02 | 2,875.85 |
| J-578 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-579 | true | 14.59 | 1,500.00 | 1,514.59 | 73.97 | J-981 | 20.02 | 2,875.85 |
| J-580 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-581 | false | 0.97 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-582 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-583 | true | 3.89 | 1,500.00 | 1,503.89 | 74.28 | J-981 | 20.02 | 2,875.86 |
| J-584 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Scenario: 2026
Fire Flow Analysis
Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-585 | true | 0.00 | 1,500.00 | 1,500.00 | 67.56 | J-981 | 20.01 | 2,876.04 |
| J-586 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-587 | true | 7.78 | 1,500.00 | 1,507.78 | 52.36 | J-981 | 27.52 | 3,445.88 |
| J-588 | true | 0.00 | 1,500.00 | 1,500.00 | 78.67 | J-981 | 20.00 | 3,969.11 |
| J-589 | false | 0.26 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-590 | true | 0.00 | 1,500.00 | 1,500.00 | 71.33 | J-981 | 25.74 | 3,114.53 |
| J-591 | false | 0.36 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-592 | true | 0.55 | 1,500.00 | 1,500.55 | 68.64 | J-981 | 27.17 | 2,936.05 |
| J-593 | false | 77.59 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-594 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-595 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-596 | true | 0.00 | 1,500.00 | 1,500.00 | 79.71 | J-981 | 20.00 | 3,841.65 |
| J-597 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-598 | true | 0.00 | 1,500.00 | 1,500.00 | 79.34 | J-981 | 20.00 | 3,793.73 |
| J-599 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-600 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-601 | false | 5.64 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-602 | true | 9.84 | 1,500.00 | 1,509.84 | 68.89 | J-981 | 25.03 | 3,083.43 |
| J-603 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-604 | true | 0.00 | 1,500.00 | 1,500.00 | 62.03 | J-981 | 28.65 | 2,527.88 |
| J-605 | true | 2.87 | 1,500.00 | 1,502.87 | 78.20 | J-981 | 20.00 | 3,707.40 |
| J-606 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-607 | true | 2.01 | 1,500.00 | 1,502.01 | 79.59 | J-981 | 20.00 | 3,543.65 |
| J-608 | true | 0.00 | 1,500.00 | 1,500.00 | 74.68 | J-981 | 20.00 | 3,543.64 |
| J-609 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-610 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-611 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-612 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-613 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-614 | false | 21.28 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-615 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-616 | false | 21.28 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-617 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-618 | false | 23.52 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-619 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-620 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-621 | true | 0.11 | 1,500.00 | 1,500.11 | 91.38 | J-981 | 34.35 | 5,000.00 |
| J-622 | true | 0.00 | 1,500.00 | 1,500.00 | 90.07 | J-981 | 23.09 | 5,000.00 |
| J-623 | false | 23.52 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-624 | true | 0.00 | 1,500.00 | 1,500.00 | 91.03 | J-981 | 33.82 | 5,000.00 |
| J-625 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-628 | false | 23.52 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-636 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-637 | true | 13.62 | 1,500.00 | 1,513.62 | 81.76 | J-981 | 20.00 | 3,874.37 |
| J-638 | false | 29.12 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-639 | true | 34.46 | 1,500.00 | 1,534.46 | 70.37 | J-981 | 43.91 | 2,690.07 |
| J-640 | false | 56.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-650 | false | 22.38 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

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Project Engineer: DMC
WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026
Fire Flow Analysis
Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-651 | false | 12.65 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-653 | false | 16.54 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-654 | false | 21.40 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-655 | false | 18.48 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-656 | false | 23.68 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-657 | false | 16.54 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-658 | false | 0.30 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-659 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-660 | false | 0.62 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-661 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-750 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-751 | false | 4.86 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-752 | false | 20.81 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-813 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-814 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-822 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-823 | true | 0.00 | 1,500.00 | 1,500.00 | 42.76 | J-138 | 41.87 | 1,501.00 |
| J-824 | true | 0.00 | 1,500.00 | 1,500.00 | 38.59 | J-150 | 38.99 | 1,501.00 |
| J-825 | false | 12.32 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-826 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-827 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-828 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-829 | true | 0.00 | 2,500.00 | 2,500.00 | 66.84 | J-981 | 20.00 | 3,955.55 |
| J-830 | true | 0.00 | 2,500.00 | 2,500.00 | 66.52 | J-981 | 20.00 | 3,954.04 |
| J-831 | false | 109.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-832 | true | 0.00 | 2,500.00 | 2,500.00 | 66.61 | J-981 | 20.00 | 3,953.02 |
| J-833 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-834 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-835 | true | 0.00 | 2,500.00 | 2,500.00 | 66.83 | J-981 | 20.00 | 3,951.63 |
| J-836 | true | 0.00 | 2,500.00 | 2,500.00 | 66.92 | J-981 | 20.00 | 3,951.16 |
| J-837 | true | 0.00 | 2,500.00 | 2,500.00 | 67.37 | J-981 | 20.00 | 3,949.49 |
| J-838 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-840 | true | 0.00 | 2,500.00 | 2,500.00 | 67.36 | J-981 | 20.00 | 3,956.51 |
| J-841 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-842 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-843 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-844 | false | 0.68 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-845 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-846 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-847 | false | 2.04 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-848 | false | 1.37 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-849 | false | 1.37 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-850 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-851 | true | 0.00 | 1,500.00 | 1,500.00 | 72.85 | J-981 | 36.11 | 1,501.00 |
| J-852 | true | 0.00 | 1,500.00 | 1,500.00 | 72.37 | J-981 | 36.11 | 1,501.00 |
| J-853 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-901 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-906 | false | 4.26 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |

Scenario: 2026
Fire Flow Analysis
Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-917 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-981 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-982 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |

Scenario: 2026
Fire Flow Analysis
Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-1 | 2,558.30 | Zone | Demand | 4.69 | COMMERCIAL | 4.69 | 2,777.14 | 94.68 |
| J-2 | 2,558.00 | Zone | Demand | 10.75 | COMMERCIAL | 10.75 | 2,777.63 | 95.02 |
| J-3 | 2,556.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.63 | 95.67 |
| J-4 | 2,557.50 | Zone | Demand | 1.49 | COMMERCIAL | 1.49 | 2,778.14 | 95.46 |
| J-5 | 2,559.00 | Zone | Demand | 2.76 | COMMERCIAL | 2.76 | 2,778.33 | 94.90 |
| J-6 | 2,558.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.37 | 95.34 |
| J-7 | 2,557.00 | Zone | Demand | 1.16 | COMMERCIAL | 1.16 | 2,778.37 | 95.78 |
| J-8 | 2,557.00 | Zone | Demand | 103.96 | IRRIGATION | 103.96 | 2,778.41 | 95.79 |
| J-9 | 2,555.00 | Zone | Demand | 6.02 | COMMERCIAL | 6.02 | 2,778.41 | 96.66 |
| J-10 | 2,550.50 | Zone | Demand | 10.08 | Composite | 10.08 | 2,778.45 | 98.62 |
| J-11 | 2,554.50 | Zone | Demand | 0.02 | COMMERCIAL | 0.02 | 2,778.52 | 96.92 |
| J-12 | 2,556.70 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,778.47 | 95.95 |
| J-13 | 2,557.00 | Zone | Demand | 16.54 | RESIDENTIAL | 16.54 | 2,778.49 | 95.83 |
| J-14 | 2,555.70 | Zone | Demand | 4.87 | Composite | 4.87 | 2,778.51 | 96.40 |
| J-15 | 2,558.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,778.48 | 95.39 |
| J-16 | 2,552.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,778.52 | 98.00 |
| J-17 | 2,555.30 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,778.60 | 96.61 |
| J-18 | 2,554.70 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,778.60 | 96.87 |
| J-19 | 2,552.00 | Zone | Demand | 9.44 | Composite | 9.44 | 2,778.62 | 98.05 |
| J-20 | 2,553.00 | Zone | Demand | 6.09 | COMMERCIAL | 6.09 | 2,778.62 | 97.62 |
| J-21 | 2,554.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.72 | 97.01 |
| J-22 | 2,553.50 | Zone | Demand | 7.93 | Composite | 7.93 | 2,778.69 | 97.43 |
| J-23 | 2,557.00 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,778.64 | 95.89 |
| J-24 | 2,553.00 | Zone | Demand | 5.98 | Composite | 5.98 | 2,778.69 | 97.65 |
| J-25 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.68 | 96.34 |
| J-26 | 2,554.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,778.71 | 97.22 |
| J-27 | 2,555.50 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,778.74 | 96.59 |
| J-28 | 2,558.00 | Zone | Demand | 15.57 | RESIDENTIAL | 15.57 | 2,778.68 | 95.48 |
| J-29 | 2,556.00 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,778.67 | 96.34 |
| J-30 | 2,579.50 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,778.82 | 86.24 |
| J-31 | 2,581.50 | Zone | Demand | 4.57 | RESIDENTIAL | 4.57 | 2,778.82 | 85.37 |
| J-32 | 2,585.50 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,778.87 | 83.66 |
| J-33 | 2,595.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.93 | 79.58 |
| J-34 | 2,596.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.92 | 78.92 |
| J-35 | 2,597.50 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,778.91 | 78.49 |
| J-36 | 2,604.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,778.92 | 75.46 |
| J-37 | 2,601.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,778.90 | 76.97 |
| J-38 | 2,603.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.89 | 76.10 |
| J-39 | 2,591.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.90 | 81.30 |
| J-40 | 2,592.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.84 | 80.84 |
| J-41 | 2,591.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.89 | 81.29 |
| J-42 | 2,590.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.82 | 81.69 |
| J-43 | 2,581.00 | Zone | Demand | 9.92 | COMMERCIAL | 9.92 | 2,778.82 | 85.59 |
| J-44 | 2,590.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.85 | 81.71 |
| J-45 | 2,594.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,778.88 | 79.99 |
| J-46 | 2,602.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,778.89 | 76.53 |
| J-47 | 2,596.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,778.88 | 79.12 |
| J-48 | 2,593.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.88 | 80.21 |
| J-49 | 2,601.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,778.88 | 76.96 |
| J-50 | 2,603.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,778.95 | 76.12 |
| J-51 | 2,606.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,779.07 | 74.88 |
| J-52 | 2,609.00 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,779.06 | 73.58 |

**Scenario: 2026
Fire Flow Analysis
Junction Report**

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-53 | 2,605.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.18 | 75.36 |
| J-54 | 2,604.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.20 | 75.80 |
| J-55 | 2,607.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,779.08 | 74.24 |
| J-56 | 2,608.50 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,779.08 | 73.80 |
| J-57 | 2,610.50 | Zone | Demand | 21.40 | RESIDENTIAL | 21.40 | 2,779.06 | 72.93 |
| J-58 | 2,606.00 | Zone | Demand | 6.80 | RESIDENTIAL | 6.80 | 2,779.10 | 74.89 |
| J-59 | 2,618.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.08 | 69.47 |
| J-60 | 2,615.00 | Zone | Demand | 2.81 | Composite | 2.81 | 2,779.08 | 70.99 |
| J-61 | 2,604.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,779.12 | 75.55 |
| J-62 | 2,600.00 | Zone | Demand | 10.73 | RESIDENTIAL | 10.73 | 2,779.06 | 77.47 |
| J-63 | 2,597.50 | Zone | Demand | 10.73 | RESIDENTIAL | 10.73 | 2,779.08 | 78.56 |
| J-64 | 2,595.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,779.09 | 79.43 |
| J-65 | 2,595.50 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,778.99 | 79.39 |
| J-66 | 2,604.00 | Zone | Demand | 15.57 | RESIDENTIAL | 15.57 | 2,778.99 | 75.71 |
| J-67 | 2,604.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,778.99 | 75.49 |
| J-68 | 2,603.00 | Zone | Demand | 29.19 | RESIDENTIAL | 29.19 | 2,779.08 | 76.18 |
| J-69 | 2,585.00 | Zone | Demand | 23.35 | RESIDENTIAL | 23.35 | 2,778.93 | 83.90 |
| J-70 | 2,587.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,778.92 | 83.04 |
| J-71 | 2,600.00 | Zone | Demand | 19.46 | RESIDENTIAL | 19.46 | 2,779.50 | 77.66 |
| J-72 | 2,602.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,779.50 | 76.58 |
| J-73 | 2,589.50 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,779.47 | 82.19 |
| J-74 | 2,617.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,781.45 | 71.15 |
| J-75 | 2,606.50 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,779.73 | 74.95 |
| J-76 | 2,611.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,779.21 | 72.78 |
| J-77 | 2,617.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,779.85 | 70.46 |
| J-78 | 2,618.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,779.73 | 69.97 |
| J-79 | 2,616.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,779.98 | 70.73 |
| J-80 | 2,613.50 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,780.01 | 72.04 |
| J-81 | 2,607.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,779.88 | 74.58 |
| J-83 | 2,619.50 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,780.12 | 69.49 |
| J-84 | 2,624.50 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,780.46 | 67.48 |
| J-85 | 2,626.00 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,785.42 | 68.97 |
| J-86 | 2,623.50 | Zone | Demand | 12.63 | RESIDENTIAL | 12.63 | 2,785.52 | 70.10 |
| J-87 | 2,618.00 | Zone | Demand | 8.75 | RESIDENTIAL | 8.75 | 2,783.82 | 71.74 |
| J-88 | 2,618.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,783.75 | 71.71 |
| J-89 | 2,618.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,783.76 | 71.72 |
| J-90 | 2,618.00 | Zone | Demand | 6.82 | RESIDENTIAL | 6.82 | 2,783.75 | 71.71 |
| J-91 | 2,616.50 | Zone | Demand | 7.79 | RESIDENTIAL | 7.79 | 2,783.49 | 72.25 |
| J-92 | 2,619.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,781.38 | 70.25 |
| J-93 | 2,619.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,781.45 | 70.07 |
| J-94 | 2,618.00 | Zone | Demand | 3.90 | RESIDENTIAL | 3.90 | 2,781.45 | 70.72 |
| J-95 | 2,619.50 | Zone | Demand | 14.59 | RESIDENTIAL | 14.59 | 2,781.44 | 70.06 |
| J-96 | 2,621.50 | Zone | Demand | 3.71 | Composite | 3.71 | 2,786.03 | 71.18 |
| J-97 | 2,615.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,781.47 | 72.02 |
| J-98 | 2,612.50 | Zone | Demand | 2.91 | RESIDENTIAL | 2.91 | 2,781.47 | 73.10 |
| J-99 | 2,611.00 | Zone | Demand | 3.90 | RESIDENTIAL | 3.90 | 2,781.49 | 73.76 |
| J-100 | 2,609.50 | Zone | Demand | 4.58 | Composite | 4.58 | 2,781.46 | 74.40 |
| J-101 | 2,610.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,781.46 | 74.18 |
| J-102 | 2,615.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,781.45 | 72.02 |
| J-103 | 2,615.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,781.45 | 72.02 |
| J-104 | 2,607.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,781.57 | 75.31 |
| J-105 | 2,603.50 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,781.57 | 77.04 |

Title: INITIAL RUN

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Scenario: 2026
Fire Flow Analysis
Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-106 | 2,593.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,781.50 | 81.34 |
| J-107 | 2,612.50 | Zone | Demand | 11.33 | Composite | 11.33 | 2,781.62 | 73.17 |
| J-108 | 2,612.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,781.62 | 73.17 |
| J-109 | 2,610.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,781.61 | 74.25 |
| J-110 | 2,610.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,781.61 | 74.25 |
| J-111 | 2,610.50 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,781.61 | 74.03 |
| J-112 | 2,614.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,781.62 | 72.52 |
| J-113 | 2,611.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,781.62 | 73.60 |
| J-114 | 2,617.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,781.63 | 71.23 |
| J-115 | 2,564.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,778.62 | 92.86 |
| J-116 | 2,620.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,785.94 | 71.80 |
| J-117 | 2,621.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,785.95 | 71.36 |
| J-118 | 2,579.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.15 | 86.59 |
| J-119 | 2,623.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,788.76 | 71.50 |
| J-120 | 2,624.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,788.50 | 70.95 |
| J-121 | 2,627.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,792.81 | 71.52 |
| J-122 | 2,618.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,786.23 | 72.57 |
| J-123 | 2,624.50 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,786.21 | 69.96 |
| J-124 | 2,588.00 | Zone | Demand | 12.32 | COMMERCIAL | 12.32 | 2,753.77 | 71.72 |
| J-125 | 2,623.00 | Zone | Demand | 15.57 | RESIDENTIAL | 15.57 | 2,786.20 | 70.61 |
| J-126 | 2,620.50 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,786.20 | 71.69 |
| J-127 | 2,605.80 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.10 | 74.98 |
| J-128 | 2,619.00 | Zone | Demand | 1.93 | RESIDENTIAL | 1.93 | 2,781.45 | 70.28 |
| J-131 | 2,553.00 | Zone | Demand | 2.94 | COMMERCIAL | 2.94 | 2,778.60 | 97.60 |
| J-132 | 2,624.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,786.13 | 69.93 |
| J-133 | 2,564.00 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,778.64 | 92.86 |
| J-134 | 2,558.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,778.68 | 95.48 |
| J-135 | 2,557.50 | Zone | Demand | 29.31 | COMMERCIAL | 29.31 | 2,779.04 | 95.85 |
| J-136 | 2,626.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,788.30 | 70.00 |
| J-137 | 2,553.50 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,778.60 | 97.39 |
| J-138 | 2,638.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,792.80 | 66.97 |
| J-139 | 2,554.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.59 | 96.95 |
| J-140 | 2,554.50 | Zone | Demand | 0.15 | COMMERCIAL | 0.15 | 2,778.69 | 97.00 |
| J-141 | 2,554.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.69 | 97.21 |
| J-142 | 2,554.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,778.71 | 97.22 |
| J-143 | 2,610.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,779.09 | 73.16 |
| J-144 | 2,611.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,779.06 | 72.71 |
| J-145 | 2,566.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.76 | 92.05 |
| J-146 | 2,563.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.74 | 92.91 |
| J-147 | 2,615.00 | Zone | Demand | 7.84 | RESIDENTIAL | 7.84 | 2,780.04 | 71.41 |
| J-148 | 2,623.00 | Zone | Demand | 10.58 | RESIDENTIAL | 10.58 | 2,787.85 | 71.32 |
| J-149 | 2,621.00 | Zone | Demand | 29.20 | RESIDENTIAL | 29.20 | 2,786.39 | 71.56 |
| J-150 | 2,620.00 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,788.49 | 72.90 |
| J-151 | 2,624.50 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,788.23 | 70.84 |
| J-152 | 2,625.00 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,788.26 | 70.64 |
| J-153 | 2,626.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,788.30 | 70.22 |
| J-154 | 2,561.50 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,777.13 | 93.29 |
| J-155 | 2,556.50 | Zone | Demand | 16.54 | RESIDENTIAL | 16.54 | 2,777.13 | 95.45 |
| J-156 | 2,556.20 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.13 | 95.58 |
| J-157 | 2,559.50 | Zone | Demand | 3.02 | COMMERCIAL | 3.02 | 2,776.77 | 94.00 |
| J-158 | 2,562.00 | Zone | Demand | 25.09 | Composite | 25.09 | 2,776.75 | 92.91 |
| J-159 | 2,561.00 | Zone | Demand | 20.43 | RESIDENTIAL | 20.43 | 2,776.72 | 93.33 |

Title: INITIAL RUN

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Scenario: 2026
Fire Flow Analysis
Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-160 | 2,560.00 | Zone | Demand | 1.12 | Composite | 1.12 | 2,776.60 | 93.71 |
| J-161 | 2,565.00 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,776.75 | 91.61 |
| J-162 | 2,559.50 | Zone | Demand | 0.97 | RESIDENTIAL | 0.97 | 2,776.46 | 93.87 |
| J-163 | 2,558.50 | Zone | Demand | 7.05 | Composite | 7.05 | 2,776.47 | 94.30 |
| J-164 | 2,556.50 | Zone | Demand | 15.57 | RESIDENTIAL | 15.57 | 2,776.37 | 95.13 |
| J-165 | 2,557.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,776.37 | 94.69 |
| J-166 | 2,555.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,776.29 | 95.74 |
| J-167 | 2,554.00 | Zone | Demand | 6.69 | RESIDENTIAL | 6.69 | 2,776.29 | 96.17 |
| J-168 | 2,553.50 | Zone | Demand | 1.37 | Composite | 1.37 | 2,776.27 | 96.38 |
| J-169 | 2,553.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,776.26 | 96.38 |
| J-170 | 2,554.50 | Zone | Demand | 6.51 | Composite | 6.51 | 2,776.25 | 95.94 |
| J-171 | 2,556.50 | Zone | Demand | 17.33 | Composite | 17.33 | 2,776.24 | 95.07 |
| J-172 | 2,555.50 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,776.25 | 95.51 |
| J-173 | 2,556.50 | Zone | Demand | 2.24 | Composite | 2.24 | 2,776.24 | 95.07 |
| J-174 | 2,557.00 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,776.24 | 94.86 |
| J-175 | 2,557.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,776.24 | 94.86 |
| J-176 | 2,559.00 | Zone | Demand | 4.70 | IRRIGATION | 4.70 | 2,776.25 | 93.99 |
| J-177 | 2,559.50 | Zone | Demand | 39.54 | Composite | 39.54 | 2,776.33 | 93.81 |
| J-178 | 2,557.00 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,776.33 | 94.89 |
| J-179 | 2,559.50 | Zone | Demand | 64.70 | Composite | 64.70 | 2,776.05 | 93.69 |
| J-180 | 2,553.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.08 | 96.30 |
| J-181 | 2,549.00 | Zone | Demand | 7.77 | RESIDENTIAL | 7.77 | 2,776.06 | 98.24 |
| J-182 | 2,550.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,776.04 | 97.80 |
| J-183 | 2,548.00 | Zone | Demand | 10.69 | RESIDENTIAL | 10.69 | 2,776.05 | 98.67 |
| J-184 | 2,548.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,776.05 | 98.67 |
| J-185 | 2,549.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,776.03 | 98.22 |
| J-186 | 2,547.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,776.04 | 99.10 |
| J-187 | 2,546.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.04 | 99.31 |
| J-188 | 2,551.00 | Zone | Demand | 10.69 | RESIDENTIAL | 10.69 | 2,776.08 | 97.38 |
| J-189 | 2,553.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,776.08 | 96.51 |
| J-190 | 2,553.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,776.08 | 96.51 |
| J-191 | 2,552.00 | Zone | Demand | 3.88 | RESIDENTIAL | 3.88 | 2,776.08 | 96.95 |
| J-192 | 2,552.50 | Zone | Demand | 2.22 | Composite | 2.22 | 2,776.08 | 96.73 |
| J-193 | 2,551.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,776.08 | 97.16 |
| J-194 | 2,553.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,776.08 | 96.52 |
| J-195 | 2,555.00 | Zone | Demand | 66.47 | Composite | 66.47 | 2,776.10 | 95.66 |
| J-196 | 2,556.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,776.08 | 95.22 |
| J-197 | 2,551.50 | Zone | Demand | 46.51 | Composite | 46.51 | 2,776.05 | 97.15 |
| J-198 | 2,553.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.08 | 96.30 |
| J-199 | 2,549.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.08 | 98.03 |
| J-200 | 2,616.50 | Zone | Demand | 4.69 | Composite | 4.69 | 2,778.62 | 70.14 |
| J-201 | 2,617.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.62 | 69.93 |
| J-202 | 2,601.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,778.46 | 76.78 |
| J-203 | 2,600.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.41 | 77.19 |
| J-204 | 2,603.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.36 | 75.87 |
| J-205 | 2,603.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.36 | 75.65 |
| J-206 | 2,603.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,778.36 | 75.87 |
| J-207 | 2,603.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.36 | 75.65 |
| J-208 | 2,599.00 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,778.41 | 77.62 |
| J-209 | 2,577.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.76 | 87.29 |
| J-210 | 2,597.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.76 | 78.64 |
| J-211 | 2,597.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.76 | 78.42 |

Title: INITIAL RUN

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Scenario: 2026
Fire Flow Analysis
Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-212 | 2,591.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.76 | 81.02 |
| J-213 | 2,592.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.76 | 80.80 |
| J-214 | 2,587.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.76 | 82.96 |
| J-215 | 2,552.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,778.67 | 98.07 |
| J-216 | 2,553.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,778.67 | 97.64 |
| J-217 | 2,553.50 | Zone | Demand | 15.68 | RESIDENTIAL | 15.68 | 2,778.67 | 97.42 |
| J-218 | 2,554.00 | Zone | Demand | 1.74 | COMMERCIAL | 1.74 | 2,778.71 | 97.22 |
| J-219 | 2,554.50 | Zone | Demand | 24.87 | IRRIGATION | 24.87 | 2,778.74 | 97.02 |
| J-220 | 2,557.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.06 | 96.07 |
| J-221 | 2,563.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.40 | 93.63 |
| J-222 | 2,564.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.43 | 92.99 |
| J-223 | 2,564.50 | Zone | Demand | 0.49 | COMMERCIAL | 0.49 | 2,779.30 | 92.94 |
| J-224 | 2,561.50 | Zone | Demand | 1.81 | RESIDENTIAL | 1.81 | 2,779.17 | 94.18 |
| J-225 | 2,562.50 | Zone | Demand | 5.06 | COMMERCIAL | 5.06 | 2,779.06 | 93.69 |
| J-226 | 2,561.00 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,778.62 | 94.15 |
| J-227 | 2,565.00 | Zone | Demand | 17.51 | RESIDENTIAL | 17.51 | 2,776.80 | 91.64 |
| J-228 | 2,566.00 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,775.94 | 90.83 |
| J-229 | 2,568.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,775.65 | 89.84 |
| J-230 | 2,569.00 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,775.47 | 89.33 |
| J-231 | 2,558.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,775.31 | 93.80 |
| J-232 | 2,565.00 | Zone | Demand | 16.56 | Composite | 16.56 | 2,775.66 | 91.14 |
| J-233 | 2,565.00 | Zone | Demand | 7.69 | Composite | 7.69 | 2,775.55 | 91.10 |
| J-234 | 2,565.00 | Zone | Demand | 12.75 | COMMERCIAL | 12.75 | 2,786.90 | 96.01 |
| J-235 | 2,603.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,778.34 | 75.86 |
| J-236 | 2,613.00 | Zone | Demand | 114.24 | RESIDENTIAL | 114.24 | 2,778.11 | 71.43 |
| J-237 | 2,565.50 | Zone | Demand | 0.64 | IRRIGATION | 0.64 | 2,785.77 | 95.30 |
| J-238 | 2,568.50 | Zone | Demand | 0.91 | Composite | 0.91 | 2,779.50 | 91.29 |
| J-239 | 2,569.00 | Zone | Demand | 2.66 | RESIDENTIAL | 2.66 | 2,779.50 | 91.08 |
| J-240 | 2,569.50 | Zone | Demand | 26.03 | IRRIGATION | 26.03 | 2,778.04 | 90.23 |
| J-241 | 2,583.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.87 | 84.74 |
| J-242 | 2,570.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,776.03 | 89.14 |
| J-243 | 2,568.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,774.99 | 89.56 |
| J-244 | 2,566.50 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,774.19 | 89.86 |
| J-245 | 2,564.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,774.99 | 91.29 |
| J-246 | 2,569.00 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,774.57 | 88.94 |
| J-247 | 2,572.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,760.82 | 81.69 |
| J-248 | 2,571.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,773.90 | 87.79 |
| J-249 | 2,570.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,774.24 | 88.37 |
| J-250 | 2,571.00 | Zone | Demand | 3.21 | Composite | 3.21 | 2,773.40 | 87.57 |
| J-251 | 2,573.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,772.05 | 86.12 |
| J-252 | 2,570.00 | Zone | Demand | 1.29 | IRRIGATION | 1.29 | 2,773.41 | 88.00 |
| J-253 | 2,571.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,773.41 | 87.36 |
| J-254 | 2,573.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,772.60 | 86.14 |
| J-255 | 2,573.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,772.58 | 86.13 |
| J-256 | 2,577.00 | Zone | Demand | 0.25 | COMMERCIAL | 0.25 | 2,771.46 | 84.13 |
| J-257 | 2,628.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,795.25 | 72.36 |
| J-258 | 2,639.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,799.21 | 69.32 |
| J-259 | 2,638.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,799.45 | 69.85 |
| J-260 | 2,635.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,799.48 | 71.16 |
| J-261 | 2,633.00 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,799.48 | 72.03 |
| J-262 | 2,634.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,799.48 | 71.60 |
| J-263 | 2,625.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,799.48 | 75.49 |

Title: INITIAL RUN

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Project Engineer: DMC

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Scenario: 2026
Fire Flow Analysis
Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-264 | 2,634.00 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,799.53 | 71.62 |
| J-265 | 2,633.00 | Zone | Demand | 5.85 | RESIDENTIAL | 5.85 | 2,799.53 | 72.05 |
| J-266 | 2,635.00 | Zone | Demand | 16.54 | RESIDENTIAL | 16.54 | 2,799.77 | 71.29 |
| J-267 | 2,636.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,799.77 | 70.85 |
| J-268 | 2,632.00 | Zone | Demand | 14.59 | RESIDENTIAL | 14.59 | 2,800.06 | 72.71 |
| J-269 | 2,633.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,801.01 | 72.69 |
| J-270 | 2,630.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,801.12 | 74.04 |
| J-271 | 2,632.50 | Zone | Demand | 2.46 | Composite | 2.46 | 2,801.16 | 72.97 |
| J-272 | 2,638.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,801.15 | 70.59 |
| J-273 | 2,634.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,801.17 | 72.33 |
| J-274 | 2,634.50 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,801.17 | 72.11 |
| J-275 | 2,635.00 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,801.20 | 71.91 |
| J-276 | 2,635.70 | Zone | Demand | 14.59 | RESIDENTIAL | 14.59 | 2,801.22 | 71.61 |
| J-277 | 2,636.00 | Zone | Demand | 17.92 | RESIDENTIAL | 17.92 | 2,801.22 | 71.48 |
| J-278 | 2,641.00 | Zone | Demand | 19.47 | RESIDENTIAL | 19.47 | 2,801.41 | 69.40 |
| J-279 | 2,638.00 | Zone | Demand | 4.46 | Composite | 4.46 | 2,801.68 | 70.82 |
| J-280 | 2,639.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,802.33 | 70.67 |
| J-281 | 2,653.00 | Zone | Demand | 6.25 | Composite | 6.25 | 2,820.58 | 72.50 |
| J-282 | 2,644.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,821.10 | 76.62 |
| J-283 | 2,640.00 | Zone | Demand | 4.24 | Composite | 4.24 | 2,821.10 | 78.35 |
| J-284 | 2,638.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,821.43 | 79.36 |
| J-285 | 2,636.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,821.43 | 80.23 |
| J-286 | 2,635.00 | Zone | Demand | 5.60 | RESIDENTIAL | 5.60 | 2,821.43 | 80.66 |
| J-287 | 2,639.00 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,821.78 | 79.08 |
| J-288 | 2,637.00 | Zone | Demand | 15.57 | RESIDENTIAL | 15.57 | 2,821.70 | 79.91 |
| J-289 | 2,644.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,821.95 | 76.99 |
| J-290 | 2,647.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,821.94 | 75.69 |
| J-291 | 2,643.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,821.94 | 77.42 |
| J-292 | 2,654.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,821.94 | 72.66 |
| J-293 | 2,654.00 | Zone | Demand | 5.50 | Composite | 5.50 | 2,822.25 | 72.80 |
| J-294 | 2,667.00 | Zone | Demand | 8.03 | IRRIGATION | 8.03 | 2,836.95 | 73.53 |
| J-295 | 2,565.50 | Zone | Demand | 3.21 | COMMERCIAL | 3.21 | 2,785.77 | 95.30 |
| J-296 | 2,667.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,837.30 | 73.68 |
| J-297 | 2,667.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,837.30 | 73.68 |
| J-298 | 2,665.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,841.54 | 76.17 |
| J-299 | 2,670.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,842.16 | 74.48 |
| J-300 | 2,670.00 | Zone | Demand | 0.97 | RESIDENTIAL | 0.97 | 2,842.16 | 74.48 |
| J-301 | 2,664.00 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,844.47 | 78.08 |
| J-302 | 2,664.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,842.10 | 76.84 |
| J-303 | 2,667.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,846.56 | 77.69 |
| J-304 | 2,670.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,846.56 | 76.39 |
| J-305 | 2,667.00 | Zone | Demand | 14.59 | RESIDENTIAL | 14.59 | 2,849.13 | 78.80 |
| J-306 | 2,665.00 | Zone | Demand | 15.57 | RESIDENTIAL | 15.57 | 2,851.56 | 80.72 |
| J-307 | 2,664.00 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,855.79 | 82.98 |
| J-308 | 2,670.00 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,855.78 | 80.38 |
| J-309 | 2,660.00 | Zone | Demand | 16.54 | RESIDENTIAL | 16.54 | 2,858.99 | 86.10 |
| J-310 | 2,662.50 | Zone | Demand | 25.29 | RESIDENTIAL | 25.29 | 2,860.98 | 85.87 |
| J-311 | 2,665.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,841.66 | 76.21 |
| J-312 | 2,655.00 | Zone | Demand | 274.77 | Composite | 274.77 | 2,856.43 | 87.15 |
| J-313 | 2,652.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,858.40 | 89.30 |
| J-314 | 2,660.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,842.04 | 78.54 |
| J-315 | 2,645.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,866.20 | 95.70 |

Title: INITIAL RUN

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01/17/07 12:39:53 Bentley Systems, Inc.

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Watertown, CT 06795 USA

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026
Fire Flow Analysis
Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-316 | 2,643.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,750.23 | 46.39 |
| J-317 | 2,631.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.22 | 64.56 |
| J-318 | 2,577.50 | Zone | Demand | 14.59 | RESIDENTIAL | 14.59 | 2,778.49 | 86.96 |
| J-319 | 2,566.00 | Zone | Demand | 34.72 | Composite | 34.72 | 2,778.75 | 92.05 |
| J-320 | 2,563.00 | Zone | Demand | 8.96 | RESIDENTIAL | 8.96 | 2,777.74 | 92.91 |
| J-321 | 2,647.50 | Zone | Demand | 18.48 | RESIDENTIAL | 18.48 | 2,864.68 | 93.96 |
| J-322 | 2,592.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,748.30 | 67.62 |
| J-323 | 2,572.50 | Zone | Demand | 12.32 | RESIDENTIAL | 12.32 | 2,759.97 | 81.11 |
| J-325 | 2,645.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,867.00 | 95.83 |
| J-326 | 2,565.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,775.11 | 90.69 |
| J-327 | 2,565.50 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,774.89 | 90.59 |
| J-328 | 2,565.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,774.89 | 90.81 |
| J-329 | 2,565.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,774.56 | 90.45 |
| J-330 | 2,565.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,774.56 | 90.67 |
| J-331 | 2,566.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,774.24 | 90.10 |
| J-332 | 2,568.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,772.20 | 88.13 |
| J-333 | 2,569.50 | Zone | Demand | 1.03 | Composite | 1.03 | 2,772.12 | 87.66 |
| J-334 | 2,571.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,772.22 | 86.84 |
| J-335 | 2,572.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,772.52 | 86.75 |
| J-336 | 2,571.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,771.68 | 86.82 |
| J-337 | 2,571.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,770.63 | 86.37 |
| J-338 | 2,572.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,771.32 | 86.23 |
| J-339 | 2,573.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,771.32 | 85.80 |
| J-340 | 2,572.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,772.04 | 86.55 |
| J-341 | 2,571.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,768.20 | 85.32 |
| J-342 | 2,572.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,768.20 | 84.89 |
| J-343 | 2,570.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,766.25 | 84.91 |
| J-344 | 2,573.50 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,762.17 | 81.63 |
| J-345 | 2,572.00 | Zone | Demand | 15.73 | Composite | 15.73 | 2,760.82 | 81.69 |
| J-346 | 2,632.00 | Zone | Demand | 6.43 | Composite | 6.43 | 2,821.60 | 82.03 |
| J-347 | 2,630.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,821.60 | 82.68 |
| J-348 | 2,630.00 | Zone | Demand | 17.92 | RESIDENTIAL | 17.92 | 2,821.59 | 82.89 |
| J-349 | 2,633.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,821.60 | 81.60 |
| J-350 | 2,638.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,821.69 | 79.47 |
| J-351 | 2,640.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,821.69 | 78.61 |
| J-352 | 2,640.50 | Zone | Demand | 17.92 | RESIDENTIAL | 17.92 | 2,821.69 | 78.39 |
| J-353 | 2,680.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,855.77 | 76.05 |
| J-354 | 2,695.00 | Zone | Demand | 12.66 | RESIDENTIAL | 12.66 | 2,855.76 | 69.55 |
| J-355 | 2,682.50 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,855.77 | 74.96 |
| J-356 | 2,678.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,855.77 | 76.70 |
| J-357 | 2,700.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,855.76 | 67.39 |
| J-358 | 2,699.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,836.95 | 59.69 |
| J-359 | 2,701.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,836.95 | 58.82 |
| J-360 | 2,717.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,836.95 | 51.90 |
| J-361 | 2,552.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.08 | 96.73 |
| J-364 | 2,554.00 | Zone | Demand | 5.81 | COMMERCIAL | 5.81 | 2,778.24 | 97.02 |
| J-365 | 2,554.00 | Zone | Demand | 0.96 | COMMERCIAL | 0.96 | 2,778.24 | 97.02 |
| J-366 | 2,554.00 | Zone | Demand | 3.02 | COMMERCIAL | 3.02 | 2,778.24 | 97.02 |
| J-367 | 2,550.00 | Zone | Demand | 9.87 | COMMERCIAL | 9.87 | 2,778.78 | 98.98 |
| J-368 | 2,580.00 | Zone | Demand | 7.16 | IRRIGATION | 7.16 | 2,778.58 | 85.92 |
| J-369 | 2,550.50 | Zone | Demand | 1.16 | COMMERCIAL | 1.16 | 2,778.40 | 98.60 |
| J-370 | 2,578.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.58 | 86.56 |

Title: INITIAL RUN

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01/17/07 12:39:53 BENTLEY Systems, Inc.

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026
Fire Flow Analysis
Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-371 | 2,554.00 | Zone | Demand | 19.01 | COMMERCIAL | 19.01 | 2,778.41 | 97.09 |
| J-372 | 2,555.50 | Zone | Demand | 9.53 | IRRIGATION | 9.53 | 2,778.45 | 96.46 |
| J-373 | 2,556.00 | Zone | Demand | 2.20 | COMMERCIAL | 2.20 | 2,778.45 | 96.24 |
| J-374 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.45 | 96.24 |
| J-375 | 2,550.00 | Zone | Demand | 0.73 | COMMERCIAL | 0.73 | 2,778.47 | 98.85 |
| J-376 | 2,549.50 | Zone | Demand | 15.08 | COMMERCIAL | 15.08 | 2,778.47 | 99.06 |
| J-377 | 2,549.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.47 | 99.06 |
| J-378 | 2,550.00 | Zone | Demand | 12.40 | COMMERCIAL | 12.40 | 2,778.47 | 98.85 |
| J-379 | 2,549.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.51 | 99.08 |
| J-380 | 2,589.00 | Zone | Demand | 13.19 | COMMERCIAL | 13.19 | 2,778.78 | 82.11 |
| J-381 | 2,593.50 | Zone | Demand | 1.62 | COMMERCIAL | 1.62 | 2,778.78 | 80.16 |
| J-382 | 2,547.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.62 | 99.99 |
| J-383 | 2,548.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.65 | 99.58 |
| J-384 | 2,548.50 | Zone | Demand | 5.63 | COMMERCIAL | 5.63 | 2,778.65 | 99.58 |
| J-385 | 2,557.00 | Zone | Demand | 0.94 | COMMERCIAL | 0.94 | 2,779.37 | 96.21 |
| J-386 | 2,556.00 | Zone | Demand | 17.77 | COMMERCIAL | 17.77 | 2,778.74 | 96.37 |
| J-387 | 2,556.00 | Zone | Demand | 1.74 | Composite | 1.74 | 2,778.77 | 96.38 |
| J-388 | 2,559.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.26 | 95.29 |
| J-389 | 2,554.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.46 | 97.54 |
| J-390 | 2,553.50 | Zone | Demand | 10.30 | Composite | 10.30 | 2,779.46 | 97.76 |
| J-391 | 2,555.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.46 | 97.11 |
| J-392 | 2,554.00 | Zone | Demand | 7.77 | COMMERCIAL | 7.77 | 2,779.46 | 97.54 |
| J-393 | 2,552.50 | Zone | Demand | 10.08 | Composite | 10.08 | 2,779.46 | 98.19 |
| J-394 | 2,557.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.49 | 96.26 |
| J-395 | 2,558.00 | Zone | Demand | 1.07 | COMMERCIAL | 1.07 | 2,779.42 | 95.80 |
| J-396 | 2,560.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.27 | 94.87 |
| J-397 | 2,560.00 | Zone | Demand | 10.42 | Composite | 10.42 | 2,779.27 | 94.87 |
| J-398 | 2,552.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.65 | 98.49 |
| J-399 | 2,554.00 | Zone | Demand | 18.48 | RESIDENTIAL | 18.48 | 2,779.56 | 97.59 |
| J-400 | 2,556.50 | Zone | Demand | 13.43 | Composite | 13.43 | 2,779.49 | 96.48 |
| J-401 | 2,559.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.36 | 95.12 |
| J-402 | 2,555.50 | Zone | Demand | 2.47 | COMMERCIAL | 2.47 | 2,780.14 | 97.19 |
| J-403 | 2,555.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.99 | 97.34 |
| J-404 | 2,562.50 | Zone | Demand | 0.42 | COMMERCIAL | 0.42 | 2,780.72 | 94.41 |
| J-405 | 2,567.00 | Zone | Demand | 3.66 | COMMERCIAL | 3.66 | 2,780.92 | 92.55 |
| J-406 | 2,553.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.78 | 97.90 |
| J-407 | 2,563.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,781.52 | 94.54 |
| J-408 | 2,565.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.06 | 92.61 |
| J-409 | 2,558.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.37 | 95.78 |
| J-410 | 2,627.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,780.09 | 66.02 |
| J-411 | 2,621.00 | Zone | Demand | 7.65 | Composite | 7.65 | 2,779.74 | 68.68 |
| J-412 | 2,602.50 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,779.38 | 76.53 |
| J-413 | 2,599.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,779.24 | 77.98 |
| J-414 | 2,716.00 | Zone | Demand | 3.88 | RESIDENTIAL | 3.88 | 2,855.76 | 60.47 |
| J-415 | 2,718.00 | Zone | Demand | 8.75 | Composite | 8.75 | 2,855.76 | 59.60 |
| J-416 | 2,733.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,855.76 | 53.11 |
| J-417 | 2,722.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,855.76 | 57.87 |
| J-418 | 2,559.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,775.19 | 93.32 |
| J-419 | 2,560.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,775.19 | 92.89 |
| J-420 | 2,573.50 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,774.84 | 87.11 |
| J-421 | 2,574.50 | Zone | Demand | 15.57 | Composite | 15.57 | 2,774.51 | 86.54 |
| J-422 | 2,573.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,774.88 | 87.35 |

Title: INITIAL RUN

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Bentley Systems, Inc. Haestad Methods Solution Center

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026
Fire Flow Analysis
Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-423 | 2,565.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,775.03 | 90.66 |
| J-424 | 2,566.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,775.03 | 90.44 |
| J-425 | 2,578.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.15 | 87.03 |
| J-426 | 2,578.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.15 | 87.03 |
| J-427 | 2,579.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.44 | 86.07 |
| J-428 | 2,579.50 | Zone | Demand | 0.58 | COMMERCIAL | 0.58 | 2,778.49 | 86.10 |
| J-429 | 2,576.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.53 | 87.63 |
| J-430 | 2,576.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.53 | 87.63 |
| J-431 | 2,576.50 | Zone | Demand | 0.00 | COMMERCIAL | 0.00 | 2,778.54 | 87.41 |
| J-432 | 2,576.50 | Zone | Demand | 0.00 | COMMERCIAL | 0.00 | 2,778.54 | 87.41 |
| J-433 | 2,572.50 | Zone | Demand | 0.00 | COMMERCIAL | 0.00 | 2,778.56 | 89.15 |
| J-434 | 2,572.50 | Zone | Demand | 0.00 | Composite | 0.00 | 2,778.56 | 89.15 |
| J-435 | 2,578.50 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,778.55 | 86.55 |
| J-436 | 2,579.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.55 | 86.34 |
| J-437 | 2,578.50 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,778.55 | 86.55 |
| J-438 | 2,579.50 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,778.55 | 86.12 |
| J-439 | 2,580.50 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,778.55 | 85.69 |
| J-440 | 2,580.00 | Zone | Demand | 0.82 | Composite | 0.82 | 2,778.55 | 85.90 |
| J-441 | 2,554.00 | Zone | Demand | 11.15 | IRRIGATION | 11.15 | 2,778.69 | 97.21 |
| J-442 | 2,592.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.84 | 80.62 |
| J-443 | 2,556.00 | Zone | Demand | 7.55 | RESIDENTIAL | 7.55 | 2,778.77 | 96.38 |
| J-444 | 2,554.00 | Zone | Demand | 0.72 | COMMERCIAL | 0.72 | 2,778.81 | 97.27 |
| J-445 | 2,554.00 | Zone | Demand | 0.11 | IRRIGATION | 0.11 | 2,778.80 | 97.26 |
| J-446 | 2,555.00 | Zone | Demand | 8.72 | IRRIGATION | 8.72 | 2,778.85 | 96.85 |
| J-447 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.88 | 96.43 |
| J-448 | 2,555.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.88 | 96.86 |
| J-449 | 2,554.50 | Zone | Demand | 1.25 | COMMERCIAL | 1.25 | 2,778.88 | 97.08 |
| J-450 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.90 | 96.44 |
| J-451 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.94 | 96.45 |
| J-452 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.95 | 96.46 |
| J-453 | 2,556.50 | Zone | Demand | 0.12 | COMMERCIAL | 0.12 | 2,778.98 | 96.26 |
| J-454 | 2,557.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.99 | 96.05 |
| J-455 | 2,557.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.01 | 96.05 |
| J-456 | 2,558.00 | Zone | Demand | 1.84 | IRRIGATION | 1.84 | 2,779.04 | 95.63 |
| J-457 | 2,558.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.08 | 95.43 |
| J-458 | 2,558.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.04 | 95.63 |
| J-459 | 2,557.00 | Zone | Demand | 0.24 | COMMERCIAL | 0.24 | 2,778.97 | 96.04 |
| J-460 | 2,556.50 | Zone | Demand | 0.01 | COMMERCIAL | 0.01 | 2,778.93 | 96.24 |
| J-461 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.90 | 96.44 |
| J-462 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.93 | 96.45 |
| J-463 | 2,557.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.93 | 96.02 |
| J-464 | 2,557.00 | Zone | Demand | 0.55 | IRRIGATION | 0.55 | 2,778.93 | 96.02 |
| J-465 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.90 | 96.44 |
| J-466 | 2,557.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.93 | 95.80 |
| J-467 | 2,558.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.93 | 95.37 |
| J-468 | 2,558.00 | Zone | Demand | 0.03 | COMMERCIAL | 0.03 | 2,778.93 | 95.59 |
| J-469 | 2,557.50 | Zone | Demand | 0.07 | COMMERCIAL | 0.07 | 2,778.93 | 95.80 |
| J-470 | 2,558.00 | Zone | Demand | 0.01 | COMMERCIAL | 0.01 | 2,778.93 | 95.59 |
| J-471 | 2,554.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.86 | 97.50 |
| J-472 | 2,554.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.86 | 97.50 |
| J-473 | 2,555.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.94 | 97.11 |
| J-474 | 2,559.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.04 | 94.98 |

Title: INITIAL RUN

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026
Fire Flow Analysis
Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-475 | 2,558.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.09 | 95.66 |
| J-476 | 2,553.00 | Zone | Demand | 0.03 | COMMERCIAL | 0.03 | 2,778.88 | 97.73 |
| J-477 | 2,553.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.14 | 97.84 |
| J-478 | 2,555.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.94 | 97.11 |
| J-479 | 2,553.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.14 | 97.62 |
| J-480 | 2,553.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.14 | 97.62 |
| J-481 | 2,555.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.14 | 96.76 |
| J-482 | 2,552.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.14 | 98.06 |
| J-483 | 2,554.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.14 | 97.41 |
| J-484 | 2,554.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.14 | 97.41 |
| J-485 | 2,554.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.14 | 97.41 |
| J-486 | 2,554.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.14 | 97.41 |
| J-487 | 2,552.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.14 | 98.06 |
| J-488 | 2,552.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.14 | 98.06 |
| J-489 | 2,561.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,775.22 | 92.68 |
| J-490 | 2,565.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,774.95 | 90.62 |
| J-491 | 2,565.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,774.95 | 90.62 |
| J-492 | 2,569.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,774.77 | 89.03 |
| J-493 | 2,570.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,774.77 | 88.59 |
| J-494 | 2,575.50 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,774.51 | 86.10 |
| J-495 | 2,639.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,821.56 | 78.77 |
| J-496 | 2,628.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,821.54 | 83.52 |
| J-497 | 2,628.50 | Zone | Demand | 56.00 | RESIDENTIAL | 56.00 | 2,821.54 | 83.52 |
| J-498 | 2,628.00 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,821.54 | 83.73 |
| J-499 | 2,628.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,821.54 | 83.73 |
| J-500 | 2,625.50 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,821.53 | 84.81 |
| J-501 | 2,613.50 | Zone | Demand | 11.55 | RESIDENTIAL | 11.55 | 2,821.53 | 90.00 |
| J-502 | 2,612.50 | Zone | Demand | 15.58 | IRRIGATION | 15.58 | 2,821.53 | 90.44 |
| J-503 | 2,616.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,821.53 | 88.71 |
| J-504 | 2,587.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.82 | 82.77 |
| J-505 | 2,587.50 | Zone | Demand | 0.01 | COMMERCIAL | 0.01 | 2,778.82 | 82.77 |
| J-506 | 2,584.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.82 | 84.29 |
| J-507 | 2,618.00 | Zone | Demand | 6.83 | RESIDENTIAL | 6.83 | 2,779.08 | 69.69 |
| J-508 | 2,592.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,778.91 | 80.87 |
| J-509 | 2,588.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,778.91 | 82.60 |
| J-510 | 2,594.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,778.91 | 80.00 |
| J-511 | 2,594.50 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,779.00 | 79.83 |
| J-512 | 2,595.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,779.00 | 79.61 |
| J-513 | 2,612.00 | Zone | Demand | 7.79 | RESIDENTIAL | 7.79 | 2,779.08 | 72.29 |
| J-514 | 2,601.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,779.06 | 76.82 |
| J-515 | 2,593.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,779.07 | 80.29 |
| J-516 | 2,612.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,779.08 | 72.29 |
| J-517 | 2,589.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,779.07 | 82.23 |
| J-518 | 2,603.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,779.07 | 76.18 |
| J-519 | 2,604.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,779.07 | 75.74 |
| J-520 | 2,604.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,779.09 | 75.54 |
| J-521 | 2,616.50 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,779.07 | 70.34 |
| J-522 | 2,575.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,761.53 | 80.70 |
| J-523 | 2,578.00 | Zone | Demand | 2.25 | Composite | 2.25 | 2,761.53 | 79.40 |
| J-524 | 2,574.00 | Zone | Demand | 16.61 | IRRIGATION | 16.61 | 2,761.07 | 80.93 |
| J-525 | 2,559.50 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,775.24 | 93.34 |
| J-527 | 2,572.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,774.88 | 87.78 |

Scenario: 2026
Fire Flow Analysis
Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-528 | 2,590.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.74 | 81.66 |
| J-529 | 2,546.00 | Zone | Demand | 12.63 | RESIDENTIAL | 12.63 | 2,776.00 | 99.51 |
| J-530 | 2,552.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.08 | 96.95 |
| J-531 | 2,579.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.49 | 86.31 |
| J-532 | 2,572.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,778.17 | 88.98 |
| J-533 | 2,572.00 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,778.17 | 89.20 |
| J-534 | 2,572.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,777.75 | 88.80 |
| J-535 | 2,572.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.75 | 89.02 |
| J-536 | 2,571.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,777.55 | 89.36 |
| J-537 | 2,569.50 | Zone | Demand | 56.00 | RESIDENTIAL | 56.00 | 2,777.12 | 89.83 |
| J-538 | 2,571.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.84 | 89.49 |
| J-539 | 2,572.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.84 | 89.06 |
| J-540 | 2,571.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,778.18 | 89.42 |
| J-541 | 2,572.50 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,778.18 | 88.99 |
| J-542 | 2,572.50 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,778.46 | 89.11 |
| J-543 | 2,553.00 | Zone | Demand | 6.29 | Composite | 6.29 | 2,778.41 | 97.52 |
| J-544 | 2,554.00 | Zone | Demand | 9.30 | Composite | 9.30 | 2,778.41 | 97.09 |
| J-546 | 2,555.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,778.41 | 96.66 |
| J-547 | 2,558.00 | Zone | Demand | 13.13 | Composite | 13.13 | 2,778.91 | 95.58 |
| J-548 | 2,559.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.91 | 95.15 |
| J-549 | 2,559.50 | Zone | Demand | 8.05 | IRRIGATION | 8.05 | 2,778.91 | 94.93 |
| J-550 | 2,559.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.92 | 94.93 |
| J-551 | 2,559.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.93 | 94.94 |
| J-552 | 2,559.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.97 | 94.95 |
| J-553 | 2,557.50 | Zone | Demand | 24.32 | RESIDENTIAL | 24.32 | 2,778.91 | 95.79 |
| J-554 | 2,557.50 | Zone | Demand | 19.46 | RESIDENTIAL | 19.46 | 2,778.91 | 95.80 |
| J-555 | 2,558.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,778.92 | 95.36 |
| J-556 | 2,559.00 | Zone | Demand | 15.09 | Composite | 15.09 | 2,778.92 | 95.15 |
| J-557 | 2,560.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.97 | 94.74 |
| J-558 | 2,561.50 | Zone | Demand | 19.10 | Composite | 19.10 | 2,778.96 | 94.09 |
| J-559 | 2,559.00 | Zone | Demand | 15.57 | RESIDENTIAL | 15.57 | 2,778.97 | 95.17 |
| J-560 | 2,558.50 | Zone | Demand | 12.26 | Composite | 12.26 | 2,778.97 | 95.39 |
| J-561 | 2,557.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,778.99 | 95.83 |
| J-562 | 2,558.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.03 | 95.63 |
| J-563 | 2,557.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.05 | 95.85 |
| J-564 | 2,557.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,779.04 | 95.85 |
| J-565 | 2,560.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,779.04 | 94.77 |
| J-566 | 2,558.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.12 | 95.45 |
| J-567 | 2,556.00 | Zone | Demand | 3.39 | COMMERCIAL | 3.39 | 2,779.26 | 96.59 |
| J-568 | 2,615.50 | Zone | Demand | 22.40 | RESIDENTIAL | 22.40 | 2,821.53 | 89.14 |
| J-569 | 2,595.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,821.53 | 98.01 |
| J-570 | 2,597.50 | Zone | Demand | 22.40 | RESIDENTIAL | 22.40 | 2,821.53 | 96.93 |
| J-571 | 2,659.00 | Zone | Demand | 22.38 | RESIDENTIAL | 22.38 | 2,841.68 | 79.04 |
| J-572 | 2,643.00 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,841.71 | 85.97 |
| J-573 | 2,643.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,841.71 | 85.76 |
| J-574 | 2,644.00 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,841.73 | 85.55 |
| J-575 | 2,643.50 | Zone | Demand | 7.79 | RESIDENTIAL | 7.79 | 2,841.76 | 85.78 |
| J-576 | 2,661.00 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,842.07 | 78.34 |
| J-577 | 2,649.00 | Zone | Demand | 16.54 | RESIDENTIAL | 16.54 | 2,841.96 | 83.48 |
| J-578 | 2,649.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,841.93 | 83.47 |
| J-579 | 2,642.00 | Zone | Demand | 14.59 | RESIDENTIAL | 14.59 | 2,841.96 | 86.51 |
| J-580 | 2,645.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,841.96 | 85.21 |

Title: INITIAL RUN

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Bentley Systems, Inc. Haestad Methods Solution Center

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Project Engineer: DMC

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Scenario: 2026
Fire Flow Analysis
Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-581 | 2,643.50 | Zone | Demand | 0.97 | RESIDENTIAL | 0.97 | 2,841.96 | 85.87 |
| J-582 | 2,643.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,841.96 | 85.87 |
| J-583 | 2,648.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,841.97 | 83.92 |
| J-584 | 2,654.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,842.00 | 81.12 |
| J-585 | 2,652.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,842.00 | 82.21 |
| J-586 | 2,650.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,842.00 | 82.85 |
| J-587 | 2,652.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,806.78 | 66.97 |
| J-588 | 2,583.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.47 | 84.57 |
| J-589 | 2,576.50 | Zone | Demand | 0.26 | COMMERCIAL | 0.26 | 2,778.22 | 87.28 |
| J-590 | 2,574.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.22 | 88.14 |
| J-591 | 2,579.50 | Zone | Demand | 0.36 | COMMERCIAL | 0.36 | 2,778.78 | 86.22 |
| J-592 | 2,578.00 | Zone | Demand | 0.55 | Composite | 0.55 | 2,778.78 | 86.87 |
| J-593 | 2,579.50 | Zone | Demand | 77.59 | IRRIGATION | 77.59 | 2,778.40 | 86.05 |
| J-594 | 2,578.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.44 | 86.50 |
| J-595 | 2,578.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.91 | 86.49 |
| J-596 | 2,578.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.79 | 86.44 |
| J-597 | 2,578.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.79 | 86.22 |
| J-598 | 2,577.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.31 | 86.45 |
| J-599 | 2,576.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.31 | 87.10 |
| J-600 | 2,576.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.31 | 87.10 |
| J-601 | 2,577.00 | Zone | Demand | 5.64 | COMMERCIAL | 5.64 | 2,777.31 | 86.66 |
| J-602 | 2,577.50 | Zone | Demand | 9.84 | COMMERCIAL | 9.84 | 2,777.31 | 86.45 |
| J-603 | 2,575.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.31 | 87.31 |
| J-604 | 2,577.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.31 | 86.66 |
| J-605 | 2,578.00 | Zone | Demand | 2.87 | COMMERCIAL | 2.87 | 2,776.23 | 85.77 |
| J-606 | 2,578.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.23 | 85.77 |
| J-607 | 2,572.00 | Zone | Demand | 2.01 | COMMERCIAL | 2.01 | 2,773.65 | 87.24 |
| J-608 | 2,575.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,773.65 | 85.73 |
| J-609 | 2,575.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,773.65 | 85.73 |
| J-610 | 2,577.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,772.27 | 84.48 |
| J-611 | 2,577.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,772.27 | 84.27 |
| J-612 | 2,577.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,772.06 | 84.18 |
| J-613 | 2,577.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,772.06 | 84.18 |
| J-614 | 2,577.50 | Zone | Demand | 21.28 | Composite | 21.28 | 2,771.91 | 84.11 |
| J-615 | 2,578.00 | Zone | Demand | 0.00 | COMMERCIAL | 0.00 | 2,771.91 | 83.90 |
| J-616 | 2,580.00 | Zone | Demand | 21.28 | Composite | 21.28 | 2,770.93 | 82.61 |
| J-617 | 2,562.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,782.47 | 95.39 |
| J-618 | 2,562.00 | Zone | Demand | 23.52 | Composite | 23.52 | 2,782.78 | 95.52 |
| J-619 | 2,562.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,782.78 | 95.52 |
| J-620 | 2,566.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,785.01 | 94.54 |
| J-621 | 2,566.00 | Zone | Demand | 0.11 | COMMERCIAL | 0.11 | 2,785.31 | 94.88 |
| J-622 | 2,566.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,785.31 | 94.67 |
| J-623 | 2,567.50 | Zone | Demand | 23.52 | Composite | 23.52 | 2,785.31 | 94.23 |
| J-624 | 2,567.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,786.02 | 94.76 |
| J-625 | 2,567.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,786.40 | 94.92 |
| J-628 | 2,569.00 | Zone | Demand | 23.52 | Composite | 23.52 | 2,786.40 | 94.06 |
| J-636 | 2,578.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.15 | 87.03 |
| J-637 | 2,558.50 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,776.00 | 94.10 |
| J-638 | 2,559.00 | Zone | Demand | 29.12 | RESIDENTIAL | 29.12 | 2,776.00 | 93.88 |
| J-639 | 2,556.00 | Zone | Demand | 34.46 | Composite | 34.46 | 2,775.98 | 95.17 |
| J-640 | 2,564.50 | Zone | Demand | 56.00 | RESIDENTIAL | 56.00 | 2,776.79 | 91.85 |
| J-650 | 2,610.00 | Zone | Demand | 22.38 | RESIDENTIAL | 22.38 | 2,779.53 | 73.35 |

Title: INITIAL RUN

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01/17/07 12:39:53 BENTLEY Systems, Inc.

Haestad Methods Solution Center

Watertown, CT 06795 USA

+1-203-755-1666

Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026
Fire Flow Analysis
Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-651 | 2,553.50 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,778.67 | 97.42 |
| J-653 | 2,627.00 | Zone | Demand | 16.54 | RESIDENTIAL | 16.54 | 2,788.38 | 69.82 |
| J-654 | 2,682.00 | Zone | Demand | 21.40 | RESIDENTIAL | 21.40 | 2,855.76 | 75.18 |
| J-655 | 2,680.00 | Zone | Demand | 18.48 | RESIDENTIAL | 18.48 | 2,855.76 | 76.04 |
| J-656 | 2,693.00 | Zone | Demand | 23.68 | RESIDENTIAL | 23.68 | 2,855.75 | 70.42 |
| J-657 | 2,563.00 | Zone | Demand | 16.54 | RESIDENTIAL | 16.54 | 2,776.18 | 92.23 |
| J-658 | 2,598.00 | Zone | Demand | 0.30 | RESIDENTIAL | 0.30 | 2,778.67 | 78.17 |
| J-659 | 2,638.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,753.78 | 50.09 |
| J-660 | 2,640.00 | Zone | Demand | 0.62 | COMMERCIAL | 0.62 | 2,753.78 | 49.23 |
| J-661 | 2,641.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,753.78 | 48.79 |
| J-750 | 2,652.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,858.40 | 89.30 |
| J-751 | 2,571.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,766.25 | 84.48 |
| J-752 | 2,567.00 | Zone | Demand | 20.81 | COMMERCIAL | 20.81 | 2,782.52 | 93.25 |
| J-813 | 2,565.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,775.55 | 91.10 |
| J-814 | 2,560.50 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,775.22 | 92.90 |
| J-822 | 2,615.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,779.08 | 70.99 |
| J-823 | 2,636.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,792.80 | 67.84 |
| J-824 | 2,621.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,788.49 | 72.47 |
| J-825 | 2,609.00 | Zone | Demand | 12.32 | COMMERCIAL | 12.32 | 2,764.37 | 67.22 |
| J-826 | 2,579.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,778.44 | 86.29 |
| J-827 | 2,579.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,778.49 | 86.31 |
| J-828 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,778.64 | 83.78 |
| J-829 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,778.61 | 83.77 |
| J-830 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,778.58 | 83.75 |
| J-831 | 2,585.00 | Zone | Demand | 109.76 | Fixed | 109.76 | 2,778.57 | 83.75 |
| J-832 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,778.56 | 83.75 |
| J-833 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,778.56 | 83.74 |
| J-834 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,778.56 | 83.74 |
| J-835 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,778.56 | 83.74 |
| J-836 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,778.56 | 83.74 |
| J-837 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,778.56 | 83.74 |
| J-838 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,778.56 | 83.74 |
| J-840 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,778.62 | 83.77 |
| J-841 | 2,564.50 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,776.87 | 91.88 |
| J-842 | 2,552.50 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,776.10 | 96.74 |
| J-843 | 2,560.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,776.64 | 93.73 |
| J-844 | 2,663.30 | Zone | Demand | 0.68 | RESIDENTIAL | 0.68 | 2,831.64 | 72.83 |
| J-845 | 2,664.70 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,833.65 | 73.10 |
| J-846 | 2,665.90 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,835.47 | 73.36 |
| J-847 | 2,661.70 | Zone | Demand | 2.04 | RESIDENTIAL | 2.04 | 2,831.64 | 73.53 |
| J-848 | 2,664.70 | Zone | Demand | 1.37 | RESIDENTIAL | 1.37 | 2,833.65 | 73.10 |
| J-849 | 2,665.90 | Zone | Demand | 1.37 | RESIDENTIAL | 1.37 | 2,835.47 | 73.36 |
| J-850 | 2,567.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,786.50 | 94.97 |
| J-851 | 2,574.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,772.27 | 85.78 |
| J-852 | 2,574.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,772.27 | 85.78 |
| J-853 | 2,575.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,772.27 | 85.35 |
| J-901 | 2,591.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,778.97 | 81.32 |
| J-906 | 2,553.50 | Zone | Demand | 4.26 | COMMERCIAL | 4.26 | 2,776.09 | 96.30 |
| J-917 | 2,625.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,781.44 | 67.68 |
| J-981 | 2,640.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,742.02 | 44.14 |
| J-982 | 2,644.50 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,750.10 | 45.69 |

Scenario: 2026
Fire Flow Analysis
Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-1 | 370.00 | 8.0 | PVC | Open | | 257.59 | 1.64 | 2,777.63 | 2,777.14 | 1.31 | 0.48 |
| P-2 | 266.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,777.63 | 2,777.63 | 0.00 | 0.00 |
| P-3 | 365.00 | 8.0 | PVC | Open | | 268.34 | 1.71 | 2,778.14 | 2,777.63 | 1.41 | 0.52 |
| P-4 | 357.00 | 8.0 | PVC | Open | | 160.65 | 1.03 | 2,778.33 | 2,778.14 | 0.54 | 0.19 |
| P-5 | 369.00 | 8.0 | PVC | Open | | 64.31 | 0.41 | 2,778.37 | 2,778.33 | 0.10 | 0.04 |
| P-6 | 223.00 | 6.0 | PVC | Open | | 1.16 | 0.01 | 2,778.37 | 2,778.37 | 0.00 | 0.00 |
| P-7 | 358.00 | 8.0 | PVC | Open | | 65.47 | 0.42 | 2,778.41 | 2,778.37 | 0.11 | 0.04 |
| P-8 | 530.00 | 8.0 | PVC | Open | | 5.39 | 0.03 | 2,778.41 | 2,778.41 | 0.00 | 0.00 |
| P-9 | 320.00 | 8.0 | PVC | Open | | 10.08 | 0.06 | 2,778.45 | 2,778.45 | 0.00 | 0.00 |
| P-10 | 680.00 | 8.0 | PVC | Open | | 84.63 | 0.54 | 2,778.52 | 2,778.41 | 0.17 | 0.11 |
| P-11 | 314.00 | 8.0 | PVC | Open | | 90.18 | 0.58 | 2,778.47 | 2,778.41 | 0.19 | 0.06 |
| P-12 | 520.00 | 8.0 | PVC | Open | | 32.80 | 0.21 | 2,778.49 | 2,778.47 | 0.03 | 0.02 |
| P-13 | 660.00 | 8.0 | PVC | Open | | 33.74 | 0.22 | 2,778.51 | 2,778.49 | 0.03 | 0.02 |
| P-14 | 130.00 | 6.0 | PVC | Open | | 2.92 | 0.03 | 2,778.49 | 2,778.48 | 0.00 | 0.00 |
| P-15 | 770.00 | 6.0 | PVC | Open | | -18.51 | 0.21 | 2,778.49 | 2,778.52 | 0.04 | 0.03 |
| P-16 | 446.00 | 8.0 | PVC | Open | | 68.08 | 0.43 | 2,778.52 | 2,778.47 | 0.11 | 0.05 |
| P-17 | 380.00 | 8.0 | PVC | Open | | 98.27 | 0.63 | 2,778.60 | 2,778.52 | 0.22 | 0.08 |
| P-18 | 270.00 | 8.0 | PVC | Open | | 3.65 | 0.02 | 2,778.60 | 2,778.60 | 0.00 | 0.00 |
| P-19 | 440.00 | 8.0 | PVC | Open | | -50.64 | 0.32 | 2,778.60 | 2,778.62 | 0.07 | 0.03 |
| P-20 | 83.00 | 8.0 | PVC | Open | | 6.09 | 0.04 | 2,778.62 | 2,778.62 | 0.00 | 0.00 |
| P-21 | 72.00 | 8.0 | PVC | Open | | -60.81 | 0.39 | 2,778.69 | 2,778.69 | 0.09 | 0.01 |
| P-22 | 572.00 | 8.0 | PVC | Open | | -66.16 | 0.42 | 2,778.62 | 2,778.69 | 0.11 | 0.06 |
| P-23 | 195.00 | 6.0 | PVC | Open | | 41.08 | 0.47 | 2,778.64 | 2,778.60 | 0.18 | 0.04 |
| P-24 | 826.00 | 6.0 | PVC | Open | | -22.87 | 0.26 | 2,778.64 | 2,778.69 | 0.06 | 0.05 |
| P-25 | 368.00 | 8.0 | PVC | Open | | 26.45 | 0.17 | 2,778.69 | 2,778.68 | 0.02 | 0.01 |
| P-26 | 282.00 | 8.0 | PVC | Open | | 55.30 | 0.35 | 2,778.71 | 2,778.69 | 0.08 | 0.02 |
| P-27 | 228.00 | 8.0 | PVC | Open | | 70.86 | 0.45 | 2,778.74 | 2,778.71 | 0.12 | 0.03 |
| P-28 | 603.00 | 8.0 | PVC | Open | | 66.69 | 0.43 | 2,778.74 | 2,778.68 | 0.11 | 0.07 |
| P-29 | 340.00 | 6.0 | PVC | Open | | 30.86 | 0.35 | 2,778.68 | 2,778.64 | 0.11 | 0.04 |
| P-30 | 560.00 | 8.0 | PVC | Open | | -20.27 | 0.13 | 2,778.67 | 2,778.68 | 0.01 | 0.01 |
| P-31 | 249.00 | 8.0 | PVC | Open | | 108.73 | 0.69 | 2,778.67 | 2,778.60 | 0.26 | 0.07 |
| P-32 | 660.00 | 8.0 | PVC | Open | | 102.08 | 0.65 | 2,778.82 | 2,778.67 | 0.24 | 0.16 |
| P-33 | 400.00 | 6.0 | PVC | Open | | 4.57 | 0.05 | 2,778.82 | 2,778.82 | 0.00 | 0.00 |
| P-34 | 171.00 | 8.0 | PVC | Open | | 109.57 | 0.70 | 2,778.87 | 2,778.82 | 0.27 | 0.05 |
| P-35 | 375.00 | 8.0 | PVC | Open | | 82.78 | 0.53 | 2,778.93 | 2,778.87 | 0.16 | 0.06 |
| P-36 | 180.00 | 6.0 | PVC | Open | | -21.06 | 0.24 | 2,778.92 | 2,778.93 | 0.06 | 0.01 |
| P-37 | 318.00 | 6.0 | PVC | Open | | 11.67 | 0.13 | 2,778.92 | 2,778.91 | 0.02 | 0.01 |
| P-38 | 310.00 | 6.0 | PVC | Open | | -5.50 | 0.06 | 2,778.92 | 2,778.92 | 0.00 | 0.00 |
| P-39 | 238.00 | 6.0 | PVC | Open | | -28.50 | 0.32 | 2,778.90 | 2,778.92 | 0.10 | 0.02 |
| P-40 | 250.00 | 6.0 | Asbestos | Open | | -12.35 | 0.14 | 2,778.89 | 2,778.90 | 0.02 | 0.01 |
| P-41 | 164.00 | 8.0 | PVC | Open | | 9.05 | 0.06 | 2,778.89 | 2,778.89 | 0.00 | 0.00 |
| P-42 | 64.00 | 8.0 | PVC | Open | | 42.78 | 0.27 | 2,778.60 | 2,778.60 | 0.05 | 0.00 |
| P-43 | 80.00 | 8.0 | PVC | Open | | 191.19 | 1.22 | 2,778.90 | 2,778.84 | 0.75 | 0.06 |
| P-44 | 479.00 | 8.0 | PVC | Open | | 38.68 | 0.25 | 2,778.84 | 2,778.82 | 0.04 | 0.02 |
| P-45 | 70.00 | 8.0 | PVC | Open | | 71.50 | 0.46 | 2,778.90 | 2,778.89 | 0.12 | 0.01 |
| P-46 | 61.00 | 8.0 | PVC | Open | | -109.45 | 0.70 | 2,778.72 | 2,778.74 | 0.27 | 0.02 |
| P-47 | 451.00 | 8.0 | PVC | Open | | 58.55 | 0.37 | 2,778.89 | 2,778.85 | 0.09 | 0.04 |
| P-48 | 172.00 | 8.0 | PVC | Open | | 92.03 | 0.59 | 2,778.85 | 2,778.82 | 0.20 | 0.03 |
| P-49 | 149.00 | 6.0 | PVC | Open | | -37.37 | 0.42 | 2,778.85 | 2,778.88 | 0.15 | 0.02 |
| P-50 | 390.00 | 6.0 | Asbestos | Open | | 17.51 | 0.20 | 2,778.89 | 2,778.88 | 0.04 | 0.02 |
| P-51 | 250.00 | 6.0 | Asbestos | Open | | -22.78 | 0.26 | 2,778.88 | 2,778.89 | 0.06 | 0.02 |

Scenario: 2026
Fire Flow Analysis
Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|-----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-52 | 390.00 | 6.0 | Asbestos | Open | | 9.34 | 0.11 | 2,778.90 | 2,778.89 | 0.01 | 0.01 |
| P-53 | 261.00 | 6.0 | Asbestos | Open | | 17.51 | 0.20 | 2,778.89 | 2,778.88 | 0.04 | 0.01 |
| P-54 | 211.00 | 6.0 | Asbestos | Open | | 3.89 | 0.04 | 2,778.88 | 2,778.88 | 0.00 | 0.00 |
| P-55 | 330.00 | 6.0 | Asbestos | Open | | 8.76 | 0.10 | 2,778.88 | 2,778.88 | 0.01 | 0.00 |
| P-56 | 352.00 | 6.0 | PVC | Open | | -38.73 | 0.44 | 2,778.89 | 2,778.95 | 0.17 | 0.06 |
| P-57 | 330.00 | 6.0 | PVC | Open | | 27.87 | 0.32 | 2,778.95 | 2,778.92 | 0.09 | 0.03 |
| P-58 | 220.00 | 6.0 | PVC | Open | | 75.36 | 0.86 | 2,779.07 | 2,778.95 | 0.55 | 0.12 |
| P-59 | 444.00 | 6.0 | PVC | Open | | 9.73 | 0.11 | 2,779.07 | 2,779.06 | 0.01 | 0.01 |
| P-60 | 31.00 | 6.0 | PVC | Open | | 89.95 | 1.02 | 2,779.10 | 2,779.07 | 0.77 | 0.02 |
| P-61 | 83.00 | 6.0 | PVC | Open | | 107.39 | 1.22 | 2,779.18 | 2,779.10 | 1.07 | 0.09 |
| P-63 | 87.00 | 6.0 | Ductile I | Open | | 435.36 | 4.94 | 2,612.55 | 2,611.00 | 17.79 | 1.55 |
| P-64 | 15.00 | 6.0 | PVC | Open | | 107.39 | 1.22 | 2,779.20 | 2,779.18 | 1.07 | 0.02 |
| P-65 | 251.00 | 8.0 | PVC | Open | | 142.11 | 0.91 | 2,779.20 | 2,779.09 | 0.43 | 0.11 |
| P-66 | 334.00 | 6.0 | PVC | Open | | 17.45 | 0.20 | 2,779.10 | 2,779.08 | 0.04 | 0.01 |
| P-67 | 129.00 | 8.0 | PVC | Open | | -14.24 | 0.09 | 2,779.08 | 2,779.08 | 0.01 | 0.00 |
| P-68 | 556.00 | 8.0 | PVC | Open | | -37.21 | 0.24 | 2,779.06 | 2,779.08 | 0.04 | 0.02 |
| P-69 | 387.00 | 8.0 | PVC | Open | | 39.52 | 0.25 | 2,779.10 | 2,779.09 | 0.04 | 0.02 |
| P-71 | 131.00 | 8.0 | PVC | Open | | -15.31 | 0.10 | 2,779.08 | 2,779.08 | 0.01 | 0.00 |
| P-72 | 150.00 | 8.0 | PVC | Open | | -64.44 | 0.41 | 2,779.10 | 2,779.12 | 0.10 | 0.02 |
| P-73 | 326.00 | 6.0 | PVC | Open | | 40.17 | 0.46 | 2,779.12 | 2,779.06 | 0.18 | 0.06 |
| P-74 | 570.00 | 6.0 | PVC | Open | | 16.16 | 0.18 | 2,779.08 | 2,779.06 | 0.04 | 0.02 |
| P-75 | 280.00 | 8.0 | PVC | Open | | -1.66 | 0.01 | 2,779.08 | 2,779.08 | 0.00 | 0.00 |
| P-76 | 402.00 | 8.0 | PVC | Open | | -28.54 | 0.18 | 2,779.08 | 2,779.09 | 0.02 | 0.01 |
| P-77 | 150.00 | 6.0 | PVC | Open | | 107.73 | 1.22 | 2,779.09 | 2,778.93 | 1.08 | 0.16 |
| P-78 | 700.00 | 6.0 | PVC | Open | | 39.44 | 0.45 | 2,778.99 | 2,778.87 | 0.17 | 0.12 |
| P-79 | 325.00 | 6.0 | PVC | Open | | 45.60 | 0.52 | 2,779.06 | 2,778.99 | 0.22 | 0.07 |
| P-80 | 360.00 | 6.0 | PVC | Open | | -7.46 | 0.08 | 2,778.99 | 2,778.99 | 0.01 | 0.00 |
| P-81 | 158.00 | 4.0 | PVC | Open | | 4.86 | 0.12 | 2,778.99 | 2,778.99 | 0.03 | 0.00 |
| P-82 | 985.00 | 6.0 | PVC | Open | | 27.89 | 0.32 | 2,779.08 | 2,778.99 | 0.09 | 0.09 |
| P-83 | 930.00 | 8.0 | PVC | Open | | 83.74 | 0.53 | 2,779.08 | 2,778.93 | 0.16 | 0.15 |
| P-84 | 550.00 | 6.0 | PVC | Open | | 8.76 | 0.10 | 2,778.93 | 2,778.92 | 0.01 | 0.01 |
| P-85 | 410.00 | 8.0 | PVC | Open | | 147.28 | 0.94 | 2,778.93 | 2,778.74 | 0.46 | 0.19 |
| P-86 | 660.00 | 6.0 | PVC | Open | | 95.65 | 1.09 | 2,779.50 | 2,778.93 | 0.86 | 0.57 |
| P-87 | 130.00 | 4.0 | PVC | Open | | 4.86 | 0.12 | 2,779.50 | 2,779.50 | 0.03 | 0.00 |
| P-88 | 314.00 | 4.0 | PVC | Open | | 9.73 | 0.25 | 2,779.50 | 2,779.47 | 0.10 | 0.03 |
| P-89 | 1,283.00 | 6.0 | PVC | Open | | 129.70 | 1.47 | 2,781.45 | 2,779.50 | 1.52 | 1.95 |
| P-90 | 910.00 | 6.0 | PVC | Open | | 145.73 | 1.65 | 2,781.45 | 2,779.73 | 1.89 | 1.72 |
| P-91 | 383.00 | 8.0 | PVC | Open | | 262.93 | 1.68 | 2,779.73 | 2,779.21 | 1.36 | 0.52 |
| P-92 | 300.00 | 8.0 | PVC | Open | | 115.31 | 0.74 | 2,779.21 | 2,779.12 | 0.29 | 0.09 |
| P-93 | 292.00 | 8.0 | PVC | Open | | 140.81 | 0.90 | 2,779.21 | 2,779.08 | 0.42 | 0.12 |
| P-94 | 372.00 | 8.0 | PVC | Open | | 124.01 | 0.79 | 2,779.85 | 2,779.73 | 0.34 | 0.13 |
| P-95 | 150.00 | 2.0 | PVC | Open | | 4.86 | 0.50 | 2,779.85 | 2,779.73 | 0.85 | 0.13 |
| P-96 | 340.00 | 8.0 | PVC | Open | | 132.77 | 0.85 | 2,779.98 | 2,779.85 | 0.38 | 0.13 |
| P-97 | 125.00 | 8.0 | PVC | Open | | 104.95 | 0.67 | 2,780.01 | 2,779.98 | 0.25 | 0.03 |
| P-98 | 158.00 | 2.0 | PVC | Open | | 4.86 | 0.50 | 2,780.01 | 2,779.88 | 0.85 | 0.13 |
| P-99 | 360.00 | 8.0 | PVC | Open | | 112.74 | 0.72 | 2,780.12 | 2,780.01 | 0.28 | 0.10 |
| P-100 | 809.00 | 6.0 | PVC | Open | | 38.51 | 0.44 | 2,780.12 | 2,779.98 | 0.16 | 0.13 |
| P-101 | 95.00 | 4.0 | PVC | Open | | 2.92 | 0.07 | 2,779.08 | 2,779.07 | 0.01 | 0.00 |
| P-102 | 620.00 | 8.0 | PVC | Open | | 162.92 | 1.04 | 2,780.46 | 2,780.12 | 0.56 | 0.34 |
| P-103 | 150.00 | 6.0 | PVC | Open | | 82.25 | 0.93 | 2,785.52 | 2,785.42 | 0.65 | 0.10 |
| P-104 | 980.00 | 6.0 | PVC | Open | | 139.22 | 1.58 | 2,785.52 | 2,783.82 | 1.74 | 1.70 |

Title: INITIAL RUN

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01/17/07 12:40:06 PM Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA

Project Engineer: DMC
WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026
Fire Flow Analysis
Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|-----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-105 | 280.00 | 4.0 | PVC | Open | | 14.31 | 0.37 | 2,783.82 | 2,783.76 | 0.20 | 0.06 |
| P-106 | 50.00 | 6.0 | PVC | Open | | 116.16 | 1.32 | 2,783.82 | 2,783.75 | 1.24 | 0.06 |
| P-107 | 233.00 | 4.0 | PVC | Open | | 4.57 | 0.12 | 2,783.76 | 2,783.75 | 0.03 | 0.01 |
| P-108 | 110.00 | 4.0 | PVC | Open | | 6.82 | 0.17 | 2,783.76 | 2,783.75 | 0.06 | 0.01 |
| P-109 | 207.00 | 6.0 | PVC | Open | | 117.82 | 1.34 | 2,783.75 | 2,783.49 | 1.27 | 0.26 |
| P-110 | 300.00 | 6.0 | PVC | Open | | 285.89 | 3.24 | 2,783.49 | 2,781.45 | 6.80 | 2.04 |
| P-111 | 470.00 | 6.0 | PVC | Open | | 2.68 | 0.03 | 2,781.45 | 2,781.45 | 0.00 | 0.00 |
| P-112 | 120.00 | 2.0 | PVC | Open | | 3.89 | 0.40 | 2,781.45 | 2,781.38 | 0.57 | 0.07 |
| P-113 | 124.00 | 6.0 | PVC | Open | | -3.15 | 0.04 | 2,781.45 | 2,781.45 | 0.00 | 0.00 |
| P-114 | 145.00 | 6.0 | PVC | Open | | -4.65 | 0.05 | 2,781.45 | 2,781.45 | 0.00 | 0.00 |
| P-115 | 430.00 | 6.0 | PVC | Open | | 14.59 | 0.17 | 2,781.45 | 2,781.44 | 0.03 | 0.01 |
| P-116 | 316.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,781.44 | 2,781.44 | 0.00 | 0.00 |
| P-117 | 250.00 | 6.0 | PVC | Open | | 23.15 | 0.26 | 2,781.47 | 2,781.45 | 0.07 | 0.02 |
| P-118 | 190.00 | 4.0 | PVC | Open | | 2.91 | 0.07 | 2,781.47 | 2,781.47 | 0.01 | 0.00 |
| P-119 | 240.00 | 6.0 | PVC | Open | | 28.97 | 0.33 | 2,781.49 | 2,781.47 | 0.10 | 0.02 |
| P-120 | 621.00 | 6.0 | PVC | Open | | 20.59 | 0.23 | 2,781.49 | 2,781.46 | 0.05 | 0.03 |
| P-121 | 100.00 | 4.0 | PVC | Open | | 3.89 | 0.10 | 2,781.46 | 2,781.46 | 0.02 | 0.00 |
| P-122 | 280.00 | 6.0 | PVC | Open | | 12.11 | 0.14 | 2,781.46 | 2,781.45 | 0.02 | 0.01 |
| P-123 | 140.00 | 6.0 | PVC | Open | | 3.89 | 0.04 | 2,781.45 | 2,781.45 | 0.00 | 0.00 |
| P-124 | 530.00 | 6.0 | PVC | Open | | -4.33 | 0.05 | 2,781.45 | 2,781.45 | 0.00 | 0.00 |
| P-125 | 270.00 | 6.0 | PVC | Open | | 53.46 | 0.61 | 2,781.57 | 2,781.49 | 0.30 | 0.08 |
| P-126 | 78.00 | 6.0 | PVC | Open | | 13.62 | 0.15 | 2,781.57 | 2,781.57 | 0.03 | 0.00 |
| P-127 | 610.00 | 4.0 | PVC | Open | | 10.70 | 0.27 | 2,781.57 | 2,781.50 | 0.12 | 0.07 |
| P-128 | 430.00 | 8.0 | PVC | Open | | 67.08 | 0.43 | 2,781.62 | 2,781.57 | 0.11 | 0.05 |
| P-129 | 250.00 | 8.0 | PVC | Open | | 8.73 | 0.06 | 2,781.62 | 2,781.62 | 0.00 | 0.00 |
| P-130 | 480.00 | 6.0 | PVC | Open | | 10.70 | 0.12 | 2,781.62 | 2,781.61 | 0.02 | 0.01 |
| P-131 | 100.00 | 6.0 | PVC | Open | | 2.92 | 0.03 | 2,781.61 | 2,781.61 | 0.00 | 0.00 |
| P-132 | 80.00 | 6.0 | PVC | Open | | 2.92 | 0.03 | 2,781.61 | 2,781.61 | 0.00 | 0.00 |
| P-133 | 165.00 | 8.0 | PVC | Open | | 27.22 | 0.17 | 2,781.62 | 2,781.62 | 0.02 | 0.00 |
| P-134 | 270.00 | 6.0 | PVC | Open | | 5.84 | 0.07 | 2,781.62 | 2,781.62 | 0.00 | 0.00 |
| P-135 | 243.00 | 8.0 | PVC | Open | | 40.84 | 0.26 | 2,781.63 | 2,781.62 | 0.05 | 0.01 |
| P-136 | 600.00 | 8.0 | PVC | Open | | 373.72 | 2.39 | 2,781.63 | 2,780.04 | 2.65 | 1.59 |
| P-137 | 1,300.00 | 8.0 | PVC | Open | | 420.40 | 2.68 | 2,785.94 | 2,781.63 | 3.31 | 4.31 |
| P-138 | 194.00 | 8.0 | PVC | Open | | -24.44 | 0.16 | 2,785.94 | 2,785.95 | 0.02 | 0.00 |
| P-139 | 1,200.00 | 4.0 | PVC | Open | | 69.67 | 1.78 | 2,785.95 | 2,781.62 | 3.61 | 4.33 |
| P-140 | 400.00 | 8.0 | PVC | Open | | -94.11 | 0.60 | 2,785.95 | 2,786.03 | 0.20 | 0.08 |
| P-141 | 67.00 | 8.0 | PVC | Open | | -273.68 | 1.75 | 2,786.03 | 2,786.13 | 1.47 | 0.10 |
| P-142 | 940.00 | 6.0 | PVC | Open | | 175.87 | 2.00 | 2,786.03 | 2,783.49 | 2.70 | 2.53 |
| P-143 | 95.00 | 8.0 | PVC | Open | | 401.79 | 2.56 | 2,786.23 | 2,785.94 | 3.04 | 0.29 |
| P-144 | 700.00 | 8.0 | PVC | Open | | 439.73 | 2.81 | 2,788.76 | 2,786.23 | 3.61 | 2.53 |
| P-145 | 260.00 | 8.0 | PVC | Open | | 226.16 | 1.44 | 2,788.50 | 2,788.23 | 1.03 | 0.27 |
| P-146 | 420.00 | 8.0 | PVC | Open | | 732.57 | 4.68 | 2,792.81 | 2,788.76 | 9.64 | 4.05 |
| P-147 | 656.00 | 8.0 | PVC | Open | | 32.10 | 0.20 | 2,786.23 | 2,786.21 | 0.03 | 0.02 |
| P-148 | 548.00 | 6.0 | PVC | Open | | 11.11 | 0.13 | 2,786.21 | 2,786.20 | 0.02 | 0.01 |
| P-149 | 1,112.00 | 6.0 | PVC | Open | | 7.38 | 0.08 | 2,786.21 | 2,786.20 | 0.01 | 0.01 |
| P-150 | 867.00 | 12.0 | PVC | Open | | 1,826.04 | 5.18 | 2,759.97 | 2,753.77 | 7.15 | 6.20 |
| P-151 | 601.00 | 6.0 | PVC | Open | | 2.92 | 0.03 | 2,786.20 | 2,786.20 | 0.00 | 0.00 |
| P-152 | 570.00 | 8.0 | PVC | Open | | 694.79 | 4.43 | 2,785.42 | 2,780.46 | 8.70 | 4.96 |
| P-154 | 5.00 | 6.0 | Ductile I | Open | | 101.55 | 1.15 | 2,611.00 | 2,610.99 | 1.07 | 0.01 |
| P-155 | 5.00 | 6.0 | Ductile I | Open | | 147.96 | 1.68 | 2,611.00 | 2,610.99 | 2.20 | 0.01 |
| P-156 | 5.00 | 6.0 | Ductile I | Open | | -0.00 | 0.00 | 2,611.00 | 2,611.00 | 0.00 | 0.00 |

Title: INITIAL RUN

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01/17/07 12:40:06 Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA

Project Engineer: DMC
WaterCAD v7.0 [07.00.049.00]
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Scenario: 2026
Fire Flow Analysis
Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|-----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-157 | 20.00 | 6.0 | Ductile I | Open | | 101.55 | 1.15 | 2,779.22 | 2,779.20 | 1.06 | 0.02 |
| P-158 | 15.00 | 6.0 | Ductile I | Open | | 147.96 | 1.68 | 2,779.23 | 2,779.20 | 2.18 | 0.03 |
| P-159 | 10.00 | 6.0 | Ductile I | Open | | -0.00 | 0.00 | 2,779.20 | 2,779.20 | 0.00 | 0.00 |
| P-160 | 170.00 | 8.0 | PVC | Open | | -61.50 | 0.39 | 2,778.62 | 2,778.64 | 0.09 | 0.02 |
| P-161 | 575.00 | 8.0 | PVC | Open | | -54.40 | 0.35 | 2,778.64 | 2,778.68 | 0.08 | 0.04 |
| P-162 | 797.00 | 6.0 | PVC | Open | | -20.72 | 0.24 | 2,778.64 | 2,778.68 | 0.05 | 0.04 |
| P-163 | 505.00 | 6.0 | PVC | Open | | -86.79 | 0.98 | 2,778.68 | 2,779.04 | 0.72 | 0.36 |
| P-164 | 420.00 | 8.0 | PVC | Open | | 614.49 | 3.92 | 2,788.30 | 2,785.42 | 6.86 | 2.88 |
| P-165 | 150.00 | 8.0 | PVC | Open | | 46.21 | 0.29 | 2,788.30 | 2,788.30 | 0.06 | 0.01 |
| P-166 | 507.00 | 8.0 | PVC | Open | | 365.88 | 2.34 | 2,780.04 | 2,778.76 | 2.54 | 1.29 |
| P-167 | 1.00 | 96.0 | PVC | Open | | 262.69 | 0.01 | 2,534.00 | 2,534.00 | 0.00 | 0.00 |
| P-169 | 48.00 | 8.0 | PVC | Open | | 262.69 | 1.68 | 2,778.97 | 2,778.90 | 1.36 | 0.07 |
| P-170 | 364.00 | 4.0 | PVC | Open | | 3.89 | 0.10 | 2,778.60 | 2,778.59 | 0.02 | 0.01 |
| P-171 | 880.00 | 8.0 | PVC | Open | | 660.70 | 4.22 | 2,795.25 | 2,788.30 | 7.89 | 6.95 |
| P-172 | 340.00 | 8.0 | PVC | Open | | -60.96 | 0.39 | 2,778.69 | 2,778.72 | 0.09 | 0.03 |
| P-173 | 160.00 | 6.0 | PVC | Open | | 0.15 | 0.00 | 2,778.69 | 2,778.69 | 0.00 | 0.00 |
| P-174 | 460.00 | 8.0 | PVC | Open | | 7.78 | 0.05 | 2,778.71 | 2,778.71 | 0.00 | 0.00 |
| P-175 | 260.00 | 8.0 | PVC | Open | | 29.79 | 0.19 | 2,779.09 | 2,779.08 | 0.03 | 0.01 |
| P-176 | 80.00 | 2.0 | PVC | Open | | 2.92 | 0.30 | 2,779.09 | 2,779.06 | 0.34 | 0.03 |
| P-177 | 170.00 | 8.0 | PVC | Open | | 48.76 | 0.31 | 2,778.68 | 2,778.67 | 0.06 | 0.01 |
| P-178 | 420.00 | 6.0 | PVC | Open | | 1.23 | 0.01 | 2,778.67 | 2,778.67 | 0.00 | 0.00 |
| P-179 | 393.00 | 8.0 | PVC | Open | | 25.66 | 0.16 | 2,778.67 | 2,778.67 | 0.02 | 0.01 |
| P-180 | 120.00 | 8.0 | PVC | Open | | 15.68 | 0.10 | 2,778.67 | 2,778.67 | 0.01 | 0.00 |
| P-181 | 394.00 | 8.0 | PVC | Open | | -46.75 | 0.30 | 2,778.69 | 2,778.71 | 0.06 | 0.02 |
| P-182 | 225.00 | 8.0 | PVC | Open | | -48.49 | 0.31 | 2,778.71 | 2,778.72 | 0.06 | 0.01 |
| P-183 | 442.00 | 8.0 | PVC | Open | | -134.32 | 0.86 | 2,778.74 | 2,778.91 | 0.39 | 0.17 |
| P-185 | 258.00 | 8.0 | PVC | Open | | 273.87 | 1.75 | 2,788.23 | 2,787.85 | 1.47 | 0.38 |
| P-186 | 1,300.00 | 6.0 | PVC | Open | | 110.08 | 1.25 | 2,787.85 | 2,786.39 | 1.12 | 1.46 |
| P-187 | 700.00 | 6.0 | PVC | Open | | 153.21 | 1.74 | 2,787.85 | 2,786.39 | 2.08 | 1.46 |
| P-188 | 800.00 | 8.0 | PVC | Open | | 234.10 | 1.49 | 2,786.39 | 2,785.52 | 1.09 | 0.88 |
| P-189 | 158.00 | 8.0 | PVC | Open | | 292.84 | 1.87 | 2,788.76 | 2,788.50 | 1.67 | 0.26 |
| P-190 | 700.00 | 8.0 | PVC | Open | | 41.44 | 0.26 | 2,788.26 | 2,788.23 | 0.05 | 0.03 |
| P-191 | 260.00 | 8.0 | PVC | Open | | 73.98 | 0.47 | 2,788.30 | 2,788.26 | 0.13 | 0.03 |
| P-192 | 700.00 | 6.0 | PVC | Open | | 18.93 | 0.21 | 2,788.26 | 2,788.23 | 0.05 | 0.03 |
| P-193 | 698.00 | 6.0 | PVC | Open | | 32.64 | 0.37 | 2,788.38 | 2,788.30 | 0.12 | 0.08 |
| P-194 | 448.00 | 8.0 | PVC | Open | | 30.16 | 0.19 | 2,777.14 | 2,777.13 | 0.03 | 0.01 |
| P-195 | 480.00 | 8.0 | PVC | Open | | 8.97 | 0.06 | 2,777.13 | 2,777.13 | 0.00 | 0.00 |
| P-196 | 800.00 | 8.0 | PVC | Open | | 7.57 | 0.05 | 2,777.13 | 2,777.13 | 0.00 | 0.00 |
| P-197 | 242.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,777.13 | 2,777.13 | 0.00 | 0.00 |
| P-198 | 371.00 | 8.0 | PVC | Open | | 222.75 | 1.42 | 2,777.14 | 2,776.77 | 1.00 | 0.37 |
| P-199 | 846.00 | 8.0 | PVC | Open | | 25.09 | 0.16 | 2,776.77 | 2,776.75 | 0.02 | 0.02 |
| P-200 | 1,095.00 | 8.0 | PVC | Open | | 66.21 | 0.42 | 2,776.72 | 2,776.60 | 0.11 | 0.12 |
| P-201 | 221.00 | 8.0 | PVC | Open | | 194.63 | 1.24 | 2,776.77 | 2,776.60 | 0.77 | 0.17 |
| P-202 | 273.00 | 8.0 | PVC | Open | | 153.16 | 0.98 | 2,776.60 | 2,776.46 | 0.50 | 0.14 |
| P-203 | 523.00 | 8.0 | PVC | Open | | 106.56 | 0.68 | 2,776.60 | 2,776.47 | 0.25 | 0.13 |
| P-204 | 573.00 | 8.0 | PVC | Open | | 47.33 | 0.30 | 2,776.75 | 2,776.72 | 0.06 | 0.03 |
| P-205 | 257.00 | 8.0 | PVC | Open | | 16.36 | 0.10 | 2,776.47 | 2,776.46 | 0.01 | 0.00 |
| P-206 | 616.00 | 8.0 | PVC | Open | | 83.15 | 0.53 | 2,776.47 | 2,776.37 | 0.16 | 0.10 |
| P-207 | 173.00 | 6.0 | PVC | Open | | 3.89 | 0.04 | 2,776.37 | 2,776.37 | 0.00 | 0.00 |
| P-208 | 796.00 | 8.0 | PVC | Open | | 63.69 | 0.41 | 2,776.37 | 2,776.29 | 0.10 | 0.08 |
| P-209 | 188.00 | 6.0 | PVC | Open | | 4.86 | 0.06 | 2,776.29 | 2,776.29 | 0.00 | 0.00 |

Title: INITIAL RUN

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01/17/07 12:40:06 PM Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA

Project Engineer: DMC
WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026
Fire Flow Analysis
Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-210 | 310.00 | 8.0 | PVC | Open | | 52.14 | 0.33 | 2,776.29 | 2,776.27 | 0.07 | 0.02 |
| P-211 | 158.00 | 6.0 | PVC | Open | | 4.86 | 0.06 | 2,776.27 | 2,776.26 | 0.00 | 0.00 |
| P-212 | 275.00 | 8.0 | PVC | Open | | 45.90 | 0.29 | 2,776.27 | 2,776.25 | 0.06 | 0.02 |
| P-213 | 272.00 | 6.0 | PVC | Open | | 17.33 | 0.20 | 2,776.25 | 2,776.24 | 0.04 | 0.01 |
| P-214 | 270.00 | 8.0 | PVC | Open | | 22.06 | 0.14 | 2,776.25 | 2,776.25 | 0.02 | 0.00 |
| P-215 | 438.00 | 8.0 | PVC | Open | | 8.07 | 0.05 | 2,776.25 | 2,776.24 | 0.00 | 0.00 |
| P-216 | 49.00 | 6.0 | PVC | Open | | 1.95 | 0.02 | 2,776.24 | 2,776.24 | 0.00 | 0.00 |
| P-217 | 129.00 | 6.0 | PVC | Open | | 3.89 | 0.04 | 2,776.24 | 2,776.24 | 0.00 | 0.00 |
| P-218 | 168.00 | 8.0 | PVC | Open | | 7.17 | 0.05 | 2,776.25 | 2,776.25 | 0.00 | 0.00 |
| P-219 | 462.00 | 8.0 | PVC | Open | | 10.70 | 0.07 | 2,776.33 | 2,776.33 | 0.00 | 0.00 |
| P-220 | 225.00 | 8.0 | PVC | Open | | 168.54 | 1.08 | 2,776.46 | 2,776.33 | 0.59 | 0.13 |
| P-221 | 276.00 | 8.0 | PVC | Open | | 118.31 | 0.76 | 2,776.33 | 2,776.25 | 0.31 | 0.09 |
| P-223 | 460.00 | 8.0 | PVC | Open | | -2.93 | 0.02 | 2,776.05 | 2,776.05 | 0.00 | 0.00 |
| P-224 | 1,737.00 | 12.0 | PVC | Open | | -67.63 | 0.19 | 2,776.05 | 2,776.08 | 0.02 | 0.03 |
| P-225 | 309.00 | 8.0 | PVC | Open | | 57.36 | 0.37 | 2,776.08 | 2,776.06 | 0.08 | 0.03 |
| P-226 | 502.00 | 8.0 | PVC | Open | | 10.69 | 0.07 | 2,776.06 | 2,776.05 | 0.00 | 0.00 |
| P-227 | 237.00 | 4.0 | PVC | Open | | 6.81 | 0.17 | 2,776.06 | 2,776.04 | 0.05 | 0.01 |
| P-228 | 299.00 | 8.0 | PVC | Open | | 32.09 | 0.20 | 2,776.06 | 2,776.05 | 0.03 | 0.01 |
| P-229 | 498.00 | 6.0 | PVC | Open | | 7.78 | 0.09 | 2,776.05 | 2,776.04 | 0.01 | 0.00 |
| P-230 | 317.00 | 4.0 | PVC | Open | | 7.78 | 0.20 | 2,776.05 | 2,776.03 | 0.07 | 0.02 |
| P-231 | 327.00 | 8.0 | PVC | Open | | 12.63 | 0.08 | 2,776.05 | 2,776.04 | 0.01 | 0.00 |
| P-232 | 487.00 | 12.0 | PVC | Open | | -9.12 | 0.03 | 2,776.08 | 2,776.08 | 0.00 | 0.00 |
| P-233 | 464.00 | 6.0 | PVC | Open | | 5.84 | 0.07 | 2,776.08 | 2,776.08 | 0.00 | 0.00 |
| P-234 | 494.00 | 6.0 | PVC | Open | | 5.84 | 0.07 | 2,776.08 | 2,776.08 | 0.00 | 0.00 |
| P-235 | 332.00 | 12.0 | PVC | Open | | 13.24 | 0.04 | 2,776.08 | 2,776.08 | 0.00 | 0.00 |
| P-236 | 458.00 | 8.0 | PVC | Open | | 4.86 | 0.03 | 2,776.08 | 2,776.08 | 0.00 | 0.00 |
| P-237 | 298.00 | 6.0 | PVC | Open | | 2.22 | 0.03 | 2,776.08 | 2,776.08 | 0.00 | 0.00 |
| P-238 | 363.00 | 12.0 | PVC | Open | | 24.21 | 0.07 | 2,776.08 | 2,776.08 | 0.00 | 0.00 |
| P-239 | 465.00 | 8.0 | PVC | Open | | 33.94 | 0.22 | 2,776.10 | 2,776.08 | 0.03 | 0.02 |
| P-240 | 513.00 | 12.0 | PVC | Open | | 4.86 | 0.01 | 2,776.08 | 2,776.08 | 0.00 | 0.00 |
| P-241 | 654.00 | 8.0 | PVC | Open | | -24.24 | 0.15 | 2,778.77 | 2,778.78 | 0.02 | 0.01 |
| P-242 | 880.00 | 12.0 | PVC | Open | | -20.89 | 0.06 | 2,778.82 | 2,778.82 | 0.00 | 0.00 |
| P-243 | 980.00 | 12.0 | PVC | Open | | 313.02 | 0.89 | 2,779.07 | 2,778.82 | 0.25 | 0.25 |
| P-244 | 759.00 | 12.0 | PVC | Open | | 136.45 | 0.39 | 2,778.67 | 2,778.62 | 0.06 | 0.04 |
| P-245 | 100.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,778.62 | 2,778.62 | 0.00 | 0.00 |
| P-246 | 430.00 | 8.0 | PVC | Open | | 131.76 | 0.84 | 2,778.62 | 2,778.46 | 0.38 | 0.16 |
| P-247 | 712.00 | 8.0 | PVC | Open | | 54.81 | 0.35 | 2,778.46 | 2,778.41 | 0.08 | 0.05 |
| P-248 | 760.00 | 8.0 | PVC | Open | | 74.03 | 0.47 | 2,778.46 | 2,778.36 | 0.13 | 0.10 |
| P-249 | 50.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,778.36 | 2,778.36 | 0.00 | 0.00 |
| P-250 | 263.00 | 8.0 | PVC | Open | | 44.11 | 0.28 | 2,778.36 | 2,778.34 | 0.05 | 0.01 |
| P-251 | 50.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,778.36 | 2,778.36 | 0.00 | 0.00 |
| P-252 | 800.00 | 8.0 | PVC | Open | | 48.97 | 0.31 | 2,778.41 | 2,778.36 | 0.06 | 0.05 |
| P-253 | 655.00 | 12.0 | PVC | Open | | 187.24 | 0.53 | 2,778.82 | 2,778.76 | 0.10 | 0.06 |
| P-254 | 370.00 | 8.0 | PVC | Open | | 187.24 | 1.20 | 2,778.76 | 2,778.49 | 0.72 | 0.27 |
| P-255 | 1,670.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,778.76 | 2,778.76 | 0.00 | 0.00 |
| P-256 | 40.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,778.76 | 2,778.76 | 0.00 | 0.00 |
| P-257 | 650.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,778.76 | 2,778.76 | 0.00 | 0.00 |
| P-258 | 40.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,778.76 | 2,778.76 | 0.00 | 0.00 |
| P-259 | 1,020.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,778.76 | 2,778.76 | 0.00 | 0.00 |
| P-260 | 480.00 | 8.0 | PVC | Open | | 331.16 | 2.11 | 2,778.76 | 2,777.74 | 2.11 | 1.01 |
| P-261 | 167.00 | 8.0 | PVC | Open | | 554.63 | 3.54 | 2,777.74 | 2,776.80 | 5.63 | 0.94 |

Title: INITIAL RUN

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01/17/07 12:40:06 Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA

Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026
Fire Flow Analysis
Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-262 | 395.00 | 8.0 | PVC | Open | | 338.56 | 2.16 | 2,776.80 | 2,775.94 | 2.20 | 0.87 |
| P-263 | 527.00 | 8.0 | PVC | Open | | 160.08 | 1.02 | 2,775.94 | 2,775.65 | 0.54 | 0.28 |
| P-264 | 477.00 | 8.0 | PVC | Open | | 165.83 | 1.06 | 2,775.94 | 2,775.66 | 0.57 | 0.27 |
| P-265 | 341.00 | 8.0 | PVC | Open | | 31.19 | 0.20 | 2,775.66 | 2,775.65 | 0.03 | 0.01 |
| P-266 | 261.00 | 8.0 | PVC | Open | | 183.49 | 1.17 | 2,775.65 | 2,775.47 | 0.69 | 0.18 |
| P-267 | 136.00 | 8.0 | PVC | Open | | 248.03 | 1.58 | 2,775.47 | 2,775.31 | 1.22 | 0.17 |
| P-268 | 604.00 | 8.0 | PVC | Open | | 75.24 | 0.48 | 2,775.55 | 2,775.47 | 0.14 | 0.08 |
| P-269 | 355.00 | 8.0 | PVC | Open | | 118.08 | 0.75 | 2,775.66 | 2,775.55 | 0.31 | 0.11 |
| P-270 | 776.00 | 8.0 | PVC | Open | | 198.56 | 1.27 | 2,776.80 | 2,776.18 | 0.80 | 0.62 |
| P-271 | 810.00 | 8.0 | PVC | Open | | -232.43 | 1.48 | 2,777.74 | 2,778.62 | 1.08 | 0.87 |
| P-272 | 547.00 | 8.0 | PVC | Open | | 9.73 | 0.06 | 2,778.62 | 2,778.62 | 0.00 | 0.00 |
| P-273 | 618.00 | 8.0 | PVC | Open | | -185.52 | 1.18 | 2,778.62 | 2,779.06 | 0.71 | 0.44 |
| P-274 | 332.00 | 8.0 | PVC | Open | | -190.59 | 1.22 | 2,779.06 | 2,779.30 | 0.74 | 0.25 |
| P-275 | 700.00 | 8.0 | PVC | Open | | 89.91 | 0.57 | 2,779.30 | 2,779.17 | 0.19 | 0.13 |
| P-276 | 83.00 | 8.0 | PVC | Open | | -280.99 | 1.79 | 2,779.30 | 2,779.43 | 1.54 | 0.13 |
| P-277 | 419.00 | 8.0 | PVC | Open | | 53.43 | 0.34 | 2,779.43 | 2,779.40 | 0.07 | 0.03 |
| P-278 | 620.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,779.06 | 2,779.06 | 0.00 | 0.00 |
| P-280 | 813.00 | 8.0 | PVC | Open | | 114.24 | 0.73 | 2,778.34 | 2,778.11 | 0.29 | 0.24 |
| P-281 | 287.00 | 12.0 | PVC | Open | | 1,339.12 | 3.80 | 2,786.90 | 2,785.77 | 3.92 | 1.13 |
| P-282 | 797.00 | 12.0 | PVC | Open | | 1,314.45 | 3.73 | 2,782.52 | 2,779.50 | 3.79 | 3.02 |
| P-283 | 320.00 | 8.0 | PVC | Open | | 2.66 | 0.02 | 2,779.50 | 2,779.50 | 0.00 | 0.00 |
| P-284 | 388.00 | 12.0 | PVC | Open | | 1,310.88 | 3.72 | 2,779.50 | 2,778.04 | 3.77 | 1.46 |
| P-285 | 1,528.00 | 12.0 | PVC | Open | | 329.15 | 0.93 | 2,778.47 | 2,778.04 | 0.28 | 0.42 |
| P-286 | 358.00 | 12.0 | PVC | Open | | 1,614.00 | 4.58 | 2,778.04 | 2,776.03 | 5.63 | 2.02 |
| P-287 | 419.00 | 8.0 | PVC | Open | | 360.80 | 2.30 | 2,776.03 | 2,774.99 | 2.48 | 1.04 |
| P-288 | 341.00 | 8.0 | PVC | Open | | 350.10 | 2.23 | 2,774.99 | 2,774.19 | 2.34 | 0.80 |
| P-289 | 193.00 | 8.0 | PVC | Open | | 3.89 | 0.02 | 2,774.99 | 2,774.99 | 0.00 | 0.00 |
| P-290 | 267.00 | 12.0 | PVC | Open | | 1,248.33 | 3.54 | 2,776.03 | 2,775.11 | 3.43 | 0.92 |
| P-291 | 640.00 | 8.0 | PVC | Open | | 169.13 | 1.08 | 2,774.57 | 2,774.19 | 0.60 | 0.38 |
| P-292 | 460.00 | 12.0 | PVC | Open | | 798.79 | 2.27 | 2,774.57 | 2,773.90 | 1.46 | 0.67 |
| P-293 | 302.00 | 8.0 | PVC | Open | | 236.64 | 1.51 | 2,774.24 | 2,773.90 | 1.12 | 0.34 |
| P-294 | 213.00 | 12.0 | PVC | Open | | 1,026.67 | 2.91 | 2,773.90 | 2,773.40 | 2.36 | 0.50 |
| P-295 | 511.00 | 12.0 | PVC | Open | | 1,092.90 | 3.10 | 2,773.40 | 2,772.05 | 2.66 | 1.36 |
| P-296 | 305.00 | 12.0 | PVC | Open | | 69.44 | 0.20 | 2,773.41 | 2,773.40 | 0.02 | 0.00 |
| P-297 | 650.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,773.41 | 2,773.41 | 0.00 | 0.00 |
| P-298 | 516.00 | 12.0 | PVC | Open | | 830.33 | 2.36 | 2,773.41 | 2,772.60 | 1.57 | 0.81 |
| P-299 | 19.00 | 12.0 | PVC | Open | | 625.55 | 1.77 | 2,772.60 | 2,772.58 | 0.93 | 0.02 |
| P-300 | 1,334.00 | 8.0 | PVC | Open | | 204.78 | 1.31 | 2,772.60 | 2,771.46 | 0.85 | 1.14 |
| P-301 | 241.00 | 8.0 | PVC | Open | | 752.03 | 4.80 | 2,795.25 | 2,792.81 | 10.14 | 2.44 |
| P-302 | 911.00 | 12.0 | PVC | Open | | 1,412.73 | 4.01 | 2,799.21 | 2,795.25 | 4.35 | 3.96 |
| P-303 | 156.00 | 8.0 | PVC | Open | | 279.27 | 1.78 | 2,799.45 | 2,799.21 | 1.53 | 0.24 |
| P-304 | 239.00 | 8.0 | PVC | Open | | 73.68 | 0.47 | 2,799.48 | 2,799.45 | 0.13 | 0.03 |
| P-305 | 176.00 | 8.0 | PVC | Open | | 11.67 | 0.07 | 2,799.48 | 2,799.48 | 0.00 | 0.00 |
| P-306 | 140.00 | 6.0 | PVC | Open | | 4.86 | 0.06 | 2,799.48 | 2,799.48 | 0.00 | 0.00 |
| P-307 | 283.00 | 8.0 | PVC | Open | | 4.86 | 0.03 | 2,799.48 | 2,799.48 | 0.00 | 0.00 |
| P-308 | 265.00 | 8.0 | PVC | Open | | 88.28 | 0.56 | 2,799.53 | 2,799.48 | 0.18 | 0.05 |
| P-309 | 205.00 | 6.0 | PVC | Open | | 5.85 | 0.07 | 2,799.53 | 2,799.53 | 0.00 | 0.00 |
| P-310 | 977.00 | 8.0 | PVC | Open | | 103.86 | 0.66 | 2,799.77 | 2,799.53 | 0.24 | 0.24 |
| P-311 | 142.00 | 6.0 | PVC | Open | | 4.86 | 0.06 | 2,799.77 | 2,799.77 | 0.00 | 0.00 |
| P-312 | 850.00 | 8.0 | PVC | Open | | 125.26 | 0.80 | 2,800.06 | 2,799.77 | 0.34 | 0.29 |
| P-313 | 666.00 | 8.0 | PVC | Open | | 212.40 | 1.36 | 2,800.06 | 2,799.45 | 0.91 | 0.61 |

Title: INITIAL RUN

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Project Engineer: DMC
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Scenario: 2026
Fire Flow Analysis
Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-314 | 402.00 | 8.0 | PVC | Open | | 352.25 | 2.25 | 2,801.01 | 2,800.06 | 2.37 | 0.95 |
| P-315 | 547.00 | 8.0 | PVC | Open | | 248.88 | 1.59 | 2,801.68 | 2,801.01 | 1.23 | 0.67 |
| P-316 | 401.00 | 8.0 | PVC | Open | | 112.12 | 0.72 | 2,801.12 | 2,801.01 | 0.28 | 0.11 |
| P-317 | 742.00 | 8.0 | PVC | Open | | 51.56 | 0.33 | 2,801.17 | 2,801.12 | 0.07 | 0.05 |
| P-318 | 343.00 | 6.0 | PVC | Open | | 6.81 | 0.08 | 2,801.17 | 2,801.17 | 0.01 | 0.00 |
| P-319 | 273.00 | 8.0 | PVC | Open | | 67.13 | 0.43 | 2,801.20 | 2,801.17 | 0.11 | 0.03 |
| P-320 | 288.00 | 8.0 | PVC | Open | | 83.45 | 0.53 | 2,801.20 | 2,801.16 | 0.16 | 0.05 |
| P-321 | 290.00 | 8.0 | PVC | Open | | 50.34 | 0.32 | 2,801.22 | 2,801.20 | 0.06 | 0.02 |
| P-322 | 133.00 | 8.0 | PVC | Open | | 17.92 | 0.11 | 2,801.22 | 2,801.22 | 0.01 | 0.00 |
| P-323 | 270.00 | 8.0 | PVC | Open | | 72.23 | 0.46 | 2,801.16 | 2,801.12 | 0.13 | 0.03 |
| P-324 | 472.00 | 6.0 | PVC | Open | | 8.76 | 0.10 | 2,801.16 | 2,801.15 | 0.01 | 0.01 |
| P-325 | 298.00 | 8.0 | PVC | Open | | 213.27 | 1.36 | 2,801.68 | 2,801.41 | 0.92 | 0.27 |
| P-326 | 747.00 | 8.0 | PVC | Open | | 110.95 | 0.71 | 2,801.41 | 2,801.20 | 0.27 | 0.20 |
| P-327 | 1,154.00 | 8.0 | PVC | Open | | 82.85 | 0.53 | 2,801.41 | 2,801.22 | 0.16 | 0.19 |
| P-328 | 160.00 | 8.0 | PVC | Open | | 466.61 | 2.98 | 2,802.33 | 2,801.68 | 4.05 | 0.65 |
| P-329 | 1,094.00 | 12.0 | PVC | Open | | 1,133.46 | 3.22 | 2,802.33 | 2,799.21 | 2.85 | 3.12 |
| P-330 | 804.00 | 12.0 | PVC | Open | | 1,600.08 | 4.54 | 2,806.78 | 2,802.33 | 5.53 | 4.45 |
| P-331 | 474.00 | 8.0 | PVC | Open | | 234.62 | 1.50 | 2,821.10 | 2,820.58 | 1.10 | 0.52 |
| P-332 | 221.00 | 6.0 | PVC | Open | | 4.24 | 0.05 | 2,821.10 | 2,821.10 | 0.00 | 0.00 |
| P-333 | 260.00 | 8.0 | PVC | Open | | 250.54 | 1.60 | 2,821.43 | 2,821.10 | 1.24 | 0.32 |
| P-334 | 213.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,821.43 | 2,821.43 | 0.00 | 0.00 |
| P-335 | 138.00 | 8.0 | PVC | Open | | 5.60 | 0.04 | 2,821.43 | 2,821.43 | 0.00 | 0.00 |
| P-336 | 267.00 | 8.0 | PVC | Open | | 261.00 | 1.67 | 2,821.78 | 2,821.43 | 1.34 | 0.36 |
| P-337 | 592.00 | 12.0 | PVC | Open | | 237.32 | 0.67 | 2,821.78 | 2,821.70 | 0.15 | 0.09 |
| P-338 | 260.00 | 12.0 | PVC | Open | | 509.03 | 1.44 | 2,821.95 | 2,821.78 | 0.62 | 0.16 |
| P-339 | 281.00 | 8.0 | PVC | Open | | 18.48 | 0.12 | 2,821.95 | 2,821.94 | 0.01 | 0.00 |
| P-340 | 449.00 | 12.0 | PVC | Open | | 534.32 | 1.52 | 2,822.25 | 2,821.95 | 0.68 | 0.31 |
| P-341 | 174.00 | 6.0 | PVC | Open | | 4.86 | 0.06 | 2,821.94 | 2,821.94 | 0.00 | 0.00 |
| P-342 | 286.00 | 8.0 | PVC | Open | | 8.76 | 0.06 | 2,821.94 | 2,821.94 | 0.00 | 0.00 |
| P-343 | 402.00 | 12.0 | PVC | Open | | 1,379.49 | 3.91 | 2,822.25 | 2,820.58 | 4.16 | 1.67 |
| P-344 | 1,192.00 | 12.0 | PVC | Open | | 1,919.31 | 5.44 | 2,831.64 | 2,822.25 | 7.88 | 9.39 |
| P-345 | 504.00 | 12.0 | PVC | Open | | 609.08 | 1.73 | 2,842.10 | 2,841.66 | 0.87 | 0.44 |
| P-346 | 261.00 | 12.0 | PVC | Open | | -176.52 | 0.50 | 2,842.07 | 2,842.10 | 0.09 | 0.02 |
| P-347 | 228.00 | 8.0 | PVC | Open | | -75.35 | 0.48 | 2,842.04 | 2,842.07 | 0.13 | 0.03 |
| P-348 | 532.00 | 12.0 | PVC | Open | | 1,932.80 | 5.48 | 2,841.54 | 2,837.30 | 7.98 | 4.25 |
| P-349 | 172.00 | 12.0 | PVC | Open | | 1,273.69 | 3.61 | 2,842.16 | 2,841.54 | 3.56 | 0.61 |
| P-350 | 180.00 | 8.0 | PVC | Open | | 0.97 | 0.01 | 2,842.16 | 2,842.16 | 0.00 | 0.00 |
| P-351 | 641.00 | 12.0 | PVC | Open | | 1,281.47 | 3.64 | 2,844.47 | 2,842.16 | 3.61 | 2.31 |
| P-352 | 215.00 | 8.0 | PVC | Open | | 785.60 | 5.01 | 2,844.47 | 2,842.10 | 11.04 | 2.37 |
| P-353 | 228.00 | 12.0 | PVC | Open | | 2,076.79 | 5.89 | 2,846.56 | 2,844.47 | 9.18 | 2.09 |
| P-354 | 388.00 | 8.0 | PVC | Open | | 7.78 | 0.05 | 2,846.56 | 2,846.56 | 0.00 | 0.00 |
| P-355 | 278.00 | 12.0 | PVC | Open | | 2,084.58 | 5.91 | 2,849.13 | 2,846.56 | 9.25 | 2.57 |
| P-356 | 862.00 | 8.0 | PVC | Open | | 385.88 | 2.46 | 2,851.56 | 2,849.13 | 2.81 | 2.43 |
| P-357 | 384.00 | 12.0 | PVC | Open | | 1,713.29 | 4.86 | 2,851.56 | 2,849.13 | 6.32 | 2.43 |
| P-358 | 445.00 | 12.0 | PVC | Open | | 2,114.74 | 6.00 | 2,855.79 | 2,851.56 | 9.51 | 4.23 |
| P-359 | 285.00 | 12.0 | PVC | Open | | 127.77 | 0.36 | 2,855.79 | 2,855.78 | 0.05 | 0.01 |
| P-360 | 433.00 | 12.0 | PVC | Open | | -804.11 | 2.28 | 2,855.79 | 2,856.43 | 1.48 | 0.64 |
| P-361 | 110.00 | 12.0 | PVC | Open | | 659.12 | 1.87 | 2,841.66 | 2,841.54 | 1.01 | 0.11 |
| P-362 | 701.00 | 12.0 | PVC | Open | | 1,449.10 | 4.11 | 2,858.99 | 2,855.79 | 4.57 | 3.20 |
| P-363 | 278.00 | 12.0 | PVC | Open | | 1,826.81 | 5.18 | 2,860.98 | 2,858.99 | 7.16 | 1.99 |
| P-364 | 1,033.00 | 8.0 | PVC | Open | | 361.17 | 2.31 | 2,858.99 | 2,856.43 | 2.48 | 2.56 |

Title: INITIAL RUN

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Project Engineer: DMC
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Scenario: 2026
Fire Flow Analysis
Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-365 | 213.00 | 8.0 | PVC | Open | | -717.70 | 4.58 | 2,856.43 | 2,858.40 | 9.26 | 1.97 |
| P-366 | 15.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,858.40 | 2,858.40 | 0.00 | 0.00 |
| P-367 | 928.00 | 8.0 | PVC | Open | | 717.70 | 4.58 | 2,867.00 | 2,858.40 | 9.26 | 8.60 |
| P-370 | 40.00 | 8.0 | PVC | Open | | 34.72 | 0.22 | 2,778.76 | 2,778.75 | 0.04 | 0.00 |
| P-371 | 40.00 | 8.0 | PVC | Open | | 8.96 | 0.06 | 2,777.74 | 2,777.74 | 0.00 | 0.00 |
| P-372 | 360.00 | 12.0 | PVC | Open | | 525.06 | 1.49 | 2,780.46 | 2,780.22 | 0.66 | 0.24 |
| P-373 | 479.00 | 8.0 | PVC | Open | | -139.35 | 0.89 | 2,779.06 | 2,779.26 | 0.42 | 0.20 |
| P-374 | 102.00 | 12.0 | PVC | Open | | -76.75 | 0.22 | 2,776.08 | 2,776.08 | 0.02 | 0.00 |
| P-375 | 90.00 | 12.0 | PVC | Open | | -134.11 | 0.38 | 2,776.08 | 2,776.09 | 0.05 | 0.00 |
| P-376 | 789.00 | 12.0 | PVC | Open | | 1,467.51 | 4.16 | 2,864.68 | 2,860.98 | 4.68 | 3.69 |
| P-377 | 1,321.00 | 8.0 | PVC | Open | | 384.59 | 2.45 | 2,864.68 | 2,860.98 | 2.80 | 3.69 |
| P-378 | 203.00 | 12.0 | PVC | Open | | 1,870.59 | 5.31 | 2,866.20 | 2,864.68 | 7.49 | 1.52 |
| P-379 | 775.00 | 12.0 | PVC | Open | | 1,813.72 | 5.15 | 2,753.77 | 2,748.30 | 7.06 | 5.47 |
| P-380 | 558.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,821.56 | 2,821.56 | 0.00 | 0.00 |
| P-381 | 890.00 | 12.0 | PVC | Open | | 1,813.72 | 5.15 | 2,748.30 | 2,742.02 | 7.06 | 6.28 |
| P-383 | 107.00 | 12.0 | PVC | Open | | 1,870.59 | 5.31 | 2,867.00 | 2,866.20 | 7.49 | 0.80 |
| P-384 | 154.00 | 8.0 | PVC | Open | | 270.69 | 1.73 | 2,775.11 | 2,774.89 | 1.44 | 0.22 |
| P-385 | 378.00 | 6.0 | PVC | Open | | 4.86 | 0.06 | 2,774.89 | 2,774.89 | 0.00 | 0.00 |
| P-386 | 257.00 | 8.0 | PVC | Open | | 257.07 | 1.64 | 2,774.89 | 2,774.56 | 1.30 | 0.34 |
| P-387 | 333.00 | 8.0 | PVC | Open | | 6.81 | 0.04 | 2,774.56 | 2,774.56 | 0.00 | 0.00 |
| P-388 | 270.00 | 8.0 | PVC | Open | | 242.47 | 1.55 | 2,774.56 | 2,774.24 | 1.17 | 0.32 |
| P-389 | 185.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,774.24 | 2,774.24 | 0.00 | 0.00 |
| P-390 | 419.00 | 8.0 | PVC | Open | | 507.55 | 3.24 | 2,774.19 | 2,772.20 | 4.75 | 1.99 |
| P-391 | 250.00 | 8.0 | PVC | Open | | 124.18 | 0.79 | 2,772.20 | 2,772.12 | 0.34 | 0.08 |
| P-392 | 535.00 | 8.0 | PVC | Open | | -90.87 | 0.58 | 2,772.12 | 2,772.22 | 0.19 | 0.10 |
| P-393 | 113.00 | 8.0 | PVC | Open | | -371.79 | 2.37 | 2,772.22 | 2,772.52 | 2.62 | 0.30 |
| P-394 | 377.00 | 8.0 | PVC | Open | | 270.22 | 1.72 | 2,772.22 | 2,771.68 | 1.43 | 0.54 |
| P-395 | 474.00 | 8.0 | PVC | Open | | 214.02 | 1.37 | 2,772.12 | 2,771.68 | 0.93 | 0.44 |
| P-396 | 250.00 | 8.0 | PVC | Open | | 476.46 | 3.04 | 2,771.68 | 2,770.63 | 4.21 | 1.05 |
| P-397 | 598.00 | 8.0 | PVC | Open | | 372.68 | 2.38 | 2,772.20 | 2,770.63 | 2.63 | 1.58 |
| P-398 | 270.00 | 12.0 | PVC | Open | | 1,071.49 | 3.04 | 2,771.32 | 2,770.63 | 2.56 | 0.69 |
| P-399 | 202.00 | 8.0 | PVC | Open | | 3.89 | 0.02 | 2,771.32 | 2,771.32 | 0.00 | 0.00 |
| P-400 | 280.00 | 12.0 | PVC | Open | | 1,081.22 | 3.07 | 2,772.05 | 2,771.32 | 2.60 | 0.73 |
| P-401 | 233.00 | 8.0 | PVC | Open | | 3.89 | 0.02 | 2,772.05 | 2,772.04 | 0.00 | 0.00 |
| P-402 | 310.00 | 12.0 | PVC | Open | | 1,912.85 | 5.43 | 2,770.63 | 2,768.20 | 7.82 | 2.43 |
| P-403 | 377.00 | 8.0 | PVC | Open | | 4.86 | 0.03 | 2,768.20 | 2,768.20 | 0.00 | 0.00 |
| P-404 | 252.00 | 12.0 | PVC | Open | | 1,901.17 | 5.39 | 2,768.20 | 2,766.25 | 7.73 | 1.95 |
| P-405 | 213.00 | 8.0 | PVC | Open | | 4.86 | 0.03 | 2,766.25 | 2,766.25 | 0.00 | 0.00 |
| P-406 | 535.00 | 12.0 | PVC | Open | | 1,889.50 | 5.36 | 2,766.25 | 2,762.17 | 7.64 | 4.09 |
| P-407 | 160.00 | 8.0 | PVC | Open | | 462.40 | 2.95 | 2,762.17 | 2,761.53 | 3.98 | 0.64 |
| P-408 | 308.00 | 12.0 | PVC | Open | | 1,417.36 | 4.02 | 2,762.17 | 2,760.82 | 4.38 | 1.35 |
| P-409 | 9.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,760.82 | 2,760.82 | 0.00 | 0.00 |
| P-410 | 265.00 | 8.0 | PVC | Open | | 30.57 | 0.20 | 2,821.60 | 2,821.60 | 0.03 | 0.01 |
| P-411 | 136.00 | 8.0 | PVC | Open | | 17.92 | 0.11 | 2,821.60 | 2,821.59 | 0.01 | 0.00 |
| P-412 | 330.00 | 8.0 | PVC | Open | | 7.78 | 0.05 | 2,821.60 | 2,821.60 | 0.00 | 0.00 |
| P-413 | 942.00 | 12.0 | PVC | Open | | 187.30 | 0.53 | 2,821.70 | 2,821.60 | 0.10 | 0.09 |
| P-414 | 216.00 | 8.0 | PVC | Open | | 34.46 | 0.22 | 2,821.70 | 2,821.69 | 0.03 | 0.01 |
| P-415 | 433.00 | 8.0 | PVC | Open | | 8.76 | 0.06 | 2,821.69 | 2,821.69 | 0.00 | 0.00 |
| P-416 | 265.00 | 8.0 | PVC | Open | | 17.92 | 0.11 | 2,821.69 | 2,821.69 | 0.01 | 0.00 |
| P-417 | 392.00 | 12.0 | PVC | Open | | 73.35 | 0.21 | 2,855.78 | 2,855.77 | 0.02 | 0.01 |
| P-418 | 493.00 | 12.0 | PVC | Open | | 56.81 | 0.16 | 2,855.77 | 2,855.76 | 0.01 | 0.01 |

Title: INITIAL RUN

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01/17/07 12:40:06 BENTLEY Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA

Project Engineer: DMC

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Scenario: 2026
Fire Flow Analysis
Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-419 | 263.00 | 6.0 | PVC | Open | | 6.81 | 0.08 | 2,855.77 | 2,855.77 | 0.01 | 0.00 |
| P-420 | 336.00 | 6.0 | PVC | Open | | 5.84 | 0.07 | 2,855.77 | 2,855.77 | 0.00 | 0.00 |
| P-421 | 907.00 | 8.0 | PVC | Open | | 21.10 | 0.13 | 2,855.78 | 2,855.76 | 0.01 | 0.01 |
| P-422 | 377.00 | 12.0 | PVC | Open | | 47.99 | 0.14 | 2,855.76 | 2,855.76 | 0.01 | 0.00 |
| P-423 | 770.00 | 8.0 | PVC | Open | | 22.62 | 0.14 | 2,855.78 | 2,855.76 | 0.02 | 0.01 |
| P-424 | 20.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,837.30 | 2,837.30 | 0.00 | 0.00 |
| P-425 | 1,980.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,836.95 | 2,836.95 | 0.00 | 0.00 |
| P-426 | 209.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,836.95 | 2,836.95 | 0.00 | 0.00 |
| P-427 | 207.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,836.95 | 2,836.95 | 0.00 | 0.00 |
| P-428 | 251.00 | 12.0 | PVC | Open | | 977.64 | 2.77 | 2,775.11 | 2,774.57 | 2.14 | 0.54 |
| P-429 | 281.00 | 4.0 | PVC | Open | | 12.63 | 0.32 | 2,776.04 | 2,776.00 | 0.16 | 0.04 |
| P-430 | 370.00 | 8.0 | PVC | Open | | -109.19 | 0.70 | 2,778.14 | 2,778.24 | 0.27 | 0.10 |
| P-431 | 54.00 | 6.0 | PVC | Open | | 0.96 | 0.01 | 2,778.24 | 2,778.24 | 0.00 | 0.00 |
| P-432 | 55.00 | 6.0 | PVC | Open | | 3.02 | 0.03 | 2,778.24 | 2,778.24 | 0.00 | 0.00 |
| P-433 | 506.00 | 8.0 | PVC | Open | | -118.98 | 0.76 | 2,778.24 | 2,778.40 | 0.31 | 0.16 |
| P-434 | 155.00 | 12.0 | PVC | Open | | -104.98 | 0.30 | 2,778.47 | 2,778.47 | 0.03 | 0.01 |
| P-435 | 467.00 | 8.0 | PVC | Open | | 34.11 | 0.22 | 2,778.80 | 2,778.78 | 0.03 | 0.02 |
| P-436 | 360.00 | 8.0 | PVC | Open | | -95.79 | 0.61 | 2,778.40 | 2,778.47 | 0.21 | 0.08 |
| P-437 | 760.00 | 8.0 | PVC | Open | | 24.35 | 0.16 | 2,778.41 | 2,778.40 | 0.02 | 0.01 |
| P-438 | 348.00 | 8.0 | PVC | Open | | -67.37 | 0.43 | 2,778.41 | 2,778.45 | 0.11 | 0.04 |
| P-439 | 51.00 | 12.0 | PVC | Open | | -86.98 | 0.25 | 2,778.45 | 2,778.45 | 0.02 | 0.00 |
| P-440 | 18.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,778.45 | 2,778.45 | 0.00 | 0.00 |
| P-441 | 642.00 | 12.0 | PVC | Open | | -89.17 | 0.25 | 2,778.45 | 2,778.47 | 0.03 | 0.02 |
| P-442 | 350.00 | 12.0 | PVC | Open | | 15.08 | 0.04 | 2,778.47 | 2,778.47 | 0.00 | 0.00 |
| P-443 | 336.00 | 12.0 | PVC | Open | | -213.17 | 0.60 | 2,778.47 | 2,778.51 | 0.12 | 0.04 |
| P-444 | 829.00 | 12.0 | PVC | Open | | -213.17 | 0.60 | 2,778.51 | 2,778.62 | 0.12 | 0.10 |
| P-445 | 120.00 | 8.0 | PVC | Open | | 152.51 | 0.97 | 2,778.84 | 2,778.78 | 0.49 | 0.06 |
| P-446 | 470.00 | 8.0 | PVC | Open | | 1.62 | 0.01 | 2,778.78 | 2,778.78 | 0.00 | 0.00 |
| P-447 | 265.00 | 12.0 | PVC | Open | | -213.17 | 0.60 | 2,778.62 | 2,778.65 | 0.12 | 0.03 |
| P-448 | 337.00 | 8.0 | PVC | Open | | -126.69 | 0.81 | 2,779.26 | 2,779.37 | 0.35 | 0.12 |
| P-449 | 39.00 | 8.0 | PVC | Open | | 5.63 | 0.04 | 2,778.65 | 2,778.65 | 0.00 | 0.00 |
| P-450 | 705.00 | 12.0 | PVC | Open | | -218.80 | 0.62 | 2,778.65 | 2,778.74 | 0.13 | 0.09 |
| P-451 | 197.00 | 12.0 | PVC | Open | | -236.58 | 0.67 | 2,778.74 | 2,778.77 | 0.15 | 0.03 |
| P-452 | 250.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,778.47 | 2,778.47 | 0.00 | 0.00 |
| P-453 | 546.00 | 8.0 | PVC | Open | | 53.43 | 0.34 | 2,779.40 | 2,779.36 | 0.07 | 0.04 |
| P-454 | 526.00 | 8.0 | PVC | Open | | -12.67 | 0.08 | 2,779.26 | 2,779.26 | 0.01 | 0.00 |
| P-455 | 730.00 | 8.0 | PVC | Open | | 88.10 | 0.56 | 2,779.17 | 2,779.04 | 0.18 | 0.13 |
| P-456 | 236.00 | 8.0 | PVC | Open | | -127.63 | 0.81 | 2,779.37 | 2,779.46 | 0.35 | 0.08 |
| P-457 | 235.00 | 12.0 | PVC | Open | | 28.15 | 0.08 | 2,779.46 | 2,779.46 | 0.00 | 0.00 |
| P-458 | 311.00 | 12.0 | PVC | Open | | 17.85 | 0.05 | 2,779.46 | 2,779.46 | 0.00 | 0.00 |
| P-459 | 314.00 | 12.0 | PVC | Open | | 10.08 | 0.03 | 2,779.46 | 2,779.46 | 0.00 | 0.00 |
| P-460 | 331.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,779.46 | 2,779.46 | 0.00 | 0.00 |
| P-461 | 399.00 | 12.0 | PVC | Open | | -155.77 | 0.44 | 2,779.46 | 2,779.49 | 0.07 | 0.03 |
| P-462 | 322.00 | 12.0 | PVC | Open | | 280.95 | 0.80 | 2,779.49 | 2,779.42 | 0.21 | 0.07 |
| P-463 | 711.00 | 12.0 | PVC | Open | | 279.88 | 0.79 | 2,779.42 | 2,779.27 | 0.20 | 0.15 |
| P-464 | 355.00 | 12.0 | PVC | Open | | 436.73 | 1.24 | 2,779.65 | 2,779.49 | 0.47 | 0.17 |
| P-465 | 158.00 | 8.0 | PVC | Open | | 170.75 | 1.09 | 2,779.65 | 2,779.56 | 0.61 | 0.10 |
| P-466 | 432.00 | 8.0 | PVC | Open | | -78.13 | 0.50 | 2,779.49 | 2,779.56 | 0.14 | 0.06 |
| P-467 | 475.00 | 8.0 | PVC | Open | | -74.14 | 0.47 | 2,779.49 | 2,779.56 | 0.13 | 0.06 |
| P-468 | 316.00 | 8.0 | PVC | Open | | -138.84 | 0.89 | 2,779.36 | 2,779.49 | 0.41 | 0.13 |
| P-469 | 347.00 | 12.0 | PVC | Open | | 493.30 | 1.40 | 2,779.99 | 2,779.78 | 0.59 | 0.20 |

Title: INITIAL RUN

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01/17/07 12:40:06 PM Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA

Project Engineer: DMC

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Scenario: 2026
Fire Flow Analysis
Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-470 | 178.00 | 12.0 | PVC | Open | | 607.48 | 1.72 | 2,780.14 | 2,779.99 | 0.87 | 0.15 |
| P-471 | 660.00 | 12.0 | PVC | Open | | 609.95 | 1.73 | 2,780.72 | 2,780.14 | 0.87 | 0.58 |
| P-472 | 224.00 | 12.0 | PVC | Open | | 610.38 | 1.73 | 2,780.92 | 2,780.72 | 0.88 | 0.20 |
| P-473 | 296.00 | 12.0 | PVC | Open | | -948.45 | 2.69 | 2,780.92 | 2,781.52 | 2.02 | 0.60 |
| P-474 | 153.00 | 12.0 | PVC | Open | | 607.48 | 1.72 | 2,779.78 | 2,779.65 | 0.87 | 0.13 |
| P-476 | 304.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.06 | 2,779.06 | 0.00 | 0.00 |
| P-477 | 692.00 | 8.0 | PVC | Open | | -334.42 | 2.13 | 2,779.43 | 2,780.92 | 2.14 | 1.48 |
| P-478 | 13.00 | 8.0 | PVC | Open | | 10.42 | 0.07 | 2,779.27 | 2,779.27 | 0.00 | 0.00 |
| P-479 | 84.00 | 8.0 | PVC | Open | | -28.00 | 0.18 | 2,779.04 | 2,779.04 | 0.02 | 0.00 |
| P-480 | 200.00 | 12.0 | PVC | Open | | 525.06 | 1.49 | 2,780.22 | 2,780.09 | 0.66 | 0.13 |
| P-481 | 550.00 | 12.0 | PVC | Open | | 514.36 | 1.46 | 2,780.09 | 2,779.74 | 0.64 | 0.35 |
| P-482 | 703.00 | 8.0 | PVC | Open | | 117.95 | 0.75 | 2,779.74 | 2,779.53 | 0.31 | 0.22 |
| P-483 | 960.00 | 12.0 | PVC | Open | | 388.76 | 1.10 | 2,779.74 | 2,779.38 | 0.38 | 0.36 |
| P-484 | 265.00 | 12.0 | PVC | Open | | 471.68 | 1.34 | 2,779.38 | 2,779.24 | 0.54 | 0.14 |
| P-485 | 447.00 | 12.0 | PVC | Open | | 23.56 | 0.07 | 2,855.76 | 2,855.76 | 0.00 | 0.00 |
| P-486 | 160.00 | 12.0 | PVC | Open | | 19.68 | 0.06 | 2,855.76 | 2,855.76 | 0.00 | 0.00 |
| P-487 | 159.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,855.76 | 2,855.76 | 0.00 | 0.00 |
| P-488 | 981.00 | 8.0 | PVC | Open | | 12.75 | 0.08 | 2,855.76 | 2,855.75 | 0.01 | 0.01 |
| P-489 | 135.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,855.76 | 2,855.76 | 0.00 | 0.00 |
| P-490 | 338.00 | 8.0 | PVC | Open | | 126.76 | 0.81 | 2,775.31 | 2,775.19 | 0.35 | 0.12 |
| P-491 | 317.00 | 8.0 | PVC | Open | | 9.91 | 0.06 | 2,775.19 | 2,775.19 | 0.00 | 0.00 |
| P-492 | 1,010.00 | 8.0 | PVC | Open | | 125.97 | 0.80 | 2,775.19 | 2,774.84 | 0.35 | 0.35 |
| P-493 | 314.00 | 8.0 | PVC | Open | | 226.81 | 1.45 | 2,774.84 | 2,774.51 | 1.03 | 0.32 |
| P-494 | 159.00 | 8.0 | PVC | Open | | 113.48 | 0.72 | 2,774.88 | 2,774.84 | 0.29 | 0.05 |
| P-495 | 527.00 | 8.0 | PVC | Open | | 113.48 | 0.72 | 2,775.03 | 2,774.88 | 0.29 | 0.15 |
| P-496 | 134.00 | 12.0 | PVC | Open | | 963.29 | 2.73 | 2,779.15 | 2,778.87 | 2.08 | 0.28 |
| P-498 | 1.00 | 96.0 | PVC | Open | | -138.37 | 0.01 | 2,493.50 | 2,493.50 | 0.00 | 0.00 |
| P-499 | 356.00 | 12.0 | PVC | Open | | 486.01 | 1.38 | 2,778.78 | 2,778.58 | 0.57 | 0.20 |
| P-500 | 259.00 | 12.0 | PVC | Open | | 478.84 | 1.36 | 2,778.58 | 2,778.44 | 0.56 | 0.14 |
| P-501 | 152.00 | 12.0 | PVC | Open | | 373.21 | 1.06 | 2,778.49 | 2,778.44 | 0.35 | 0.05 |
| P-503 | 30.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,778.53 | 2,778.53 | 0.00 | 0.00 |
| P-504 | 120.00 | 8.0 | PVC | Open | | 60.51 | 0.39 | 2,778.54 | 2,778.53 | 0.09 | 0.01 |
| P-505 | 30.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,778.54 | 2,778.54 | 0.00 | 0.00 |
| P-507 | 27.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,778.56 | 2,778.56 | 0.00 | 0.00 |
| P-508 | 197.00 | 8.0 | PVC | Open | | -12.49 | 0.08 | 2,778.55 | 2,778.56 | 0.01 | 0.00 |
| P-509 | 785.00 | 8.0 | PVC | Open | | -10.54 | 0.07 | 2,778.55 | 2,778.55 | 0.00 | 0.00 |
| P-510 | 222.00 | 8.0 | PVC | Open | | 1.95 | 0.01 | 2,778.55 | 2,778.55 | 0.00 | 0.00 |
| P-511 | 683.00 | 8.0 | PVC | Open | | -4.71 | 0.03 | 2,778.55 | 2,778.55 | 0.00 | 0.00 |
| P-512 | 819.00 | 8.0 | PVC | Open | | 1.95 | 0.01 | 2,778.55 | 2,778.55 | 0.00 | 0.00 |
| P-513 | 283.00 | 8.0 | PVC | Open | | -0.82 | 0.01 | 2,778.55 | 2,778.55 | 0.00 | 0.00 |
| P-514 | 136.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,778.58 | 2,778.58 | 0.00 | 0.00 |
| P-515 | 560.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,775.03 | 2,775.03 | 0.00 | 0.00 |
| P-517 | 0.25 | 96.0 | Steel | Open | | 1,351.86 | 0.06 | 2,419.00 | 2,419.00 | 0.00 | 0.00 |
| P-518 | 250.00 | 8.0 | PVC | Open | | 13.29 | 0.08 | 2,778.69 | 2,778.69 | 0.01 | 0.00 |
| P-519 | 673.00 | 8.0 | PVC | Open | | 137.70 | 0.88 | 2,778.78 | 2,778.51 | 0.41 | 0.27 |
| P-520 | 32.00 | 8.0 | PVC | Open | | 38.68 | 0.25 | 2,778.84 | 2,778.84 | 0.04 | 0.00 |
| P-521 | 769.00 | 8.0 | PVC | Open | | 99.09 | 0.63 | 2,778.51 | 2,778.33 | 0.22 | 0.17 |
| P-522 | 105.00 | 8.0 | PVC | Open | | -16.70 | 0.11 | 2,778.77 | 2,778.77 | 0.01 | 0.00 |
| P-523 | 305.00 | 12.0 | PVC | Open | | 221.62 | 0.63 | 2,778.81 | 2,778.77 | 0.13 | 0.04 |
| P-524 | 94.00 | 6.0 | PVC | Open | | 34.22 | 0.39 | 2,778.81 | 2,778.80 | 0.14 | 0.01 |
| P-525 | 232.00 | 12.0 | PVC | Open | | 256.56 | 0.73 | 2,778.85 | 2,778.81 | 0.17 | 0.04 |

Title: INITIAL RUN

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Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA

Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026
Fire Flow Analysis
Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-526 | 294.00 | 12.0 | PVC | Open | | 195.21 | 0.55 | 2,778.88 | 2,778.85 | 0.11 | 0.03 |
| P-527 | 248.00 | 8.0 | PVC | Open | | 1.28 | 0.01 | 2,778.88 | 2,778.88 | 0.00 | 0.00 |
| P-528 | 83.00 | 8.0 | PVC | Open | | 1.28 | 0.01 | 2,778.88 | 2,778.88 | 0.00 | 0.00 |
| P-529 | 115.00 | 12.0 | PVC | Open | | 196.50 | 0.56 | 2,778.90 | 2,778.88 | 0.11 | 0.01 |
| P-530 | 384.00 | 12.0 | PVC | Open | | 196.50 | 0.56 | 2,778.94 | 2,778.90 | 0.11 | 0.04 |
| P-531 | 153.00 | 12.0 | PVC | Open | | 196.50 | 0.56 | 2,778.95 | 2,778.94 | 0.11 | 0.02 |
| P-532 | 216.00 | 12.0 | PVC | Open | | 196.50 | 0.56 | 2,778.98 | 2,778.95 | 0.11 | 0.02 |
| P-533 | 169.00 | 12.0 | PVC | Open | | 196.62 | 0.56 | 2,778.99 | 2,778.98 | 0.11 | 0.02 |
| P-534 | 163.00 | 12.0 | PVC | Open | | 196.62 | 0.56 | 2,779.01 | 2,778.99 | 0.11 | 0.02 |
| P-535 | 222.00 | 12.0 | PVC | Open | | 196.62 | 0.56 | 2,779.04 | 2,779.01 | 0.11 | 0.02 |
| P-536 | 395.00 | 12.0 | PVC | Open | | 198.46 | 0.56 | 2,779.08 | 2,779.04 | 0.11 | 0.04 |
| P-537 | 322.00 | 8.0 | PVC | Open | | 70.99 | 0.45 | 2,779.08 | 2,779.04 | 0.12 | 0.04 |
| P-538 | 574.00 | 8.0 | PVC | Open | | 70.98 | 0.45 | 2,779.04 | 2,778.97 | 0.12 | 0.07 |
| P-539 | 315.00 | 8.0 | PVC | Open | | 70.74 | 0.45 | 2,778.97 | 2,778.93 | 0.12 | 0.04 |
| P-540 | 306.00 | 8.0 | PVC | Open | | 70.07 | 0.45 | 2,778.93 | 2,778.90 | 0.12 | 0.04 |
| P-541 | 359.00 | 8.0 | PVC | Open | | 70.07 | 0.45 | 2,778.90 | 2,778.85 | 0.12 | 0.04 |
| P-542 | 145.00 | 8.0 | PVC | Open | | 0.66 | 0.00 | 2,778.93 | 2,778.93 | 0.00 | 0.00 |
| P-543 | 289.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,778.93 | 2,778.93 | 0.00 | 0.00 |
| P-544 | 387.00 | 8.0 | PVC | Open | | 0.37 | 0.00 | 2,778.93 | 2,778.93 | 0.00 | 0.00 |
| P-545 | 57.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,778.90 | 2,778.90 | 0.00 | 0.00 |
| P-546 | 50.00 | 8.0 | PVC | Open | | 0.66 | 0.00 | 2,778.93 | 2,778.93 | 0.00 | 0.00 |
| P-547 | 329.00 | 8.0 | PVC | Open | | 0.29 | 0.00 | 2,778.93 | 2,778.93 | 0.00 | 0.00 |
| P-548 | 284.00 | 8.0 | PVC | Open | | 0.03 | 0.00 | 2,778.93 | 2,778.93 | 0.00 | 0.00 |
| P-549 | 284.00 | 8.0 | PVC | Open | | 0.26 | 0.00 | 2,778.93 | 2,778.93 | 0.00 | 0.00 |
| P-550 | 210.00 | 8.0 | PVC | Open | | 0.17 | 0.00 | 2,778.93 | 2,778.93 | 0.00 | 0.00 |
| P-551 | 171.00 | 8.0 | PVC | Open | | 0.01 | 0.00 | 2,778.93 | 2,778.93 | 0.00 | 0.00 |
| P-552 | 269.00 | 8.0 | PVC | Open | | 114.18 | 0.73 | 2,779.86 | 2,779.78 | 0.29 | 0.08 |
| P-553 | 161.00 | 8.0 | PVC | Open | | 114.18 | 0.73 | 2,779.99 | 2,779.94 | 0.29 | 0.05 |
| P-554 | 90.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.04 | 2,779.04 | 0.00 | 0.00 |
| P-555 | 63.00 | 12.0 | PVC | Open | | 269.45 | 0.76 | 2,779.09 | 2,779.08 | 0.19 | 0.01 |
| P-556 | 252.00 | 8.0 | PVC | Open | | 0.03 | 0.00 | 2,778.88 | 2,778.88 | 0.00 | 0.00 |
| P-557 | 256.00 | 12.0 | PVC | Open | | 269.45 | 0.76 | 2,779.14 | 2,779.09 | 0.19 | 0.05 |
| P-558 | 702.00 | 12.0 | PVC | Open | | 269.46 | 0.76 | 2,779.27 | 2,779.14 | 0.19 | 0.13 |
| P-559 | 110.00 | 12.0 | PVC | Open | | 0.01 | 0.00 | 2,779.14 | 2,779.14 | 0.00 | 0.00 |
| P-560 | 275.00 | 8.0 | PVC | Open | | 114.18 | 0.73 | 2,779.94 | 2,779.86 | 0.29 | 0.08 |
| P-561 | 436.00 | 12.0 | PVC | Open | | 0.01 | 0.00 | 2,779.14 | 2,779.14 | 0.00 | 0.00 |
| P-562 | 79.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.86 | 2,779.86 | 0.00 | 0.00 |
| P-563 | 442.00 | 12.0 | PVC | Open | | 0.01 | 0.00 | 2,779.14 | 2,779.14 | 0.00 | 0.00 |
| P-564 | 68.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.14 | 2,779.14 | 0.00 | 0.00 |
| P-565 | 42.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,779.14 | 2,779.14 | 0.00 | 0.00 |
| P-566 | 86.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.94 | 2,779.94 | 0.00 | 0.00 |
| P-567 | 433.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,779.14 | 2,779.14 | 0.00 | 0.00 |
| P-568 | 64.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,779.14 | 2,779.14 | 0.00 | 0.00 |
| P-569 | 222.00 | 8.0 | PVC | Open | | 3.89 | 0.02 | 2,775.22 | 2,775.22 | 0.00 | 0.00 |
| P-570 | 307.00 | 8.0 | PVC | Open | | 195.58 | 1.25 | 2,775.19 | 2,774.95 | 0.78 | 0.24 |
| P-571 | 220.00 | 8.0 | PVC | Open | | 4.86 | 0.03 | 2,774.95 | 2,774.95 | 0.00 | 0.00 |
| P-572 | 247.00 | 8.0 | PVC | Open | | 186.83 | 1.19 | 2,774.95 | 2,774.77 | 0.72 | 0.18 |
| P-573 | 254.00 | 6.0 | PVC | Open | | 5.84 | 0.07 | 2,774.77 | 2,774.77 | 0.00 | 0.00 |
| P-574 | 400.00 | 8.0 | PVC | Open | | 176.13 | 1.12 | 2,774.77 | 2,774.51 | 0.64 | 0.26 |
| P-575 | 287.00 | 8.0 | PVC | Open | | 6.81 | 0.04 | 2,774.51 | 2,774.51 | 0.00 | 0.00 |
| P-576 | 606.00 | 12.0 | PVC | Open | | 150.31 | 0.43 | 2,821.60 | 2,821.56 | 0.07 | 0.04 |

Title: INITIAL RUN

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01/17/07 12:40:06 PM Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA

Project Engineer: DMC
WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026
Fire Flow Analysis
Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-577 | 326.00 | 12.0 | PVC | Open | | 150.31 | 0.43 | 2,821.56 | 2,821.54 | 0.07 | 0.02 |
| P-578 | 16.00 | 8.0 | PVC | Open | | 56.00 | 0.36 | 2,821.54 | 2,821.54 | 0.08 | 0.00 |
| P-579 | 125.00 | 12.0 | PVC | Open | | 94.31 | 0.27 | 2,821.54 | 2,821.54 | 0.03 | 0.00 |
| P-580 | 48.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,821.54 | 2,821.54 | 0.00 | 0.00 |
| P-581 | 307.00 | 12.0 | PVC | Open | | 66.75 | 0.19 | 2,821.54 | 2,821.53 | 0.02 | 0.00 |
| P-582 | 1,252.00 | 8.0 | PVC | Open | | 14.90 | 0.10 | 2,821.54 | 2,821.53 | 0.01 | 0.01 |
| P-583 | 906.00 | 8.0 | PVC | Open | | 12.22 | 0.08 | 2,821.53 | 2,821.53 | 0.01 | 0.00 |
| P-584 | 151.00 | 8.0 | PVC | Open | | 15.58 | 0.10 | 2,821.53 | 2,821.53 | 0.01 | 0.00 |
| P-585 | 259.00 | 12.0 | PVC | Open | | 44.80 | 0.13 | 2,821.53 | 2,821.53 | 0.01 | 0.00 |
| P-586 | 471.00 | 12.0 | PVC | Open | | 22.40 | 0.06 | 2,821.53 | 2,821.53 | 0.00 | 0.00 |
| P-588 | 320.00 | 8.0 | PVC | Open | | -1.67 | 0.01 | 2,779.08 | 2,779.08 | 0.00 | 0.00 |
| P-589 | 481.00 | 8.0 | PVC | Open | | 86.63 | 0.55 | 2,778.91 | 2,778.82 | 0.17 | 0.08 |
| P-590 | 480.00 | 8.0 | PVC | Open | | 6.81 | 0.04 | 2,778.91 | 2,778.91 | 0.00 | 0.00 |
| P-591 | 500.00 | 8.0 | PVC | Open | | 7.78 | 0.05 | 2,778.91 | 2,778.91 | 0.00 | 0.00 |
| P-592 | 334.00 | 8.0 | PVC | Open | | 112.90 | 0.72 | 2,779.00 | 2,778.91 | 0.28 | 0.09 |
| P-593 | 250.00 | 6.0 | PVC | Open | | 5.84 | 0.07 | 2,779.00 | 2,779.00 | 0.00 | 0.00 |
| P-594 | 832.00 | 8.0 | PVC | Open | | -51.17 | 0.33 | 2,779.00 | 2,779.06 | 0.07 | 0.06 |
| P-595 | 350.00 | 8.0 | PVC | Open | | 80.21 | 0.51 | 2,779.06 | 2,779.00 | 0.15 | 0.05 |
| P-596 | 325.00 | 8.0 | PVC | Open | | 6.83 | 0.04 | 2,779.08 | 2,779.08 | 0.00 | 0.00 |
| P-597 | 223.00 | 8.0 | PVC | Open | | 5.84 | 0.04 | 2,779.07 | 2,779.07 | 0.00 | 0.00 |
| P-598 | 460.00 | 8.0 | PVC | Open | | 35.36 | 0.23 | 2,779.08 | 2,779.06 | 0.04 | 0.02 |
| P-599 | 540.00 | 12.0 | PVC | Open | | 352.22 | 1.00 | 2,779.24 | 2,779.07 | 0.31 | 0.17 |
| P-600 | 660.00 | 8.0 | PVC | Open | | 25.58 | 0.16 | 2,779.07 | 2,779.06 | 0.02 | 0.01 |
| P-601 | 160.00 | 8.0 | PVC | Open | | 60.47 | 0.39 | 2,779.07 | 2,779.06 | 0.09 | 0.01 |
| P-602 | 120.00 | 6.0 | PVC | Open | | 3.89 | 0.04 | 2,779.07 | 2,779.07 | 0.00 | 0.00 |
| P-603 | 200.00 | 8.0 | PVC | Open | | 67.28 | 0.43 | 2,779.09 | 2,779.07 | 0.11 | 0.02 |
| P-604 | 375.00 | 8.0 | PVC | Open | | 41.48 | 0.26 | 2,779.09 | 2,779.08 | 0.05 | 0.02 |
| P-605 | 500.00 | 8.0 | PVC | Open | | 114.60 | 0.73 | 2,779.24 | 2,779.09 | 0.29 | 0.15 |
| P-606 | 466.00 | 8.0 | PVC | Open | | 2.25 | 0.01 | 2,761.53 | 2,761.53 | 0.00 | 0.00 |
| P-607 | 121.00 | 8.0 | PVC | Open | | 453.35 | 2.89 | 2,761.53 | 2,761.07 | 3.83 | 0.46 |
| P-608 | 308.00 | 8.0 | PVC | Open | | 436.73 | 2.79 | 2,761.07 | 2,759.97 | 3.56 | 1.10 |
| P-609 | 198.00 | 12.0 | PVC | Open | | 1,401.63 | 3.98 | 2,760.82 | 2,759.97 | 4.29 | 0.85 |
| P-610 | 199.00 | 8.0 | PVC | Open | | 121.27 | 0.77 | 2,775.31 | 2,775.24 | 0.32 | 0.06 |
| P-611 | 673.00 | 8.0 | PVC | Open | | 118.35 | 0.76 | 2,775.24 | 2,775.03 | 0.31 | 0.21 |
| P-612 | 91.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,774.88 | 2,774.88 | 0.00 | 0.00 |
| P-613 | 354.00 | 8.0 | PVC | Open | | 196.44 | 1.25 | 2,778.74 | 2,778.46 | 0.79 | 0.28 |
| P-614 | 739.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,776.08 | 2,776.08 | 0.00 | 0.00 |
| P-615 | 878.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,776.08 | 2,776.08 | 0.00 | 0.00 |
| P-616 | 642.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,776.08 | 2,776.08 | 0.00 | 0.00 |
| P-617 | 35.00 | 8.0 | PVC | Open | | 3.21 | 0.02 | 2,785.77 | 2,785.77 | 0.00 | 0.00 |
| P-618 | 246.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.37 | 2,779.37 | 0.00 | 0.00 |
| P-619 | 179.00 | 8.0 | PVC | Open | | -22.31 | 0.14 | 2,778.68 | 2,778.69 | 0.02 | 0.00 |
| P-620 | 215.00 | 6.0 | PVC | Open | | 3.89 | 0.04 | 2,778.49 | 2,778.49 | 0.00 | 0.00 |
| P-621 | 780.00 | 8.0 | PVC | Open | | 138.00 | 0.88 | 2,778.49 | 2,778.17 | 0.41 | 0.32 |
| P-622 | 123.00 | 6.0 | PVC | Open | | 1.95 | 0.02 | 2,778.17 | 2,778.17 | 0.00 | 0.00 |
| P-623 | 286.00 | 6.0 | PVC | Open | | 128.27 | 1.46 | 2,778.17 | 2,777.75 | 1.49 | 0.43 |
| P-624 | 160.00 | 6.0 | PVC | Open | | 2.92 | 0.03 | 2,777.75 | 2,777.75 | 0.00 | 0.00 |
| P-625 | 660.00 | 8.0 | PVC | Open | | 117.57 | 0.75 | 2,777.75 | 2,777.55 | 0.30 | 0.20 |
| P-626 | 225.00 | 8.0 | PVC | Open | | 312.66 | 2.00 | 2,777.55 | 2,777.12 | 1.89 | 0.42 |
| P-627 | 357.00 | 8.0 | PVC | Open | | 199.95 | 1.28 | 2,777.84 | 2,777.55 | 0.81 | 0.29 |
| P-628 | 114.00 | 6.0 | PVC | Open | | 2.92 | 0.03 | 2,777.84 | 2,777.84 | 0.00 | 0.00 |

Title: INITIAL RUN

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01/17/07 12:40:06 Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA

Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026
Fire Flow Analysis
Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-629 | 395.00 | 8.0 | PVC | Open | | 205.79 | 1.31 | 2,778.18 | 2,777.84 | 0.86 | 0.34 |
| P-630 | 97.00 | 6.0 | PVC | Open | | 1.95 | 0.02 | 2,778.18 | 2,778.18 | 0.00 | 0.00 |
| P-631 | 305.00 | 8.0 | PVC | Open | | 213.57 | 1.36 | 2,778.46 | 2,778.18 | 0.92 | 0.28 |
| P-632 | 1,280.00 | 8.0 | PVC | Open | | 30.75 | 0.20 | 2,778.49 | 2,778.46 | 0.03 | 0.04 |
| P-633 | 380.00 | 8.0 | PVC | Open | | 1.95 | 0.01 | 2,778.41 | 2,778.41 | 0.00 | 0.00 |
| P-634 | 316.00 | 8.0 | PVC | Open | | -0.64 | 0.00 | 2,778.41 | 2,778.41 | 0.00 | 0.00 |
| P-635 | 230.00 | 8.0 | PVC | Open | | -8.30 | 0.05 | 2,778.41 | 2,778.41 | 0.00 | 0.00 |
| P-636 | 60.00 | 8.0 | PVC | Open | | -24.01 | 0.15 | 2,778.41 | 2,778.41 | 0.02 | 0.00 |
| P-637 | 602.00 | 8.0 | PVC | Open | | -6.41 | 0.04 | 2,778.41 | 2,778.41 | 0.00 | 0.00 |
| P-638 | 650.00 | 8.0 | PVC | Open | | 1.37 | 0.01 | 2,778.41 | 2,778.41 | 0.00 | 0.00 |
| P-639 | 346.00 | 8.0 | PVC | Open | | -139.35 | 0.89 | 2,778.91 | 2,779.06 | 0.42 | 0.14 |
| P-640 | 269.00 | 8.0 | PVC | Open | | -8.10 | 0.05 | 2,778.91 | 2,778.91 | 0.00 | 0.00 |
| P-641 | 215.00 | 8.0 | PVC | Open | | -8.85 | 0.06 | 2,778.91 | 2,778.91 | 0.00 | 0.00 |
| P-642 | 245.00 | 8.0 | PVC | Open | | -25.40 | 0.16 | 2,778.91 | 2,778.92 | 0.02 | 0.00 |
| P-643 | 325.00 | 8.0 | PVC | Open | | -42.11 | 0.27 | 2,778.92 | 2,778.93 | 0.05 | 0.02 |
| P-644 | 190.00 | 8.0 | PVC | Open | | -85.72 | 0.55 | 2,778.93 | 2,778.97 | 0.17 | 0.03 |
| P-645 | 503.00 | 8.0 | PVC | Open | | 0.75 | 0.00 | 2,778.91 | 2,778.91 | 0.00 | 0.00 |
| P-646 | 268.00 | 8.0 | PVC | Open | | -15.07 | 0.10 | 2,778.91 | 2,778.91 | 0.01 | 0.00 |
| P-647 | 349.00 | 8.0 | PVC | Open | | -17.81 | 0.11 | 2,778.91 | 2,778.92 | 0.01 | 0.00 |
| P-648 | 172.00 | 8.0 | PVC | Open | | 15.09 | 0.10 | 2,778.92 | 2,778.92 | 0.01 | 0.00 |
| P-649 | 299.00 | 8.0 | PVC | Open | | 43.61 | 0.28 | 2,778.93 | 2,778.92 | 0.05 | 0.02 |
| P-650 | 355.00 | 8.0 | PVC | Open | | 16.71 | 0.11 | 2,778.92 | 2,778.91 | 0.01 | 0.00 |
| P-651 | 265.00 | 8.0 | PVC | Open | | 8.50 | 0.05 | 2,778.91 | 2,778.91 | 0.00 | 0.00 |
| P-652 | 260.00 | 8.0 | PVC | Open | | -6.90 | 0.04 | 2,778.97 | 2,778.97 | 0.00 | 0.00 |
| P-653 | 432.00 | 8.0 | PVC | Open | | 19.10 | 0.12 | 2,778.97 | 2,778.96 | 0.01 | 0.01 |
| P-654 | 153.00 | 8.0 | PVC | Open | | -26.00 | 0.17 | 2,778.97 | 2,778.97 | 0.02 | 0.00 |
| P-655 | 154.00 | 8.0 | PVC | Open | | 78.82 | 0.50 | 2,778.99 | 2,778.97 | 0.15 | 0.02 |
| P-656 | 96.00 | 8.0 | PVC | Open | | 140.43 | 0.90 | 2,779.03 | 2,778.99 | 0.42 | 0.04 |
| P-657 | 191.00 | 8.0 | PVC | Open | | 58.81 | 0.38 | 2,779.05 | 2,779.03 | 0.09 | 0.02 |
| P-658 | 46.00 | 8.0 | PVC | Open | | -35.78 | 0.23 | 2,779.04 | 2,779.05 | 0.03 | 0.00 |
| P-659 | 352.00 | 8.0 | PVC | Open | | 94.59 | 0.60 | 2,779.12 | 2,779.05 | 0.21 | 0.07 |
| P-660 | 566.00 | 8.0 | PVC | Open | | 81.62 | 0.52 | 2,779.12 | 2,779.03 | 0.16 | 0.09 |
| P-661 | 219.00 | 8.0 | PVC | Open | | 176.22 | 1.12 | 2,779.26 | 2,779.12 | 0.64 | 0.14 |
| P-662 | 175.00 | 8.0 | PVC | Open | | 3.89 | 0.02 | 2,779.04 | 2,779.04 | 0.00 | 0.00 |
| P-663 | 197.00 | 8.0 | PVC | Open | | 12.26 | 0.08 | 2,778.97 | 2,778.97 | 0.01 | 0.00 |
| P-664 | 259.00 | 8.0 | PVC | Open | | 53.83 | 0.34 | 2,778.99 | 2,778.97 | 0.07 | 0.02 |
| P-665 | 637.00 | 8.0 | PVC | Open | | -88.52 | 0.56 | 2,841.96 | 2,842.07 | 0.18 | 0.12 |
| P-666 | 120.00 | 8.0 | PVC | Open | | 109.39 | 0.70 | 2,841.96 | 2,841.93 | 0.27 | 0.03 |
| P-667 | 1,504.00 | 8.0 | PVC | Open | | 4.09 | 0.03 | 2,841.96 | 2,841.96 | 0.00 | 0.00 |
| P-668 | 167.00 | 6.0 | PVC | Open | | 4.86 | 0.06 | 2,841.96 | 2,841.96 | 0.00 | 0.00 |
| P-669 | 251.00 | 8.0 | PVC | Open | | 23.55 | 0.15 | 2,841.96 | 2,841.96 | 0.02 | 0.00 |
| P-670 | 104.00 | 6.0 | PVC | Open | | 3.89 | 0.04 | 2,841.96 | 2,841.96 | 0.00 | 0.00 |
| P-671 | 231.00 | 8.0 | PVC | Open | | 28.41 | 0.18 | 2,841.97 | 2,841.96 | 0.02 | 0.01 |
| P-672 | 341.00 | 8.0 | PVC | Open | | 33.32 | 0.21 | 2,841.97 | 2,841.96 | 0.03 | 0.01 |
| P-673 | 337.00 | 8.0 | PVC | Open | | 65.63 | 0.42 | 2,842.00 | 2,841.97 | 0.11 | 0.04 |
| P-674 | 285.00 | 8.0 | PVC | Open | | 5.84 | 0.04 | 2,842.00 | 2,842.00 | 0.00 | 0.00 |
| P-675 | 199.00 | 6.0 | PVC | Open | | 5.84 | 0.07 | 2,842.00 | 2,842.00 | 0.00 | 0.00 |
| P-676 | 283.00 | 8.0 | PVC | Open | | 75.35 | 0.48 | 2,842.04 | 2,842.00 | 0.14 | 0.04 |
| P-677 | 397.00 | 8.0 | PVC | Open | | 50.04 | 0.32 | 2,841.68 | 2,841.66 | 0.07 | 0.03 |
| P-678 | 865.00 | 8.0 | PVC | Open | | 35.39 | 0.23 | 2,841.71 | 2,841.68 | 0.03 | 0.03 |
| P-679 | 123.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,841.71 | 2,841.71 | 0.00 | 0.00 |

Scenario: 2026
Fire Flow Analysis
Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-680 | 231.00 | 8.0 | PVC | Open | | 48.04 | 0.31 | 2,841.73 | 2,841.71 | 0.06 | 0.01 |
| P-681 | 142.00 | 8.0 | PVC | Open | | 94.79 | 0.61 | 2,841.76 | 2,841.73 | 0.20 | 0.03 |
| P-682 | 1,166.00 | 8.0 | PVC | Open | | 37.02 | 0.24 | 2,841.73 | 2,841.68 | 0.04 | 0.04 |
| P-683 | 818.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,821.43 | 2,821.43 | 0.00 | 0.00 |
| P-684 | 325.00 | 12.0 | PVC | Open | | 1,607.86 | 4.56 | 2,808.60 | 2,806.78 | 5.59 | 1.82 |
| P-685 | 51.00 | 8.0 | PVC | Open | | 22.40 | 0.14 | 2,821.53 | 2,821.53 | 0.01 | 0.00 |
| P-686 | 53.00 | 8.0 | PVC | Open | | 22.40 | 0.14 | 2,821.53 | 2,821.53 | 0.01 | 0.00 |
| P-687 | 22.00 | 6.0 | PVC | Open | | 476.37 | 5.41 | 2,778.87 | 2,778.47 | 18.22 | 0.40 |
| P-688 | 146.00 | 12.0 | PVC | Open | | 486.92 | 1.38 | 2,778.87 | 2,778.78 | 0.57 | 0.08 |
| P-689 | 70.00 | 12.0 | PVC | Open | | 478.84 | 1.36 | 2,778.44 | 2,778.40 | 0.55 | 0.04 |
| P-691 | 524.00 | 8.0 | PVC | Open | | 147.22 | 0.94 | 2,778.47 | 2,778.22 | 0.46 | 0.24 |
| P-692 | 113.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,778.22 | 2,778.22 | 0.00 | 0.00 |
| P-693 | 166.00 | 6.0 | PVC | Open | | 0.55 | 0.01 | 2,778.78 | 2,778.78 | 0.00 | 0.00 |
| P-694 | 689.00 | 8.0 | PVC | Open | | 146.96 | 0.94 | 2,778.22 | 2,777.91 | 0.46 | 0.32 |
| P-695 | 356.00 | 12.0 | PVC | Open | | 774.46 | 2.20 | 2,778.40 | 2,777.91 | 1.38 | 0.49 |
| P-696 | 63.00 | 12.0 | PVC | Open | | 921.42 | 2.61 | 2,777.91 | 2,777.79 | 1.91 | 0.12 |
| P-697 | 126.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,777.79 | 2,777.79 | 0.00 | 0.00 |
| P-698 | 248.00 | 12.0 | PVC | Open | | 921.42 | 2.61 | 2,777.79 | 2,777.31 | 1.92 | 0.48 |
| P-699 | 173.00 | 8.0 | PVC | Open | | 15.48 | 0.10 | 2,777.31 | 2,777.31 | 0.01 | 0.00 |
| P-700 | 11.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,777.31 | 2,777.31 | 0.00 | 0.00 |
| P-701 | 280.00 | 8.0 | PVC | Open | | 15.48 | 0.10 | 2,777.31 | 2,777.31 | 0.01 | 0.00 |
| P-702 | 156.00 | 8.0 | PVC | Open | | 9.84 | 0.06 | 2,777.31 | 2,777.31 | 0.00 | 0.00 |
| P-703 | 299.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,777.31 | 2,777.31 | 0.00 | 0.00 |
| P-704 | 279.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,777.31 | 2,777.31 | 0.00 | 0.00 |
| P-705 | 582.00 | 12.0 | PVC | Open | | 905.93 | 2.57 | 2,777.31 | 2,776.23 | 1.85 | 1.08 |
| P-706 | 10.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,776.23 | 2,776.23 | 0.00 | 0.00 |
| P-707 | 1,401.00 | 12.0 | PVC | Open | | 903.07 | 2.56 | 2,776.23 | 2,773.65 | 1.84 | 2.58 |
| P-708 | 201.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,773.65 | 2,773.65 | 0.00 | 0.00 |
| P-709 | 14.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,773.65 | 2,773.65 | 0.00 | 0.00 |
| P-710 | 132.00 | 12.0 | PVC | Open | | 901.05 | 2.56 | 2,773.65 | 2,773.41 | 1.84 | 0.24 |
| P-711 | 335.00 | 12.0 | PVC | Open | | 625.55 | 1.77 | 2,772.58 | 2,772.27 | 0.92 | 0.31 |
| P-712 | 323.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,772.27 | 2,772.27 | 0.00 | 0.00 |
| P-713 | 228.00 | 12.0 | PVC | Open | | 625.54 | 1.77 | 2,772.27 | 2,772.06 | 0.92 | 0.21 |
| P-714 | 8.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,772.06 | 2,772.06 | 0.00 | 0.00 |
| P-715 | 163.00 | 12.0 | PVC | Open | | 625.54 | 1.77 | 2,772.06 | 2,771.91 | 0.92 | 0.15 |
| P-716 | 160.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,771.91 | 2,771.91 | 0.00 | 0.00 |
| P-718 | 620.00 | 8.0 | PVC | Open | | 204.53 | 1.31 | 2,771.46 | 2,770.93 | 0.85 | 0.53 |
| P-719 | 471.00 | 12.0 | PVC | Open | | -948.45 | 2.69 | 2,781.52 | 2,782.47 | 2.02 | 0.95 |
| P-720 | 153.00 | 12.0 | PVC | Open | | -948.45 | 2.69 | 2,782.47 | 2,782.78 | 2.02 | 0.31 |
| P-721 | 14.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,782.78 | 2,782.78 | 0.00 | 0.00 |
| P-723 | 141.00 | 12.0 | PVC | Open | | -971.97 | 2.76 | 2,785.01 | 2,785.31 | 2.12 | 0.30 |
| P-724 | 320.00 | 12.0 | PVC | Open | | -995.61 | 2.82 | 2,785.31 | 2,786.02 | 2.22 | 0.71 |
| P-725 | 502.00 | 12.0 | PVC | Open | | 23.52 | 0.07 | 2,785.31 | 2,785.31 | 0.00 | 0.00 |
| P-726 | 214.00 | 12.0 | PVC | Open | | 23.52 | 0.07 | 2,785.31 | 2,785.31 | 0.00 | 0.00 |
| P-727 | 372.00 | 8.0 | PVC | Open | | 77.20 | 0.49 | 2,776.05 | 2,776.00 | 0.14 | 0.05 |
| P-728 | 156.00 | 8.0 | PVC | Open | | 29.12 | 0.19 | 2,776.00 | 2,776.00 | 0.02 | 0.00 |
| P-729 | 708.00 | 8.0 | PVC | Open | | 34.46 | 0.22 | 2,776.00 | 2,775.98 | 0.03 | 0.02 |
| P-730 | 797.00 | 8.0 | PVC | Open | | 39.31 | 0.25 | 2,776.75 | 2,776.72 | 0.04 | 0.03 |
| P-731 | 160.00 | 8.0 | PVC | Open | | 100.26 | 0.64 | 2,776.79 | 2,776.75 | 0.23 | 0.04 |
| P-732 | 48.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,779.15 | 2,779.15 | 0.00 | 0.00 |
| P-733 | 425.00 | 8.0 | PVC | Open | | 84.65 | 0.54 | 2,778.60 | 2,778.52 | 0.17 | 0.07 |

Title: INITIAL RUN

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01/17/07 12:40:06 BENTLEY Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA

Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026
Fire Flow Analysis
Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-735 | 62.00 | 12.0 | PVC | Open | | 0.01 | 0.00 | 2,779.14 | 2,779.14 | 0.00 | 0.00 |
| P-736 | 65.00 | 12.0 | PVC | Open | | 0.01 | 0.00 | 2,779.14 | 2,779.14 | 0.00 | 0.00 |
| P-737 | 33.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.14 | 2,779.14 | 0.00 | 0.00 |
| P-738 | 136.00 | 8.0 | PVC | Open | | -192.27 | 1.23 | 2,779.26 | 2,779.36 | 0.76 | 0.10 |
| P-739 | 392.00 | 12.0 | PVC | Open | | -13.92 | 0.04 | 2,778.82 | 2,778.82 | 0.00 | 0.00 |
| P-740 | 14.00 | 8.0 | PVC | Open | | 79.67 | 0.51 | 2,778.82 | 2,778.82 | 0.16 | 0.00 |
| P-741 | 414.00 | 12.0 | PVC | Open | | 65.74 | 0.19 | 2,778.82 | 2,778.82 | 0.01 | 0.01 |
| P-742 | 275.00 | 8.0 | PVC | Open | | 116.79 | 0.75 | 2,778.82 | 2,778.74 | 0.30 | 0.08 |
| P-743 | 120.00 | 8.0 | PVC | Open | | 36.95 | 0.24 | 2,778.60 | 2,778.60 | 0.04 | 0.00 |
| P-744 | 43.00 | 12.0 | PVC | Open | | 1,932.80 | 5.48 | 2,837.30 | 2,836.95 | 7.98 | 0.34 |
| P-745 | 171.00 | 12.0 | PVC | Open | | -995.61 | 2.82 | 2,786.02 | 2,786.40 | 2.22 | 0.38 |
| P-747 | 1,566.00 | 12.0 | PVC | Open | | 1,459.34 | 4.14 | 2,786.40 | 2,779.15 | 4.63 | 7.25 |
| P-749 | 50.00 | 96.0 | PVC | Open | | 1,236.21 | 0.05 | 2,422.00 | 2,422.00 | 0.00 | 0.00 |
| P-751 | 37.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.15 | 2,779.15 | 0.00 | 0.00 |
| P-752 | 42.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.15 | 2,779.15 | 0.00 | 0.00 |
| P-753 | 697.00 | 8.0 | PVC | Open | | 95.57 | 0.61 | 2,779.53 | 2,779.38 | 0.21 | 0.15 |
| P-754 | 420.00 | 6.0 | PVC | Open | | 11.42 | 0.13 | 2,778.67 | 2,778.67 | 0.02 | 0.01 |
| P-755 | 452.00 | 6.0 | PVC | Open | | 49.17 | 0.56 | 2,788.50 | 2,788.38 | 0.25 | 0.11 |
| P-756 | 895.00 | 8.0 | PVC | Open | | 0.30 | 0.00 | 2,855.76 | 2,855.76 | 0.00 | 0.00 |
| P-757 | 777.00 | 8.0 | PVC | Open | | 4.14 | 0.03 | 2,855.76 | 2,855.76 | 0.00 | 0.00 |
| P-758 | 967.00 | 8.0 | PVC | Open | | 10.93 | 0.07 | 2,855.76 | 2,855.75 | 0.00 | 0.00 |
| P-759 | 920.00 | 8.0 | PVC | Open | | 182.02 | 1.16 | 2,776.18 | 2,775.55 | 0.68 | 0.63 |
| P-760 | 2,830.00 | 12.0 | PVC | Open | | 136.75 | 0.39 | 2,778.82 | 2,778.67 | 0.06 | 0.16 |
| P-762 | 30.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,753.78 | 2,753.78 | 0.00 | 0.00 |
| P-763 | 833.00 | 12.0 | PVC | Open | | 1,335.26 | 3.79 | 2,785.77 | 2,782.52 | 3.90 | 3.25 |
| P-764 | 330.00 | 8.0 | PVC | Open | | 774.57 | 4.94 | 2,753.78 | 2,750.23 | 10.74 | 3.54 |
| P-765 | 140.00 | 6.0 | Steel | Open | | 435.36 | 4.94 | 2,543.00 | 2,541.14 | 13.29 | 1.86 |
| P-766 | 2.00 | 12.0 | PVC | Open | | 1,607.86 | 4.56 | 2,820.58 | 2,820.57 | 5.62 | 0.01 |
| P-767 | 356.00 | 8.0 | PVC | Open | | 775.19 | 4.95 | 2,757.60 | 2,753.78 | 10.75 | 3.83 |
| P-768 | 239.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,748.30 | 2,748.30 | 0.00 | 0.00 |
| P-769 | 2.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,786.90 | 2,786.90 | 0.00 | 0.00 |
| P-844 | 254.00 | 12.0 | PVC | Open | | 1,922.04 | 5.45 | 2,833.65 | 2,831.64 | 7.90 | 2.01 |
| P-845 | 230.00 | 12.0 | PVC | Open | | 1,923.40 | 5.46 | 2,835.47 | 2,833.65 | 7.91 | 1.82 |
| P-846 | 188.00 | 12.0 | PVC | Open | | 1,924.77 | 5.46 | 2,836.95 | 2,835.47 | 7.92 | 1.49 |
| P-847 | 383.00 | 8.0 | PVC | Open | | 2.04 | 0.01 | 2,831.64 | 2,831.64 | 0.00 | 0.00 |
| P-848 | 176.00 | 8.0 | PVC | Open | | 1.37 | 0.01 | 2,833.65 | 2,833.65 | 0.00 | 0.00 |
| P-849 | 168.00 | 8.0 | PVC | Open | | 1.37 | 0.01 | 2,835.47 | 2,835.47 | 0.00 | 0.00 |
| P-900 | 587.00 | 12.0 | PVC | Open | | 2,588.29 | 7.34 | 2,875.28 | 2,867.00 | 14.10 | 8.28 |
| P-901 | 2.00 | 8.0 | Steel | Open | | 262.69 | 1.68 | 2,778.97 | 2,778.97 | 1.22 | 0.00 |
| P-904 | 143.00 | 12.0 | PVC | Open | | 1,351.86 | 3.83 | 2,787.47 | 2,786.90 | 4.00 | 0.57 |
| P-906 | 60.00 | 12.0 | PVC | Open | | -138.37 | 0.39 | 2,776.09 | 2,776.09 | 0.06 | 0.00 |
| P-907 | 1,798.00 | 8.0 | PVC | Open | | 1,236.21 | 7.89 | 2,834.36 | 2,786.40 | 26.68 | 47.96 |
| P-950 | 171.00 | 8.0 | PVC | Open | | 70.13 | 0.45 | 2,778.36 | 2,778.34 | 0.12 | 0.02 |
| P-954 | 23.00 | 64.0 | PVC | Open | | 273.68 | 0.03 | 2,574.50 | 2,574.50 | 0.00 | 0.00 |
| P-958 | 76.00 | 8.0 | PVC | Open | | -35.15 | 0.22 | 2,775.55 | 2,775.55 | 0.04 | 0.00 |
| P-959 | 345.00 | 8.0 | PVC | Open | | 217.17 | 1.39 | 2,775.55 | 2,775.22 | 0.95 | 0.33 |
| P-960 | 37.00 | 8.0 | PVC | Open | | 213.28 | 1.36 | 2,775.22 | 2,775.19 | 0.92 | 0.03 |
| P-964 | 1,139.00 | 12.0 | PVC | Open | | 604.26 | 1.71 | 2,771.91 | 2,770.93 | 0.86 | 0.98 |
| P-965 | 21.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,778.04 | 2,778.04 | 0.00 | 0.00 |
| P-968 | 1,673.00 | 8.0 | PVC | Open | | 0.62 | 0.00 | 2,753.78 | 2,753.78 | 0.00 | 0.00 |
| P-971 | 601.00 | 6.0 | PVC | Open | | -18.12 | 0.21 | 2,779.08 | 2,779.10 | 0.04 | 0.03 |

Title: INITIAL RUN

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Project Engineer: DMC

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Scenario: 2026
Fire Flow Analysis
Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|--------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-972 | 79.00 | 6.0 | PVC | Open | | 2.81 | 0.03 | 2,779.08 | 2,779.08 | 0.00 | 0.00 |
| P-973 | 180.00 | 8.0 | PVC | Open | | -15.31 | 0.10 | 2,779.08 | 2,779.08 | 0.01 | 0.00 |
| P-974 | 904.00 | 8.0 | PVC | Open | | 11.67 | 0.07 | 2,792.81 | 2,792.80 | 0.01 | 0.00 |
| P-975 | 179.00 | 6.0 | PVC | Open | | 11.67 | 0.13 | 2,792.80 | 2,792.80 | 0.02 | 0.00 |
| P-976 | 344.00 | 6.0 | PVC | Open | | 9.73 | 0.11 | 2,788.50 | 2,788.49 | 0.01 | 0.00 |
| P-977 | 178.00 | 6.0 | PVC | Open | | 9.73 | 0.11 | 2,788.49 | 2,788.49 | 0.02 | 0.00 |
| P-978 | 629.00 | 8.0 | PVC | Open | | 775.19 | 4.95 | 2,764.37 | 2,757.60 | 10.75 | 6.76 |
| P-979 | 592.00 | 8.0 | PVC | Open | | 787.51 | 5.03 | 2,770.93 | 2,764.37 | 11.09 | 6.56 |
| P-980 | 752.00 | 8.0 | PVC | Open | | 774.57 | 4.94 | 2,750.10 | 2,742.02 | 10.74 | 8.07 |
| P-981 | 7.00 | 8.0 | PVC | Open | | 2,588.29 | 16.52 | 2,742.02 | 2,741.22 | 114.01 | 0.80 |
| P-982 | 100.00 | 12.0 | PVC | Open | | 774.57 | 2.20 | 2,750.23 | 2,750.10 | 1.37 | 0.14 |
| P-984 | 126.00 | 12.0 | PVC | Open | | 373.21 | 1.06 | 2,778.44 | 2,778.40 | 0.35 | 0.04 |
| P-985 | 103.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,778.44 | 2,778.44 | 0.00 | 0.00 |
| P-986 | 207.00 | 8.0 | PVC | Open | | 0.58 | 0.00 | 2,778.49 | 2,778.49 | 0.00 | 0.00 |
| P-987 | 32.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,806.78 | 2,806.78 | 0.00 | 0.00 |
| P-988 | 415.00 | 8.0 | PVC | Open | | 60.51 | 0.39 | 2,778.53 | 2,778.49 | 0.09 | 0.04 |
| P-989 | 710.00 | 8.0 | PVC | Open | | 380.55 | 2.43 | 2,774.51 | 2,772.57 | 2.74 | 1.95 |
| P-990 | 846.00 | 12.0 | PVC | Open | | -496.05 | 1.41 | 2,778.64 | 2,779.15 | 0.59 | 0.50 |
| P-991 | 19.00 | 8.0 | PVC | Open | | 380.55 | 2.43 | 2,772.57 | 2,772.52 | 2.75 | 0.05 |
| P-992 | 269.00 | 12.0 | PVC | Open | | -199.29 | 0.57 | 2,778.61 | 2,778.64 | 0.11 | 0.03 |
| P-993 | 340.00 | 12.0 | PVC | Open | | -199.29 | 0.57 | 2,778.58 | 2,778.61 | 0.11 | 0.04 |
| P-994 | 67.00 | 12.0 | PVC | Open | | -199.29 | 0.57 | 2,778.57 | 2,778.58 | 0.11 | 0.01 |
| P-995 | 230.00 | 12.0 | PVC | Open | | -89.53 | 0.25 | 2,778.56 | 2,778.57 | 0.03 | 0.01 |
| P-996 | 172.00 | 12.0 | PVC | Open | | -89.53 | 0.25 | 2,778.56 | 2,778.56 | 0.03 | 0.00 |
| P-997 | 147.00 | 8.0 | PVC | Open | | 60.52 | 0.39 | 2,778.56 | 2,778.54 | 0.09 | 0.01 |
| P-998 | 54.00 | 8.0 | PVC | Open | | -12.49 | 0.08 | 2,778.56 | 2,778.56 | 0.00 | 0.00 |
| P-999 | 190.00 | 12.0 | PVC | Open | | -73.01 | 0.21 | 2,778.56 | 2,778.56 | 0.02 | 0.00 |
| P-1000 | 80.00 | 12.0 | PVC | Open | | 16.52 | 0.05 | 2,778.56 | 2,778.56 | 0.00 | 0.00 |
| P-1001 | 141.00 | 12.0 | PVC | Open | | 16.52 | 0.05 | 2,778.56 | 2,778.56 | 0.00 | 0.00 |
| P-1002 | 262.00 | 12.0 | PVC | Open | | 16.52 | 0.05 | 2,778.56 | 2,778.56 | 0.00 | 0.00 |
| P-1003 | 11.00 | 12.0 | PVC | Open | | 16.52 | 0.05 | 2,778.56 | 2,778.56 | 0.00 | 0.00 |
| P-1005 | 258.00 | 12.0 | PVC | Open | | 313.28 | 0.89 | 2,778.56 | 2,778.49 | 0.25 | 0.07 |
| P-1006 | 84.00 | 12.0 | PVC | Open | | 296.76 | 0.84 | 2,778.64 | 2,778.62 | 0.23 | 0.02 |
| P-1007 | 290.00 | 12.0 | PVC | Open | | 296.76 | 0.84 | 2,778.62 | 2,778.56 | 0.23 | 0.07 |
| P-1008 | 716.00 | 8.0 | PVC | Open | | 102.58 | 0.65 | 2,841.93 | 2,841.76 | 0.24 | 0.17 |
| P-1012 | 194.00 | 8.0 | PVC | Open | | 256.66 | 1.64 | 2,777.12 | 2,776.87 | 1.30 | 0.25 |
| P-1013 | 158.00 | 8.0 | PVC | Open | | 156.26 | 1.00 | 2,776.87 | 2,776.79 | 0.52 | 0.08 |
| P-1014 | 443.00 | 8.0 | PVC | Open | | 120.78 | 0.77 | 2,776.25 | 2,776.10 | 0.32 | 0.14 |
| P-1015 | 162.00 | 8.0 | PVC | Open | | 120.78 | 0.77 | 2,776.10 | 2,776.05 | 0.32 | 0.05 |
| P-1016 | 1,013.00 | 8.0 | PVC | Open | | 100.40 | 0.64 | 2,776.87 | 2,776.64 | 0.23 | 0.23 |
| P-1018 | 2,372.00 | 8.0 | PVC | Open | | 100.40 | 0.64 | 2,776.64 | 2,776.10 | 0.23 | 0.54 |
| P-1025 | 64.00 | 12.0 | PVC | Open | | 1,242.26 | 3.52 | 2,786.72 | 2,786.50 | 3.40 | 0.22 |
| P-1026 | 50.00 | 96.0 | PVC | Open | | -1,242.26 | 0.06 | 2,422.00 | 2,422.00 | 0.00 | 0.00 |
| P-1027 | 46.00 | 12.0 | PVC | Open | | -995.61 | 2.82 | 2,786.40 | 2,786.50 | 2.22 | 0.10 |
| P-1029 | 716.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,772.27 | 2,772.27 | 0.00 | 0.00 |
| P-1030 | 229.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,772.27 | 2,772.27 | 0.00 | 0.00 |
| P-1031 | 211.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,772.27 | 2,772.27 | 0.00 | 0.00 |
| P-1032 | 536.00 | 8.0 | PVC | Open | | -79.66 | 0.51 | 2,778.74 | 2,778.82 | 0.15 | 0.08 |
| P-1034 | 1,051.00 | 12.0 | PVC | Open | | -971.97 | 2.76 | 2,782.78 | 2,785.01 | 2.12 | 2.23 |
| P-1035 | 20.00 | 12.0 | PVC | Open | | 246.65 | 0.70 | 2,786.50 | 2,786.50 | 0.16 | 0.00 |
| P-1036 | 1,271.00 | 14.0 | PVC | Open | | 246.65 | 0.51 | 2,786.50 | 2,786.40 | 0.08 | 0.10 |

Title: INITIAL RUN

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Project Engineer: DMC
WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026
Fire Flow Analysis
Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|--------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-1037 | 19.00 | 8.0 | PVC | Open | | 273.68 | 1.75 | 2,786.15 | 2,786.13 | 1.48 | 0.03 |

Scenario: 2026
Fire Flow Analysis
Pump Report

| Label | Discharge (gpm) | Control Status | Elevation (ft) | Intake Pump Grade (ft) | Pump Head (ft) | Discharge Pump Grade (ft) | Calculated Water Power (Hp) |
|-----------|-----------------|----------------|----------------|------------------------|----------------|---------------------------|-----------------------------|
| PMP-1 | 262.69 | On | 2,534.00 | 2,534.00 | 244.97 | 2,778.97 | 16.25 |
| PMP-2 | 435.36 | On | 2,543.00 | 2,541.14 | 71.41 | 2,612.55 | 7.85 |
| PMP-2.1 | 101.55 | On | 2,610.00 | 2,610.99 | 168.23 | 2,779.22 | 4.31 |
| PMP-2.2 | 147.96 | On | 2,610.00 | 2,610.99 | 168.24 | 2,779.23 | 6.28 |
| PMP-2.3 | 0.00 | Off | 2,610.00 | 2,611.00 | 0.00 | 2,779.20 | 0.00 |
| PMP-3 | 273.68 | On | 2,624.50 | 2,574.50 | 211.65 | 2,786.15 | 14.62 |
| PMP-4 | 1,351.86 | On | 2,399.00 | 2,419.00 | 368.47 | 2,787.47 | 125.76 |
| PMP-6 | 138.37 | On | 2,474.00 | 2,493.50 | 282.59 | 2,776.09 | 9.87 |
| PMP-7 | 1,236.21 | On | 2,372.00 | 2,422.00 | 412.36 | 2,834.36 | 128.70 |
| PMP-8 | 1,242.26 | On | 2,567.00 | 2,422.00 | 364.72 | 2,786.72 | 114.39 |
| PMP-Boost | 2,588.29 | On | 2,640.00 | 2,741.22 | 134.05 | 2,875.28 | 87.60 |

Scenario: 2026
Fire Flow Analysis
Tank Report

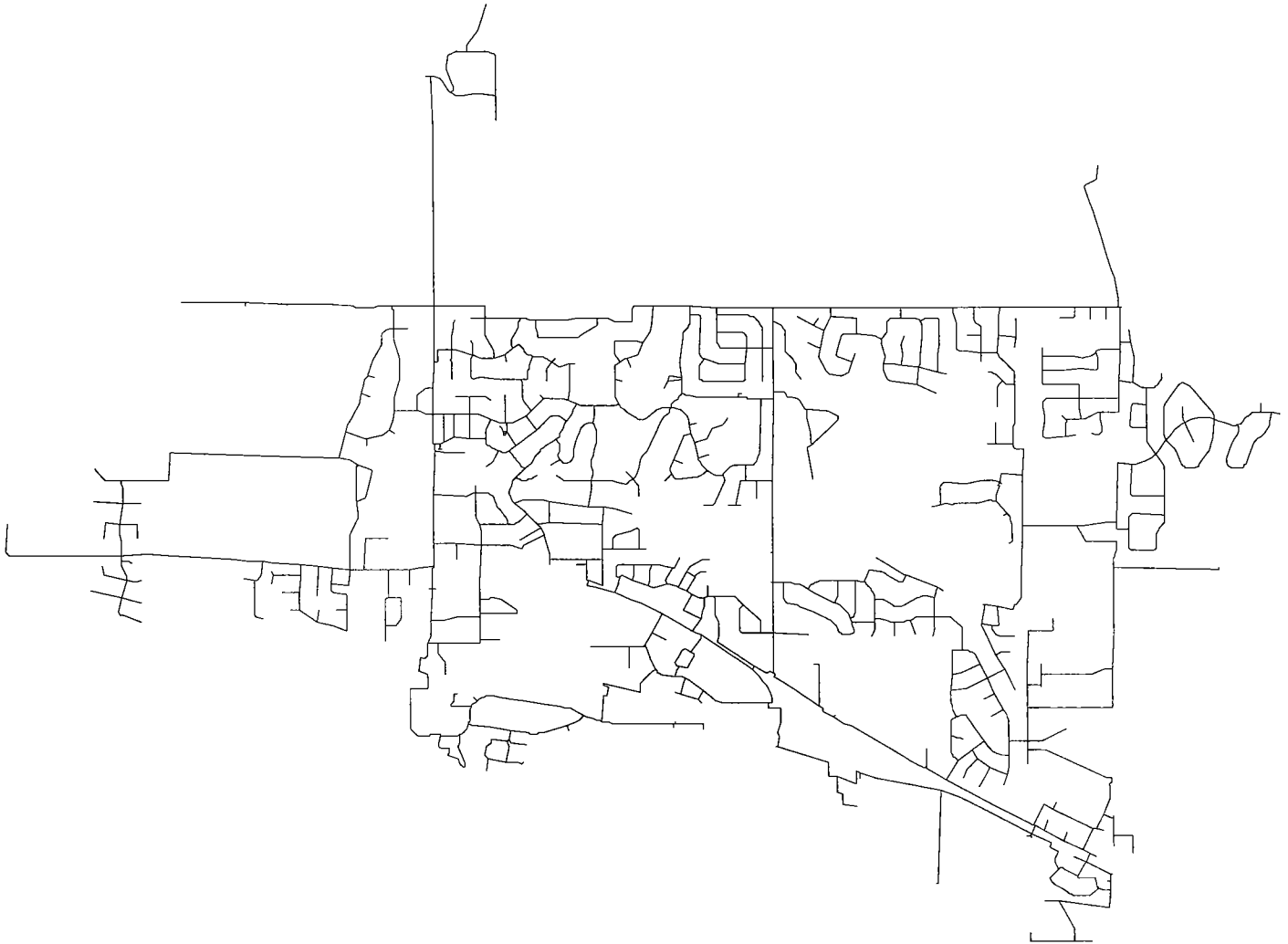
| Label | Base Elevation (ft) | Minimum Elevation (ft) | Initial HGL (ft) | Maximum Elevation (ft) | Inactive Volume (gal) | Tank Diameter (ft) | Inflow (gpm) | Current Status | Calculated Hydraulic Grade (ft) | Calculated Percent Full (%) |
|-------|---------------------|------------------------|------------------|------------------------|-----------------------|--------------------|--------------|----------------|---------------------------------|-----------------------------|
| T-1 | 2,610.00 | 2,610.50 | 2,611.00 | 2,618.00 | 0.00 | N/A | 185.85 | Filling | 2,611.00 | 6.7 |

Scenario: 2026
Fire Flow Analysis
Valve Report

| Label | Elevation (ft) | Diameter (in) | Control Status | Discharge (gpm) | From HGL (ft) | To HGL (ft) | Headloss (ft) | Calculated Pressure Setting (psi) |
|------------------------|----------------|---------------|----------------|-----------------|---------------|-------------|---------------|-----------------------------------|
| FCV-2-Hwy 55 | 2,602.00 | 12.0 | Closed | 0.00 | 2,821.56 | 2,748.30 | 0.00 | |
| FCV-5 Southhampton | 2,652.00 | 8.0 | Closed | 0.00 | 2,806.78 | 2,821.43 | 0.00 | |
| FCV-6 GREAT SKY Wy | 2,569.50 | 12.0 | Inactive | -0.00 | 2,778.04 | 2,778.04 | 0.00 | |
| TCV-3-Horse Shoe Bend | 2,620.00 | 8.0 | Throttling | 775.19 | 2,757.60 | 2,757.60 | 0.00 | |
| PSV-1 Floating Feather | 2,653.00 | 12.0 | Throttling | 1,607.86 | 2,820.57 | 2,808.60 | 11.98 | 72.50 |
| TCV-4-State at Well 4 | 2,565.00 | 12.0 | Closed | 0.00 | 2,779.06 | 2,786.90 | 0.00 | |
| PSV-Gladestone | 2,572.00 | 6.0 | Inactive | 380.55 | 2,772.57 | 2,772.57 | 0.00 | 62.83 |
| PSV-2 | 2,567.00 | 10.0 | Inactive | 246.65 | 2,786.50 | 2,786.50 | 0.00 | 65.00 |

2026 Scenario Well #4 Off

Scenario: 2026 WELL 4 OFF



Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-1 | false | 4.69 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-2 | false | 10.75 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-3 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-4 | true | 1.49 | 1,500.00 | 1,501.49 | 87.12 | J-416 | 21.99 | 4,663.55 |
| J-5 | true | 2.76 | 1,500.00 | 1,502.76 | 86.44 | J-416 | 22.44 | 4,528.40 |
| J-6 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-7 | false | 1.16 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-8 | true | 103.96 | 1,500.00 | 1,603.96 | 87.48 | J-416 | 24.43 | 4,286.51 |
| J-9 | false | 6.02 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-10 | false | 10.08 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-11 | true | 0.02 | 1,500.00 | 1,500.02 | 86.65 | J-416 | 24.90 | 4,219.83 |
| J-12 | true | 10.70 | 1,500.00 | 1,510.70 | 87.15 | J-416 | 23.19 | 4,411.91 |
| J-13 | true | 16.54 | 1,500.00 | 1,516.54 | 86.20 | J-416 | 21.43 | 4,571.31 |
| J-14 | true | 4.87 | 1,500.00 | 1,504.87 | 87.73 | J-416 | 20.00 | 4,675.44 |
| J-15 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-16 | false | 11.67 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-17 | true | 6.81 | 1,500.00 | 1,506.81 | 88.10 | J-416 | 22.65 | 4,415.65 |
| J-18 | true | 1.95 | 1,500.00 | 1,501.95 | 88.10 | J-416 | 24.54 | 4,254.89 |
| J-19 | false | 9.44 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-20 | true | 6.09 | 1,500.00 | 1,506.09 | 85.59 | J-416 | 25.80 | 4,063.02 |
| J-21 | true | 0.00 | 1,500.00 | 1,500.00 | 87.16 | J-416 | 25.47 | 3,972.59 |
| J-22 | true | 7.93 | 1,500.00 | 1,507.93 | 87.62 | J-416 | 25.63 | 4,007.12 |
| J-23 | false | 12.65 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-24 | true | 5.98 | 1,500.00 | 1,505.98 | 87.56 | J-416 | 25.98 | 4,088.03 |
| J-25 | true | 0.00 | 1,500.00 | 1,500.00 | 86.03 | J-416 | 25.78 | 4,039.56 |
| J-26 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-27 | false | 9.73 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-28 | true | 15.57 | 1,500.00 | 1,515.57 | 85.80 | J-416 | 22.37 | 4,392.53 |
| J-29 | true | 13.62 | 1,500.00 | 1,513.62 | 87.59 | J-416 | 20.00 | 4,602.28 |
| J-30 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-31 | false | 4.57 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-32 | true | 12.65 | 1,500.00 | 1,512.65 | 74.18 | J-416 | 20.00 | 4,589.75 |
| J-33 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-34 | true | 3.89 | 1,500.00 | 1,503.89 | 66.16 | J-416 | 20.00 | 3,699.79 |
| J-35 | false | 11.67 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-36 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-37 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-38 | true | 3.89 | 1,500.00 | 1,503.89 | 67.73 | J-416 | 40.02 | 5,000.00 |
| J-39 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-40 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-41 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-42 | true | 0.00 | 1,500.00 | 1,500.00 | 74.30 | J-416 | 40.02 | 5,000.00 |
| J-43 | true | 9.92 | 1,500.00 | 1,509.92 | 77.69 | J-416 | 20.00 | 4,466.82 |
| J-44 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-45 | true | 2.92 | 1,500.00 | 1,502.92 | 70.63 | J-416 | 40.02 | 4,999.35 |
| J-46 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-47 | true | 4.86 | 1,500.00 | 1,504.86 | 56.00 | J-416 | 20.00 | 2,559.23 |
| J-48 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

c:\...2026 scenario well 4 off.wcd

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-49 | false | 8.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-50 | false | 8.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-51 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-52 | true | 9.73 | 1,500.00 | 1,509.73 | 30.21 | J-416 | 40.02 | 1,681.87 |
| J-53 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-54 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-55 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-56 | true | 6.81 | 1,500.00 | 1,506.81 | 65.26 | J-416 | 20.00 | 4,483.72 |
| J-57 | true | 21.40 | 1,500.00 | 1,521.40 | 63.75 | J-416 | 20.00 | 4,427.18 |
| J-58 | false | 6.80 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-59 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-60 | true | 2.81 | 1,500.00 | 1,502.81 | 51.59 | J-416 | 37.89 | 2,625.46 |
| J-61 | true | 10.70 | 1,500.00 | 1,510.70 | 66.45 | J-416 | 20.00 | 4,400.39 |
| J-62 | false | 10.73 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-63 | true | 10.73 | 1,500.00 | 1,510.73 | 69.87 | J-416 | 20.00 | 4,572.51 |
| J-64 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-65 | true | 13.62 | 1,500.00 | 1,513.62 | 65.48 | J-416 | 24.58 | 3,556.58 |
| J-66 | true | 15.57 | 1,500.00 | 1,515.57 | 54.48 | J-416 | 20.01 | 2,611.49 |
| J-67 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-68 | true | 29.19 | 1,500.00 | 1,529.19 | 66.08 | J-416 | 20.00 | 4,368.99 |
| J-69 | true | 23.35 | 1,500.00 | 1,523.35 | 73.40 | J-416 | 20.00 | 4,454.99 |
| J-70 | false | 8.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-71 | true | 19.46 | 1,500.00 | 1,519.46 | 50.53 | J-416 | 20.00 | 2,285.98 |
| J-72 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-73 | false | 9.73 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-74 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-75 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-76 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-77 | true | 3.89 | 1,500.00 | 1,503.89 | 58.24 | J-416 | 20.00 | 3,615.13 |
| J-78 | false | 4.86 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-79 | false | 10.70 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-80 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-81 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-83 | true | 11.67 | 1,500.00 | 1,511.67 | 56.98 | J-416 | 26.03 | 3,549.30 |
| J-84 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-85 | false | 1.95 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-86 | true | 12.63 | 1,500.00 | 1,512.63 | 53.13 | J-416 | 21.21 | 3,085.26 |
| J-87 | false | 8.75 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-88 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-89 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-90 | false | 6.82 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-91 | true | 7.79 | 1,500.00 | 1,507.79 | 54.06 | J-416 | 23.13 | 2,920.48 |
| J-92 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-93 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-94 | true | 3.90 | 1,500.00 | 1,503.90 | 42.26 | J-917 | 20.02 | 2,034.95 |
| J-95 | false | 14.59 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-96 | false | 3.71 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-97 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

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01/18/07 11:05:47 AM Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA

Project Engineer: DMC
WaterCAD v7.0 [07.00.049.00]
+1-203-755-1666
Page 2 of 15

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-98 | false | 2.91 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-99 | false | 3.90 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-100 | true | 4.58 | 1,500.00 | 1,504.58 | 37.30 | J-101 | 20.00 | 1,857.16 |
| J-101 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-102 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-103 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-104 | true | 0.00 | 1,500.00 | 1,500.00 | 53.70 | J-416 | 21.73 | 2,659.84 |
| J-105 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-106 | false | 10.70 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-107 | false | 11.33 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-108 | true | 7.78 | 1,500.00 | 1,507.78 | 54.87 | J-416 | 20.86 | 2,919.71 |
| J-109 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-110 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-111 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-112 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-113 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-114 | true | 5.84 | 1,500.00 | 1,505.84 | 55.33 | J-416 | 22.45 | 3,163.62 |
| J-115 | true | 4.86 | 1,500.00 | 1,504.86 | 80.32 | J-416 | 24.71 | 3,790.05 |
| J-116 | true | 5.84 | 1,500.00 | 1,505.84 | 56.17 | J-416 | 20.00 | 3,267.57 |
| J-117 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-118 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-119 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-120 | true | 7.78 | 1,500.00 | 1,507.78 | 53.71 | J-416 | 20.00 | 2,905.96 |
| J-121 | true | 7.78 | 1,500.00 | 1,507.78 | 50.86 | J-416 | 20.00 | 2,610.13 |
| J-122 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-123 | true | 13.62 | 1,500.00 | 1,513.62 | 42.42 | J-416 | 20.64 | 2,171.16 |
| J-124 | false | 12.32 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-125 | true | 15.57 | 1,500.00 | 1,515.57 | 28.27 | J-126 | 21.08 | 1,659.30 |
| J-126 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-127 | true | 0.00 | 1,500.00 | 1,500.00 | 65.92 | J-416 | 20.12 | 4,660.14 |
| J-128 | true | 1.93 | 1,500.00 | 1,501.93 | 45.43 | J-416 | 20.02 | 2,286.48 |
| J-131 | false | 2.94 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-132 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-133 | false | 13.62 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-134 | false | 11.67 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-135 | false | 29.31 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-136 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-137 | false | 1.95 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-138 | false | 11.67 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-139 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-140 | true | 0.15 | 1,500.00 | 1,500.15 | 74.94 | J-416 | 36.63 | 2,993.35 |
| J-141 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-142 | true | 7.78 | 1,500.00 | 1,507.78 | 79.22 | J-416 | 33.38 | 3,420.84 |
| J-143 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-144 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-145 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-146 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-147 | false | 7.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-148 | true | 10.58 | 1,500.00 | 1,510.58 | 52.53 | J-416 | 20.01 | 2,978.36 |
| J-149 | true | 29.20 | 1,500.00 | 1,529.20 | 51.50 | J-416 | 25.66 | 2,791.51 |
| J-150 | false | 9.73 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-151 | true | 12.65 | 1,500.00 | 1,512.65 | 53.45 | J-416 | 20.00 | 2,933.23 |
| J-152 | true | 13.62 | 1,500.00 | 1,513.62 | 52.63 | J-416 | 20.00 | 2,916.04 |
| J-153 | true | 4.86 | 1,500.00 | 1,504.86 | 52.95 | J-416 | 20.00 | 2,912.89 |
| J-154 | true | 13.62 | 1,500.00 | 1,513.62 | 76.30 | J-416 | 22.16 | 3,347.62 |
| J-155 | true | 16.54 | 1,500.00 | 1,516.54 | 75.75 | J-416 | 20.13 | 3,120.07 |
| J-156 | true | 0.00 | 1,500.00 | 1,500.00 | 71.80 | J-416 | 33.81 | 2,800.21 |
| J-157 | false | 3.02 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-158 | true | 25.09 | 1,500.00 | 1,525.09 | 70.05 | J-416 | 40.02 | 2,794.76 |
| J-159 | true | 20.43 | 1,500.00 | 1,520.43 | 84.10 | J-416 | 25.44 | 4,737.32 |
| J-160 | true | 1.12 | 1,500.00 | 1,501.12 | 86.67 | J-416 | 23.07 | 5,000.00 |
| J-161 | true | 13.62 | 1,500.00 | 1,513.62 | 82.68 | J-416 | 24.65 | 4,779.11 |
| J-162 | false | 0.97 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-163 | true | 7.05 | 1,500.00 | 1,507.05 | 86.42 | J-416 | 23.95 | 4,964.63 |
| J-164 | true | 15.57 | 1,500.00 | 1,515.57 | 83.69 | J-416 | 20.00 | 4,155.63 |
| J-165 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-166 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-167 | true | 6.69 | 1,500.00 | 1,506.69 | 83.99 | J-416 | 20.00 | 4,046.14 |
| J-168 | true | 1.37 | 1,500.00 | 1,501.37 | 84.83 | J-416 | 20.00 | 4,156.01 |
| J-169 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-170 | false | 6.51 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-171 | false | 17.33 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-172 | true | 6.81 | 1,500.00 | 1,506.81 | 86.70 | J-416 | 20.00 | 4,619.97 |
| J-173 | false | 2.24 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-174 | true | 1.95 | 1,500.00 | 1,501.95 | 74.93 | J-416 | 34.61 | 3,017.01 |
| J-175 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-176 | false | 4.70 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-177 | false | 39.54 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-178 | false | 10.70 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-179 | false | 64.70 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-180 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-181 | false | 7.77 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-182 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-183 | false | 10.69 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-184 | true | 3.89 | 1,500.00 | 1,503.89 | 95.54 | J-416 | 20.00 | 3,716.16 |
| J-185 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-186 | true | 7.78 | 1,500.00 | 1,507.78 | 58.44 | J-416 | 40.02 | 1,501.00 |
| J-187 | true | 0.00 | 1,500.00 | 1,500.00 | 90.58 | J-416 | 40.02 | 3,214.48 |
| J-188 | false | 10.69 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-189 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-190 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-191 | true | 3.88 | 1,500.00 | 1,503.88 | 95.62 | J-416 | 32.11 | 5,000.00 |
| J-192 | false | 2.22 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-193 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-194 | true | 4.86 | 1,500.00 | 1,504.86 | 94.63 | J-416 | 31.83 | 5,000.00 |
| J-195 | false | 66.47 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

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01/18/07 11:05:47 AM Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA

Project Engineer: DMC
WaterCAD v7.0 [07.00.049.00]

+1-203-755-1666

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Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-196 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-197 | true | 46.51 | 1,500.00 | 1,546.51 | 91.32 | J-416 | 20.00 | 4,926.73 |
| J-198 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-199 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-200 | false | 4.69 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-201 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-202 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-203 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-204 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-205 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-206 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-207 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-208 | false | 1.95 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-209 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-210 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-211 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-212 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-213 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-214 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-215 | false | 11.67 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-216 | true | 8.76 | 1,500.00 | 1,508.76 | 80.25 | J-416 | 20.02 | 3,520.14 |
| J-217 | false | 15.68 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-218 | true | 1.74 | 1,500.00 | 1,501.74 | 86.54 | J-416 | 25.57 | 3,992.22 |
| J-219 | false | 24.87 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-220 | true | 0.00 | 1,500.00 | 1,500.00 | 85.63 | J-416 | 24.42 | 3,739.07 |
| J-221 | true | 0.00 | 1,500.00 | 1,500.00 | 82.95 | J-416 | 24.08 | 3,620.18 |
| J-222 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-223 | false | 0.49 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-224 | true | 1.81 | 1,500.00 | 1,501.81 | 81.99 | J-416 | 24.22 | 3,656.81 |
| J-225 | true | 5.06 | 1,500.00 | 1,505.06 | 82.19 | J-416 | 24.36 | 3,697.70 |
| J-226 | true | 9.73 | 1,500.00 | 1,509.73 | 72.28 | J-416 | 34.34 | 2,977.28 |
| J-227 | true | 17.51 | 1,500.00 | 1,517.51 | 72.10 | J-416 | 20.00 | 3,077.65 |
| J-228 | false | 12.65 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-229 | true | 7.78 | 1,500.00 | 1,507.78 | 65.78 | J-416 | 20.00 | 2,721.64 |
| J-230 | true | 10.70 | 1,500.00 | 1,510.70 | 64.74 | J-416 | 20.00 | 2,671.75 |
| J-231 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-232 | true | 16.56 | 1,500.00 | 1,516.56 | 67.14 | J-416 | 20.00 | 2,733.95 |
| J-233 | true | 7.69 | 1,500.00 | 1,507.69 | 66.93 | J-416 | 20.00 | 2,701.16 |
| J-234 | false | 12.75 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-235 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-236 | false | 114.24 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-237 | false | 0.64 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-238 | true | 0.91 | 1,500.00 | 1,500.91 | 70.69 | J-982 | 20.01 | 2,260.75 |
| J-239 | false | 2.66 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-240 | false | 26.03 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-241 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-242 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-243 | true | 6.81 | 1,500.00 | 1,506.81 | 69.66 | J-982 | 20.00 | 2,232.74 |

Title: INITIAL RUN

c:\...2026 scenario well 4 off.wcd

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-244 | true | 11.67 | 1,500.00 | 1,511.67 | 71.00 | J-982 | 20.01 | 2,222.62 |
| J-245 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-246 | true | 9.73 | 1,500.00 | 1,509.73 | 70.93 | J-982 | 20.01 | 2,232.98 |
| J-247 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-248 | true | 8.76 | 1,500.00 | 1,508.76 | 69.97 | J-982 | 20.01 | 2,224.92 |
| J-249 | true | 5.84 | 1,500.00 | 1,505.84 | 68.66 | J-982 | 20.00 | 2,231.72 |
| J-250 | false | 3.21 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-251 | true | 7.78 | 1,500.00 | 1,507.78 | 68.38 | J-982 | 20.01 | 2,194.53 |
| J-252 | false | 1.29 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-253 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-254 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-255 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-256 | false | 0.25 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-257 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-258 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-259 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-260 | true | 2.92 | 1,500.00 | 1,502.92 | 41.86 | J-587 | 20.43 | 2,271.54 |
| J-261 | false | 1.95 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-262 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-263 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-264 | true | 9.73 | 1,500.00 | 1,509.73 | 40.79 | J-587 | 20.43 | 2,190.21 |
| J-265 | false | 5.85 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-266 | true | 16.54 | 1,500.00 | 1,516.54 | 39.11 | J-587 | 20.00 | 2,095.64 |
| J-267 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-268 | true | 14.59 | 1,500.00 | 1,514.59 | 44.19 | J-587 | 20.00 | 2,300.97 |
| J-269 | true | 8.76 | 1,500.00 | 1,508.76 | 43.73 | J-587 | 20.00 | 2,276.79 |
| J-270 | true | 11.67 | 1,500.00 | 1,511.67 | 43.22 | J-587 | 20.00 | 2,201.50 |
| J-271 | true | 2.46 | 1,500.00 | 1,502.46 | 41.21 | J-587 | 20.00 | 2,127.53 |
| J-272 | false | 8.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-273 | true | 8.76 | 1,500.00 | 1,508.76 | 39.88 | J-587 | 20.00 | 2,132.69 |
| J-274 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-275 | true | 10.70 | 1,500.00 | 1,510.70 | 40.90 | J-587 | 20.00 | 2,199.93 |
| J-276 | true | 14.59 | 1,500.00 | 1,514.59 | 38.90 | J-587 | 20.00 | 2,101.52 |
| J-277 | false | 17.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-278 | true | 19.47 | 1,500.00 | 1,519.47 | 38.88 | J-587 | 22.58 | 2,167.99 |
| J-279 | false | 4.46 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-280 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-281 | false | 6.25 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-282 | false | 11.67 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-283 | true | 4.24 | 1,500.00 | 1,504.24 | 44.79 | J-981 | 20.00 | 1,914.20 |
| J-284 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-285 | true | 0.00 | 1,500.00 | 1,500.00 | 47.41 | J-981 | 20.00 | 1,914.31 |
| J-286 | false | 5.60 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-287 | true | 10.70 | 1,500.00 | 1,510.70 | 63.21 | J-981 | 20.01 | 1,913.94 |
| J-288 | true | 15.57 | 1,500.00 | 1,515.57 | 62.41 | J-981 | 20.01 | 1,913.96 |
| J-289 | true | 6.81 | 1,500.00 | 1,506.81 | 61.43 | J-981 | 20.01 | 1,913.94 |
| J-290 | true | 4.86 | 1,500.00 | 1,504.86 | 55.28 | J-981 | 20.01 | 1,913.94 |
| J-291 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

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Bentley Systems, Inc.

Haestad Methods Solution Center

Watertown, CT 06795 USA

+1-203-755-1666

Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-292 | false | 8.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-293 | false | 5.50 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-294 | false | 8.03 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-295 | true | 3.21 | 1,500.00 | 1,503.21 | 67.83 | J-982 | 20.00 | 2,261.04 |
| J-296 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-297 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-298 | true | 0.00 | 1,500.00 | 1,500.00 | 60.50 | J-981 | 20.01 | 1,913.96 |
| J-299 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-300 | false | 0.97 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-301 | false | 9.73 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-302 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-303 | true | 0.00 | 1,500.00 | 1,500.00 | 61.81 | J-981 | 20.01 | 1,913.95 |
| J-304 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-305 | true | 14.59 | 1,500.00 | 1,514.59 | 62.81 | J-981 | 20.01 | 1,913.93 |
| J-306 | true | 15.57 | 1,500.00 | 1,515.57 | 64.63 | J-981 | 20.01 | 1,913.93 |
| J-307 | true | 10.70 | 1,500.00 | 1,510.70 | 66.71 | J-981 | 20.01 | 1,913.94 |
| J-308 | true | 10.70 | 1,500.00 | 1,510.70 | 63.41 | J-981 | 20.01 | 1,913.94 |
| J-309 | true | 16.54 | 1,500.00 | 1,516.54 | 69.47 | J-981 | 20.01 | 1,913.90 |
| J-310 | true | 25.29 | 1,500.00 | 1,525.29 | 69.07 | J-981 | 20.01 | 1,913.91 |
| J-311 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-312 | false | 274.77 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-313 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-314 | true | 0.00 | 1,500.00 | 1,500.00 | 60.33 | J-981 | 20.01 | 1,913.96 |
| J-315 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-316 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-317 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-318 | true | 14.59 | 1,500.00 | 1,514.59 | 77.78 | J-416 | 20.01 | 4,647.06 |
| J-319 | false | 34.72 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-320 | false | 8.96 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-321 | true | 18.48 | 1,500.00 | 1,518.48 | 76.91 | J-981 | 20.02 | 1,788.45 |
| J-322 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-323 | true | 12.32 | 1,500.00 | 1,512.32 | 61.81 | J-981 | 20.01 | 1,968.93 |
| J-325 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-326 | true | 0.00 | 1,500.00 | 1,500.00 | 72.52 | J-982 | 20.00 | 2,236.89 |
| J-327 | false | 8.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-328 | true | 4.86 | 1,500.00 | 1,504.86 | 43.04 | J-982 | 28.67 | 1,864.56 |
| J-329 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-330 | true | 6.81 | 1,500.00 | 1,506.81 | 64.95 | J-982 | 20.00 | 2,233.60 |
| J-331 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-332 | false | 10.70 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-333 | false | 1.03 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-334 | true | 10.70 | 1,500.00 | 1,510.70 | 69.09 | J-982 | 20.00 | 2,187.51 |
| J-335 | false | 8.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-336 | true | 7.78 | 1,500.00 | 1,507.78 | 68.92 | J-982 | 20.00 | 2,185.35 |
| J-337 | true | 7.78 | 1,500.00 | 1,507.78 | 68.78 | J-982 | 20.01 | 2,175.01 |
| J-338 | true | 5.84 | 1,500.00 | 1,505.84 | 68.55 | J-982 | 20.01 | 2,184.11 |
| J-339 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-340 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-341 | true | 6.81 | 1,500.00 | 1,506.81 | 67.18 | J-982 | 20.01 | 2,132.81 |
| J-342 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-343 | true | 6.81 | 1,500.00 | 1,506.81 | 66.41 | J-982 | 20.01 | 2,092.75 |
| J-344 | true | 9.73 | 1,500.00 | 1,509.73 | 62.55 | J-981 | 20.00 | 2,010.97 |
| J-345 | false | 15.73 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-346 | true | 6.43 | 1,500.00 | 1,506.43 | 62.07 | J-981 | 20.01 | 1,913.95 |
| J-347 | true | 4.86 | 1,500.00 | 1,504.86 | 58.08 | J-981 | 20.01 | 1,913.93 |
| J-348 | false | 17.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-349 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-350 | true | 7.78 | 1,500.00 | 1,507.78 | 58.17 | J-981 | 20.01 | 1,913.95 |
| J-351 | false | 8.76 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-352 | false | 17.92 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-353 | true | 3.89 | 1,500.00 | 1,503.89 | 58.52 | J-981 | 31.52 | 1,501.00 |
| J-354 | true | 12.66 | 1,500.00 | 1,512.66 | 51.62 | J-981 | 20.01 | 1,913.96 |
| J-355 | false | 6.81 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-356 | false | 5.84 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-357 | true | 11.67 | 1,500.00 | 1,511.67 | 48.61 | J-981 | 20.01 | 1,913.96 |
| J-358 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-359 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-360 | true | 0.00 | 1,500.00 | 1,500.00 | 31.38 | J-981 | 20.00 | 1,914.32 |
| J-361 | true | 0.00 | 1,500.00 | 1,500.00 | 97.21 | J-416 | 33.19 | 5,000.00 |
| J-364 | false | 5.81 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-365 | false | 0.96 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-366 | false | 3.02 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-367 | false | 9.87 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-368 | false | 7.16 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-369 | false | 1.16 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-370 | true | 0.00 | 1,500.00 | 1,500.00 | 59.32 | J-982 | 20.00 | 2,426.30 |
| J-371 | false | 19.01 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-372 | true | 9.53 | 1,500.00 | 1,509.53 | 86.55 | J-416 | 25.52 | 4,009.08 |
| J-373 | false | 2.20 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-374 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-375 | false | 0.73 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-376 | false | 15.08 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-377 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-378 | false | 12.40 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-379 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-380 | false | 13.19 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-381 | true | 1.62 | 1,500.00 | 1,501.62 | 63.99 | J-416 | 36.66 | 3,161.03 |
| J-382 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-383 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-384 | true | 5.63 | 1,500.00 | 1,505.63 | 89.16 | J-416 | 25.17 | 3,931.90 |
| J-385 | true | 0.94 | 1,500.00 | 1,500.94 | 86.71 | J-416 | 24.11 | 3,636.52 |
| J-386 | true | 17.77 | 1,500.00 | 1,517.77 | 86.59 | J-416 | 25.01 | 3,896.37 |
| J-387 | false | 1.74 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-388 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-389 | true | 0.00 | 1,500.00 | 1,500.00 | 88.94 | J-416 | 24.06 | 3,622.44 |
| J-390 | false | 10.30 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-391 | true | 0.00 | 1,500.00 | 1,500.00 | 63.29 | J-416 | 40.02 | 2,326.90 |
| J-392 | true | 7.77 | 1,500.00 | 1,507.77 | 87.75 | J-416 | 24.07 | 3,622.21 |
| J-393 | false | 10.08 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-394 | true | 0.00 | 1,500.00 | 1,500.00 | 88.07 | J-416 | 24.06 | 3,617.08 |
| J-395 | true | 1.07 | 1,500.00 | 1,501.07 | 87.35 | J-416 | 24.15 | 3,650.40 |
| J-396 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-397 | false | 10.42 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-398 | true | 0.00 | 1,500.00 | 1,500.00 | 90.37 | J-416 | 23.98 | 3,580.53 |
| J-399 | true | 18.48 | 1,500.00 | 1,518.48 | 88.46 | J-416 | 23.98 | 3,597.44 |
| J-400 | true | 13.43 | 1,500.00 | 1,513.43 | 87.06 | J-416 | 24.00 | 3,602.86 |
| J-401 | true | 0.00 | 1,500.00 | 1,500.00 | 86.12 | J-416 | 24.08 | 3,629.44 |
| J-402 | true | 2.47 | 1,500.00 | 1,502.47 | 88.87 | J-416 | 23.88 | 3,534.07 |
| J-403 | true | 0.00 | 1,500.00 | 1,500.00 | 89.07 | J-416 | 23.97 | 3,545.01 |
| J-404 | true | 0.42 | 1,500.00 | 1,500.42 | 86.00 | J-416 | 23.60 | 3,465.79 |
| J-405 | false | 3.66 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-406 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-407 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-408 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-409 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-410 | false | 10.70 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-411 | true | 7.65 | 1,500.00 | 1,507.65 | 59.50 | J-416 | 20.01 | 4,079.46 |
| J-412 | true | 12.65 | 1,500.00 | 1,512.65 | 67.87 | J-416 | 20.00 | 4,202.17 |
| J-413 | true | 4.86 | 1,500.00 | 1,504.86 | 69.59 | J-416 | 20.00 | 4,265.44 |
| J-414 | true | 3.88 | 1,500.00 | 1,503.88 | 40.96 | J-981 | 20.01 | 1,913.94 |
| J-415 | true | 8.75 | 1,500.00 | 1,508.75 | 39.87 | J-981 | 20.01 | 1,913.94 |
| J-416 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-417 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-418 | true | 10.70 | 1,500.00 | 1,510.70 | 67.34 | J-416 | 20.00 | 2,599.14 |
| J-419 | true | 7.78 | 1,500.00 | 1,507.78 | 67.12 | J-416 | 20.00 | 2,595.45 |
| J-420 | false | 12.65 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-421 | true | 15.57 | 1,500.00 | 1,515.57 | 58.14 | J-416 | 20.00 | 2,411.81 |
| J-422 | true | 0.00 | 1,500.00 | 1,500.00 | 59.11 | J-416 | 20.43 | 2,449.00 |
| J-423 | false | 4.86 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-424 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-425 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-426 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-427 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-428 | false | 0.58 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-429 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-430 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-431 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-432 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-433 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-434 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-435 | false | 1.95 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-436 | true | 3.89 | 1,500.00 | 1,503.89 | 50.97 | J-982 | 20.00 | 2,161.49 |
| J-437 | true | 1.95 | 1,500.00 | 1,501.95 | 47.44 | J-982 | 26.02 | 2,039.13 |
| J-438 | false | 1.95 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-439 | true | 1.95 | 1,500.00 | 1,501.95 | 24.90 | J-982 | 35.26 | 1,564.94 |
| J-440 | true | 0.82 | 1,500.00 | 1,500.82 | 34.18 | J-982 | 26.01 | 1,714.63 |
| J-441 | false | 11.15 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-442 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-443 | true | 7.55 | 2,500.00 | 2,507.55 | 71.71 | J-416 | 24.95 | 3,882.59 |
| J-444 | true | 0.72 | 1,500.00 | 1,500.72 | 87.51 | J-416 | 24.91 | 3,873.45 |
| J-445 | false | 0.11 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-446 | true | 8.72 | 1,500.00 | 1,508.72 | 87.13 | J-416 | 24.85 | 3,860.66 |
| J-447 | true | 0.00 | 1,500.00 | 1,500.00 | 86.63 | J-416 | 24.81 | 3,848.31 |
| J-448 | true | 0.00 | 1,500.00 | 1,500.00 | 82.88 | J-416 | 23.93 | 3,848.66 |
| J-449 | true | 1.25 | 1,500.00 | 1,501.25 | 81.70 | J-416 | 20.65 | 3,720.53 |
| J-450 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-451 | true | 0.00 | 2,500.00 | 2,500.00 | 74.50 | J-416 | 24.73 | 3,830.33 |
| J-452 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-453 | true | 0.12 | 1,500.00 | 1,500.12 | 86.43 | J-416 | 24.69 | 3,818.98 |
| J-454 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-455 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-456 | true | 1.84 | 1,500.00 | 1,501.84 | 85.97 | J-416 | 24.65 | 3,807.06 |
| J-457 | true | 0.00 | 1,500.00 | 1,500.00 | 86.03 | J-416 | 24.58 | 3,789.03 |
| J-458 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-459 | true | 0.24 | 1,500.00 | 1,500.24 | 82.72 | J-416 | 24.69 | 3,815.87 |
| J-460 | true | 0.01 | 2,500.00 | 2,500.01 | 65.49 | J-416 | 24.71 | 3,821.61 |
| J-461 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-462 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-463 | true | 0.00 | 1,500.00 | 1,500.00 | 75.63 | J-416 | 34.34 | 3,103.92 |
| J-464 | true | 0.55 | 1,500.00 | 1,500.55 | 77.28 | J-416 | 22.34 | 3,269.20 |
| J-465 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-466 | true | 0.00 | 1,500.00 | 1,500.00 | 79.44 | J-416 | 20.00 | 3,533.86 |
| J-467 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-468 | true | 0.03 | 1,500.00 | 1,500.03 | 72.22 | J-416 | 36.83 | 2,858.65 |
| J-469 | true | 0.07 | 2,500.00 | 2,500.07 | 48.94 | J-416 | 20.02 | 3,231.76 |
| J-470 | true | 0.01 | 1,500.00 | 1,500.02 | 73.70 | J-416 | 31.29 | 2,970.62 |
| J-471 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-472 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-473 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-474 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-475 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-476 | true | 0.03 | 1,500.00 | 1,500.03 | 78.10 | J-416 | 33.36 | 3,213.53 |
| J-477 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-478 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-479 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-480 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-481 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-482 | true | 0.00 | 1,500.00 | 1,500.00 | 87.50 | J-416 | 24.51 | 3,766.69 |
| J-483 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-484 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-485 | true | 0.00 | 1,500.00 | 1,500.00 | 85.69 | J-416 | 24.51 | 3,766.86 |
| J-486 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

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01/18/07 11:05:47 AM Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA

Project Engineer: DMC
WaterCAD v7.0 [07.00.049.00]

+1-203-755-1666 Page 10 of 15

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-487 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-488 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-489 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-490 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-491 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-492 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-493 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-494 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-495 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-496 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-497 | false | 56.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-498 | false | 12.65 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-499 | true | 0.00 | 1,500.00 | 1,500.00 | 60.33 | J-981 | 20.01 | 1,913.95 |
| J-500 | true | 9.73 | 1,500.00 | 1,509.73 | 61.65 | J-981 | 20.01 | 1,913.95 |
| J-501 | true | 11.55 | 1,500.00 | 1,511.55 | 62.51 | J-981 | 20.01 | 1,913.95 |
| J-502 | true | 15.58 | 1,500.00 | 1,515.58 | 60.34 | J-981 | 20.01 | 1,913.92 |
| J-503 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-504 | true | 0.00 | 1,500.00 | 1,500.00 | 75.27 | J-416 | 40.02 | 5,000.00 |
| J-505 | false | 0.01 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-506 | true | 0.00 | 1,500.00 | 1,500.00 | 76.63 | J-416 | 40.02 | 5,000.00 |
| J-507 | false | 6.83 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-508 | true | 11.67 | 1,500.00 | 1,511.67 | 71.12 | J-416 | 20.00 | 4,453.56 |
| J-509 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-510 | true | 7.78 | 1,500.00 | 1,507.78 | 61.74 | J-416 | 37.35 | 2,970.29 |
| J-511 | true | 12.65 | 1,500.00 | 1,512.65 | 70.72 | J-416 | 20.00 | 4,430.24 |
| J-512 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-513 | false | 7.79 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-514 | true | 5.84 | 1,500.00 | 1,505.84 | 67.91 | J-416 | 20.00 | 4,390.87 |
| J-515 | true | 7.78 | 1,500.00 | 1,507.78 | 72.11 | J-416 | 20.00 | 4,348.79 |
| J-516 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-517 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-518 | true | 2.92 | 1,500.00 | 1,502.92 | 66.93 | J-416 | 20.00 | 4,384.29 |
| J-519 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-520 | true | 5.84 | 1,500.00 | 1,505.84 | 66.62 | J-416 | 20.00 | 4,374.44 |
| J-521 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-522 | true | 6.81 | 1,500.00 | 1,506.81 | 60.59 | J-981 | 20.00 | 1,994.45 |
| J-523 | true | 2.25 | 1,500.00 | 1,502.25 | 51.41 | J-981 | 20.00 | 1,994.48 |
| J-524 | false | 16.61 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-525 | true | 2.92 | 1,500.00 | 1,502.92 | 66.31 | J-416 | 20.00 | 2,604.26 |
| J-527 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-528 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-529 | false | 12.63 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-530 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-531 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-532 | true | 7.78 | 1,500.00 | 1,507.78 | 76.12 | J-416 | 20.22 | 3,953.05 |
| J-533 | false | 1.95 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-534 | true | 7.78 | 1,500.00 | 1,507.78 | 76.59 | J-416 | 20.22 | 4,038.21 |
| J-535 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

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Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-536 | true | 4.86 | 1,500.00 | 1,504.86 | 80.84 | J-416 | 20.00 | 4,935.51 |
| J-537 | false | 56.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-538 | true | 2.92 | 1,500.00 | 1,502.92 | 79.85 | J-416 | 20.00 | 4,761.73 |
| J-539 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-540 | true | 5.84 | 1,500.00 | 1,505.84 | 79.77 | J-416 | 20.00 | 4,805.07 |
| J-541 | false | 1.95 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-542 | true | 13.62 | 1,500.00 | 1,513.62 | 80.50 | J-416 | 20.00 | 4,722.54 |
| J-543 | true | 6.29 | 1,500.00 | 1,506.29 | 87.27 | J-416 | 25.66 | 4,054.28 |
| J-544 | true | 9.30 | 1,500.00 | 1,509.30 | 87.11 | J-416 | 25.64 | 4,042.46 |
| J-546 | true | 7.78 | 1,500.00 | 1,507.78 | 84.05 | J-416 | 25.65 | 4,046.67 |
| J-547 | true | 13.13 | 1,500.00 | 1,513.13 | 85.89 | J-416 | 24.70 | 3,808.10 |
| J-548 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-549 | true | 8.05 | 1,500.00 | 1,508.05 | 83.80 | J-416 | 24.46 | 3,747.12 |
| J-550 | true | 0.00 | 1,500.00 | 1,500.00 | 83.67 | J-416 | 24.42 | 3,736.92 |
| J-551 | true | 0.00 | 1,500.00 | 1,500.00 | 83.97 | J-416 | 24.38 | 3,722.79 |
| J-552 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-553 | true | 24.32 | 1,500.00 | 1,524.32 | 84.44 | J-416 | 24.46 | 3,745.77 |
| J-554 | true | 19.46 | 1,500.00 | 1,519.46 | 84.31 | J-416 | 24.43 | 3,737.88 |
| J-555 | true | 10.70 | 1,500.00 | 1,510.70 | 83.10 | J-416 | 24.41 | 3,731.27 |
| J-556 | false | 15.09 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-557 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-558 | false | 19.10 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-559 | true | 15.57 | 1,500.00 | 1,515.57 | 83.40 | J-416 | 24.29 | 3,692.74 |
| J-560 | false | 12.26 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-561 | true | 7.78 | 1,500.00 | 1,507.78 | 85.48 | J-416 | 24.28 | 3,690.05 |
| J-562 | true | 0.00 | 1,500.00 | 1,500.00 | 85.76 | J-416 | 24.25 | 3,678.35 |
| J-563 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-564 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-565 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-566 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-567 | true | 3.39 | 1,500.00 | 1,503.39 | 87.65 | J-416 | 24.15 | 3,651.12 |
| J-568 | false | 22.40 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-569 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-570 | false | 22.40 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-571 | true | 22.38 | 1,500.00 | 1,522.38 | 60.09 | J-981 | 20.01 | 1,913.95 |
| J-572 | true | 12.65 | 1,500.00 | 1,512.65 | 65.11 | J-981 | 20.01 | 1,913.95 |
| J-573 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-574 | true | 9.73 | 1,500.00 | 1,509.73 | 65.63 | J-981 | 20.01 | 1,913.96 |
| J-575 | false | 7.79 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-576 | true | 12.65 | 1,500.00 | 1,512.65 | 61.92 | J-981 | 20.01 | 1,913.95 |
| J-577 | true | 16.54 | 1,500.00 | 1,516.54 | 65.24 | J-981 | 20.01 | 1,913.95 |
| J-578 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-579 | true | 14.59 | 1,500.00 | 1,514.59 | 64.72 | J-981 | 20.01 | 1,913.94 |
| J-580 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-581 | false | 0.97 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-582 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-583 | true | 3.89 | 1,500.00 | 1,503.89 | 65.03 | J-981 | 20.01 | 1,913.96 |
| J-584 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

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01/18/07 11:05:47 AM

Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA

Project Engineer: DMC WaterCAD v7.0 [07.00.049.00]

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-585 | true | 0.00 | 1,500.00 | 1,500.00 | 58.31 | J-981 | 20.01 | 1,913.94 |
| J-586 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-587 | true | 7.78 | 1,500.00 | 1,507.78 | 36.40 | J-416 | 27.40 | 2,140.65 |
| J-588 | true | 0.00 | 1,500.00 | 1,500.00 | 66.78 | J-982 | 20.00 | 2,368.72 |
| J-589 | false | 0.26 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-590 | true | 0.00 | 1,500.00 | 1,500.00 | 59.91 | J-982 | 20.00 | 2,389.33 |
| J-591 | false | 0.36 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-592 | true | 0.55 | 1,500.00 | 1,500.55 | 57.54 | J-982 | 20.32 | 2,425.73 |
| J-593 | false | 77.59 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-594 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-595 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-596 | true | 0.00 | 1,500.00 | 1,500.00 | 68.95 | J-982 | 20.01 | 2,373.43 |
| J-597 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-598 | true | 0.00 | 1,500.00 | 1,500.00 | 68.74 | J-982 | 20.00 | 2,345.71 |
| J-599 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-600 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-601 | false | 5.64 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-602 | true | 9.84 | 1,500.00 | 1,509.84 | 58.29 | J-982 | 20.00 | 2,345.71 |
| J-603 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-604 | true | 0.00 | 1,500.00 | 1,500.00 | 51.43 | J-982 | 24.62 | 2,178.57 |
| J-605 | true | 2.87 | 1,500.00 | 1,502.87 | 67.86 | J-982 | 20.01 | 2,299.84 |
| J-606 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-607 | true | 2.01 | 1,500.00 | 1,502.01 | 69.50 | J-982 | 20.01 | 2,225.48 |
| J-608 | true | 0.00 | 1,500.00 | 1,500.00 | 64.60 | J-982 | 20.00 | 2,225.74 |
| J-609 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-610 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-611 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-612 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-613 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-614 | false | 21.28 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-615 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-616 | false | 21.28 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-617 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-618 | false | 23.52 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-619 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-620 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-621 | true | 0.11 | 1,500.00 | 1,500.11 | 85.51 | J-416 | 29.67 | 3,114.10 |
| J-622 | true | 0.00 | 1,500.00 | 1,500.00 | 84.20 | J-416 | 29.67 | 3,114.15 |
| J-623 | false | 23.52 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-624 | true | 0.00 | 1,500.00 | 1,500.00 | 85.33 | J-416 | 29.68 | 3,123.86 |
| J-625 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-628 | false | 23.52 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-636 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-637 | true | 13.62 | 1,500.00 | 1,513.62 | 81.37 | J-416 | 20.00 | 3,705.66 |
| J-638 | false | 29.12 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-639 | true | 34.46 | 1,500.00 | 1,534.46 | 69.98 | J-416 | 40.02 | 2,655.83 |
| J-640 | false | 56.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-650 | false | 22.38 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

c:\...2026 scenario well 4 off.wcd

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-651 | false | 12.65 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-653 | false | 16.54 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-654 | false | 21.40 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-655 | false | 18.48 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-656 | false | 23.68 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-657 | false | 16.54 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-658 | false | 0.30 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-659 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-660 | false | 0.62 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-661 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-750 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-751 | false | 4.86 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-752 | false | 20.81 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-813 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-814 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-822 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-823 | true | 0.00 | 1,500.00 | 1,500.00 | 31.71 | J-138 | 30.80 | 1,501.00 |
| J-824 | true | 0.00 | 1,500.00 | 1,500.00 | 29.23 | J-150 | 29.61 | 1,501.00 |
| J-825 | false | 12.32 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-826 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-827 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-828 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-829 | false | 0.00 | 2,500.00 | 2,500.00 | 45.55 | J-982 | 20.00 | 2,432.48 |
| J-830 | false | 0.00 | 2,500.00 | 2,500.00 | 45.23 | J-982 | 20.00 | 2,432.00 |
| J-831 | false | 109.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-832 | false | 0.00 | 2,500.00 | 2,500.00 | 45.31 | J-982 | 20.01 | 2,430.59 |
| J-833 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-834 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-835 | false | 0.00 | 2,500.00 | 2,500.00 | 45.52 | J-982 | 20.01 | 2,429.83 |
| J-836 | false | 0.00 | 2,500.00 | 2,500.00 | 45.61 | J-982 | 20.00 | 2,429.54 |
| J-837 | false | 0.00 | 2,500.00 | 2,500.00 | 46.05 | J-982 | 20.00 | 2,429.39 |
| J-838 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-840 | false | 0.00 | 2,500.00 | 2,500.00 | 46.08 | J-982 | 20.00 | 2,432.75 |
| J-841 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-842 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-843 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-844 | false | 0.68 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-845 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-846 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-847 | false | 2.04 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-848 | false | 1.37 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-849 | false | 1.37 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-850 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-851 | true | 0.00 | 1,500.00 | 1,500.00 | 63.95 | J-982 | 34.29 | 1,501.00 |
| J-852 | true | 0.00 | 1,500.00 | 1,500.00 | 63.47 | J-982 | 34.29 | 1,501.00 |
| J-853 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-901 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-906 | false | 4.26 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-917 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-981 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-982 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-1 | 2,558.30 | Zone | Demand | 4.69 | COMMERCIAL | 4.69 | 2,777.23 | 94.72 |
| J-2 | 2,558.00 | Zone | Demand | 10.75 | COMMERCIAL | 10.75 | 2,777.50 | 94.97 |
| J-3 | 2,556.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.50 | 95.61 |
| J-4 | 2,557.50 | Zone | Demand | 1.49 | COMMERCIAL | 1.49 | 2,777.79 | 95.31 |
| J-5 | 2,559.00 | Zone | Demand | 2.76 | COMMERCIAL | 2.76 | 2,777.85 | 94.69 |
| J-6 | 2,558.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.86 | 95.12 |
| J-7 | 2,557.00 | Zone | Demand | 1.16 | COMMERCIAL | 1.16 | 2,777.86 | 95.55 |
| J-8 | 2,557.00 | Zone | Demand | 103.96 | IRRIGATION | 103.96 | 2,777.87 | 95.56 |
| J-9 | 2,555.00 | Zone | Demand | 6.02 | COMMERCIAL | 6.02 | 2,777.95 | 96.46 |
| J-10 | 2,550.50 | Zone | Demand | 10.08 | Composite | 10.08 | 2,778.15 | 98.49 |
| J-11 | 2,554.50 | Zone | Demand | 0.02 | COMMERCIAL | 0.02 | 2,777.88 | 96.65 |
| J-12 | 2,556.70 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,777.87 | 95.69 |
| J-13 | 2,557.00 | Zone | Demand | 16.54 | RESIDENTIAL | 16.54 | 2,777.88 | 95.56 |
| J-14 | 2,555.70 | Zone | Demand | 4.87 | Composite | 4.87 | 2,777.93 | 96.15 |
| J-15 | 2,558.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.88 | 95.13 |
| J-16 | 2,552.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,777.87 | 97.73 |
| J-17 | 2,555.30 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,777.88 | 96.30 |
| J-18 | 2,554.70 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,777.88 | 96.56 |
| J-19 | 2,552.00 | Zone | Demand | 9.44 | Composite | 9.44 | 2,777.93 | 97.75 |
| J-20 | 2,553.00 | Zone | Demand | 6.09 | COMMERCIAL | 6.09 | 2,777.93 | 97.32 |
| J-21 | 2,554.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.18 | 96.77 |
| J-22 | 2,553.50 | Zone | Demand | 7.93 | Composite | 7.93 | 2,778.02 | 97.14 |
| J-23 | 2,557.00 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,777.87 | 95.56 |
| J-24 | 2,553.00 | Zone | Demand | 5.98 | Composite | 5.98 | 2,777.88 | 97.29 |
| J-25 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.94 | 96.02 |
| J-26 | 2,554.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,777.84 | 96.85 |
| J-27 | 2,555.50 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,777.83 | 96.19 |
| J-28 | 2,558.00 | Zone | Demand | 15.57 | RESIDENTIAL | 15.57 | 2,777.85 | 95.12 |
| J-29 | 2,556.00 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,777.88 | 96.00 |
| J-30 | 2,579.50 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.95 | 85.86 |
| J-31 | 2,581.50 | Zone | Demand | 4.57 | RESIDENTIAL | 4.57 | 2,777.95 | 85.00 |
| J-32 | 2,585.50 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,777.98 | 83.28 |
| J-33 | 2,595.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.12 | 79.23 |
| J-34 | 2,596.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.13 | 78.58 |
| J-35 | 2,597.50 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,778.12 | 78.15 |
| J-36 | 2,604.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,778.17 | 75.14 |
| J-37 | 2,601.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,778.18 | 76.66 |
| J-38 | 2,603.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.21 | 75.81 |
| J-39 | 2,591.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.33 | 81.05 |
| J-40 | 2,592.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.16 | 80.54 |
| J-41 | 2,591.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.25 | 81.01 |
| J-42 | 2,590.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.87 | 81.28 |
| J-43 | 2,581.00 | Zone | Demand | 9.92 | COMMERCIAL | 9.92 | 2,777.65 | 85.08 |
| J-44 | 2,590.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.04 | 81.36 |
| J-45 | 2,594.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,778.13 | 79.66 |
| J-46 | 2,602.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,778.16 | 76.21 |
| J-47 | 2,596.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,778.15 | 78.81 |
| J-48 | 2,593.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.15 | 79.89 |
| J-49 | 2,601.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,778.14 | 76.64 |
| J-50 | 2,603.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,778.21 | 75.80 |
| J-51 | 2,606.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,778.34 | 74.56 |
| J-52 | 2,609.00 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,778.33 | 73.26 |

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-53 | 2,605.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.65 | 75.13 |
| J-54 | 2,604.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.70 | 75.58 |
| J-55 | 2,607.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,777.99 | 73.76 |
| J-56 | 2,608.50 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,777.88 | 73.28 |
| J-57 | 2,610.50 | Zone | Demand | 21.40 | RESIDENTIAL | 21.40 | 2,777.74 | 72.36 |
| J-58 | 2,606.00 | Zone | Demand | 6.80 | RESIDENTIAL | 6.80 | 2,777.78 | 74.32 |
| J-59 | 2,618.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.72 | 68.89 |
| J-60 | 2,615.00 | Zone | Demand | 2.81 | Composite | 2.81 | 2,777.72 | 70.40 |
| J-61 | 2,604.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,777.78 | 74.97 |
| J-62 | 2,600.00 | Zone | Demand | 10.73 | RESIDENTIAL | 10.73 | 2,777.84 | 76.94 |
| J-63 | 2,597.50 | Zone | Demand | 10.73 | RESIDENTIAL | 10.73 | 2,778.05 | 78.12 |
| J-64 | 2,595.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,778.29 | 79.09 |
| J-65 | 2,595.50 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,777.84 | 78.89 |
| J-66 | 2,604.00 | Zone | Demand | 15.57 | RESIDENTIAL | 15.57 | 2,777.78 | 75.19 |
| J-67 | 2,604.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,777.78 | 74.97 |
| J-68 | 2,603.00 | Zone | Demand | 29.19 | RESIDENTIAL | 29.19 | 2,777.74 | 75.60 |
| J-69 | 2,585.00 | Zone | Demand | 23.35 | RESIDENTIAL | 23.35 | 2,777.75 | 83.39 |
| J-70 | 2,587.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,777.75 | 82.53 |
| J-71 | 2,600.00 | Zone | Demand | 19.46 | RESIDENTIAL | 19.46 | 2,777.65 | 76.86 |
| J-72 | 2,602.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,777.64 | 75.78 |
| J-73 | 2,589.50 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,777.61 | 81.39 |
| J-74 | 2,617.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,777.64 | 69.50 |
| J-75 | 2,606.50 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,777.70 | 74.07 |
| J-76 | 2,611.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,777.74 | 72.14 |
| J-77 | 2,617.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,777.68 | 69.52 |
| J-78 | 2,618.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,777.55 | 69.03 |
| J-79 | 2,616.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,777.67 | 69.73 |
| J-80 | 2,613.50 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.67 | 71.03 |
| J-81 | 2,607.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,777.53 | 73.56 |
| J-83 | 2,619.50 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,777.66 | 68.43 |
| J-84 | 2,624.50 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,777.66 | 66.27 |
| J-85 | 2,626.00 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,777.69 | 65.63 |
| J-86 | 2,623.50 | Zone | Demand | 12.63 | RESIDENTIAL | 12.63 | 2,777.69 | 66.71 |
| J-87 | 2,618.00 | Zone | Demand | 8.75 | RESIDENTIAL | 8.75 | 2,777.69 | 69.09 |
| J-88 | 2,618.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.69 | 69.09 |
| J-89 | 2,618.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.68 | 69.09 |
| J-90 | 2,618.00 | Zone | Demand | 6.82 | RESIDENTIAL | 6.82 | 2,777.68 | 69.09 |
| J-91 | 2,616.50 | Zone | Demand | 7.79 | RESIDENTIAL | 7.79 | 2,777.71 | 69.75 |
| J-92 | 2,619.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,777.38 | 68.53 |
| J-93 | 2,619.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,777.41 | 68.32 |
| J-94 | 2,618.00 | Zone | Demand | 3.90 | RESIDENTIAL | 3.90 | 2,777.39 | 68.96 |
| J-95 | 2,619.50 | Zone | Demand | 14.59 | RESIDENTIAL | 14.59 | 2,777.38 | 68.31 |
| J-96 | 2,621.50 | Zone | Demand | 3.71 | Composite | 3.71 | 2,778.30 | 67.84 |
| J-97 | 2,615.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.38 | 70.26 |
| J-98 | 2,612.50 | Zone | Demand | 2.91 | RESIDENTIAL | 2.91 | 2,777.38 | 71.34 |
| J-99 | 2,611.00 | Zone | Demand | 3.90 | RESIDENTIAL | 3.90 | 2,777.38 | 71.98 |
| J-100 | 2,609.50 | Zone | Demand | 4.58 | Composite | 4.58 | 2,777.38 | 72.63 |
| J-101 | 2,610.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,777.38 | 72.42 |
| J-102 | 2,615.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,777.39 | 70.26 |
| J-103 | 2,615.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,777.39 | 70.26 |
| J-104 | 2,607.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.38 | 73.50 |
| J-105 | 2,603.50 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.38 | 75.23 |

Title: INITIAL RUN

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01/18/07 11:13:43 Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA

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Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-106 | 2,593.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,777.30 | 79.52 |
| J-107 | 2,612.50 | Zone | Demand | 11.33 | Composite | 11.33 | 2,777.38 | 71.34 |
| J-108 | 2,612.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,777.38 | 71.33 |
| J-109 | 2,610.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,777.37 | 72.41 |
| J-110 | 2,610.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.37 | 72.41 |
| J-111 | 2,610.50 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.37 | 72.20 |
| J-112 | 2,614.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,777.38 | 70.69 |
| J-113 | 2,611.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,777.38 | 71.77 |
| J-114 | 2,617.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,777.38 | 69.39 |
| J-115 | 2,564.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,778.61 | 92.85 |
| J-116 | 2,620.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,777.79 | 68.27 |
| J-117 | 2,621.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.93 | 67.90 |
| J-118 | 2,579.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.84 | 87.33 |
| J-119 | 2,623.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.76 | 66.74 |
| J-120 | 2,624.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,777.73 | 66.30 |
| J-121 | 2,627.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,777.79 | 65.02 |
| J-122 | 2,618.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,777.78 | 68.91 |
| J-123 | 2,624.50 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,777.76 | 66.31 |
| J-124 | 2,588.00 | Zone | Demand | 12.32 | COMMERCIAL | 12.32 | 2,770.47 | 78.95 |
| J-125 | 2,623.00 | Zone | Demand | 15.57 | RESIDENTIAL | 15.57 | 2,777.75 | 66.95 |
| J-126 | 2,620.50 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.75 | 68.03 |
| J-127 | 2,605.80 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.36 | 74.66 |
| J-128 | 2,619.00 | Zone | Demand | 1.93 | RESIDENTIAL | 1.93 | 2,777.45 | 68.55 |
| J-131 | 2,553.00 | Zone | Demand | 2.94 | COMMERCIAL | 2.94 | 2,777.89 | 97.30 |
| J-132 | 2,624.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.42 | 66.59 |
| J-133 | 2,564.00 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,778.63 | 92.86 |
| J-134 | 2,558.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,778.70 | 95.49 |
| J-135 | 2,557.50 | Zone | Demand | 29.31 | COMMERCIAL | 29.31 | 2,779.22 | 95.93 |
| J-136 | 2,626.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.72 | 65.43 |
| J-137 | 2,553.50 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,777.88 | 97.08 |
| J-138 | 2,638.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,777.78 | 60.48 |
| J-139 | 2,554.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,777.88 | 96.64 |
| J-140 | 2,554.50 | Zone | Demand | 0.15 | COMMERCIAL | 0.15 | 2,778.05 | 96.72 |
| J-141 | 2,554.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.05 | 96.94 |
| J-142 | 2,554.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,777.84 | 96.85 |
| J-143 | 2,610.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,777.84 | 72.62 |
| J-144 | 2,611.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.81 | 72.17 |
| J-145 | 2,566.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.21 | 91.38 |
| J-146 | 2,563.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.18 | 92.67 |
| J-147 | 2,615.00 | Zone | Demand | 7.84 | RESIDENTIAL | 7.84 | 2,777.28 | 70.21 |
| J-148 | 2,623.00 | Zone | Demand | 10.58 | RESIDENTIAL | 10.58 | 2,777.71 | 66.93 |
| J-149 | 2,621.00 | Zone | Demand | 29.20 | RESIDENTIAL | 29.20 | 2,777.69 | 67.79 |
| J-150 | 2,620.00 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,777.73 | 68.24 |
| J-151 | 2,624.50 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,777.72 | 66.29 |
| J-152 | 2,625.00 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,777.72 | 66.07 |
| J-153 | 2,626.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,777.72 | 65.64 |
| J-154 | 2,561.50 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,777.22 | 93.33 |
| J-155 | 2,556.50 | Zone | Demand | 16.54 | RESIDENTIAL | 16.54 | 2,777.22 | 95.49 |
| J-156 | 2,556.20 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.22 | 95.62 |
| J-157 | 2,559.50 | Zone | Demand | 3.02 | COMMERCIAL | 3.02 | 2,777.05 | 94.12 |
| J-158 | 2,562.00 | Zone | Demand | 25.09 | Composite | 25.09 | 2,777.03 | 93.03 |
| J-159 | 2,561.00 | Zone | Demand | 20.43 | RESIDENTIAL | 20.43 | 2,777.00 | 93.45 |

Title: INITIAL RUN

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Scenario: 2026 WELL 4 OFF
Fire Flow Analysis
Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-160 | 2,560.00 | Zone | Demand | 1.12 | Composite | 1.12 | 2,776.98 | 93.87 |
| J-161 | 2,565.00 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,777.01 | 91.73 |
| J-162 | 2,559.50 | Zone | Demand | 0.97 | RESIDENTIAL | 0.97 | 2,776.93 | 94.07 |
| J-163 | 2,558.50 | Zone | Demand | 7.05 | Composite | 7.05 | 2,776.93 | 94.50 |
| J-164 | 2,556.50 | Zone | Demand | 15.57 | RESIDENTIAL | 15.57 | 2,776.89 | 95.35 |
| J-165 | 2,557.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,776.89 | 94.92 |
| J-166 | 2,555.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,776.87 | 95.99 |
| J-167 | 2,554.00 | Zone | Demand | 6.69 | RESIDENTIAL | 6.69 | 2,776.87 | 96.43 |
| J-168 | 2,553.50 | Zone | Demand | 1.37 | Composite | 1.37 | 2,776.87 | 96.64 |
| J-169 | 2,553.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,776.87 | 96.64 |
| J-170 | 2,554.50 | Zone | Demand | 6.51 | Composite | 6.51 | 2,776.86 | 96.21 |
| J-171 | 2,556.50 | Zone | Demand | 17.33 | Composite | 17.33 | 2,776.85 | 95.34 |
| J-172 | 2,555.50 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,776.87 | 95.77 |
| J-173 | 2,556.50 | Zone | Demand | 2.24 | Composite | 2.24 | 2,776.87 | 95.34 |
| J-174 | 2,557.00 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,776.87 | 95.13 |
| J-175 | 2,557.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,776.87 | 95.13 |
| J-176 | 2,559.00 | Zone | Demand | 4.70 | IRRIGATION | 4.70 | 2,776.87 | 94.26 |
| J-177 | 2,559.50 | Zone | Demand | 39.54 | Composite | 39.54 | 2,776.88 | 94.05 |
| J-178 | 2,557.00 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,776.88 | 95.13 |
| J-179 | 2,559.50 | Zone | Demand | 64.70 | Composite | 64.70 | 2,777.00 | 94.10 |
| J-180 | 2,553.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.16 | 96.77 |
| J-181 | 2,549.00 | Zone | Demand | 7.77 | RESIDENTIAL | 7.77 | 2,777.16 | 98.71 |
| J-182 | 2,550.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,777.14 | 98.27 |
| J-183 | 2,548.00 | Zone | Demand | 10.69 | RESIDENTIAL | 10.69 | 2,777.15 | 99.14 |
| J-184 | 2,548.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,777.15 | 99.14 |
| J-185 | 2,549.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,777.13 | 98.70 |
| J-186 | 2,547.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,777.14 | 99.57 |
| J-187 | 2,546.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.15 | 99.79 |
| J-188 | 2,551.00 | Zone | Demand | 10.69 | RESIDENTIAL | 10.69 | 2,777.14 | 97.84 |
| J-189 | 2,553.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,777.14 | 96.97 |
| J-190 | 2,553.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,777.14 | 96.97 |
| J-191 | 2,552.00 | Zone | Demand | 3.88 | RESIDENTIAL | 3.88 | 2,777.13 | 97.40 |
| J-192 | 2,552.50 | Zone | Demand | 2.22 | Composite | 2.22 | 2,777.13 | 97.19 |
| J-193 | 2,551.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,777.13 | 97.62 |
| J-194 | 2,553.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,777.12 | 96.97 |
| J-195 | 2,555.00 | Zone | Demand | 66.47 | Composite | 66.47 | 2,777.07 | 96.08 |
| J-196 | 2,556.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,777.12 | 95.67 |
| J-197 | 2,551.50 | Zone | Demand | 46.51 | Composite | 46.51 | 2,776.87 | 97.51 |
| J-198 | 2,553.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.16 | 96.77 |
| J-199 | 2,549.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.16 | 98.50 |
| J-200 | 2,616.50 | Zone | Demand | 4.69 | Composite | 4.69 | 2,777.45 | 69.64 |
| J-201 | 2,617.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.45 | 69.42 |
| J-202 | 2,601.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.29 | 76.27 |
| J-203 | 2,600.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,777.24 | 76.68 |
| J-204 | 2,603.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,777.19 | 75.36 |
| J-205 | 2,603.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.19 | 75.15 |
| J-206 | 2,603.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,777.19 | 75.36 |
| J-207 | 2,603.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.19 | 75.15 |
| J-208 | 2,599.00 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,777.24 | 77.11 |
| J-209 | 2,577.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.64 | 86.81 |
| J-210 | 2,597.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.64 | 78.15 |
| J-211 | 2,597.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.64 | 77.94 |

Title: INITIAL RUN

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Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-212 | 2,591.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.64 | 80.53 |
| J-213 | 2,592.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.64 | 80.32 |
| J-214 | 2,587.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.64 | 82.48 |
| J-215 | 2,552.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,777.93 | 97.75 |
| J-216 | 2,553.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,777.92 | 97.31 |
| J-217 | 2,553.50 | Zone | Demand | 15.68 | RESIDENTIAL | 15.68 | 2,777.92 | 97.10 |
| J-218 | 2,554.00 | Zone | Demand | 1.74 | COMMERCIAL | 1.74 | 2,778.12 | 96.96 |
| J-219 | 2,554.50 | Zone | Demand | 24.87 | IRRIGATION | 24.87 | 2,778.24 | 96.80 |
| J-220 | 2,557.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.14 | 96.11 |
| J-221 | 2,563.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.82 | 93.81 |
| J-222 | 2,564.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.88 | 93.18 |
| J-223 | 2,564.50 | Zone | Demand | 0.49 | COMMERCIAL | 0.49 | 2,779.67 | 93.09 |
| J-224 | 2,561.50 | Zone | Demand | 1.81 | RESIDENTIAL | 1.81 | 2,779.45 | 94.30 |
| J-225 | 2,562.50 | Zone | Demand | 5.06 | COMMERCIAL | 5.06 | 2,779.29 | 93.79 |
| J-226 | 2,561.00 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,778.60 | 94.15 |
| J-227 | 2,565.00 | Zone | Demand | 17.51 | RESIDENTIAL | 17.51 | 2,776.82 | 91.65 |
| J-228 | 2,566.00 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,776.50 | 91.07 |
| J-229 | 2,568.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,776.40 | 90.16 |
| J-230 | 2,569.00 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,776.34 | 89.71 |
| J-231 | 2,558.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.29 | 94.23 |
| J-232 | 2,565.00 | Zone | Demand | 16.56 | Composite | 16.56 | 2,776.40 | 91.46 |
| J-233 | 2,565.00 | Zone | Demand | 7.69 | Composite | 7.69 | 2,776.37 | 91.45 |
| J-234 | 2,565.00 | Zone | Demand | 12.75 | COMMERCIAL | 12.75 | 2,777.19 | 91.81 |
| J-235 | 2,603.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,777.17 | 75.36 |
| J-236 | 2,613.00 | Zone | Demand | 114.24 | RESIDENTIAL | 114.24 | 2,776.94 | 70.93 |
| J-237 | 2,565.50 | Zone | Demand | 0.64 | IRRIGATION | 0.64 | 2,777.19 | 91.59 |
| J-238 | 2,568.50 | Zone | Demand | 0.91 | Composite | 0.91 | 2,777.20 | 90.29 |
| J-239 | 2,569.00 | Zone | Demand | 2.66 | RESIDENTIAL | 2.66 | 2,777.20 | 90.08 |
| J-240 | 2,569.50 | Zone | Demand | 26.03 | IRRIGATION | 26.03 | 2,777.20 | 89.86 |
| J-241 | 2,583.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.40 | 85.40 |
| J-242 | 2,570.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,776.76 | 89.46 |
| J-243 | 2,568.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,776.48 | 90.20 |
| J-244 | 2,566.50 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,776.28 | 90.76 |
| J-245 | 2,564.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,776.48 | 91.93 |
| J-246 | 2,569.00 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,776.47 | 89.76 |
| J-247 | 2,572.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,772.41 | 86.71 |
| J-248 | 2,571.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,776.36 | 88.85 |
| J-249 | 2,570.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,776.41 | 89.31 |
| J-250 | 2,571.00 | Zone | Demand | 3.21 | Composite | 3.21 | 2,776.29 | 88.82 |
| J-251 | 2,573.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,775.78 | 87.74 |
| J-252 | 2,570.00 | Zone | Demand | 1.29 | IRRIGATION | 1.29 | 2,776.35 | 89.28 |
| J-253 | 2,571.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.35 | 88.63 |
| J-254 | 2,573.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.09 | 87.65 |
| J-255 | 2,573.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.08 | 87.65 |
| J-256 | 2,577.00 | Zone | Demand | 0.25 | COMMERCIAL | 0.25 | 2,775.72 | 85.98 |
| J-257 | 2,628.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.82 | 64.82 |
| J-258 | 2,639.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.88 | 60.09 |
| J-259 | 2,638.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,777.87 | 60.52 |
| J-260 | 2,635.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.86 | 61.81 |
| J-261 | 2,633.00 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,777.86 | 62.67 |
| J-262 | 2,634.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,777.86 | 62.24 |
| J-263 | 2,625.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,777.86 | 66.14 |

Title: INITIAL RUN

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Haestad Methods Solution Center

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Project Engineer: DMC

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Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-264 | 2,634.00 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,777.86 | 62.24 |
| J-265 | 2,633.00 | Zone | Demand | 5.85 | RESIDENTIAL | 5.85 | 2,777.86 | 62.67 |
| J-266 | 2,635.00 | Zone | Demand | 16.54 | RESIDENTIAL | 16.54 | 2,777.86 | 61.81 |
| J-267 | 2,636.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,777.86 | 61.38 |
| J-268 | 2,632.00 | Zone | Demand | 14.59 | RESIDENTIAL | 14.59 | 2,777.87 | 63.11 |
| J-269 | 2,633.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,777.88 | 62.68 |
| J-270 | 2,630.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,777.87 | 63.98 |
| J-271 | 2,632.50 | Zone | Demand | 2.46 | Composite | 2.46 | 2,777.87 | 62.89 |
| J-272 | 2,638.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,777.86 | 60.51 |
| J-273 | 2,634.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,777.87 | 62.24 |
| J-274 | 2,634.50 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,777.86 | 62.03 |
| J-275 | 2,635.00 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,777.87 | 61.81 |
| J-276 | 2,635.70 | Zone | Demand | 14.59 | RESIDENTIAL | 14.59 | 2,777.87 | 61.51 |
| J-277 | 2,636.00 | Zone | Demand | 17.92 | RESIDENTIAL | 17.92 | 2,777.86 | 61.38 |
| J-278 | 2,641.00 | Zone | Demand | 19.47 | RESIDENTIAL | 19.47 | 2,777.89 | 59.22 |
| J-279 | 2,638.00 | Zone | Demand | 4.46 | Composite | 4.46 | 2,777.93 | 60.54 |
| J-280 | 2,639.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.99 | 60.14 |
| J-281 | 2,653.00 | Zone | Demand | 6.25 | Composite | 6.25 | 2,820.57 | 72.50 |
| J-282 | 2,644.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,820.57 | 76.39 |
| J-283 | 2,640.00 | Zone | Demand | 4.24 | Composite | 4.24 | 2,820.57 | 78.12 |
| J-284 | 2,638.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,820.57 | 78.99 |
| J-285 | 2,636.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,820.57 | 79.85 |
| J-286 | 2,635.00 | Zone | Demand | 5.60 | RESIDENTIAL | 5.60 | 2,820.57 | 80.29 |
| J-287 | 2,639.00 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,820.57 | 78.56 |
| J-288 | 2,637.00 | Zone | Demand | 15.57 | RESIDENTIAL | 15.57 | 2,820.48 | 79.38 |
| J-289 | 2,644.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,820.61 | 76.41 |
| J-290 | 2,647.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,820.61 | 75.11 |
| J-291 | 2,643.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,820.61 | 76.84 |
| J-292 | 2,654.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,820.61 | 72.08 |
| J-293 | 2,654.00 | Zone | Demand | 5.50 | Composite | 5.50 | 2,820.71 | 72.13 |
| J-294 | 2,667.00 | Zone | Demand | 8.03 | IRRIGATION | 8.03 | 2,822.56 | 67.30 |
| J-295 | 2,565.50 | Zone | Demand | 3.21 | COMMERCIAL | 3.21 | 2,777.19 | 91.59 |
| J-296 | 2,667.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,822.60 | 67.32 |
| J-297 | 2,667.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,822.60 | 67.32 |
| J-298 | 2,665.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,823.15 | 68.21 |
| J-299 | 2,670.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,823.25 | 66.30 |
| J-300 | 2,670.00 | Zone | Demand | 0.97 | RESIDENTIAL | 0.97 | 2,823.25 | 66.30 |
| J-301 | 2,664.00 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,823.62 | 69.06 |
| J-302 | 2,664.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,823.22 | 68.67 |
| J-303 | 2,667.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,823.96 | 67.91 |
| J-304 | 2,670.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,823.96 | 66.61 |
| J-305 | 2,667.00 | Zone | Demand | 14.59 | RESIDENTIAL | 14.59 | 2,824.38 | 68.09 |
| J-306 | 2,665.00 | Zone | Demand | 15.57 | RESIDENTIAL | 15.57 | 2,824.80 | 69.14 |
| J-307 | 2,664.00 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,825.52 | 69.88 |
| J-308 | 2,670.00 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,825.51 | 67.28 |
| J-309 | 2,660.00 | Zone | Demand | 16.54 | RESIDENTIAL | 16.54 | 2,826.34 | 71.97 |
| J-310 | 2,662.50 | Zone | Demand | 25.29 | RESIDENTIAL | 25.29 | 2,826.86 | 71.11 |
| J-311 | 2,665.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,823.16 | 68.21 |
| J-312 | 2,655.00 | Zone | Demand | 274.77 | Composite | 274.77 | 2,825.61 | 73.81 |
| J-313 | 2,652.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,826.15 | 75.35 |
| J-314 | 2,660.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,823.20 | 70.39 |
| J-315 | 2,645.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,828.28 | 79.30 |

Scenario: 2026 WELL 4 OFF
Fire Flow Analysis
Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-316 | 2,643.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,769.63 | 54.79 |
| J-317 | 2,631.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.66 | 63.45 |
| J-318 | 2,577.50 | Zone | Demand | 14.59 | RESIDENTIAL | 14.59 | 2,777.58 | 86.56 |
| J-319 | 2,566.00 | Zone | Demand | 34.72 | Composite | 34.72 | 2,777.21 | 91.38 |
| J-320 | 2,563.00 | Zone | Demand | 8.96 | RESIDENTIAL | 8.96 | 2,777.18 | 92.67 |
| J-321 | 2,647.50 | Zone | Demand | 18.48 | RESIDENTIAL | 18.48 | 2,827.86 | 78.04 |
| J-322 | 2,592.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,769.00 | 76.58 |
| J-323 | 2,572.50 | Zone | Demand | 12.32 | RESIDENTIAL | 12.32 | 2,772.17 | 86.39 |
| J-325 | 2,645.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,828.50 | 79.18 |
| J-326 | 2,565.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.58 | 91.32 |
| J-327 | 2,565.50 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,776.53 | 91.30 |
| J-328 | 2,565.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,776.53 | 91.52 |
| J-329 | 2,565.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,776.47 | 91.27 |
| J-330 | 2,565.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,776.46 | 91.49 |
| J-331 | 2,566.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.41 | 91.04 |
| J-332 | 2,568.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,775.66 | 89.63 |
| J-333 | 2,569.50 | Zone | Demand | 1.03 | Composite | 1.03 | 2,775.62 | 89.18 |
| J-334 | 2,571.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,775.63 | 88.32 |
| J-335 | 2,572.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,775.68 | 88.12 |
| J-336 | 2,571.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,775.50 | 88.48 |
| J-337 | 2,571.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,775.27 | 88.38 |
| J-338 | 2,572.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,775.52 | 88.05 |
| J-339 | 2,573.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,775.52 | 87.62 |
| J-340 | 2,572.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,775.78 | 88.17 |
| J-341 | 2,571.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,774.55 | 88.07 |
| J-342 | 2,572.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,774.55 | 87.63 |
| J-343 | 2,570.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,773.98 | 88.25 |
| J-344 | 2,573.50 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,772.79 | 86.22 |
| J-345 | 2,572.00 | Zone | Demand | 15.73 | Composite | 15.73 | 2,772.41 | 86.71 |
| J-346 | 2,632.00 | Zone | Demand | 6.43 | Composite | 6.43 | 2,820.39 | 81.51 |
| J-347 | 2,630.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,820.38 | 82.15 |
| J-348 | 2,630.00 | Zone | Demand | 17.92 | RESIDENTIAL | 17.92 | 2,820.38 | 82.37 |
| J-349 | 2,633.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,820.38 | 81.07 |
| J-350 | 2,638.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,820.47 | 78.95 |
| J-351 | 2,640.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,820.47 | 78.08 |
| J-352 | 2,640.50 | Zone | Demand | 17.92 | RESIDENTIAL | 17.92 | 2,820.47 | 77.86 |
| J-353 | 2,680.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,825.50 | 62.95 |
| J-354 | 2,695.00 | Zone | Demand | 12.66 | RESIDENTIAL | 12.66 | 2,825.49 | 56.46 |
| J-355 | 2,682.50 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,825.50 | 61.87 |
| J-356 | 2,678.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,825.50 | 63.60 |
| J-357 | 2,700.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,825.49 | 54.29 |
| J-358 | 2,699.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,822.56 | 53.46 |
| J-359 | 2,701.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,822.56 | 52.59 |
| J-360 | 2,717.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,822.56 | 45.67 |
| J-361 | 2,552.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.18 | 97.21 |
| J-364 | 2,554.00 | Zone | Demand | 5.81 | COMMERCIAL | 5.81 | 2,777.89 | 96.87 |
| J-365 | 2,554.00 | Zone | Demand | 0.96 | COMMERCIAL | 0.96 | 2,777.89 | 96.87 |
| J-366 | 2,554.00 | Zone | Demand | 3.02 | COMMERCIAL | 3.02 | 2,777.89 | 96.87 |
| J-367 | 2,550.00 | Zone | Demand | 9.87 | COMMERCIAL | 9.87 | 2,778.78 | 98.98 |
| J-368 | 2,580.00 | Zone | Demand | 7.16 | IRRIGATION | 7.16 | 2,780.13 | 86.59 |
| J-369 | 2,550.50 | Zone | Demand | 1.16 | COMMERCIAL | 1.16 | 2,778.05 | 98.45 |
| J-370 | 2,578.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.13 | 87.24 |

Title: INITIAL RUN

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-371 | 2,554.00 | Zone | Demand | 19.01 | COMMERCIAL | 19.01 | 2,778.05 | 96.93 |
| J-372 | 2,555.50 | Zone | Demand | 9.53 | IRRIGATION | 9.53 | 2,778.15 | 96.33 |
| J-373 | 2,556.00 | Zone | Demand | 2.20 | COMMERCIAL | 2.20 | 2,778.15 | 96.11 |
| J-374 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.15 | 96.11 |
| J-375 | 2,550.00 | Zone | Demand | 0.73 | COMMERCIAL | 0.73 | 2,778.19 | 98.73 |
| J-376 | 2,549.50 | Zone | Demand | 15.08 | COMMERCIAL | 15.08 | 2,778.19 | 98.94 |
| J-377 | 2,549.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.19 | 98.94 |
| J-378 | 2,550.00 | Zone | Demand | 12.40 | COMMERCIAL | 12.40 | 2,778.20 | 98.73 |
| J-379 | 2,549.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.27 | 98.98 |
| J-380 | 2,589.00 | Zone | Demand | 13.19 | COMMERCIAL | 13.19 | 2,778.14 | 81.83 |
| J-381 | 2,593.50 | Zone | Demand | 1.62 | COMMERCIAL | 1.62 | 2,778.14 | 79.88 |
| J-382 | 2,547.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.47 | 99.93 |
| J-383 | 2,548.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.53 | 99.52 |
| J-384 | 2,548.50 | Zone | Demand | 5.63 | COMMERCIAL | 5.63 | 2,778.53 | 99.52 |
| J-385 | 2,557.00 | Zone | Demand | 0.94 | COMMERCIAL | 0.94 | 2,779.76 | 96.38 |
| J-386 | 2,556.00 | Zone | Demand | 17.77 | COMMERCIAL | 17.77 | 2,778.70 | 96.35 |
| J-387 | 2,556.00 | Zone | Demand | 1.74 | Composite | 1.74 | 2,778.76 | 96.38 |
| J-388 | 2,559.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.55 | 95.42 |
| J-389 | 2,554.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.91 | 97.74 |
| J-390 | 2,553.50 | Zone | Demand | 10.30 | Composite | 10.30 | 2,779.91 | 97.96 |
| J-391 | 2,555.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.91 | 97.31 |
| J-392 | 2,554.00 | Zone | Demand | 7.77 | COMMERCIAL | 7.77 | 2,779.91 | 97.74 |
| J-393 | 2,552.50 | Zone | Demand | 10.08 | Composite | 10.08 | 2,779.91 | 98.39 |
| J-394 | 2,557.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.96 | 96.46 |
| J-395 | 2,558.00 | Zone | Demand | 1.07 | COMMERCIAL | 1.07 | 2,779.85 | 95.98 |
| J-396 | 2,560.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.61 | 95.01 |
| J-397 | 2,560.00 | Zone | Demand | 10.42 | Composite | 10.42 | 2,779.61 | 95.01 |
| J-398 | 2,552.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.24 | 98.75 |
| J-399 | 2,554.00 | Zone | Demand | 18.48 | RESIDENTIAL | 18.48 | 2,780.08 | 97.81 |
| J-400 | 2,556.50 | Zone | Demand | 13.43 | Composite | 13.43 | 2,779.98 | 96.69 |
| J-401 | 2,559.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.75 | 95.29 |
| J-402 | 2,555.50 | Zone | Demand | 2.47 | COMMERCIAL | 2.47 | 2,781.05 | 97.58 |
| J-403 | 2,555.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.79 | 97.69 |
| J-404 | 2,562.50 | Zone | Demand | 0.42 | COMMERCIAL | 0.42 | 2,782.00 | 94.97 |
| J-405 | 2,567.00 | Zone | Demand | 3.66 | COMMERCIAL | 3.66 | 2,782.33 | 93.16 |
| J-406 | 2,553.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.46 | 98.19 |
| J-407 | 2,563.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,783.32 | 95.32 |
| J-408 | 2,565.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.29 | 92.71 |
| J-409 | 2,558.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.76 | 95.95 |
| J-410 | 2,627.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,777.66 | 64.97 |
| J-411 | 2,621.00 | Zone | Demand | 7.65 | Composite | 7.65 | 2,777.66 | 67.78 |
| J-412 | 2,602.50 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,777.66 | 75.78 |
| J-413 | 2,599.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,777.66 | 77.30 |
| J-414 | 2,716.00 | Zone | Demand | 3.88 | RESIDENTIAL | 3.88 | 2,825.49 | 47.37 |
| J-415 | 2,718.00 | Zone | Demand | 8.75 | Composite | 8.75 | 2,825.49 | 46.51 |
| J-416 | 2,733.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,825.49 | 40.02 |
| J-417 | 2,722.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,825.49 | 44.78 |
| J-418 | 2,559.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,776.25 | 93.78 |
| J-419 | 2,560.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,776.26 | 93.35 |
| J-420 | 2,573.50 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,776.16 | 87.68 |
| J-421 | 2,574.50 | Zone | Demand | 15.57 | Composite | 15.57 | 2,776.08 | 87.21 |
| J-422 | 2,573.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.17 | 87.90 |

Title: INITIAL RUN

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-423 | 2,565.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,776.21 | 91.16 |
| J-424 | 2,566.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.21 | 90.95 |
| J-425 | 2,578.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.84 | 87.76 |
| J-426 | 2,578.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.84 | 87.76 |
| J-427 | 2,579.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.00 | 86.75 |
| J-428 | 2,579.50 | Zone | Demand | 0.58 | COMMERCIAL | 0.58 | 2,780.08 | 86.78 |
| J-429 | 2,576.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.13 | 88.32 |
| J-430 | 2,576.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.13 | 88.32 |
| J-431 | 2,576.50 | Zone | Demand | 0.00 | COMMERCIAL | 0.00 | 2,780.14 | 88.10 |
| J-432 | 2,576.50 | Zone | Demand | 0.00 | COMMERCIAL | 0.00 | 2,780.14 | 88.10 |
| J-433 | 2,572.50 | Zone | Demand | 0.00 | COMMERCIAL | 0.00 | 2,780.15 | 89.84 |
| J-434 | 2,572.50 | Zone | Demand | 0.00 | Composite | 0.00 | 2,780.15 | 89.84 |
| J-435 | 2,578.50 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,780.15 | 87.25 |
| J-436 | 2,579.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,780.15 | 87.03 |
| J-437 | 2,578.50 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,780.15 | 87.24 |
| J-438 | 2,579.50 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,780.15 | 86.81 |
| J-439 | 2,580.50 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,780.15 | 86.38 |
| J-440 | 2,580.00 | Zone | Demand | 0.82 | Composite | 0.82 | 2,780.15 | 86.60 |
| J-441 | 2,554.00 | Zone | Demand | 11.15 | IRRIGATION | 11.15 | 2,778.01 | 96.92 |
| J-442 | 2,592.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.18 | 80.34 |
| J-443 | 2,556.00 | Zone | Demand | 7.55 | RESIDENTIAL | 7.55 | 2,778.76 | 96.38 |
| J-444 | 2,554.00 | Zone | Demand | 0.72 | COMMERCIAL | 0.72 | 2,778.83 | 97.27 |
| J-445 | 2,554.00 | Zone | Demand | 0.11 | IRRIGATION | 0.11 | 2,778.81 | 97.26 |
| J-446 | 2,555.00 | Zone | Demand | 8.72 | IRRIGATION | 8.72 | 2,778.90 | 96.87 |
| J-447 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.95 | 96.46 |
| J-448 | 2,555.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.95 | 96.89 |
| J-449 | 2,554.50 | Zone | Demand | 1.25 | COMMERCIAL | 1.25 | 2,778.95 | 97.11 |
| J-450 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.97 | 96.47 |
| J-451 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.04 | 96.50 |
| J-452 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.07 | 96.51 |
| J-453 | 2,556.50 | Zone | Demand | 0.12 | COMMERCIAL | 0.12 | 2,779.11 | 96.31 |
| J-454 | 2,557.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.14 | 96.11 |
| J-455 | 2,557.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.17 | 96.12 |
| J-456 | 2,558.00 | Zone | Demand | 1.84 | IRRIGATION | 1.84 | 2,779.21 | 95.71 |
| J-457 | 2,558.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.28 | 95.52 |
| J-458 | 2,558.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.21 | 95.71 |
| J-459 | 2,557.00 | Zone | Demand | 0.24 | COMMERCIAL | 0.24 | 2,779.09 | 96.09 |
| J-460 | 2,556.50 | Zone | Demand | 0.01 | COMMERCIAL | 0.01 | 2,779.03 | 96.28 |
| J-461 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.97 | 96.47 |
| J-462 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.03 | 96.49 |
| J-463 | 2,557.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.03 | 96.06 |
| J-464 | 2,557.00 | Zone | Demand | 0.55 | IRRIGATION | 0.55 | 2,779.03 | 96.06 |
| J-465 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.97 | 96.47 |
| J-466 | 2,557.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.03 | 95.85 |
| J-467 | 2,558.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.03 | 95.41 |
| J-468 | 2,558.00 | Zone | Demand | 0.03 | COMMERCIAL | 0.03 | 2,779.03 | 95.63 |
| J-469 | 2,557.50 | Zone | Demand | 0.07 | COMMERCIAL | 0.07 | 2,779.03 | 95.85 |
| J-470 | 2,558.00 | Zone | Demand | 0.01 | COMMERCIAL | 0.01 | 2,779.03 | 95.63 |
| J-471 | 2,554.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.58 | 97.82 |
| J-472 | 2,554.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.58 | 97.82 |
| J-473 | 2,555.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.71 | 97.44 |
| J-474 | 2,559.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.21 | 95.06 |

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-475 | 2,558.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.30 | 95.75 |
| J-476 | 2,553.00 | Zone | Demand | 0.03 | COMMERCIAL | 0.03 | 2,778.95 | 97.76 |
| J-477 | 2,553.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.38 | 97.94 |
| J-478 | 2,555.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.71 | 97.44 |
| J-479 | 2,553.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.38 | 97.73 |
| J-480 | 2,553.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.38 | 97.73 |
| J-481 | 2,555.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.38 | 96.86 |
| J-482 | 2,552.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.38 | 98.16 |
| J-483 | 2,554.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.38 | 97.51 |
| J-484 | 2,554.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.38 | 97.51 |
| J-485 | 2,554.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.38 | 97.51 |
| J-486 | 2,554.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.38 | 97.51 |
| J-487 | 2,552.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.38 | 98.16 |
| J-488 | 2,552.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.38 | 98.16 |
| J-489 | 2,561.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,776.27 | 93.14 |
| J-490 | 2,565.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,776.19 | 91.15 |
| J-491 | 2,565.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,776.19 | 91.15 |
| J-492 | 2,569.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,776.14 | 89.62 |
| J-493 | 2,570.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,776.14 | 89.19 |
| J-494 | 2,575.50 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,776.08 | 86.78 |
| J-495 | 2,639.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,820.35 | 78.24 |
| J-496 | 2,628.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,820.32 | 82.99 |
| J-497 | 2,628.50 | Zone | Demand | 56.00 | RESIDENTIAL | 56.00 | 2,820.32 | 82.99 |
| J-498 | 2,628.00 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,820.32 | 83.21 |
| J-499 | 2,628.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,820.32 | 83.21 |
| J-500 | 2,625.50 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,820.32 | 84.29 |
| J-501 | 2,613.50 | Zone | Demand | 11.55 | RESIDENTIAL | 11.55 | 2,820.31 | 89.48 |
| J-502 | 2,612.50 | Zone | Demand | 15.58 | IRRIGATION | 15.58 | 2,820.31 | 89.91 |
| J-503 | 2,616.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,820.31 | 88.18 |
| J-504 | 2,587.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.80 | 82.33 |
| J-505 | 2,587.50 | Zone | Demand | 0.01 | COMMERCIAL | 0.01 | 2,777.80 | 82.33 |
| J-506 | 2,584.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.74 | 83.82 |
| J-507 | 2,618.00 | Zone | Demand | 6.83 | RESIDENTIAL | 6.83 | 2,777.71 | 69.10 |
| J-508 | 2,592.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,777.71 | 80.35 |
| J-509 | 2,588.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,777.71 | 82.08 |
| J-510 | 2,594.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,777.71 | 79.48 |
| J-511 | 2,594.50 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,777.70 | 79.26 |
| J-512 | 2,595.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,777.70 | 79.05 |
| J-513 | 2,612.00 | Zone | Demand | 7.79 | RESIDENTIAL | 7.79 | 2,777.71 | 71.70 |
| J-514 | 2,601.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,777.68 | 76.23 |
| J-515 | 2,593.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,777.66 | 79.68 |
| J-516 | 2,612.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,777.71 | 71.70 |
| J-517 | 2,589.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,777.66 | 81.62 |
| J-518 | 2,603.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.68 | 75.58 |
| J-519 | 2,604.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,777.68 | 75.14 |
| J-520 | 2,604.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,777.68 | 74.93 |
| J-521 | 2,616.50 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.71 | 69.75 |
| J-522 | 2,575.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,772.60 | 85.49 |
| J-523 | 2,578.00 | Zone | Demand | 2.25 | Composite | 2.25 | 2,772.60 | 84.19 |
| J-524 | 2,574.00 | Zone | Demand | 16.61 | IRRIGATION | 16.61 | 2,772.47 | 85.87 |
| J-525 | 2,559.50 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,776.27 | 93.79 |
| J-527 | 2,572.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.17 | 88.34 |

Title: INITIAL RUN

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+1-203-755-1666

Project Engineer: DMC

WaterCAD v7.0 [07.00,049.00]

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Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-528 | 2,590.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.78 | 81.24 |
| J-529 | 2,546.00 | Zone | Demand | 12.63 | RESIDENTIAL | 12.63 | 2,777.10 | 99.99 |
| J-530 | 2,552.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.16 | 97.42 |
| J-531 | 2,579.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,777.58 | 85.92 |
| J-532 | 2,572.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,777.46 | 88.68 |
| J-533 | 2,572.00 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,777.46 | 88.89 |
| J-534 | 2,572.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,777.32 | 88.61 |
| J-535 | 2,572.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.32 | 88.83 |
| J-536 | 2,571.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,777.26 | 89.24 |
| J-537 | 2,569.50 | Zone | Demand | 56.00 | RESIDENTIAL | 56.00 | 2,777.12 | 89.83 |
| J-538 | 2,571.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.36 | 89.28 |
| J-539 | 2,572.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.36 | 88.85 |
| J-540 | 2,571.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,777.48 | 89.12 |
| J-541 | 2,572.50 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,777.48 | 88.69 |
| J-542 | 2,572.50 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,777.59 | 88.73 |
| J-543 | 2,553.00 | Zone | Demand | 6.29 | Composite | 6.29 | 2,778.00 | 97.35 |
| J-544 | 2,554.00 | Zone | Demand | 9.30 | Composite | 9.30 | 2,778.03 | 96.93 |
| J-546 | 2,555.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,778.01 | 96.49 |
| J-547 | 2,558.00 | Zone | Demand | 13.13 | Composite | 13.13 | 2,778.85 | 95.55 |
| J-548 | 2,559.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.88 | 95.13 |
| J-549 | 2,559.50 | Zone | Demand | 8.05 | IRRIGATION | 8.05 | 2,778.89 | 94.92 |
| J-550 | 2,559.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.91 | 94.93 |
| J-551 | 2,559.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.96 | 94.95 |
| J-552 | 2,559.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.05 | 94.99 |
| J-553 | 2,557.50 | Zone | Demand | 24.32 | RESIDENTIAL | 24.32 | 2,778.89 | 95.79 |
| J-554 | 2,557.50 | Zone | Demand | 19.46 | RESIDENTIAL | 19.46 | 2,778.91 | 95.79 |
| J-555 | 2,558.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,778.93 | 95.37 |
| J-556 | 2,559.00 | Zone | Demand | 15.09 | Composite | 15.09 | 2,778.93 | 95.15 |
| J-557 | 2,560.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.06 | 94.78 |
| J-558 | 2,561.50 | Zone | Demand | 19.10 | Composite | 19.10 | 2,779.05 | 94.13 |
| J-559 | 2,559.00 | Zone | Demand | 15.57 | RESIDENTIAL | 15.57 | 2,779.07 | 95.21 |
| J-560 | 2,558.50 | Zone | Demand | 12.26 | Composite | 12.26 | 2,779.07 | 95.43 |
| J-561 | 2,557.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,779.10 | 95.88 |
| J-562 | 2,558.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.18 | 95.70 |
| J-563 | 2,557.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.22 | 95.93 |
| J-564 | 2,557.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,779.22 | 95.93 |
| J-565 | 2,560.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,779.22 | 94.85 |
| J-566 | 2,558.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.33 | 95.54 |
| J-567 | 2,556.00 | Zone | Demand | 3.39 | COMMERCIAL | 3.39 | 2,779.56 | 96.73 |
| J-568 | 2,615.50 | Zone | Demand | 22.40 | RESIDENTIAL | 22.40 | 2,820.31 | 88.61 |
| J-569 | 2,595.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,820.31 | 97.48 |
| J-570 | 2,597.50 | Zone | Demand | 22.40 | RESIDENTIAL | 22.40 | 2,820.31 | 96.40 |
| J-571 | 2,659.00 | Zone | Demand | 22.38 | RESIDENTIAL | 22.38 | 2,823.15 | 71.02 |
| J-572 | 2,643.00 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,823.15 | 77.94 |
| J-573 | 2,643.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,823.15 | 77.73 |
| J-574 | 2,644.00 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,823.15 | 77.51 |
| J-575 | 2,643.50 | Zone | Demand | 7.79 | RESIDENTIAL | 7.79 | 2,823.16 | 77.73 |
| J-576 | 2,661.00 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,823.21 | 70.18 |
| J-577 | 2,649.00 | Zone | Demand | 16.54 | RESIDENTIAL | 16.54 | 2,823.18 | 75.36 |
| J-578 | 2,649.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,823.17 | 75.36 |
| J-579 | 2,642.00 | Zone | Demand | 14.59 | RESIDENTIAL | 14.59 | 2,823.17 | 78.39 |
| J-580 | 2,645.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,823.17 | 77.09 |

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-581 | 2,643.50 | Zone | Demand | 0.97 | RESIDENTIAL | 0.97 | 2,823.18 | 77.74 |
| J-582 | 2,643.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,823.18 | 77.74 |
| J-583 | 2,648.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,823.18 | 75.79 |
| J-584 | 2,654.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,823.19 | 72.98 |
| J-585 | 2,652.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,823.19 | 74.06 |
| J-586 | 2,650.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,823.19 | 74.71 |
| J-587 | 2,652.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,778.22 | 54.61 |
| J-588 | 2,583.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.40 | 84.97 |
| J-589 | 2,576.50 | Zone | Demand | 0.26 | COMMERCIAL | 0.26 | 2,779.42 | 87.79 |
| J-590 | 2,574.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.42 | 88.66 |
| J-591 | 2,579.50 | Zone | Demand | 0.36 | COMMERCIAL | 0.36 | 2,780.32 | 86.88 |
| J-592 | 2,578.00 | Zone | Demand | 0.55 | Composite | 0.55 | 2,780.32 | 87.53 |
| J-593 | 2,579.50 | Zone | Demand | 77.59 | IRRIGATION | 77.59 | 2,779.96 | 86.73 |
| J-594 | 2,578.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.01 | 87.19 |
| J-595 | 2,578.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.45 | 87.16 |
| J-596 | 2,578.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.36 | 87.12 |
| J-597 | 2,578.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.36 | 86.90 |
| J-598 | 2,577.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.03 | 87.19 |
| J-599 | 2,576.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.03 | 87.84 |
| J-600 | 2,576.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.03 | 87.84 |
| J-601 | 2,577.00 | Zone | Demand | 5.64 | COMMERCIAL | 5.64 | 2,779.03 | 87.41 |
| J-602 | 2,577.50 | Zone | Demand | 9.84 | COMMERCIAL | 9.84 | 2,779.03 | 87.19 |
| J-603 | 2,575.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.03 | 88.06 |
| J-604 | 2,577.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.03 | 87.41 |
| J-605 | 2,578.00 | Zone | Demand | 2.87 | COMMERCIAL | 2.87 | 2,778.29 | 86.66 |
| J-606 | 2,578.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.29 | 86.66 |
| J-607 | 2,572.00 | Zone | Demand | 2.01 | COMMERCIAL | 2.01 | 2,776.52 | 88.48 |
| J-608 | 2,575.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.52 | 86.97 |
| J-609 | 2,575.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.52 | 86.97 |
| J-610 | 2,577.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,775.98 | 86.09 |
| J-611 | 2,577.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,775.98 | 85.87 |
| J-612 | 2,577.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,775.91 | 85.84 |
| J-613 | 2,577.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,775.91 | 85.84 |
| J-614 | 2,577.50 | Zone | Demand | 21.28 | Composite | 21.28 | 2,775.86 | 85.82 |
| J-615 | 2,578.00 | Zone | Demand | 0.00 | COMMERCIAL | 0.00 | 2,775.86 | 85.61 |
| J-616 | 2,580.00 | Zone | Demand | 21.28 | Composite | 21.28 | 2,775.55 | 84.61 |
| J-617 | 2,562.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,784.90 | 96.44 |
| J-618 | 2,562.00 | Zone | Demand | 23.52 | Composite | 23.52 | 2,785.41 | 96.66 |
| J-619 | 2,562.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,785.41 | 96.66 |
| J-620 | 2,566.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,789.07 | 96.30 |
| J-621 | 2,566.00 | Zone | Demand | 0.11 | COMMERCIAL | 0.11 | 2,789.56 | 96.73 |
| J-622 | 2,566.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,789.56 | 96.51 |
| J-623 | 2,567.50 | Zone | Demand | 23.52 | Composite | 23.52 | 2,789.56 | 96.08 |
| J-624 | 2,567.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,790.72 | 96.79 |
| J-625 | 2,567.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,791.33 | 97.06 |
| J-628 | 2,569.00 | Zone | Demand | 23.52 | Composite | 23.52 | 2,791.29 | 96.17 |
| J-636 | 2,578.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.84 | 87.76 |
| J-637 | 2,558.50 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,776.82 | 94.45 |
| J-638 | 2,559.00 | Zone | Demand | 29.12 | RESIDENTIAL | 29.12 | 2,776.81 | 94.24 |
| J-639 | 2,556.00 | Zone | Demand | 34.46 | Composite | 34.46 | 2,776.79 | 95.53 |
| J-640 | 2,564.50 | Zone | Demand | 56.00 | RESIDENTIAL | 56.00 | 2,777.02 | 91.95 |
| J-650 | 2,610.00 | Zone | Demand | 22.38 | RESIDENTIAL | 22.38 | 2,777.66 | 72.54 |

Title: INITIAL RUN

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Haestad Methods Solution Center

Watertown, CT 06795 USA

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-651 | 2,553.50 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,777.92 | 97.10 |
| J-653 | 2,627.00 | Zone | Demand | 16.54 | RESIDENTIAL | 16.54 | 2,777.72 | 65.21 |
| J-654 | 2,682.00 | Zone | Demand | 21.40 | RESIDENTIAL | 21.40 | 2,825.49 | 62.08 |
| J-655 | 2,680.00 | Zone | Demand | 18.48 | RESIDENTIAL | 18.48 | 2,825.50 | 62.95 |
| J-656 | 2,693.00 | Zone | Demand | 23.68 | RESIDENTIAL | 23.68 | 2,825.49 | 57.32 |
| J-657 | 2,563.00 | Zone | Demand | 16.54 | RESIDENTIAL | 16.54 | 2,776.58 | 92.41 |
| J-658 | 2,598.00 | Zone | Demand | 0.30 | RESIDENTIAL | 0.30 | 2,777.49 | 77.66 |
| J-659 | 2,638.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,770.64 | 57.39 |
| J-660 | 2,640.00 | Zone | Demand | 0.62 | COMMERCIAL | 0.62 | 2,770.64 | 56.52 |
| J-661 | 2,641.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,770.64 | 56.09 |
| J-750 | 2,652.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,826.15 | 75.35 |
| J-751 | 2,571.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,773.98 | 87.82 |
| J-752 | 2,567.00 | Zone | Demand | 20.81 | COMMERCIAL | 20.81 | 2,777.19 | 90.94 |
| J-813 | 2,565.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,776.37 | 91.45 |
| J-814 | 2,560.50 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,776.27 | 93.35 |
| J-822 | 2,615.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,777.72 | 70.40 |
| J-823 | 2,636.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,777.79 | 61.34 |
| J-824 | 2,621.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,777.73 | 67.81 |
| J-825 | 2,609.00 | Zone | Demand | 12.32 | COMMERCIAL | 12.32 | 2,773.64 | 71.23 |
| J-826 | 2,579.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,780.01 | 86.97 |
| J-827 | 2,579.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,780.08 | 87.00 |
| J-828 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,780.26 | 84.48 |
| J-829 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,780.22 | 84.46 |
| J-830 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,780.18 | 84.45 |
| J-831 | 2,585.00 | Zone | Demand | 109.76 | Fixed | 109.76 | 2,780.17 | 84.44 |
| J-832 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,780.16 | 84.44 |
| J-833 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,780.16 | 84.44 |
| J-834 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,780.16 | 84.43 |
| J-835 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,780.16 | 84.44 |
| J-836 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,780.16 | 84.44 |
| J-837 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,780.16 | 84.44 |
| J-838 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,780.16 | 84.44 |
| J-840 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,780.23 | 84.47 |
| J-841 | 2,564.50 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,777.07 | 91.97 |
| J-842 | 2,552.50 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,776.87 | 97.07 |
| J-843 | 2,560.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,777.07 | 93.92 |
| J-844 | 2,663.30 | Zone | Demand | 0.68 | RESIDENTIAL | 0.68 | 2,821.89 | 68.61 |
| J-845 | 2,664.70 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,822.14 | 68.12 |
| J-846 | 2,665.90 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,822.37 | 67.70 |
| J-847 | 2,661.70 | Zone | Demand | 2.04 | RESIDENTIAL | 2.04 | 2,821.89 | 69.30 |
| J-848 | 2,664.70 | Zone | Demand | 1.37 | RESIDENTIAL | 1.37 | 2,822.14 | 68.12 |
| J-849 | 2,665.90 | Zone | Demand | 1.37 | RESIDENTIAL | 1.37 | 2,822.37 | 67.70 |
| J-850 | 2,567.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,791.50 | 97.13 |
| J-851 | 2,574.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,775.98 | 87.39 |
| J-852 | 2,574.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,775.98 | 87.39 |
| J-853 | 2,575.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,775.98 | 86.95 |
| J-901 | 2,591.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,778.59 | 81.16 |
| J-906 | 2,553.50 | Zone | Demand | 4.26 | COMMERCIAL | 4.26 | 2,777.21 | 96.79 |
| J-917 | 2,625.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,777.38 | 65.93 |
| J-981 | 2,640.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,767.31 | 55.08 |
| J-982 | 2,644.50 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,769.59 | 54.12 |

Title: INITIAL RUN

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Diameter (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|---------------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-1 | 370.00 | 8.0 | PVC | Open | | 186.65 | 1.19 | 2,777.50 | 2,777.23 | 0.72 | 0.27 |
| P-2 | 266.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,777.50 | 2,777.50 | 0.00 | 0.00 |
| P-3 | 365.00 | 8.0 | PVC | Open | | 197.40 | 1.26 | 2,777.79 | 2,777.50 | 0.80 | 0.29 |
| P-4 | 357.00 | 8.0 | PVC | Open | | 87.43 | 0.56 | 2,777.85 | 2,777.79 | 0.18 | 0.06 |
| P-5 | 369.00 | 8.0 | PVC | Open | | 26.76 | 0.17 | 2,777.86 | 2,777.85 | 0.02 | 0.01 |
| P-6 | 223.00 | 6.0 | PVC | Open | | 1.16 | 0.01 | 2,777.86 | 2,777.86 | 0.00 | 0.00 |
| P-7 | 358.00 | 8.0 | PVC | Open | | 27.92 | 0.18 | 2,777.87 | 2,777.86 | 0.02 | 0.01 |
| P-8 | 530.00 | 8.0 | PVC | Open | | -80.80 | 0.52 | 2,777.87 | 2,777.95 | 0.15 | 0.08 |
| P-9 | 320.00 | 8.0 | PVC | Open | | 10.08 | 0.06 | 2,778.15 | 2,778.15 | 0.00 | 0.00 |
| P-10 | 680.00 | 8.0 | PVC | Open | | 24.89 | 0.16 | 2,777.88 | 2,777.87 | 0.02 | 0.01 |
| P-11 | 314.00 | 8.0 | PVC | Open | | 26.20 | 0.17 | 2,777.87 | 2,777.87 | 0.02 | 0.01 |
| P-12 | 520.00 | 8.0 | PVC | Open | | 24.24 | 0.15 | 2,777.88 | 2,777.87 | 0.02 | 0.01 |
| P-13 | 660.00 | 8.0 | PVC | Open | | 50.97 | 0.33 | 2,777.93 | 2,777.88 | 0.07 | 0.04 |
| P-14 | 130.00 | 6.0 | PVC | Open | | 2.92 | 0.03 | 2,777.88 | 2,777.88 | 0.00 | 0.00 |
| P-15 | 770.00 | 6.0 | PVC | Open | | 7.28 | 0.08 | 2,777.88 | 2,777.87 | 0.01 | 0.01 |
| P-16 | 446.00 | 8.0 | PVC | Open | | 12.66 | 0.08 | 2,777.87 | 2,777.87 | 0.01 | 0.00 |
| P-17 | 380.00 | 8.0 | PVC | Open | | 17.06 | 0.11 | 2,777.88 | 2,777.87 | 0.01 | 0.00 |
| P-18 | 270.00 | 8.0 | PVC | Open | | -10.20 | 0.07 | 2,777.88 | 2,777.88 | 0.00 | 0.00 |
| P-19 | 440.00 | 8.0 | PVC | Open | | -66.70 | 0.43 | 2,777.89 | 2,777.93 | 0.11 | 0.05 |
| P-20 | 83.00 | 8.0 | PVC | Open | | 6.09 | 0.04 | 2,777.93 | 2,777.93 | 0.00 | 0.00 |
| P-21 | 72.00 | 8.0 | PVC | Open | | -129.55 | 0.83 | 2,778.02 | 2,778.05 | 0.37 | 0.03 |
| P-22 | 572.00 | 8.0 | PVC | Open | | -82.23 | 0.52 | 2,777.93 | 2,778.02 | 0.16 | 0.09 |
| P-23 | 195.00 | 6.0 | PVC | Open | | -20.88 | 0.24 | 2,777.87 | 2,777.88 | 0.06 | 0.01 |
| P-24 | 826.00 | 6.0 | PVC | Open | | -9.08 | 0.10 | 2,777.87 | 2,777.88 | 0.01 | 0.01 |
| P-25 | 368.00 | 8.0 | PVC | Open | | -86.67 | 0.55 | 2,777.88 | 2,777.94 | 0.18 | 0.06 |
| P-26 | 282.00 | 8.0 | PVC | Open | | -71.61 | 0.46 | 2,777.84 | 2,777.88 | 0.12 | 0.03 |
| P-27 | 228.00 | 8.0 | PVC | Open | | -56.04 | 0.36 | 2,777.83 | 2,777.84 | 0.08 | 0.02 |
| P-28 | 603.00 | 8.0 | PVC | Open | | -42.10 | 0.27 | 2,777.83 | 2,777.85 | 0.05 | 0.03 |
| P-29 | 340.00 | 6.0 | PVC | Open | | -17.31 | 0.20 | 2,777.85 | 2,777.87 | 0.04 | 0.01 |
| P-30 | 560.00 | 8.0 | PVC | Open | | 40.36 | 0.26 | 2,777.88 | 2,777.85 | 0.04 | 0.02 |
| P-31 | 249.00 | 8.0 | PVC | Open | | 13.67 | 0.09 | 2,777.88 | 2,777.88 | 0.01 | 0.00 |
| P-32 | 660.00 | 8.0 | PVC | Open | | 67.65 | 0.43 | 2,777.95 | 2,777.88 | 0.11 | 0.07 |
| P-33 | 400.00 | 6.0 | PVC | Open | | 4.57 | 0.05 | 2,777.95 | 2,777.95 | 0.00 | 0.00 |
| P-34 | 171.00 | 8.0 | PVC | Open | | 75.14 | 0.48 | 2,777.98 | 2,777.95 | 0.13 | 0.02 |
| P-35 | 375.00 | 8.0 | PVC | Open | | 130.81 | 0.83 | 2,778.12 | 2,777.98 | 0.37 | 0.14 |
| P-36 | 180.00 | 6.0 | PVC | Open | | 21.30 | 0.24 | 2,778.13 | 2,778.12 | 0.06 | 0.01 |
| P-37 | 318.00 | 6.0 | PVC | Open | | 11.67 | 0.13 | 2,778.13 | 2,778.12 | 0.02 | 0.01 |
| P-38 | 310.00 | 6.0 | PVC | Open | | 36.87 | 0.42 | 2,778.17 | 2,778.13 | 0.15 | 0.05 |
| P-39 | 238.00 | 6.0 | PVC | Open | | 10.65 | 0.12 | 2,778.18 | 2,778.17 | 0.02 | 0.00 |
| P-40 | 250.00 | 6.0 | Asbest | Open | | 38.52 | 0.44 | 2,778.21 | 2,778.18 | 0.15 | 0.04 |
| P-41 | 164.00 | 8.0 | PVC | Open | | 90.46 | 0.58 | 2,778.25 | 2,778.21 | 0.19 | 0.03 |
| P-42 | 64.00 | 8.0 | PVC | Open | | -33.02 | 0.21 | 2,777.88 | 2,777.88 | 0.03 | 0.00 |
| P-43 | 80.00 | 8.0 | PVC | Open | | 305.28 | 1.95 | 2,778.33 | 2,778.18 | 1.81 | 0.14 |
| P-44 | 479.00 | 8.0 | PVC | Open | | 171.21 | 1.09 | 2,778.16 | 2,777.87 | 0.61 | 0.29 |
| P-45 | 70.00 | 8.0 | PVC | Open | | 241.06 | 1.54 | 2,778.33 | 2,778.25 | 1.16 | 0.08 |
| P-46 | 61.00 | 8.0 | PVC | Open | | -238.63 | 1.52 | 2,778.18 | 2,778.24 | 1.14 | 0.07 |
| P-47 | 451.00 | 8.0 | PVC | Open | | 146.70 | 0.94 | 2,778.25 | 2,778.04 | 0.46 | 0.21 |
| P-48 | 172.00 | 8.0 | PVC | Open | | 220.69 | 1.41 | 2,778.04 | 2,777.87 | 0.98 | 0.17 |
| P-49 | 149.00 | 6.0 | PVC | Open | | -77.88 | 0.88 | 2,778.04 | 2,778.13 | 0.59 | 0.09 |
| P-50 | 390.00 | 6.0 | Asbest | Open | | 48.05 | 0.55 | 2,778.21 | 2,778.13 | 0.22 | 0.09 |
| P-51 | 250.00 | 6.0 | Asbest | Open | | -32.75 | 0.37 | 2,778.13 | 2,778.16 | 0.11 | 0.03 |

Title: INITIAL RUN

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Project Engineer: DMC

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Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Diameter (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|---------------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-52 | 390.00 | 6.0 | Asbest | Open | | 21.06 | 0.24 | 2,778.18 | 2,778.16 | 0.05 | 0.02 |
| P-53 | 261.00 | 6.0 | Asbest | Open | | 17.51 | 0.20 | 2,778.16 | 2,778.15 | 0.04 | 0.01 |
| P-54 | 211.00 | 6.0 | Asbest | Open | | 3.89 | 0.04 | 2,778.15 | 2,778.15 | 0.00 | 0.00 |
| P-55 | 330.00 | 6.0 | Asbest | Open | | 8.76 | 0.10 | 2,778.15 | 2,778.14 | 0.01 | 0.00 |
| P-56 | 352.00 | 6.0 | PVC | Open | | -36.98 | 0.42 | 2,778.16 | 2,778.21 | 0.15 | 0.05 |
| P-57 | 330.00 | 6.0 | PVC | Open | | 31.08 | 0.35 | 2,778.21 | 2,778.17 | 0.11 | 0.04 |
| P-58 | 220.00 | 6.0 | PVC | Open | | 76.81 | 0.87 | 2,778.34 | 2,778.21 | 0.57 | 0.13 |
| P-59 | 444.00 | 6.0 | PVC | Open | | 9.73 | 0.11 | 2,778.34 | 2,778.33 | 0.01 | 0.01 |
| P-60 | 31.00 | 6.0 | PVC | Open | | 91.41 | 1.04 | 2,778.36 | 2,778.34 | 0.80 | 0.02 |
| P-61 | 83.00 | 6.0 | PVC | Open | | 200.69 | 2.28 | 2,778.65 | 2,778.36 | 3.46 | 0.29 |
| P-63 | 87.00 | 6.0 | Ductile | Open | | 435.36 | 4.94 | 2,612.55 | 2,611.00 | 17.79 | 1.55 |
| P-64 | 15.00 | 6.0 | PVC | Open | | 200.69 | 2.28 | 2,778.70 | 2,778.65 | 3.47 | 0.05 |
| P-65 | 251.00 | 8.0 | PVC | Open | | 288.52 | 1.84 | 2,778.70 | 2,778.29 | 1.62 | 0.41 |
| P-66 | 334.00 | 6.0 | PVC | Open | | 109.28 | 1.24 | 2,778.36 | 2,777.99 | 1.10 | 0.37 |
| P-67 | 129.00 | 8.0 | PVC | Open | | -202.26 | 1.29 | 2,777.88 | 2,777.99 | 0.83 | 0.11 |
| P-68 | 556.00 | 8.0 | PVC | Open | | -108.69 | 0.69 | 2,777.74 | 2,777.88 | 0.26 | 0.15 |
| P-69 | 387.00 | 8.0 | PVC | Open | | -77.03 | 0.49 | 2,777.78 | 2,777.84 | 0.14 | 0.05 |
| P-71 | 131.00 | 8.0 | PVC | Open | | -27.56 | 0.18 | 2,777.71 | 2,777.72 | 0.02 | 0.00 |
| P-72 | 150.00 | 8.0 | PVC | Open | | 39.86 | 0.25 | 2,777.78 | 2,777.78 | 0.04 | 0.01 |
| P-73 | 326.00 | 6.0 | PVC | Open | | -41.84 | 0.47 | 2,777.78 | 2,777.84 | 0.19 | 0.06 |
| P-74 | 570.00 | 6.0 | PVC | Open | | 60.71 | 0.69 | 2,778.05 | 2,777.84 | 0.37 | 0.21 |
| P-75 | 280.00 | 8.0 | PVC | Open | | -97.84 | 0.62 | 2,777.99 | 2,778.05 | 0.22 | 0.06 |
| P-76 | 402.00 | 8.0 | PVC | Open | | -169.28 | 1.08 | 2,778.05 | 2,778.29 | 0.60 | 0.24 |
| P-77 | 150.00 | 6.0 | PVC | Open | | 113.40 | 1.29 | 2,778.29 | 2,778.12 | 1.18 | 0.18 |
| P-78 | 700.00 | 6.0 | PVC | Open | | -43.03 | 0.49 | 2,777.84 | 2,777.98 | 0.20 | 0.14 |
| P-79 | 325.00 | 6.0 | PVC | Open | | 8.14 | 0.09 | 2,777.84 | 2,777.84 | 0.01 | 0.00 |
| P-80 | 360.00 | 6.0 | PVC | Open | | 37.55 | 0.43 | 2,777.84 | 2,777.78 | 0.16 | 0.06 |
| P-81 | 158.00 | 4.0 | PVC | Open | | 4.86 | 0.12 | 2,777.78 | 2,777.78 | 0.03 | 0.00 |
| P-82 | 985.00 | 6.0 | PVC | Open | | -17.12 | 0.19 | 2,777.74 | 2,777.78 | 0.04 | 0.04 |
| P-83 | 930.00 | 8.0 | PVC | Open | | -18.20 | 0.12 | 2,777.74 | 2,777.75 | 0.01 | 0.01 |
| P-84 | 550.00 | 6.0 | PVC | Open | | 8.76 | 0.10 | 2,777.75 | 2,777.75 | 0.01 | 0.01 |
| P-85 | 410.00 | 8.0 | PVC | Open | | -88.42 | 0.56 | 2,777.75 | 2,777.83 | 0.18 | 0.07 |
| P-86 | 660.00 | 6.0 | PVC | Open | | -38.11 | 0.43 | 2,777.65 | 2,777.75 | 0.16 | 0.11 |
| P-87 | 130.00 | 4.0 | PVC | Open | | 4.86 | 0.12 | 2,777.65 | 2,777.64 | 0.03 | 0.00 |
| P-88 | 314.00 | 4.0 | PVC | Open | | 9.73 | 0.25 | 2,777.65 | 2,777.61 | 0.10 | 0.03 |
| P-89 | 1,283.00 | 6.0 | PVC | Open | | -4.06 | 0.05 | 2,777.64 | 2,777.65 | 0.00 | 0.00 |
| P-90 | 910.00 | 6.0 | PVC | Open | | -21.40 | 0.24 | 2,777.64 | 2,777.70 | 0.06 | 0.05 |
| P-91 | 383.00 | 8.0 | PVC | Open | | -70.32 | 0.45 | 2,777.70 | 2,777.74 | 0.12 | 0.05 |
| P-92 | 300.00 | 8.0 | PVC | Open | | -70.99 | 0.45 | 2,777.74 | 2,777.78 | 0.12 | 0.04 |
| P-93 | 292.00 | 8.0 | PVC | Open | | -6.14 | 0.04 | 2,777.74 | 2,777.74 | 0.00 | 0.00 |
| P-94 | 372.00 | 8.0 | PVC | Open | | -42.11 | 0.27 | 2,777.68 | 2,777.70 | 0.05 | 0.02 |
| P-95 | 150.00 | 2.0 | PVC | Open | | 4.86 | 0.50 | 2,777.68 | 2,777.55 | 0.85 | 0.13 |
| P-96 | 340.00 | 8.0 | PVC | Open | | -33.36 | 0.21 | 2,777.67 | 2,777.68 | 0.03 | 0.01 |
| P-97 | 125.00 | 8.0 | PVC | Open | | -17.51 | 0.11 | 2,777.67 | 2,777.67 | 0.01 | 0.00 |
| P-98 | 158.00 | 2.0 | PVC | Open | | 4.86 | 0.50 | 2,777.67 | 2,777.53 | 0.85 | 0.13 |
| P-99 | 360.00 | 8.0 | PVC | Open | | -9.72 | 0.06 | 2,777.66 | 2,777.67 | 0.00 | 0.00 |
| P-100 | 809.00 | 6.0 | PVC | Open | | -5.15 | 0.06 | 2,777.66 | 2,777.67 | 0.00 | 0.00 |
| P-101 | 95.00 | 4.0 | PVC | Open | | 2.92 | 0.07 | 2,777.71 | 2,777.71 | 0.01 | 0.00 |
| P-102 | 620.00 | 8.0 | PVC | Open | | -3.20 | 0.02 | 2,777.66 | 2,777.66 | 0.00 | 0.00 |
| P-103 | 150.00 | 6.0 | PVC | Open | | -10.93 | 0.12 | 2,777.69 | 2,777.69 | 0.02 | 0.00 |
| P-104 | 980.00 | 6.0 | PVC | Open | | -5.59 | 0.06 | 2,777.69 | 2,777.69 | 0.00 | 0.00 |

Title: INITIAL RUN

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Project Engineer: DMC

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Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Diameter (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|---------------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-105 | 280.00 | 4.0 | PVC | Open | | 4.34 | 0.11 | 2,777.69 | 2,777.68 | 0.02 | 0.01 |
| P-106 | 50.00 | 6.0 | PVC | Open | | -18.68 | 0.21 | 2,777.69 | 2,777.69 | 0.05 | 0.00 |
| P-107 | 233.00 | 4.0 | PVC | Open | | -5.40 | 0.14 | 2,777.68 | 2,777.69 | 0.04 | 0.01 |
| P-108 | 110.00 | 4.0 | PVC | Open | | 6.82 | 0.17 | 2,777.68 | 2,777.68 | 0.06 | 0.01 |
| P-109 | 207.00 | 6.0 | PVC | Open | | -26.99 | 0.31 | 2,777.69 | 2,777.71 | 0.09 | 0.02 |
| P-110 | 300.00 | 6.0 | PVC | Open | | 45.91 | 0.52 | 2,777.71 | 2,777.64 | 0.22 | 0.07 |
| P-111 | 470.00 | 6.0 | PVC | Open | | 63.59 | 0.72 | 2,777.64 | 2,777.45 | 0.41 | 0.19 |
| P-112 | 120.00 | 2.0 | PVC | Open | | 3.89 | 0.40 | 2,777.45 | 2,777.38 | 0.57 | 0.07 |
| P-113 | 124.00 | 6.0 | PVC | Open | | 57.76 | 0.66 | 2,777.45 | 2,777.41 | 0.34 | 0.04 |
| P-114 | 145.00 | 6.0 | PVC | Open | | 33.41 | 0.38 | 2,777.41 | 2,777.39 | 0.13 | 0.02 |
| P-115 | 430.00 | 6.0 | PVC | Open | | 14.59 | 0.17 | 2,777.39 | 2,777.38 | 0.03 | 0.01 |
| P-116 | 316.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,777.38 | 2,777.38 | 0.00 | 0.00 |
| P-117 | 250.00 | 6.0 | PVC | Open | | -14.92 | 0.17 | 2,777.38 | 2,777.39 | 0.03 | 0.01 |
| P-118 | 190.00 | 4.0 | PVC | Open | | 2.91 | 0.07 | 2,777.38 | 2,777.38 | 0.01 | 0.00 |
| P-119 | 240.00 | 6.0 | PVC | Open | | -9.09 | 0.10 | 2,777.38 | 2,777.38 | 0.01 | 0.00 |
| P-120 | 621.00 | 6.0 | PVC | Open | | -2.26 | 0.03 | 2,777.38 | 2,777.38 | 0.00 | 0.00 |
| P-121 | 100.00 | 4.0 | PVC | Open | | 3.89 | 0.10 | 2,777.38 | 2,777.38 | 0.01 | 0.00 |
| P-122 | 280.00 | 6.0 | PVC | Open | | -10.73 | 0.12 | 2,777.38 | 2,777.39 | 0.02 | 0.00 |
| P-123 | 140.00 | 6.0 | PVC | Open | | 3.89 | 0.04 | 2,777.39 | 2,777.39 | 0.00 | 0.00 |
| P-124 | 530.00 | 6.0 | PVC | Open | | 18.51 | 0.21 | 2,777.41 | 2,777.39 | 0.04 | 0.02 |
| P-125 | 270.00 | 6.0 | PVC | Open | | -7.45 | 0.08 | 2,777.38 | 2,777.38 | 0.01 | 0.00 |
| P-126 | 78.00 | 6.0 | PVC | Open | | 13.62 | 0.15 | 2,777.38 | 2,777.38 | 0.03 | 0.00 |
| P-127 | 610.00 | 4.0 | PVC | Open | | 10.70 | 0.27 | 2,777.38 | 2,777.30 | 0.12 | 0.07 |
| P-128 | 430.00 | 8.0 | PVC | Open | | 6.17 | 0.04 | 2,777.38 | 2,777.38 | 0.00 | 0.00 |
| P-129 | 250.00 | 8.0 | PVC | Open | | -5.36 | 0.03 | 2,777.38 | 2,777.38 | 0.00 | 0.00 |
| P-130 | 480.00 | 6.0 | PVC | Open | | 10.70 | 0.12 | 2,777.38 | 2,777.37 | 0.02 | 0.01 |
| P-131 | 100.00 | 6.0 | PVC | Open | | 2.92 | 0.03 | 2,777.37 | 2,777.37 | 0.00 | 0.00 |
| P-132 | 80.00 | 6.0 | PVC | Open | | 2.92 | 0.03 | 2,777.37 | 2,777.37 | 0.00 | 0.00 |
| P-133 | 165.00 | 8.0 | PVC | Open | | 13.13 | 0.08 | 2,777.38 | 2,777.38 | 0.01 | 0.00 |
| P-134 | 270.00 | 6.0 | PVC | Open | | 5.84 | 0.07 | 2,777.38 | 2,777.38 | 0.00 | 0.00 |
| P-135 | 243.00 | 8.0 | PVC | Open | | 26.75 | 0.17 | 2,777.38 | 2,777.38 | 0.02 | 0.01 |
| P-136 | 600.00 | 8.0 | PVC | Open | | 85.99 | 0.55 | 2,777.38 | 2,777.28 | 0.17 | 0.10 |
| P-137 | 1,300.00 | 8.0 | PVC | Open | | 118.57 | 0.76 | 2,777.79 | 2,777.38 | 0.31 | 0.40 |
| P-138 | 194.00 | 8.0 | PVC | Open | | -191.19 | 1.22 | 2,777.79 | 2,777.93 | 0.75 | 0.15 |
| P-139 | 1,200.00 | 4.0 | PVC | Open | | 22.85 | 0.58 | 2,777.93 | 2,777.38 | 0.46 | 0.55 |
| P-140 | 400.00 | 8.0 | PVC | Open | | -214.05 | 1.37 | 2,777.93 | 2,778.30 | 0.93 | 0.37 |
| P-141 | 67.00 | 8.0 | PVC | Open | | -298.45 | 1.90 | 2,778.30 | 2,778.42 | 1.73 | 0.12 |
| P-142 | 940.00 | 6.0 | PVC | Open | | 80.69 | 0.92 | 2,778.30 | 2,777.71 | 0.63 | 0.59 |
| P-143 | 95.00 | 8.0 | PVC | Open | | -66.78 | 0.43 | 2,777.78 | 2,777.79 | 0.11 | 0.01 |
| P-144 | 700.00 | 8.0 | PVC | Open | | -28.84 | 0.18 | 2,777.76 | 2,777.78 | 0.02 | 0.02 |
| P-145 | 260.00 | 8.0 | PVC | Open | | 50.25 | 0.32 | 2,777.73 | 2,777.72 | 0.06 | 0.02 |
| P-146 | 420.00 | 8.0 | PVC | Open | | 55.08 | 0.35 | 2,777.79 | 2,777.76 | 0.08 | 0.03 |
| P-147 | 656.00 | 8.0 | PVC | Open | | 32.10 | 0.20 | 2,777.78 | 2,777.76 | 0.03 | 0.02 |
| P-148 | 548.00 | 6.0 | PVC | Open | | 11.11 | 0.13 | 2,777.76 | 2,777.75 | 0.02 | 0.01 |
| P-149 | 1,112.00 | 6.0 | PVC | Open | | 7.38 | 0.08 | 2,777.76 | 2,777.75 | 0.01 | 0.01 |
| P-150 | 867.00 | 12.0 | PVC | Open | | 930.64 | 2.64 | 2,772.17 | 2,770.47 | 1.95 | 1.69 |
| P-151 | 601.00 | 6.0 | PVC | Open | | 2.92 | 0.03 | 2,777.75 | 2,777.75 | 0.00 | 0.00 |
| P-152 | 570.00 | 8.0 | PVC | Open | | 40.10 | 0.26 | 2,777.69 | 2,777.66 | 0.04 | 0.02 |
| P-154 | 5.00 | 6.0 | Ductile | Open | | 135.45 | 1.54 | 2,611.00 | 2,610.99 | 1.86 | 0.01 |
| P-155 | 5.00 | 6.0 | Ductile | Open | | 353.76 | 4.01 | 2,611.00 | 2,610.94 | 11.87 | 0.06 |
| P-156 | 5.00 | 6.0 | Ductile | Open | | -0.00 | 0.00 | 2,611.00 | 2,611.00 | 0.00 | 0.00 |

Title: INITIAL RUN

c:\...2026 scenario well 4 off.wcd

01/18/07 11:18:59 AM Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA

Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Diameter (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|---------------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-157 | 20.00 | 6.0 | Ductile | Open | | 135.45 | 1.54 | 2,778.74 | 2,778.70 | 1.84 | 0.04 |
| P-158 | 15.00 | 6.0 | Ductile | Open | | 353.76 | 4.01 | 2,778.88 | 2,778.70 | 11.85 | 0.18 |
| P-159 | 10.00 | 6.0 | Ductile | Open | | -0.00 | 0.00 | 2,778.70 | 2,778.70 | 0.00 | 0.00 |
| P-160 | 170.00 | 8.0 | PVC | Open | | -80.45 | 0.51 | 2,778.61 | 2,778.63 | 0.15 | 0.03 |
| P-161 | 575.00 | 8.0 | PVC | Open | | -68.05 | 0.43 | 2,778.63 | 2,778.70 | 0.11 | 0.06 |
| P-162 | 797.00 | 6.0 | PVC | Open | | -26.02 | 0.30 | 2,778.63 | 2,778.70 | 0.08 | 0.06 |
| P-163 | 505.00 | 6.0 | PVC | Open | | -105.74 | 1.20 | 2,778.70 | 2,779.22 | 1.04 | 0.52 |
| P-164 | 420.00 | 8.0 | PVC | Open | | 52.98 | 0.34 | 2,777.72 | 2,777.69 | 0.07 | 0.03 |
| P-165 | 150.00 | 8.0 | PVC | Open | | 17.14 | 0.11 | 2,777.72 | 2,777.72 | 0.01 | 0.00 |
| P-166 | 507.00 | 8.0 | PVC | Open | | 78.15 | 0.50 | 2,777.28 | 2,777.21 | 0.14 | 0.07 |
| P-167 | 1.00 | 96.0 | PVC | Open | | 546.34 | 0.02 | 2,534.00 | 2,534.00 | 0.00 | 0.00 |
| P-169 | 48.00 | 8.0 | PVC | Open | | 546.34 | 3.49 | 2,778.59 | 2,778.33 | 5.47 | 0.26 |
| P-170 | 364.00 | 4.0 | PVC | Open | | 3.89 | 0.10 | 2,777.88 | 2,777.88 | 0.02 | 0.01 |
| P-171 | 880.00 | 8.0 | PVC | Open | | 70.12 | 0.45 | 2,777.82 | 2,777.72 | 0.12 | 0.10 |
| P-172 | 340.00 | 8.0 | PVC | Open | | -129.71 | 0.83 | 2,778.05 | 2,778.18 | 0.36 | 0.12 |
| P-173 | 160.00 | 6.0 | PVC | Open | | 0.15 | 0.00 | 2,778.05 | 2,778.05 | 0.00 | 0.00 |
| P-174 | 460.00 | 8.0 | PVC | Open | | 7.78 | 0.05 | 2,777.84 | 2,777.84 | 0.00 | 0.00 |
| P-175 | 260.00 | 8.0 | PVC | Open | | -86.76 | 0.55 | 2,777.84 | 2,777.88 | 0.17 | 0.05 |
| P-176 | 80.00 | 2.0 | PVC | Open | | 2.92 | 0.30 | 2,777.84 | 2,777.81 | 0.34 | 0.03 |
| P-177 | 170.00 | 8.0 | PVC | Open | | 48.76 | 0.31 | 2,777.94 | 2,777.93 | 0.06 | 0.01 |
| P-178 | 420.00 | 6.0 | PVC | Open | | 1.23 | 0.01 | 2,777.92 | 2,777.92 | 0.00 | 0.00 |
| P-179 | 393.00 | 8.0 | PVC | Open | | 25.66 | 0.16 | 2,777.93 | 2,777.92 | 0.02 | 0.01 |
| P-180 | 120.00 | 8.0 | PVC | Open | | 15.68 | 0.10 | 2,777.92 | 2,777.92 | 0.01 | 0.00 |
| P-181 | 394.00 | 8.0 | PVC | Open | | -107.18 | 0.68 | 2,778.01 | 2,778.12 | 0.26 | 0.10 |
| P-182 | 225.00 | 8.0 | PVC | Open | | -108.92 | 0.70 | 2,778.12 | 2,778.18 | 0.26 | 0.06 |
| P-183 | 442.00 | 8.0 | PVC | Open | | -263.49 | 1.68 | 2,778.24 | 2,778.85 | 1.37 | 0.60 |
| P-185 | 258.00 | 8.0 | PVC | Open | | 35.89 | 0.23 | 2,777.72 | 2,777.71 | 0.04 | 0.01 |
| P-186 | 1,300.00 | 6.0 | PVC | Open | | 10.41 | 0.12 | 2,777.71 | 2,777.69 | 0.02 | 0.02 |
| P-187 | 700.00 | 6.0 | PVC | Open | | 14.89 | 0.17 | 2,777.71 | 2,777.69 | 0.03 | 0.02 |
| P-188 | 800.00 | 8.0 | PVC | Open | | -3.89 | 0.02 | 2,777.69 | 2,777.69 | 0.00 | 0.00 |
| P-189 | 158.00 | 8.0 | PVC | Open | | 83.92 | 0.54 | 2,777.76 | 2,777.73 | 0.17 | 0.03 |
| P-190 | 700.00 | 8.0 | PVC | Open | | -1.30 | 0.01 | 2,777.72 | 2,777.72 | 0.00 | 0.00 |
| P-191 | 260.00 | 8.0 | PVC | Open | | 11.90 | 0.08 | 2,777.72 | 2,777.72 | 0.01 | 0.00 |
| P-192 | 700.00 | 6.0 | PVC | Open | | -0.41 | 0.00 | 2,777.72 | 2,777.72 | 0.00 | 0.00 |
| P-193 | 698.00 | 6.0 | PVC | Open | | -0.38 | 0.00 | 2,777.72 | 2,777.72 | 0.00 | 0.00 |
| P-194 | 448.00 | 8.0 | PVC | Open | | 30.16 | 0.19 | 2,777.23 | 2,777.22 | 0.03 | 0.01 |
| P-195 | 480.00 | 8.0 | PVC | Open | | 8.97 | 0.06 | 2,777.22 | 2,777.22 | 0.00 | 0.00 |
| P-196 | 800.00 | 8.0 | PVC | Open | | 7.57 | 0.05 | 2,777.22 | 2,777.22 | 0.00 | 0.00 |
| P-197 | 242.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,777.22 | 2,777.22 | 0.00 | 0.00 |
| P-198 | 371.00 | 8.0 | PVC | Open | | 151.81 | 0.97 | 2,777.23 | 2,777.05 | 0.49 | 0.18 |
| P-199 | 846.00 | 8.0 | PVC | Open | | 25.09 | 0.16 | 2,777.05 | 2,777.03 | 0.02 | 0.02 |
| P-200 | 1,095.00 | 8.0 | PVC | Open | | 25.57 | 0.16 | 2,777.00 | 2,776.98 | 0.02 | 0.02 |
| P-201 | 221.00 | 8.0 | PVC | Open | | 123.69 | 0.79 | 2,777.05 | 2,776.98 | 0.33 | 0.07 |
| P-202 | 273.00 | 8.0 | PVC | Open | | 87.34 | 0.56 | 2,776.98 | 2,776.93 | 0.18 | 0.05 |
| P-203 | 523.00 | 8.0 | PVC | Open | | 60.80 | 0.39 | 2,776.98 | 2,776.93 | 0.09 | 0.05 |
| P-204 | 573.00 | 8.0 | PVC | Open | | 25.17 | 0.16 | 2,777.01 | 2,777.00 | 0.02 | 0.01 |
| P-205 | 257.00 | 8.0 | PVC | Open | | 5.30 | 0.03 | 2,776.93 | 2,776.93 | 0.00 | 0.00 |
| P-206 | 616.00 | 8.0 | PVC | Open | | 48.45 | 0.31 | 2,776.93 | 2,776.89 | 0.06 | 0.04 |
| P-207 | 173.00 | 6.0 | PVC | Open | | 3.89 | 0.04 | 2,776.89 | 2,776.89 | 0.00 | 0.00 |
| P-208 | 796.00 | 8.0 | PVC | Open | | 28.99 | 0.19 | 2,776.89 | 2,776.87 | 0.02 | 0.02 |
| P-209 | 188.00 | 6.0 | PVC | Open | | 4.86 | 0.06 | 2,776.87 | 2,776.87 | 0.00 | 0.00 |

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Diameter (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|---------------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-210 | 310.00 | 8.0 | PVC | Open | | 17.44 | 0.11 | 2,776.87 | 2,776.87 | 0.01 | 0.00 |
| P-211 | 158.00 | 6.0 | PVC | Open | | 4.86 | 0.06 | 2,776.87 | 2,776.87 | 0.00 | 0.00 |
| P-212 | 275.00 | 8.0 | PVC | Open | | 11.20 | 0.07 | 2,776.87 | 2,776.86 | 0.00 | 0.00 |
| P-213 | 272.00 | 6.0 | PVC | Open | | 17.33 | 0.20 | 2,776.86 | 2,776.85 | 0.04 | 0.01 |
| P-214 | 270.00 | 8.0 | PVC | Open | | -12.64 | 0.08 | 2,776.86 | 2,776.87 | 0.01 | 0.00 |
| P-215 | 438.00 | 8.0 | PVC | Open | | 8.07 | 0.05 | 2,776.87 | 2,776.87 | 0.00 | 0.00 |
| P-216 | 49.00 | 6.0 | PVC | Open | | 1.95 | 0.02 | 2,776.87 | 2,776.87 | 0.00 | 0.00 |
| P-217 | 129.00 | 6.0 | PVC | Open | | 3.89 | 0.04 | 2,776.87 | 2,776.87 | 0.00 | 0.00 |
| P-218 | 168.00 | 8.0 | PVC | Open | | -27.52 | 0.18 | 2,776.87 | 2,776.87 | 0.02 | 0.00 |
| P-219 | 462.00 | 8.0 | PVC | Open | | 10.70 | 0.07 | 2,776.88 | 2,776.88 | 0.00 | 0.00 |
| P-220 | 225.00 | 8.0 | PVC | Open | | 91.66 | 0.59 | 2,776.93 | 2,776.88 | 0.19 | 0.04 |
| P-221 | 276.00 | 8.0 | PVC | Open | | 41.43 | 0.26 | 2,776.88 | 2,776.87 | 0.05 | 0.01 |
| P-223 | 460.00 | 8.0 | PVC | Open | | -114.50 | 0.73 | 2,776.87 | 2,777.00 | 0.29 | 0.13 |
| P-224 | 1,737.00 | 12.0 | PVC | Open | | -179.20 | 0.51 | 2,777.00 | 2,777.16 | 0.09 | 0.16 |
| P-225 | 309.00 | 8.0 | PVC | Open | | 57.36 | 0.37 | 2,777.18 | 2,777.16 | 0.08 | 0.03 |
| P-226 | 502.00 | 8.0 | PVC | Open | | 10.69 | 0.07 | 2,777.16 | 2,777.15 | 0.00 | 0.00 |
| P-227 | 237.00 | 4.0 | PVC | Open | | 6.81 | 0.17 | 2,777.16 | 2,777.14 | 0.05 | 0.01 |
| P-228 | 299.00 | 8.0 | PVC | Open | | 32.09 | 0.20 | 2,777.16 | 2,777.15 | 0.03 | 0.01 |
| P-229 | 498.00 | 6.0 | PVC | Open | | 7.78 | 0.09 | 2,777.15 | 2,777.14 | 0.01 | 0.00 |
| P-230 | 317.00 | 4.0 | PVC | Open | | 7.78 | 0.20 | 2,777.15 | 2,777.13 | 0.07 | 0.02 |
| P-231 | 327.00 | 8.0 | PVC | Open | | 12.63 | 0.08 | 2,777.15 | 2,777.15 | 0.01 | 0.00 |
| P-232 | 487.00 | 12.0 | PVC | Open | | -112.14 | 0.32 | 2,777.14 | 2,777.16 | 0.04 | 0.02 |
| P-233 | 464.00 | 6.0 | PVC | Open | | 5.84 | 0.07 | 2,777.14 | 2,777.14 | 0.00 | 0.00 |
| P-234 | 494.00 | 6.0 | PVC | Open | | 5.84 | 0.07 | 2,777.14 | 2,777.14 | 0.00 | 0.00 |
| P-235 | 332.00 | 12.0 | PVC | Open | | -89.78 | 0.25 | 2,777.13 | 2,777.14 | 0.03 | 0.01 |
| P-236 | 458.00 | 8.0 | PVC | Open | | 4.86 | 0.03 | 2,777.13 | 2,777.13 | 0.00 | 0.00 |
| P-237 | 298.00 | 6.0 | PVC | Open | | 2.22 | 0.03 | 2,777.13 | 2,777.13 | 0.00 | 0.00 |
| P-238 | 363.00 | 12.0 | PVC | Open | | -78.81 | 0.22 | 2,777.12 | 2,777.13 | 0.02 | 0.01 |
| P-239 | 465.00 | 8.0 | PVC | Open | | -69.08 | 0.44 | 2,777.07 | 2,777.12 | 0.12 | 0.05 |
| P-240 | 513.00 | 12.0 | PVC | Open | | 4.86 | 0.01 | 2,777.12 | 2,777.12 | 0.00 | 0.00 |
| P-241 | 654.00 | 8.0 | PVC | Open | | -35.12 | 0.22 | 2,778.76 | 2,778.78 | 0.03 | 0.02 |
| P-242 | 880.00 | 12.0 | PVC | Open | | -185.15 | 0.53 | 2,777.65 | 2,777.74 | 0.10 | 0.08 |
| P-243 | 980.00 | 12.0 | PVC | Open | | 43.32 | 0.12 | 2,777.66 | 2,777.65 | 0.01 | 0.01 |
| P-244 | 759.00 | 12.0 | PVC | Open | | 136.45 | 0.39 | 2,777.49 | 2,777.45 | 0.06 | 0.04 |
| P-245 | 100.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,777.45 | 2,777.45 | 0.00 | 0.00 |
| P-246 | 430.00 | 8.0 | PVC | Open | | 131.75 | 0.84 | 2,777.45 | 2,777.29 | 0.38 | 0.16 |
| P-247 | 712.00 | 8.0 | PVC | Open | | 54.81 | 0.35 | 2,777.29 | 2,777.24 | 0.08 | 0.05 |
| P-248 | 760.00 | 8.0 | PVC | Open | | 74.03 | 0.47 | 2,777.29 | 2,777.19 | 0.13 | 0.10 |
| P-249 | 50.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,777.19 | 2,777.19 | 0.00 | 0.00 |
| P-250 | 263.00 | 8.0 | PVC | Open | | 44.11 | 0.28 | 2,777.19 | 2,777.17 | 0.05 | 0.01 |
| P-251 | 50.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,777.19 | 2,777.19 | 0.00 | 0.00 |
| P-252 | 800.00 | 8.0 | PVC | Open | | 48.97 | 0.31 | 2,777.24 | 2,777.19 | 0.06 | 0.05 |
| P-253 | 655.00 | 12.0 | PVC | Open | | 81.80 | 0.23 | 2,777.65 | 2,777.64 | 0.02 | 0.01 |
| P-254 | 370.00 | 8.0 | PVC | Open | | 81.80 | 0.52 | 2,777.64 | 2,777.58 | 0.16 | 0.06 |
| P-255 | 1,670.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,777.64 | 2,777.64 | 0.00 | 0.00 |
| P-256 | 40.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,777.64 | 2,777.64 | 0.00 | 0.00 |
| P-257 | 650.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,777.64 | 2,777.64 | 0.00 | 0.00 |
| P-258 | 40.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,777.64 | 2,777.64 | 0.00 | 0.00 |
| P-259 | 1,020.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,777.64 | 2,777.64 | 0.00 | 0.00 |
| P-260 | 480.00 | 8.0 | PVC | Open | | 43.43 | 0.28 | 2,777.21 | 2,777.18 | 0.05 | 0.02 |
| P-261 | 167.00 | 8.0 | PVC | Open | | 335.48 | 2.14 | 2,777.18 | 2,776.82 | 2.16 | 0.36 |

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Diameter (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|---------------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-262 | 395.00 | 8.0 | PVC | Open | | 199.61 | 1.27 | 2,776.82 | 2,776.50 | 0.81 | 0.32 |
| P-263 | 527.00 | 8.0 | PVC | Open | | 91.68 | 0.59 | 2,776.50 | 2,776.40 | 0.19 | 0.10 |
| P-264 | 477.00 | 8.0 | PVC | Open | | 95.28 | 0.61 | 2,776.50 | 2,776.40 | 0.21 | 0.10 |
| P-265 | 341.00 | 8.0 | PVC | Open | | 15.91 | 0.10 | 2,776.40 | 2,776.40 | 0.01 | 0.00 |
| P-266 | 261.00 | 8.0 | PVC | Open | | 99.81 | 0.64 | 2,776.40 | 2,776.34 | 0.23 | 0.06 |
| P-267 | 136.00 | 8.0 | PVC | Open | | 129.90 | 0.83 | 2,776.34 | 2,776.29 | 0.37 | 0.05 |
| P-268 | 604.00 | 8.0 | PVC | Open | | 40.80 | 0.26 | 2,776.37 | 2,776.34 | 0.05 | 0.03 |
| P-269 | 355.00 | 8.0 | PVC | Open | | 62.82 | 0.40 | 2,776.40 | 2,776.37 | 0.10 | 0.03 |
| P-270 | 776.00 | 8.0 | PVC | Open | | 118.36 | 0.76 | 2,776.82 | 2,776.58 | 0.31 | 0.24 |
| P-271 | 810.00 | 8.0 | PVC | Open | | -301.01 | 1.92 | 2,777.18 | 2,778.61 | 1.76 | 1.42 |
| P-272 | 547.00 | 8.0 | PVC | Open | | 9.73 | 0.06 | 2,778.61 | 2,778.60 | 0.00 | 0.00 |
| P-273 | 618.00 | 8.0 | PVC | Open | | -235.15 | 1.50 | 2,778.61 | 2,779.29 | 1.10 | 0.68 |
| P-274 | 332.00 | 8.0 | PVC | Open | | -240.22 | 1.53 | 2,779.29 | 2,779.67 | 1.15 | 0.38 |
| P-275 | 700.00 | 8.0 | PVC | Open | | 120.25 | 0.77 | 2,779.67 | 2,779.45 | 0.32 | 0.22 |
| P-276 | 83.00 | 8.0 | PVC | Open | | -360.95 | 2.30 | 2,779.67 | 2,779.88 | 2.48 | 0.21 |
| P-277 | 419.00 | 8.0 | PVC | Open | | 74.31 | 0.47 | 2,779.88 | 2,779.82 | 0.13 | 0.06 |
| P-278 | 620.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,779.29 | 2,779.29 | 0.00 | 0.00 |
| P-280 | 813.00 | 8.0 | PVC | Open | | 114.24 | 0.73 | 2,777.17 | 2,776.94 | 0.29 | 0.24 |
| P-281 | 287.00 | 12.0 | PVC | Open | | -12.75 | 0.04 | 2,777.19 | 2,777.19 | 0.00 | 0.00 |
| P-282 | 797.00 | 12.0 | PVC | Open | | -37.42 | 0.11 | 2,777.19 | 2,777.20 | 0.01 | 0.00 |
| P-283 | 320.00 | 8.0 | PVC | Open | | 2.66 | 0.02 | 2,777.20 | 2,777.20 | 0.00 | 0.00 |
| P-284 | 388.00 | 12.0 | PVC | Open | | -40.99 | 0.12 | 2,777.20 | 2,777.20 | 0.01 | 0.00 |
| P-285 | 1,528.00 | 12.0 | PVC | Open | | 793.77 | 2.25 | 2,779.40 | 2,777.20 | 1.44 | 2.20 |
| P-286 | 358.00 | 12.0 | PVC | Open | | 726.75 | 2.06 | 2,777.20 | 2,776.76 | 1.22 | 0.44 |
| P-287 | 419.00 | 8.0 | PVC | Open | | 180.45 | 1.15 | 2,776.76 | 2,776.48 | 0.67 | 0.28 |
| P-288 | 341.00 | 8.0 | PVC | Open | | 169.75 | 1.08 | 2,776.48 | 2,776.28 | 0.60 | 0.20 |
| P-289 | 193.00 | 8.0 | PVC | Open | | 3.89 | 0.02 | 2,776.48 | 2,776.48 | 0.00 | 0.00 |
| P-290 | 267.00 | 12.0 | PVC | Open | | 541.44 | 1.54 | 2,776.76 | 2,776.58 | 0.70 | 0.19 |
| P-291 | 640.00 | 8.0 | PVC | Open | | 115.85 | 0.74 | 2,776.47 | 2,776.28 | 0.30 | 0.19 |
| P-292 | 460.00 | 12.0 | PVC | Open | | 296.70 | 0.84 | 2,776.47 | 2,776.36 | 0.23 | 0.10 |
| P-293 | 302.00 | 8.0 | PVC | Open | | 85.11 | 0.54 | 2,776.41 | 2,776.36 | 0.17 | 0.05 |
| P-294 | 213.00 | 12.0 | PVC | Open | | 373.05 | 1.06 | 2,776.36 | 2,776.29 | 0.35 | 0.07 |
| P-295 | 511.00 | 12.0 | PVC | Open | | 650.27 | 1.84 | 2,776.29 | 2,775.78 | 0.99 | 0.50 |
| P-296 | 305.00 | 12.0 | PVC | Open | | 280.43 | 0.80 | 2,776.35 | 2,776.29 | 0.20 | 0.06 |
| P-297 | 650.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,776.35 | 2,776.35 | 0.00 | 0.00 |
| P-298 | 516.00 | 12.0 | PVC | Open | | 457.66 | 1.30 | 2,776.35 | 2,776.09 | 0.51 | 0.26 |
| P-299 | 19.00 | 12.0 | PVC | Open | | 346.76 | 0.98 | 2,776.09 | 2,776.08 | 0.30 | 0.01 |
| P-300 | 1,334.00 | 8.0 | PVC | Open | | 110.90 | 0.71 | 2,776.09 | 2,775.72 | 0.27 | 0.37 |
| P-301 | 241.00 | 8.0 | PVC | Open | | 74.54 | 0.48 | 2,777.82 | 2,777.79 | 0.13 | 0.03 |
| P-302 | 911.00 | 12.0 | PVC | Open | | 144.66 | 0.41 | 2,777.88 | 2,777.82 | 0.06 | 0.06 |
| P-303 | 156.00 | 8.0 | PVC | Open | | -48.21 | 0.31 | 2,777.87 | 2,777.88 | 0.06 | 0.01 |
| P-304 | 239.00 | 8.0 | PVC | Open | | -33.22 | 0.21 | 2,777.86 | 2,777.87 | 0.03 | 0.01 |
| P-305 | 176.00 | 8.0 | PVC | Open | | 11.67 | 0.07 | 2,777.86 | 2,777.86 | 0.01 | 0.00 |
| P-306 | 140.00 | 6.0 | PVC | Open | | 4.86 | 0.06 | 2,777.86 | 2,777.86 | 0.00 | 0.00 |
| P-307 | 283.00 | 8.0 | PVC | Open | | 4.86 | 0.03 | 2,777.86 | 2,777.86 | 0.00 | 0.00 |
| P-308 | 265.00 | 8.0 | PVC | Open | | -18.63 | 0.12 | 2,777.86 | 2,777.86 | 0.01 | 0.00 |
| P-309 | 205.00 | 6.0 | PVC | Open | | 5.85 | 0.07 | 2,777.86 | 2,777.86 | 0.00 | 0.00 |
| P-310 | 977.00 | 8.0 | PVC | Open | | -3.05 | 0.02 | 2,777.86 | 2,777.86 | 0.00 | 0.00 |
| P-311 | 142.00 | 6.0 | PVC | Open | | 4.86 | 0.06 | 2,777.86 | 2,777.86 | 0.00 | 0.00 |
| P-312 | 850.00 | 8.0 | PVC | Open | | 18.35 | 0.12 | 2,777.87 | 2,777.86 | 0.01 | 0.01 |
| P-313 | 666.00 | 8.0 | PVC | Open | | -8.18 | 0.05 | 2,777.87 | 2,777.87 | 0.00 | 0.00 |

Title: INITIAL RUN

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01/18/07 11:18:59 AM Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA

Project Engineer: DMC
WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Diameter (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|---------------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-314 | 402.00 | 8.0 | PVC | Open | | 24.77 | 0.16 | 2,777.88 | 2,777.87 | 0.02 | 0.01 |
| P-315 | 547.00 | 8.0 | PVC | Open | | 60.57 | 0.39 | 2,777.93 | 2,777.88 | 0.09 | 0.05 |
| P-316 | 401.00 | 8.0 | PVC | Open | | -27.05 | 0.17 | 2,777.87 | 2,777.88 | 0.02 | 0.01 |
| P-317 | 742.00 | 8.0 | PVC | Open | | -7.20 | 0.05 | 2,777.87 | 2,777.87 | 0.00 | 0.00 |
| P-318 | 343.00 | 6.0 | PVC | Open | | 6.81 | 0.08 | 2,777.87 | 2,777.86 | 0.01 | 0.00 |
| P-319 | 273.00 | 8.0 | PVC | Open | | 8.37 | 0.05 | 2,777.87 | 2,777.87 | 0.00 | 0.00 |
| P-320 | 288.00 | 8.0 | PVC | Open | | 3.05 | 0.02 | 2,777.87 | 2,777.87 | 0.00 | 0.00 |
| P-321 | 290.00 | 8.0 | PVC | Open | | -8.31 | 0.05 | 2,777.87 | 2,777.87 | 0.00 | 0.00 |
| P-322 | 133.00 | 8.0 | PVC | Open | | 17.92 | 0.11 | 2,777.87 | 2,777.86 | 0.01 | 0.00 |
| P-323 | 270.00 | 8.0 | PVC | Open | | -8.18 | 0.05 | 2,777.87 | 2,777.87 | 0.00 | 0.00 |
| P-324 | 472.00 | 6.0 | PVC | Open | | 8.76 | 0.10 | 2,777.87 | 2,777.86 | 0.01 | 0.01 |
| P-325 | 298.00 | 8.0 | PVC | Open | | 74.10 | 0.47 | 2,777.93 | 2,777.89 | 0.13 | 0.04 |
| P-326 | 747.00 | 8.0 | PVC | Open | | 30.42 | 0.19 | 2,777.89 | 2,777.87 | 0.03 | 0.02 |
| P-327 | 1,154.00 | 8.0 | PVC | Open | | 24.20 | 0.15 | 2,777.89 | 2,777.87 | 0.02 | 0.02 |
| P-328 | 160.00 | 8.0 | PVC | Open | | 139.13 | 0.89 | 2,777.99 | 2,777.93 | 0.42 | 0.07 |
| P-329 | 1,094.00 | 12.0 | PVC | Open | | 192.87 | 0.55 | 2,777.99 | 2,777.88 | 0.10 | 0.11 |
| P-330 | 804.00 | 12.0 | PVC | Open | | 332.00 | 0.94 | 2,778.22 | 2,777.99 | 0.28 | 0.23 |
| P-331 | 474.00 | 8.0 | PVC | Open | | -17.95 | 0.11 | 2,820.57 | 2,820.57 | 0.01 | 0.00 |
| P-332 | 221.00 | 6.0 | PVC | Open | | 4.24 | 0.05 | 2,820.57 | 2,820.57 | 0.00 | 0.00 |
| P-333 | 260.00 | 8.0 | PVC | Open | | -2.04 | 0.01 | 2,820.57 | 2,820.57 | 0.00 | 0.00 |
| P-334 | 213.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,820.57 | 2,820.57 | 0.00 | 0.00 |
| P-335 | 138.00 | 8.0 | PVC | Open | | 5.60 | 0.04 | 2,820.57 | 2,820.57 | 0.00 | 0.00 |
| P-336 | 267.00 | 8.0 | PVC | Open | | 8.43 | 0.05 | 2,820.57 | 2,820.57 | 0.00 | 0.00 |
| P-337 | 592.00 | 12.0 | PVC | Open | | 237.32 | 0.67 | 2,820.57 | 2,820.48 | 0.15 | 0.09 |
| P-338 | 260.00 | 12.0 | PVC | Open | | 256.45 | 0.73 | 2,820.61 | 2,820.57 | 0.17 | 0.05 |
| P-339 | 281.00 | 8.0 | PVC | Open | | 18.48 | 0.12 | 2,820.61 | 2,820.61 | 0.01 | 0.00 |
| P-340 | 449.00 | 12.0 | PVC | Open | | 281.74 | 0.80 | 2,820.71 | 2,820.61 | 0.21 | 0.09 |
| P-341 | 174.00 | 6.0 | PVC | Open | | 4.86 | 0.06 | 2,820.61 | 2,820.61 | 0.00 | 0.00 |
| P-342 | 286.00 | 8.0 | PVC | Open | | 8.76 | 0.06 | 2,820.61 | 2,820.61 | 0.00 | 0.00 |
| P-343 | 402.00 | 12.0 | PVC | Open | | 363.98 | 1.03 | 2,820.71 | 2,820.57 | 0.33 | 0.13 |
| P-344 | 1,192.00 | 12.0 | PVC | Open | | 651.22 | 1.85 | 2,821.89 | 2,820.71 | 0.99 | 1.18 |
| P-345 | 504.00 | 12.0 | PVC | Open | | 207.77 | 0.59 | 2,823.22 | 2,823.16 | 0.12 | 0.06 |
| P-346 | 261.00 | 12.0 | PVC | Open | | -101.56 | 0.29 | 2,823.21 | 2,823.22 | 0.03 | 0.01 |
| P-347 | 228.00 | 8.0 | PVC | Open | | -42.29 | 0.27 | 2,823.20 | 2,823.21 | 0.05 | 0.01 |
| P-348 | 532.00 | 12.0 | PVC | Open | | 664.72 | 1.89 | 2,823.15 | 2,822.60 | 1.03 | 0.55 |
| P-349 | 172.00 | 12.0 | PVC | Open | | 481.88 | 1.37 | 2,823.25 | 2,823.15 | 0.56 | 0.10 |
| P-350 | 180.00 | 8.0 | PVC | Open | | 0.97 | 0.01 | 2,823.25 | 2,823.25 | 0.00 | 0.00 |
| P-351 | 641.00 | 12.0 | PVC | Open | | 489.66 | 1.39 | 2,823.62 | 2,823.25 | 0.58 | 0.37 |
| P-352 | 215.00 | 8.0 | PVC | Open | | 309.33 | 1.97 | 2,823.62 | 2,823.22 | 1.85 | 0.40 |
| P-353 | 228.00 | 12.0 | PVC | Open | | 808.71 | 2.29 | 2,823.96 | 2,823.62 | 1.49 | 0.34 |
| P-354 | 388.00 | 8.0 | PVC | Open | | 7.78 | 0.05 | 2,823.96 | 2,823.96 | 0.00 | 0.00 |
| P-355 | 278.00 | 12.0 | PVC | Open | | 816.50 | 2.32 | 2,824.38 | 2,823.96 | 1.52 | 0.42 |
| P-356 | 862.00 | 8.0 | PVC | Open | | 150.38 | 0.96 | 2,824.80 | 2,824.38 | 0.48 | 0.41 |
| P-357 | 384.00 | 12.0 | PVC | Open | | 680.71 | 1.93 | 2,824.80 | 2,824.38 | 1.08 | 0.41 |
| P-358 | 445.00 | 12.0 | PVC | Open | | 846.65 | 2.40 | 2,825.52 | 2,824.80 | 1.63 | 0.73 |
| P-359 | 285.00 | 12.0 | PVC | Open | | 127.77 | 0.36 | 2,825.52 | 2,825.51 | 0.05 | 0.01 |
| P-360 | 433.00 | 12.0 | PVC | Open | | -275.75 | 0.78 | 2,825.52 | 2,825.61 | 0.20 | 0.09 |
| P-361 | 110.00 | 12.0 | PVC | Open | | 182.85 | 0.52 | 2,823.16 | 2,823.15 | 0.09 | 0.01 |
| P-362 | 701.00 | 12.0 | PVC | Open | | 709.37 | 2.01 | 2,826.34 | 2,825.52 | 1.16 | 0.82 |
| P-363 | 278.00 | 12.0 | PVC | Open | | 911.21 | 2.58 | 2,826.86 | 2,826.34 | 1.88 | 0.52 |
| P-364 | 1,033.00 | 8.0 | PVC | Open | | 185.30 | 1.18 | 2,826.34 | 2,825.61 | 0.71 | 0.73 |

Title: INITIAL RUN

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Bentley Systems, Inc.

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Diameter (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|---------------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-365 | 213.00 | 8.0 | PVC | Open | | -365.23 | 2.33 | 2,825.61 | 2,826.15 | 2.53 | 0.54 |
| P-366 | 15.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,826.15 | 2,826.15 | 0.00 | 0.00 |
| P-367 | 928.00 | 8.0 | PVC | Open | | 365.23 | 2.33 | 2,828.50 | 2,826.15 | 2.54 | 2.35 |
| P-370 | 40.00 | 8.0 | PVC | Open | | 34.72 | 0.22 | 2,777.21 | 2,777.21 | 0.04 | 0.00 |
| P-371 | 40.00 | 8.0 | PVC | Open | | 8.96 | 0.06 | 2,777.18 | 2,777.18 | 0.01 | 0.00 |
| P-372 | 360.00 | 12.0 | PVC | Open | | 36.49 | 0.10 | 2,777.66 | 2,777.66 | 0.01 | 0.00 |
| P-373 | 479.00 | 8.0 | PVC | Open | | -204.61 | 1.31 | 2,779.14 | 2,779.55 | 0.85 | 0.41 |
| P-374 | 102.00 | 12.0 | PVC | Open | | -291.34 | 0.83 | 2,777.16 | 2,777.18 | 0.22 | 0.02 |
| P-375 | 90.00 | 12.0 | PVC | Open | | -348.71 | 0.99 | 2,777.18 | 2,777.21 | 0.31 | 0.03 |
| P-376 | 789.00 | 12.0 | PVC | Open | | 743.74 | 2.11 | 2,827.86 | 2,826.86 | 1.27 | 1.01 |
| P-377 | 1,321.00 | 8.0 | PVC | Open | | 192.76 | 1.23 | 2,827.86 | 2,826.86 | 0.76 | 1.01 |
| P-378 | 203.00 | 12.0 | PVC | Open | | 954.99 | 2.71 | 2,828.28 | 2,827.86 | 2.05 | 0.42 |
| P-379 | 775.00 | 12.0 | PVC | Open | | 918.32 | 2.61 | 2,770.47 | 2,769.00 | 1.90 | 1.47 |
| P-380 | 558.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,820.35 | 2,820.35 | 0.00 | 0.00 |
| P-381 | 890.00 | 12.0 | PVC | Open | | 918.32 | 2.61 | 2,769.00 | 2,767.31 | 1.90 | 1.69 |
| P-383 | 107.00 | 12.0 | PVC | Open | | 954.99 | 2.71 | 2,828.50 | 2,828.28 | 2.05 | 0.22 |
| P-384 | 154.00 | 8.0 | PVC | Open | | 119.16 | 0.76 | 2,776.58 | 2,776.53 | 0.31 | 0.05 |
| P-385 | 378.00 | 6.0 | PVC | Open | | 4.86 | 0.06 | 2,776.53 | 2,776.53 | 0.00 | 0.00 |
| P-386 | 257.00 | 8.0 | PVC | Open | | 105.54 | 0.67 | 2,776.53 | 2,776.47 | 0.25 | 0.06 |
| P-387 | 333.00 | 8.0 | PVC | Open | | 6.81 | 0.04 | 2,776.47 | 2,776.46 | 0.00 | 0.00 |
| P-388 | 270.00 | 8.0 | PVC | Open | | 90.95 | 0.58 | 2,776.47 | 2,776.41 | 0.19 | 0.05 |
| P-389 | 185.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,776.41 | 2,776.41 | 0.00 | 0.00 |
| P-390 | 419.00 | 8.0 | PVC | Open | | 273.92 | 1.75 | 2,776.28 | 2,775.66 | 1.47 | 0.62 |
| P-391 | 250.00 | 8.0 | PVC | Open | | 84.47 | 0.54 | 2,775.66 | 2,775.62 | 0.17 | 0.04 |
| P-392 | 535.00 | 8.0 | PVC | Open | | -20.37 | 0.13 | 2,775.62 | 2,775.63 | 0.01 | 0.01 |
| P-393 | 113.00 | 8.0 | PVC | Open | | -152.64 | 0.97 | 2,775.63 | 2,775.68 | 0.49 | 0.06 |
| P-394 | 377.00 | 8.0 | PVC | Open | | 121.57 | 0.78 | 2,775.63 | 2,775.50 | 0.32 | 0.12 |
| P-395 | 474.00 | 8.0 | PVC | Open | | 103.82 | 0.66 | 2,775.62 | 2,775.50 | 0.24 | 0.11 |
| P-396 | 250.00 | 8.0 | PVC | Open | | 217.61 | 1.39 | 2,775.50 | 2,775.27 | 0.96 | 0.24 |
| P-397 | 598.00 | 8.0 | PVC | Open | | 178.74 | 1.14 | 2,775.66 | 2,775.27 | 0.66 | 0.40 |
| P-398 | 270.00 | 12.0 | PVC | Open | | 628.87 | 1.78 | 2,775.52 | 2,775.27 | 0.93 | 0.25 |
| P-399 | 202.00 | 8.0 | PVC | Open | | 3.89 | 0.02 | 2,775.52 | 2,775.52 | 0.00 | 0.00 |
| P-400 | 280.00 | 12.0 | PVC | Open | | 638.60 | 1.81 | 2,775.78 | 2,775.52 | 0.95 | 0.27 |
| P-401 | 233.00 | 8.0 | PVC | Open | | 3.89 | 0.02 | 2,775.78 | 2,775.78 | 0.00 | 0.00 |
| P-402 | 310.00 | 12.0 | PVC | Open | | 1,017.44 | 2.89 | 2,775.27 | 2,774.55 | 2.31 | 0.72 |
| P-403 | 377.00 | 8.0 | PVC | Open | | 4.86 | 0.03 | 2,774.55 | 2,774.55 | 0.00 | 0.00 |
| P-404 | 252.00 | 12.0 | PVC | Open | | 1,005.76 | 2.85 | 2,774.55 | 2,773.98 | 2.27 | 0.57 |
| P-405 | 213.00 | 8.0 | PVC | Open | | 4.86 | 0.03 | 2,773.98 | 2,773.98 | 0.00 | 0.00 |
| P-406 | 535.00 | 12.0 | PVC | Open | | 994.09 | 2.82 | 2,773.98 | 2,772.79 | 2.21 | 1.18 |
| P-407 | 160.00 | 8.0 | PVC | Open | | 245.61 | 1.57 | 2,772.79 | 2,772.60 | 1.20 | 0.19 |
| P-408 | 308.00 | 12.0 | PVC | Open | | 738.75 | 2.10 | 2,772.79 | 2,772.41 | 1.26 | 0.39 |
| P-409 | 9.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,772.41 | 2,772.41 | 0.00 | 0.00 |
| P-410 | 265.00 | 8.0 | PVC | Open | | 30.57 | 0.20 | 2,820.39 | 2,820.38 | 0.03 | 0.01 |
| P-411 | 136.00 | 8.0 | PVC | Open | | 17.92 | 0.11 | 2,820.38 | 2,820.38 | 0.01 | 0.00 |
| P-412 | 330.00 | 8.0 | PVC | Open | | 7.78 | 0.05 | 2,820.38 | 2,820.38 | 0.00 | 0.00 |
| P-413 | 942.00 | 12.0 | PVC | Open | | 187.30 | 0.53 | 2,820.48 | 2,820.39 | 0.10 | 0.09 |
| P-414 | 216.00 | 8.0 | PVC | Open | | 34.46 | 0.22 | 2,820.48 | 2,820.47 | 0.03 | 0.01 |
| P-415 | 433.00 | 8.0 | PVC | Open | | 8.76 | 0.06 | 2,820.47 | 2,820.47 | 0.00 | 0.00 |
| P-416 | 265.00 | 8.0 | PVC | Open | | 17.92 | 0.11 | 2,820.47 | 2,820.47 | 0.01 | 0.00 |
| P-417 | 392.00 | 12.0 | PVC | Open | | 73.35 | 0.21 | 2,825.51 | 2,825.50 | 0.02 | 0.01 |
| P-418 | 493.00 | 12.0 | PVC | Open | | 56.81 | 0.16 | 2,825.50 | 2,825.49 | 0.01 | 0.01 |

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Diameter (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|---------------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-419 | 263.00 | 6.0 | PVC | Open | | 6.81 | 0.08 | 2,825.50 | 2,825.50 | 0.01 | 0.00 |
| P-420 | 336.00 | 6.0 | PVC | Open | | 5.84 | 0.07 | 2,825.50 | 2,825.50 | 0.00 | 0.00 |
| P-421 | 907.00 | 8.0 | PVC | Open | | 21.10 | 0.13 | 2,825.51 | 2,825.49 | 0.01 | 0.01 |
| P-422 | 377.00 | 12.0 | PVC | Open | | 47.99 | 0.14 | 2,825.49 | 2,825.49 | 0.01 | 0.00 |
| P-423 | 770.00 | 8.0 | PVC | Open | | 22.62 | 0.14 | 2,825.51 | 2,825.50 | 0.02 | 0.01 |
| P-424 | 20.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,822.60 | 2,822.60 | 0.00 | 0.00 |
| P-425 | 1,980.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,822.56 | 2,822.56 | 0.00 | 0.00 |
| P-426 | 209.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,822.56 | 2,822.56 | 0.00 | 0.00 |
| P-427 | 207.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,822.56 | 2,822.56 | 0.00 | 0.00 |
| P-428 | 251.00 | 12.0 | PVC | Open | | 422.28 | 1.20 | 2,776.58 | 2,776.47 | 0.44 | 0.11 |
| P-429 | 281.00 | 4.0 | PVC | Open | | 12.63 | 0.32 | 2,777.15 | 2,777.10 | 0.16 | 0.04 |
| P-430 | 370.00 | 8.0 | PVC | Open | | -111.46 | 0.71 | 2,777.79 | 2,777.89 | 0.28 | 0.10 |
| P-431 | 54.00 | 6.0 | PVC | Open | | 0.96 | 0.01 | 2,777.89 | 2,777.89 | 0.00 | 0.00 |
| P-432 | 55.00 | 6.0 | PVC | Open | | 3.02 | 0.03 | 2,777.89 | 2,777.89 | 0.00 | 0.00 |
| P-433 | 506.00 | 8.0 | PVC | Open | | -121.25 | 0.77 | 2,777.89 | 2,778.05 | 0.32 | 0.16 |
| P-434 | 155.00 | 12.0 | PVC | Open | | -152.50 | 0.43 | 2,778.19 | 2,778.20 | 0.07 | 0.01 |
| P-435 | 467.00 | 8.0 | PVC | Open | | 44.98 | 0.29 | 2,778.81 | 2,778.78 | 0.05 | 0.03 |
| P-436 | 360.00 | 8.0 | PVC | Open | | -136.73 | 0.87 | 2,778.05 | 2,778.20 | 0.40 | 0.15 |
| P-437 | 760.00 | 8.0 | PVC | Open | | -14.32 | 0.09 | 2,778.05 | 2,778.05 | 0.01 | 0.01 |
| P-438 | 348.00 | 8.0 | PVC | Open | | -114.89 | 0.73 | 2,778.05 | 2,778.15 | 0.29 | 0.10 |
| P-439 | 51.00 | 12.0 | PVC | Open | | -134.49 | 0.38 | 2,778.15 | 2,778.15 | 0.05 | 0.00 |
| P-440 | 18.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,778.15 | 2,778.15 | 0.00 | 0.00 |
| P-441 | 642.00 | 12.0 | PVC | Open | | -136.69 | 0.39 | 2,778.15 | 2,778.19 | 0.06 | 0.04 |
| P-442 | 350.00 | 12.0 | PVC | Open | | 15.08 | 0.04 | 2,778.19 | 2,778.19 | 0.00 | 0.00 |
| P-443 | 336.00 | 12.0 | PVC | Open | | -301.63 | 0.86 | 2,778.20 | 2,778.27 | 0.23 | 0.08 |
| P-444 | 829.00 | 12.0 | PVC | Open | | -301.63 | 0.86 | 2,778.27 | 2,778.47 | 0.23 | 0.19 |
| P-445 | 120.00 | 8.0 | PVC | Open | | 134.07 | 0.86 | 2,778.18 | 2,778.14 | 0.39 | 0.05 |
| P-446 | 470.00 | 8.0 | PVC | Open | | 1.62 | 0.01 | 2,778.14 | 2,778.14 | 0.00 | 0.00 |
| P-447 | 265.00 | 12.0 | PVC | Open | | -301.63 | 0.86 | 2,778.47 | 2,778.53 | 0.23 | 0.06 |
| P-448 | 337.00 | 8.0 | PVC | Open | | -174.47 | 1.11 | 2,779.55 | 2,779.76 | 0.63 | 0.21 |
| P-449 | 39.00 | 8.0 | PVC | Open | | 5.63 | 0.04 | 2,778.53 | 2,778.53 | 0.00 | 0.00 |
| P-450 | 705.00 | 12.0 | PVC | Open | | -307.26 | 0.87 | 2,778.53 | 2,778.70 | 0.24 | 0.17 |
| P-451 | 197.00 | 12.0 | PVC | Open | | -325.04 | 0.92 | 2,778.70 | 2,778.76 | 0.27 | 0.05 |
| P-452 | 250.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,778.19 | 2,778.19 | 0.00 | 0.00 |
| P-453 | 546.00 | 8.0 | PVC | Open | | 74.31 | 0.47 | 2,779.82 | 2,779.75 | 0.13 | 0.07 |
| P-454 | 526.00 | 8.0 | PVC | Open | | -30.14 | 0.19 | 2,779.55 | 2,779.56 | 0.03 | 0.01 |
| P-455 | 730.00 | 8.0 | PVC | Open | | 118.44 | 0.76 | 2,779.45 | 2,779.22 | 0.31 | 0.23 |
| P-456 | 236.00 | 8.0 | PVC | Open | | -175.41 | 1.12 | 2,779.76 | 2,779.91 | 0.64 | 0.15 |
| P-457 | 235.00 | 12.0 | PVC | Open | | 28.15 | 0.08 | 2,779.91 | 2,779.91 | 0.00 | 0.00 |
| P-458 | 311.00 | 12.0 | PVC | Open | | 17.85 | 0.05 | 2,779.91 | 2,779.91 | 0.00 | 0.00 |
| P-459 | 314.00 | 12.0 | PVC | Open | | 10.08 | 0.03 | 2,779.91 | 2,779.91 | 0.00 | 0.00 |
| P-460 | 331.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,779.91 | 2,779.91 | 0.00 | 0.00 |
| P-461 | 399.00 | 12.0 | PVC | Open | | -203.56 | 0.58 | 2,779.91 | 2,779.96 | 0.11 | 0.05 |
| P-462 | 322.00 | 12.0 | PVC | Open | | 369.40 | 1.05 | 2,779.96 | 2,779.85 | 0.34 | 0.11 |
| P-463 | 711.00 | 12.0 | PVC | Open | | 368.33 | 1.04 | 2,779.85 | 2,779.61 | 0.34 | 0.24 |
| P-464 | 355.00 | 12.0 | PVC | Open | | 572.96 | 1.63 | 2,780.24 | 2,779.96 | 0.78 | 0.28 |
| P-465 | 158.00 | 8.0 | PVC | Open | | 219.88 | 1.40 | 2,780.24 | 2,780.08 | 0.97 | 0.15 |
| P-466 | 432.00 | 8.0 | PVC | Open | | -103.31 | 0.66 | 2,779.98 | 2,780.08 | 0.24 | 0.10 |
| P-467 | 475.00 | 8.0 | PVC | Open | | -98.08 | 0.63 | 2,779.98 | 2,780.08 | 0.22 | 0.10 |
| P-468 | 316.00 | 8.0 | PVC | Open | | -187.96 | 1.20 | 2,779.75 | 2,779.98 | 0.73 | 0.23 |
| P-469 | 347.00 | 12.0 | PVC | Open | | 643.09 | 1.82 | 2,780.79 | 2,780.46 | 0.97 | 0.34 |

Title: INITIAL RUN

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01/18/07 11:18:59 AM Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA +1-203-755-1666

Project Engineer: DMC
WaterCAD v7.0 [07.00.049.00]

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Diameter (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|---------------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-470 | 178.00 | 12.0 | PVC | Open | | 792.84 | 2.25 | 2,781.05 | 2,780.79 | 1.44 | 0.26 |
| P-471 | 660.00 | 12.0 | PVC | Open | | 795.31 | 2.26 | 2,782.00 | 2,781.05 | 1.45 | 0.95 |
| P-472 | 224.00 | 12.0 | PVC | Open | | 795.73 | 2.26 | 2,782.33 | 2,782.00 | 1.45 | 0.32 |
| P-473 | 296.00 | 12.0 | PVC | Open | | -1,234.66 | 3.50 | 2,782.33 | 2,783.32 | 3.36 | 0.99 |
| P-474 | 153.00 | 12.0 | PVC | Open | | 792.84 | 2.25 | 2,780.46 | 2,780.24 | 1.44 | 0.22 |
| P-476 | 304.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.29 | 2,779.29 | 0.00 | 0.00 |
| P-477 | 692.00 | 8.0 | PVC | Open | | -435.27 | 2.78 | 2,779.88 | 2,782.33 | 3.54 | 2.45 |
| P-478 | 13.00 | 8.0 | PVC | Open | | 10.42 | 0.07 | 2,779.61 | 2,779.61 | 0.00 | 0.00 |
| P-479 | 84.00 | 8.0 | PVC | Open | | -16.62 | 0.11 | 2,779.22 | 2,779.22 | 0.01 | 0.00 |
| P-480 | 200.00 | 12.0 | PVC | Open | | 36.49 | 0.10 | 2,777.66 | 2,777.66 | 0.00 | 0.00 |
| P-481 | 550.00 | 12.0 | PVC | Open | | 25.79 | 0.07 | 2,777.66 | 2,777.66 | 0.00 | 0.00 |
| P-482 | 703.00 | 8.0 | PVC | Open | | 11.35 | 0.07 | 2,777.66 | 2,777.66 | 0.00 | 0.00 |
| P-483 | 960.00 | 12.0 | PVC | Open | | 6.78 | 0.02 | 2,777.66 | 2,777.66 | 0.00 | 0.00 |
| P-484 | 265.00 | 12.0 | PVC | Open | | -16.88 | 0.05 | 2,777.66 | 2,777.66 | 0.00 | 0.00 |
| P-485 | 447.00 | 12.0 | PVC | Open | | 23.56 | 0.07 | 2,825.49 | 2,825.49 | 0.00 | 0.00 |
| P-486 | 160.00 | 12.0 | PVC | Open | | 19.69 | 0.06 | 2,825.49 | 2,825.49 | 0.00 | 0.00 |
| P-487 | 159.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,825.49 | 2,825.49 | 0.00 | 0.00 |
| P-488 | 981.00 | 8.0 | PVC | Open | | 12.75 | 0.08 | 2,825.49 | 2,825.49 | 0.01 | 0.01 |
| P-489 | 135.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,825.49 | 2,825.49 | 0.00 | 0.00 |
| P-490 | 338.00 | 8.0 | PVC | Open | | 66.93 | 0.43 | 2,776.29 | 2,776.25 | 0.11 | 0.04 |
| P-491 | 317.00 | 8.0 | PVC | Open | | 5.73 | 0.04 | 2,776.26 | 2,776.25 | 0.00 | 0.00 |
| P-492 | 1,010.00 | 8.0 | PVC | Open | | 61.96 | 0.40 | 2,776.25 | 2,776.16 | 0.10 | 0.10 |
| P-493 | 314.00 | 8.0 | PVC | Open | | 104.50 | 0.67 | 2,776.16 | 2,776.08 | 0.25 | 0.08 |
| P-494 | 159.00 | 8.0 | PVC | Open | | 55.19 | 0.35 | 2,776.17 | 2,776.16 | 0.08 | 0.01 |
| P-495 | 527.00 | 8.0 | PVC | Open | | 55.19 | 0.35 | 2,776.21 | 2,776.17 | 0.08 | 0.04 |
| P-496 | 134.00 | 12.0 | PVC | Open | | 1,225.53 | 3.48 | 2,780.84 | 2,780.40 | 3.31 | 0.44 |
| P-498 | 1.00 | 96.0 | PVC | Open | | -352.97 | 0.02 | 2,493.50 | 2,493.50 | 0.00 | 0.00 |
| P-499 | 356.00 | 12.0 | PVC | Open | | 466.19 | 1.32 | 2,780.32 | 2,780.13 | 0.53 | 0.19 |
| P-500 | 259.00 | 12.0 | PVC | Open | | 459.03 | 1.30 | 2,780.13 | 2,780.00 | 0.51 | 0.13 |
| P-501 | 152.00 | 12.0 | PVC | Open | | 413.91 | 1.17 | 2,780.08 | 2,780.01 | 0.42 | 0.06 |
| P-503 | 30.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,780.13 | 2,780.13 | 0.00 | 0.00 |
| P-504 | 120.00 | 8.0 | PVC | Open | | 67.52 | 0.43 | 2,780.14 | 2,780.13 | 0.11 | 0.01 |
| P-505 | 30.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,780.14 | 2,780.14 | 0.00 | 0.00 |
| P-507 | 27.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,780.15 | 2,780.15 | 0.00 | 0.00 |
| P-508 | 197.00 | 8.0 | PVC | Open | | -12.49 | 0.08 | 2,780.15 | 2,780.15 | 0.01 | 0.00 |
| P-509 | 785.00 | 8.0 | PVC | Open | | -10.54 | 0.07 | 2,780.15 | 2,780.15 | 0.00 | 0.00 |
| P-510 | 222.00 | 8.0 | PVC | Open | | 1.95 | 0.01 | 2,780.15 | 2,780.15 | 0.00 | 0.00 |
| P-511 | 683.00 | 8.0 | PVC | Open | | -4.71 | 0.03 | 2,780.15 | 2,780.15 | 0.00 | 0.00 |
| P-512 | 819.00 | 8.0 | PVC | Open | | 1.95 | 0.01 | 2,780.15 | 2,780.15 | 0.00 | 0.00 |
| P-513 | 283.00 | 8.0 | PVC | Open | | -0.82 | 0.01 | 2,780.15 | 2,780.15 | 0.00 | 0.00 |
| P-514 | 136.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,780.13 | 2,780.13 | 0.00 | 0.00 |
| P-515 | 560.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,776.21 | 2,776.21 | 0.00 | 0.00 |
| P-516 | 19.00 | 8.0 | PVC | Open | | -298.45 | 1.90 | 2,778.42 | 2,778.45 | 1.73 | 0.03 |
| P-517 | 0.25 | 96.0 | Steel | Open | | -0.00 | 0.00 | 2,419.00 | 2,419.00 | 0.00 | 0.00 |
| P-518 | 250.00 | 8.0 | PVC | Open | | -39.40 | 0.25 | 2,778.01 | 2,778.02 | 0.04 | 0.01 |
| P-519 | 673.00 | 8.0 | PVC | Open | | 119.26 | 0.76 | 2,778.14 | 2,777.93 | 0.31 | 0.21 |
| P-520 | 32.00 | 8.0 | PVC | Open | | 171.21 | 1.09 | 2,778.18 | 2,778.16 | 0.61 | 0.02 |
| P-521 | 769.00 | 8.0 | PVC | Open | | 63.42 | 0.40 | 2,777.93 | 2,777.85 | 0.10 | 0.08 |
| P-522 | 105.00 | 8.0 | PVC | Open | | -27.57 | 0.18 | 2,778.76 | 2,778.76 | 0.02 | 0.00 |
| P-523 | 305.00 | 12.0 | PVC | Open | | 299.20 | 0.85 | 2,778.83 | 2,778.76 | 0.23 | 0.07 |
| P-524 | 94.00 | 6.0 | PVC | Open | | 45.10 | 0.51 | 2,778.83 | 2,778.81 | 0.22 | 0.02 |

Title: INITIAL RUN

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01/18/07 11:18:59 AM Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA +1-203-755-1666

Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Diameter (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|---------------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-525 | 232.00 | 12.0 | PVC | Open | | 345.02 | 0.98 | 2,778.90 | 2,778.83 | 0.30 | 0.07 |
| P-526 | 294.00 | 12.0 | PVC | Open | | 260.10 | 0.74 | 2,778.95 | 2,778.90 | 0.18 | 0.05 |
| P-527 | 248.00 | 8.0 | PVC | Open | | 1.28 | 0.01 | 2,778.95 | 2,778.95 | 0.00 | 0.00 |
| P-528 | 83.00 | 8.0 | PVC | Open | | 1.28 | 0.01 | 2,778.95 | 2,778.95 | 0.00 | 0.00 |
| P-529 | 115.00 | 12.0 | PVC | Open | | 261.38 | 0.74 | 2,778.97 | 2,778.95 | 0.18 | 0.02 |
| P-530 | 384.00 | 12.0 | PVC | Open | | 261.38 | 0.74 | 2,779.04 | 2,778.97 | 0.18 | 0.07 |
| P-531 | 153.00 | 12.0 | PVC | Open | | 261.38 | 0.74 | 2,779.07 | 2,779.04 | 0.18 | 0.03 |
| P-532 | 216.00 | 12.0 | PVC | Open | | 261.38 | 0.74 | 2,779.11 | 2,779.07 | 0.18 | 0.04 |
| P-533 | 169.00 | 12.0 | PVC | Open | | 261.50 | 0.74 | 2,779.14 | 2,779.11 | 0.18 | 0.03 |
| P-534 | 163.00 | 12.0 | PVC | Open | | 261.50 | 0.74 | 2,779.17 | 2,779.14 | 0.18 | 0.03 |
| P-535 | 222.00 | 12.0 | PVC | Open | | 261.50 | 0.74 | 2,779.21 | 2,779.17 | 0.18 | 0.04 |
| P-536 | 395.00 | 12.0 | PVC | Open | | 263.35 | 0.75 | 2,779.28 | 2,779.21 | 0.18 | 0.07 |
| P-537 | 322.00 | 8.0 | PVC | Open | | 94.56 | 0.60 | 2,779.28 | 2,779.21 | 0.20 | 0.07 |
| P-538 | 574.00 | 8.0 | PVC | Open | | 94.56 | 0.60 | 2,779.21 | 2,779.09 | 0.21 | 0.12 |
| P-539 | 315.00 | 8.0 | PVC | Open | | 94.31 | 0.60 | 2,779.09 | 2,779.03 | 0.20 | 0.06 |
| P-540 | 306.00 | 8.0 | PVC | Open | | 93.64 | 0.60 | 2,779.03 | 2,778.97 | 0.20 | 0.06 |
| P-541 | 359.00 | 8.0 | PVC | Open | | 93.64 | 0.60 | 2,778.97 | 2,778.90 | 0.20 | 0.07 |
| P-542 | 145.00 | 8.0 | PVC | Open | | 0.66 | 0.00 | 2,779.03 | 2,779.03 | 0.00 | 0.00 |
| P-543 | 289.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.03 | 2,779.03 | 0.00 | 0.00 |
| P-544 | 387.00 | 8.0 | PVC | Open | | 0.42 | 0.00 | 2,779.03 | 2,779.03 | 0.00 | 0.00 |
| P-545 | 57.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,778.97 | 2,778.97 | 0.00 | 0.00 |
| P-546 | 50.00 | 8.0 | PVC | Open | | 0.66 | 0.00 | 2,779.03 | 2,779.03 | 0.00 | 0.00 |
| P-547 | 329.00 | 8.0 | PVC | Open | | 0.24 | 0.00 | 2,779.03 | 2,779.03 | 0.00 | 0.00 |
| P-548 | 284.00 | 8.0 | PVC | Open | | 0.03 | 0.00 | 2,779.03 | 2,779.03 | 0.00 | 0.00 |
| P-549 | 284.00 | 8.0 | PVC | Open | | 0.21 | 0.00 | 2,779.03 | 2,779.03 | 0.00 | 0.00 |
| P-550 | 210.00 | 8.0 | PVC | Open | | 0.12 | 0.00 | 2,779.03 | 2,779.03 | 0.00 | 0.00 |
| P-551 | 171.00 | 8.0 | PVC | Open | | 0.01 | 0.00 | 2,779.03 | 2,779.03 | 0.00 | 0.00 |
| P-552 | 269.00 | 8.0 | PVC | Open | | 149.75 | 0.96 | 2,780.58 | 2,780.46 | 0.48 | 0.13 |
| P-553 | 161.00 | 8.0 | PVC | Open | | 149.75 | 0.96 | 2,780.79 | 2,780.71 | 0.48 | 0.08 |
| P-554 | 90.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.21 | 2,779.21 | 0.00 | 0.00 |
| P-555 | 63.00 | 12.0 | PVC | Open | | 357.90 | 1.02 | 2,779.30 | 2,779.28 | 0.32 | 0.02 |
| P-556 | 252.00 | 8.0 | PVC | Open | | 0.03 | 0.00 | 2,778.95 | 2,778.95 | 0.00 | 0.00 |
| P-557 | 256.00 | 12.0 | PVC | Open | | 357.90 | 1.02 | 2,779.38 | 2,779.30 | 0.32 | 0.08 |
| P-558 | 702.00 | 12.0 | PVC | Open | | 357.90 | 1.02 | 2,779.61 | 2,779.38 | 0.32 | 0.23 |
| P-559 | 110.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,779.38 | 2,779.38 | 0.00 | 0.00 |
| P-560 | 275.00 | 8.0 | PVC | Open | | 149.75 | 0.96 | 2,780.71 | 2,780.58 | 0.48 | 0.13 |
| P-561 | 436.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,779.38 | 2,779.38 | 0.00 | 0.00 |
| P-562 | 79.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,780.58 | 2,780.58 | 0.00 | 0.00 |
| P-563 | 442.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,779.38 | 2,779.38 | 0.00 | 0.00 |
| P-564 | 68.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.38 | 2,779.38 | 0.00 | 0.00 |
| P-565 | 42.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,779.38 | 2,779.38 | 0.00 | 0.00 |
| P-566 | 86.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,780.71 | 2,780.71 | 0.00 | 0.00 |
| P-567 | 433.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,779.38 | 2,779.38 | 0.00 | 0.00 |
| P-568 | 64.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,779.38 | 2,779.38 | 0.00 | 0.00 |
| P-569 | 222.00 | 8.0 | PVC | Open | | 3.89 | 0.02 | 2,776.27 | 2,776.27 | 0.00 | 0.00 |
| P-570 | 307.00 | 8.0 | PVC | Open | | 98.74 | 0.63 | 2,776.26 | 2,776.19 | 0.22 | 0.07 |
| P-571 | 220.00 | 8.0 | PVC | Open | | 4.86 | 0.03 | 2,776.19 | 2,776.19 | 0.00 | 0.00 |
| P-572 | 247.00 | 8.0 | PVC | Open | | 89.98 | 0.57 | 2,776.19 | 2,776.14 | 0.19 | 0.05 |
| P-573 | 254.00 | 6.0 | PVC | Open | | 5.84 | 0.07 | 2,776.14 | 2,776.14 | 0.00 | 0.00 |
| P-574 | 400.00 | 8.0 | PVC | Open | | 79.28 | 0.51 | 2,776.14 | 2,776.08 | 0.15 | 0.06 |
| P-575 | 287.00 | 8.0 | PVC | Open | | 6.81 | 0.04 | 2,776.08 | 2,776.08 | 0.00 | 0.00 |

Title: INITIAL RUN

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Bentley Systems, Inc.

Haestad Methods Solution Center

Watertown, CT 06795 USA

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Diameter (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|---------------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-576 | 606.00 | 12.0 | PVC | Open | | 150.30 | 0.43 | 2,820.39 | 2,820.35 | 0.07 | 0.04 |
| P-577 | 326.00 | 12.0 | PVC | Open | | 150.30 | 0.43 | 2,820.35 | 2,820.32 | 0.07 | 0.02 |
| P-578 | 16.00 | 8.0 | PVC | Open | | 56.00 | 0.36 | 2,820.32 | 2,820.32 | 0.08 | 0.00 |
| P-579 | 125.00 | 12.0 | PVC | Open | | 94.30 | 0.27 | 2,820.32 | 2,820.32 | 0.03 | 0.00 |
| P-580 | 48.00 | 8.0 | PVC | Open | | -0.00 | 0.00 | 2,820.32 | 2,820.32 | 0.00 | 0.00 |
| P-581 | 307.00 | 12.0 | PVC | Open | | 66.75 | 0.19 | 2,820.32 | 2,820.32 | 0.02 | 0.00 |
| P-582 | 1,252.00 | 8.0 | PVC | Open | | 14.90 | 0.10 | 2,820.32 | 2,820.31 | 0.01 | 0.01 |
| P-583 | 906.00 | 8.0 | PVC | Open | | 12.22 | 0.08 | 2,820.32 | 2,820.31 | 0.01 | 0.00 |
| P-584 | 151.00 | 8.0 | PVC | Open | | 15.58 | 0.10 | 2,820.31 | 2,820.31 | 0.01 | 0.00 |
| P-585 | 259.00 | 12.0 | PVC | Open | | 44.80 | 0.13 | 2,820.32 | 2,820.31 | 0.01 | 0.00 |
| P-586 | 471.00 | 12.0 | PVC | Open | | 22.40 | 0.06 | 2,820.31 | 2,820.31 | 0.00 | 0.00 |
| P-588 | 320.00 | 8.0 | PVC | Open | | -13.92 | 0.09 | 2,777.71 | 2,777.71 | 0.01 | 0.00 |
| P-589 | 481.00 | 8.0 | PVC | Open | | -48.51 | 0.31 | 2,777.71 | 2,777.74 | 0.06 | 0.03 |
| P-590 | 480.00 | 8.0 | PVC | Open | | 6.81 | 0.04 | 2,777.71 | 2,777.71 | 0.00 | 0.00 |
| P-591 | 500.00 | 8.0 | PVC | Open | | 7.78 | 0.05 | 2,777.71 | 2,777.71 | 0.00 | 0.00 |
| P-592 | 334.00 | 8.0 | PVC | Open | | -22.24 | 0.14 | 2,777.70 | 2,777.71 | 0.02 | 0.01 |
| P-593 | 250.00 | 6.0 | PVC | Open | | 5.84 | 0.07 | 2,777.70 | 2,777.70 | 0.00 | 0.00 |
| P-594 | 832.00 | 8.0 | PVC | Open | | -40.08 | 0.26 | 2,777.70 | 2,777.74 | 0.04 | 0.04 |
| P-595 | 350.00 | 8.0 | PVC | Open | | -43.84 | 0.28 | 2,777.68 | 2,777.70 | 0.05 | 0.02 |
| P-596 | 325.00 | 8.0 | PVC | Open | | 6.83 | 0.04 | 2,777.71 | 2,777.71 | 0.00 | 0.00 |
| P-597 | 223.00 | 8.0 | PVC | Open | | 5.84 | 0.04 | 2,777.66 | 2,777.66 | 0.00 | 0.00 |
| P-598 | 460.00 | 8.0 | PVC | Open | | -47.21 | 0.30 | 2,777.71 | 2,777.74 | 0.06 | 0.03 |
| P-599 | 540.00 | 12.0 | PVC | Open | | 20.26 | 0.06 | 2,777.66 | 2,777.66 | 0.00 | 0.00 |
| P-600 | 660.00 | 8.0 | PVC | Open | | -36.68 | 0.23 | 2,777.66 | 2,777.68 | 0.04 | 0.02 |
| P-601 | 160.00 | 8.0 | PVC | Open | | -1.32 | 0.01 | 2,777.68 | 2,777.68 | 0.00 | 0.00 |
| P-602 | 120.00 | 6.0 | PVC | Open | | 3.89 | 0.04 | 2,777.68 | 2,777.68 | 0.00 | 0.00 |
| P-603 | 200.00 | 8.0 | PVC | Open | | 5.49 | 0.04 | 2,777.68 | 2,777.68 | 0.00 | 0.00 |
| P-604 | 375.00 | 8.0 | PVC | Open | | -53.33 | 0.34 | 2,777.68 | 2,777.71 | 0.07 | 0.03 |
| P-605 | 500.00 | 8.0 | PVC | Open | | -42.01 | 0.27 | 2,777.66 | 2,777.68 | 0.05 | 0.02 |
| P-606 | 466.00 | 8.0 | PVC | Open | | 2.25 | 0.01 | 2,772.60 | 2,772.60 | 0.00 | 0.00 |
| P-607 | 121.00 | 8.0 | PVC | Open | | 236.55 | 1.51 | 2,772.60 | 2,772.47 | 1.12 | 0.14 |
| P-608 | 308.00 | 8.0 | PVC | Open | | 219.94 | 1.40 | 2,772.47 | 2,772.17 | 0.97 | 0.30 |
| P-609 | 198.00 | 12.0 | PVC | Open | | 723.02 | 2.05 | 2,772.41 | 2,772.17 | 1.21 | 0.24 |
| P-610 | 199.00 | 8.0 | PVC | Open | | 62.97 | 0.40 | 2,776.29 | 2,776.27 | 0.10 | 0.02 |
| P-611 | 673.00 | 8.0 | PVC | Open | | 60.05 | 0.38 | 2,776.27 | 2,776.21 | 0.09 | 0.06 |
| P-612 | 91.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,776.17 | 2,776.17 | 0.00 | 0.00 |
| P-613 | 354.00 | 8.0 | PVC | Open | | 158.23 | 1.01 | 2,777.78 | 2,777.59 | 0.53 | 0.19 |
| P-614 | 739.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,777.16 | 2,777.16 | 0.00 | 0.00 |
| P-615 | 878.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,777.16 | 2,777.16 | 0.00 | 0.00 |
| P-616 | 642.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,777.16 | 2,777.16 | 0.00 | 0.00 |
| P-617 | 35.00 | 8.0 | PVC | Open | | 3.21 | 0.02 | 2,777.19 | 2,777.19 | 0.00 | 0.00 |
| P-618 | 246.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.76 | 2,779.76 | 0.00 | 0.00 |
| P-619 | 179.00 | 8.0 | PVC | Open | | -135.42 | 0.86 | 2,777.94 | 2,778.01 | 0.40 | 0.07 |
| P-620 | 215.00 | 6.0 | PVC | Open | | 3.89 | 0.04 | 2,777.58 | 2,777.58 | 0.00 | 0.00 |
| P-621 | 780.00 | 8.0 | PVC | Open | | 80.63 | 0.51 | 2,777.58 | 2,777.46 | 0.15 | 0.12 |
| P-622 | 123.00 | 6.0 | PVC | Open | | 1.95 | 0.02 | 2,777.46 | 2,777.46 | 0.00 | 0.00 |
| P-623 | 286.00 | 6.0 | PVC | Open | | 70.90 | 0.80 | 2,777.46 | 2,777.32 | 0.50 | 0.14 |
| P-624 | 160.00 | 6.0 | PVC | Open | | 2.92 | 0.03 | 2,777.32 | 2,777.32 | 0.00 | 0.00 |
| P-625 | 660.00 | 8.0 | PVC | Open | | 60.20 | 0.38 | 2,777.32 | 2,777.26 | 0.09 | 0.06 |
| P-626 | 225.00 | 8.0 | PVC | Open | | 169.01 | 1.08 | 2,777.26 | 2,777.12 | 0.60 | 0.13 |
| P-627 | 357.00 | 8.0 | PVC | Open | | 113.68 | 0.73 | 2,777.36 | 2,777.26 | 0.29 | 0.10 |

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Diameter (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|---------------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-628 | 114.00 | 6.0 | PVC | Open | | 2.92 | 0.03 | 2,777.36 | 2,777.36 | 0.00 | 0.00 |
| P-629 | 395.00 | 8.0 | PVC | Open | | 119.51 | 0.76 | 2,777.48 | 2,777.36 | 0.31 | 0.12 |
| P-630 | 97.00 | 6.0 | PVC | Open | | 1.95 | 0.02 | 2,777.48 | 2,777.48 | 0.00 | 0.00 |
| P-631 | 305.00 | 8.0 | PVC | Open | | 127.30 | 0.81 | 2,777.59 | 2,777.48 | 0.35 | 0.11 |
| P-632 | 1,280.00 | 8.0 | PVC | Open | | -17.31 | 0.11 | 2,777.58 | 2,777.59 | 0.01 | 0.01 |
| P-633 | 380.00 | 8.0 | PVC | Open | | 1.95 | 0.01 | 2,777.24 | 2,777.24 | 0.00 | 0.00 |
| P-634 | 316.00 | 8.0 | PVC | Open | | -86.82 | 0.55 | 2,777.95 | 2,778.00 | 0.18 | 0.06 |
| P-635 | 230.00 | 8.0 | PVC | Open | | -70.06 | 0.45 | 2,778.00 | 2,778.03 | 0.12 | 0.03 |
| P-636 | 60.00 | 8.0 | PVC | Open | | -110.20 | 0.70 | 2,778.03 | 2,778.05 | 0.27 | 0.02 |
| P-637 | 602.00 | 8.0 | PVC | Open | | -30.84 | 0.20 | 2,778.01 | 2,778.03 | 0.03 | 0.02 |
| P-638 | 650.00 | 8.0 | PVC | Open | | -23.05 | 0.15 | 2,778.00 | 2,778.01 | 0.02 | 0.01 |
| P-639 | 346.00 | 8.0 | PVC | Open | | -204.61 | 1.31 | 2,778.85 | 2,779.14 | 0.85 | 0.29 |
| P-640 | 269.00 | 8.0 | PVC | Open | | -72.01 | 0.46 | 2,778.85 | 2,778.88 | 0.12 | 0.03 |
| P-641 | 215.00 | 8.0 | PVC | Open | | -44.68 | 0.29 | 2,778.88 | 2,778.89 | 0.05 | 0.01 |
| P-642 | 245.00 | 8.0 | PVC | Open | | -57.68 | 0.37 | 2,778.89 | 2,778.91 | 0.08 | 0.02 |
| P-643 | 325.00 | 8.0 | PVC | Open | | -79.50 | 0.51 | 2,778.91 | 2,778.96 | 0.15 | 0.05 |
| P-644 | 190.00 | 8.0 | PVC | Open | | -149.63 | 0.96 | 2,778.96 | 2,779.05 | 0.48 | 0.09 |
| P-645 | 503.00 | 8.0 | PVC | Open | | -27.33 | 0.17 | 2,778.88 | 2,778.89 | 0.02 | 0.01 |
| P-646 | 268.00 | 8.0 | PVC | Open | | -46.70 | 0.30 | 2,778.89 | 2,778.91 | 0.06 | 0.02 |
| P-647 | 349.00 | 8.0 | PVC | Open | | -44.34 | 0.28 | 2,778.91 | 2,778.93 | 0.05 | 0.02 |
| P-648 | 172.00 | 8.0 | PVC | Open | | 15.09 | 0.10 | 2,778.93 | 2,778.93 | 0.01 | 0.00 |
| P-649 | 299.00 | 8.0 | PVC | Open | | 70.13 | 0.45 | 2,778.96 | 2,778.93 | 0.12 | 0.04 |
| P-650 | 355.00 | 8.0 | PVC | Open | | 21.82 | 0.14 | 2,778.91 | 2,778.91 | 0.02 | 0.01 |
| P-651 | 265.00 | 8.0 | PVC | Open | | 4.95 | 0.03 | 2,778.89 | 2,778.89 | 0.00 | 0.00 |
| P-652 | 260.00 | 8.0 | PVC | Open | | -28.11 | 0.18 | 2,779.05 | 2,779.06 | 0.02 | 0.01 |
| P-653 | 432.00 | 8.0 | PVC | Open | | 19.10 | 0.12 | 2,779.06 | 2,779.05 | 0.01 | 0.01 |
| P-654 | 153.00 | 8.0 | PVC | Open | | -47.21 | 0.30 | 2,779.06 | 2,779.07 | 0.06 | 0.01 |
| P-655 | 154.00 | 8.0 | PVC | Open | | 121.52 | 0.78 | 2,779.10 | 2,779.05 | 0.32 | 0.05 |
| P-656 | 96.00 | 8.0 | PVC | Open | | 204.34 | 1.30 | 2,779.18 | 2,779.10 | 0.85 | 0.08 |
| P-657 | 191.00 | 8.0 | PVC | Open | | 95.25 | 0.61 | 2,779.22 | 2,779.18 | 0.21 | 0.04 |
| P-658 | 46.00 | 8.0 | PVC | Open | | -24.40 | 0.16 | 2,779.22 | 2,779.22 | 0.02 | 0.00 |
| P-659 | 352.00 | 8.0 | PVC | Open | | 119.65 | 0.76 | 2,779.33 | 2,779.22 | 0.31 | 0.11 |
| P-660 | 566.00 | 8.0 | PVC | Open | | 109.09 | 0.70 | 2,779.33 | 2,779.18 | 0.27 | 0.15 |
| P-661 | 219.00 | 8.0 | PVC | Open | | 228.74 | 1.46 | 2,779.56 | 2,779.33 | 1.05 | 0.23 |
| P-662 | 175.00 | 8.0 | PVC | Open | | 3.89 | 0.02 | 2,779.22 | 2,779.22 | 0.00 | 0.00 |
| P-663 | 197.00 | 8.0 | PVC | Open | | 12.26 | 0.08 | 2,779.07 | 2,779.07 | 0.01 | 0.00 |
| P-664 | 259.00 | 8.0 | PVC | Open | | 75.04 | 0.48 | 2,779.10 | 2,779.07 | 0.13 | 0.03 |
| P-665 | 637.00 | 8.0 | PVC | Open | | -46.62 | 0.30 | 2,823.18 | 2,823.21 | 0.06 | 0.04 |
| P-666 | 120.00 | 8.0 | PVC | Open | | 34.43 | 0.22 | 2,823.18 | 2,823.17 | 0.03 | 0.00 |
| P-667 | 1,504.00 | 8.0 | PVC | Open | | -6.96 | 0.04 | 2,823.17 | 2,823.18 | 0.00 | 0.00 |
| P-668 | 167.00 | 6.0 | PVC | Open | | 4.86 | 0.06 | 2,823.17 | 2,823.17 | 0.00 | 0.00 |
| P-669 | 251.00 | 8.0 | PVC | Open | | 12.50 | 0.08 | 2,823.18 | 2,823.17 | 0.01 | 0.00 |
| P-670 | 104.00 | 6.0 | PVC | Open | | 3.89 | 0.04 | 2,823.18 | 2,823.18 | 0.00 | 0.00 |
| P-671 | 231.00 | 8.0 | PVC | Open | | 17.36 | 0.11 | 2,823.18 | 2,823.18 | 0.01 | 0.00 |
| P-672 | 341.00 | 8.0 | PVC | Open | | 11.31 | 0.07 | 2,823.18 | 2,823.18 | 0.01 | 0.00 |
| P-673 | 337.00 | 8.0 | PVC | Open | | 32.56 | 0.21 | 2,823.19 | 2,823.18 | 0.03 | 0.01 |
| P-674 | 285.00 | 8.0 | PVC | Open | | 5.84 | 0.04 | 2,823.19 | 2,823.19 | 0.00 | 0.00 |
| P-675 | 199.00 | 6.0 | PVC | Open | | 5.84 | 0.07 | 2,823.19 | 2,823.19 | 0.00 | 0.00 |
| P-676 | 283.00 | 8.0 | PVC | Open | | 42.29 | 0.27 | 2,823.20 | 2,823.19 | 0.05 | 0.01 |
| P-677 | 397.00 | 8.0 | PVC | Open | | -24.93 | 0.16 | 2,823.15 | 2,823.16 | 0.02 | 0.01 |
| P-678 | 865.00 | 8.0 | PVC | Open | | -3.68 | 0.02 | 2,823.15 | 2,823.15 | 0.00 | 0.00 |

Title: INITIAL RUN

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01/18/07 11:18:59 AM Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA +1-203-755-1666

Project Engineer: DMC
WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Diameter (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|---------------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-679 | 123.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,823.15 | 2,823.15 | 0.00 | 0.00 |
| P-680 | 231.00 | 8.0 | PVC | Open | | 8.97 | 0.06 | 2,823.15 | 2,823.15 | 0.00 | 0.00 |
| P-681 | 142.00 | 8.0 | PVC | Open | | 19.83 | 0.13 | 2,823.16 | 2,823.15 | 0.01 | 0.00 |
| P-682 | 1,166.00 | 8.0 | PVC | Open | | 1.13 | 0.01 | 2,823.15 | 2,823.15 | 0.00 | 0.00 |
| P-683 | 818.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,820.57 | 2,820.57 | 0.00 | 0.00 |
| P-684 | 325.00 | 12.0 | PVC | Open | | 339.78 | 0.96 | 2,778.31 | 2,778.22 | 0.29 | 0.10 |
| P-685 | 51.00 | 8.0 | PVC | Open | | 22.40 | 0.14 | 2,820.31 | 2,820.31 | 0.01 | 0.00 |
| P-686 | 53.00 | 8.0 | PVC | Open | | 22.40 | 0.14 | 2,820.31 | 2,820.31 | 0.02 | 0.00 |
| P-687 | 22.00 | 6.0 | PVC | Open | | 758.42 | 8.61 | 2,780.40 | 2,779.40 | 45.09 | 0.99 |
| P-688 | 146.00 | 12.0 | PVC | Open | | 467.11 | 1.33 | 2,780.40 | 2,780.32 | 0.53 | 0.08 |
| P-689 | 70.00 | 12.0 | PVC | Open | | 459.03 | 1.30 | 2,780.00 | 2,779.96 | 0.51 | 0.04 |
| P-691 | 524.00 | 8.0 | PVC | Open | | -35.34 | 0.23 | 2,779.40 | 2,779.42 | 0.03 | 0.02 |
| P-692 | 113.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,779.42 | 2,779.42 | 0.00 | 0.00 |
| P-693 | 166.00 | 6.0 | PVC | Open | | 0.55 | 0.01 | 2,780.32 | 2,780.32 | 0.00 | 0.00 |
| P-694 | 689.00 | 8.0 | PVC | Open | | -35.60 | 0.23 | 2,779.42 | 2,779.45 | 0.04 | 0.02 |
| P-695 | 356.00 | 12.0 | PVC | Open | | 795.35 | 2.26 | 2,779.96 | 2,779.45 | 1.45 | 0.52 |
| P-696 | 63.00 | 12.0 | PVC | Open | | 759.74 | 2.16 | 2,779.45 | 2,779.36 | 1.33 | 0.08 |
| P-697 | 126.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,779.36 | 2,779.36 | 0.00 | 0.00 |
| P-698 | 248.00 | 12.0 | PVC | Open | | 759.74 | 2.16 | 2,779.36 | 2,779.03 | 1.33 | 0.33 |
| P-699 | 173.00 | 8.0 | PVC | Open | | 15.48 | 0.10 | 2,779.03 | 2,779.03 | 0.01 | 0.00 |
| P-700 | 11.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.03 | 2,779.03 | 0.00 | 0.00 |
| P-701 | 280.00 | 8.0 | PVC | Open | | 15.48 | 0.10 | 2,779.03 | 2,779.03 | 0.01 | 0.00 |
| P-702 | 156.00 | 8.0 | PVC | Open | | 9.84 | 0.06 | 2,779.03 | 2,779.03 | 0.00 | 0.00 |
| P-703 | 299.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.03 | 2,779.03 | 0.00 | 0.00 |
| P-704 | 279.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.03 | 2,779.03 | 0.00 | 0.00 |
| P-705 | 582.00 | 12.0 | PVC | Open | | 744.26 | 2.11 | 2,779.03 | 2,778.29 | 1.28 | 0.74 |
| P-706 | 10.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,778.29 | 2,778.29 | 0.00 | 0.00 |
| P-707 | 1,401.00 | 12.0 | PVC | Open | | 741.39 | 2.10 | 2,778.29 | 2,776.52 | 1.27 | 1.77 |
| P-708 | 201.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,776.52 | 2,776.52 | 0.00 | 0.00 |
| P-709 | 14.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,776.52 | 2,776.52 | 0.00 | 0.00 |
| P-710 | 132.00 | 12.0 | PVC | Open | | 739.37 | 2.10 | 2,776.52 | 2,776.35 | 1.26 | 0.17 |
| P-711 | 335.00 | 12.0 | PVC | Open | | 346.76 | 0.98 | 2,776.08 | 2,775.98 | 0.30 | 0.10 |
| P-712 | 323.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,775.98 | 2,775.98 | 0.00 | 0.00 |
| P-713 | 228.00 | 12.0 | PVC | Open | | 346.76 | 0.98 | 2,775.98 | 2,775.91 | 0.30 | 0.07 |
| P-714 | 8.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,775.91 | 2,775.91 | 0.00 | 0.00 |
| P-715 | 163.00 | 12.0 | PVC | Open | | 346.76 | 0.98 | 2,775.91 | 2,775.86 | 0.30 | 0.05 |
| P-716 | 160.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,775.86 | 2,775.86 | 0.00 | 0.00 |
| P-718 | 620.00 | 8.0 | PVC | Open | | 110.65 | 0.71 | 2,775.72 | 2,775.55 | 0.27 | 0.17 |
| P-719 | 471.00 | 12.0 | PVC | Open | | -1,234.66 | 3.50 | 2,783.32 | 2,784.90 | 3.36 | 1.58 |
| P-720 | 153.00 | 12.0 | PVC | Open | | -1,234.66 | 3.50 | 2,784.90 | 2,785.41 | 3.36 | 0.51 |
| P-721 | 14.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,785.41 | 2,785.41 | 0.00 | 0.00 |
| P-723 | 141.00 | 12.0 | PVC | Open | | -1,258.18 | 3.57 | 2,789.07 | 2,789.56 | 3.48 | 0.49 |
| P-724 | 320.00 | 12.0 | PVC | Open | | -1,281.81 | 3.64 | 2,789.56 | 2,790.72 | 3.61 | 1.15 |
| P-725 | 502.00 | 12.0 | PVC | Open | | 23.52 | 0.07 | 2,789.56 | 2,789.56 | 0.00 | 0.00 |
| P-726 | 214.00 | 12.0 | PVC | Open | | 23.52 | 0.07 | 2,789.56 | 2,789.56 | 0.00 | 0.00 |
| P-727 | 372.00 | 8.0 | PVC | Open | | 77.20 | 0.49 | 2,776.87 | 2,776.82 | 0.14 | 0.05 |
| P-728 | 156.00 | 8.0 | PVC | Open | | 29.12 | 0.19 | 2,776.82 | 2,776.81 | 0.03 | 0.00 |
| P-729 | 708.00 | 8.0 | PVC | Open | | 34.46 | 0.22 | 2,776.82 | 2,776.79 | 0.03 | 0.02 |
| P-730 | 797.00 | 8.0 | PVC | Open | | 20.83 | 0.13 | 2,777.01 | 2,777.00 | 0.01 | 0.01 |
| P-731 | 160.00 | 8.0 | PVC | Open | | 59.62 | 0.38 | 2,777.02 | 2,777.01 | 0.09 | 0.01 |
| P-732 | 48.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,780.84 | 2,780.84 | 0.00 | 0.00 |

Title: INITIAL RUN

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01/18/07 11:18:59 AM Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA +1-203-755-1666

Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Diameter (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|---------------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-733 | 425.00 | 8.0 | PVC | Open | | 24.90 | 0.16 | 2,777.89 | 2,777.88 | 0.02 | 0.01 |
| P-735 | 62.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,779.38 | 2,779.38 | 0.00 | 0.00 |
| P-736 | 65.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,779.38 | 2,779.38 | 0.00 | 0.00 |
| P-737 | 33.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.38 | 2,779.38 | 0.00 | 0.00 |
| P-738 | 136.00 | 8.0 | PVC | Open | | -262.27 | 1.67 | 2,779.56 | 2,779.75 | 1.36 | 0.18 |
| P-739 | 392.00 | 12.0 | PVC | Open | | -268.00 | 0.76 | 2,777.80 | 2,777.87 | 0.19 | 0.07 |
| P-740 | 14.00 | 8.0 | PVC | Open | | 34.34 | 0.22 | 2,777.80 | 2,777.80 | 0.03 | 0.00 |
| P-741 | 414.00 | 12.0 | PVC | Open | | -233.66 | 0.66 | 2,777.74 | 2,777.80 | 0.15 | 0.06 |
| P-742 | 275.00 | 8.0 | PVC | Open | | 123.90 | 0.79 | 2,777.87 | 2,777.78 | 0.34 | 0.09 |
| P-743 | 120.00 | 8.0 | PVC | Open | | -38.86 | 0.25 | 2,777.88 | 2,777.89 | 0.04 | 0.00 |
| P-744 | 43.00 | 12.0 | PVC | Open | | 664.72 | 1.89 | 2,822.60 | 2,822.56 | 1.03 | 0.04 |
| P-745 | 171.00 | 12.0 | PVC | Open | | -1,281.81 | 3.64 | 2,790.72 | 2,791.33 | 3.61 | 0.62 |
| P-747 | 1,566.00 | 12.0 | PVC | Open | | 1,762.28 | 5.00 | 2,791.29 | 2,780.84 | 6.67 | 10.45 |
| P-749 | 50.00 | 96.0 | PVC | Open | | 1,415.75 | 0.06 | 2,422.00 | 2,422.00 | 0.00 | 0.00 |
| P-751 | 37.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,780.84 | 2,780.84 | 0.00 | 0.00 |
| P-752 | 42.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,780.84 | 2,780.84 | 0.00 | 0.00 |
| P-753 | 697.00 | 8.0 | PVC | Open | | -11.02 | 0.07 | 2,777.66 | 2,777.66 | 0.00 | 0.00 |
| P-754 | 420.00 | 6.0 | PVC | Open | | 11.42 | 0.13 | 2,777.93 | 2,777.92 | 0.02 | 0.01 |
| P-755 | 452.00 | 6.0 | PVC | Open | | 16.16 | 0.18 | 2,777.73 | 2,777.72 | 0.04 | 0.02 |
| P-756 | 895.00 | 8.0 | PVC | Open | | 0.30 | 0.00 | 2,825.49 | 2,825.49 | 0.00 | 0.00 |
| P-757 | 777.00 | 8.0 | PVC | Open | | 4.14 | 0.03 | 2,825.50 | 2,825.49 | 0.00 | 0.00 |
| P-758 | 967.00 | 8.0 | PVC | Open | | 10.93 | 0.07 | 2,825.49 | 2,825.49 | 0.00 | 0.00 |
| P-759 | 920.00 | 8.0 | PVC | Open | | 101.82 | 0.65 | 2,776.58 | 2,776.37 | 0.23 | 0.22 |
| P-760 | 2,830.00 | 12.0 | PVC | Open | | 136.75 | 0.39 | 2,777.65 | 2,777.49 | 0.06 | 0.16 |
| P-762 | 30.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,770.64 | 2,770.64 | 0.00 | 0.00 |
| P-763 | 833.00 | 12.0 | PVC | Open | | -16.61 | 0.05 | 2,777.19 | 2,777.19 | 0.00 | 0.00 |
| P-764 | 330.00 | 8.0 | PVC | Open | | 401.90 | 2.57 | 2,770.64 | 2,769.63 | 3.04 | 1.00 |
| P-765 | 140.00 | 6.0 | Steel | Open | | 435.36 | 4.94 | 2,543.00 | 2,541.14 | 13.29 | 1.86 |
| P-766 | 2.00 | 12.0 | PVC | Open | | 339.78 | 0.96 | 2,820.57 | 2,820.57 | 0.24 | 0.00 |
| P-767 | 356.00 | 8.0 | PVC | Open | | 402.52 | 2.57 | 2,771.72 | 2,770.64 | 3.05 | 1.09 |
| P-768 | 239.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,769.00 | 2,769.00 | 0.00 | 0.00 |
| P-769 | 2.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,777.19 | 2,777.19 | 0.00 | 0.00 |
| P-844 | 254.00 | 12.0 | PVC | Open | | 653.95 | 1.86 | 2,822.14 | 2,821.89 | 1.00 | 0.25 |
| P-845 | 230.00 | 12.0 | PVC | Open | | 655.32 | 1.86 | 2,822.37 | 2,822.14 | 1.00 | 0.23 |
| P-846 | 188.00 | 12.0 | PVC | Open | | 656.69 | 1.86 | 2,822.56 | 2,822.37 | 1.01 | 0.19 |
| P-847 | 383.00 | 8.0 | PVC | Open | | 2.04 | 0.01 | 2,821.89 | 2,821.89 | 0.00 | 0.00 |
| P-848 | 176.00 | 8.0 | PVC | Open | | 1.37 | 0.01 | 2,822.14 | 2,822.14 | 0.00 | 0.00 |
| P-849 | 168.00 | 8.0 | PVC | Open | | 1.37 | 0.01 | 2,822.37 | 2,822.37 | 0.00 | 0.00 |
| P-900 | 587.00 | 12.0 | PVC | Open | | 1,320.21 | 3.75 | 2,830.74 | 2,828.50 | 3.82 | 2.24 |
| P-901 | 2.00 | 8.0 | Steel | Open | | 546.34 | 3.49 | 2,778.60 | 2,778.59 | 4.88 | 0.01 |
| P-904 | 143.00 | 12.0 | PVC | Open | | -0.00 | 0.00 | 2,777.19 | 2,777.19 | 0.00 | 0.00 |
| P-906 | 60.00 | 12.0 | PVC | Open | | -352.97 | 1.00 | 2,777.21 | 2,777.23 | 0.32 | 0.02 |
| P-907 | 1,798.00 | 8.0 | PVC | Open | | 1,415.75 | 9.04 | 2,853.83 | 2,791.29 | 34.79 | 62.54 |
| P-950 | 171.00 | 8.0 | PVC | Open | | 70.13 | 0.45 | 2,777.19 | 2,777.17 | 0.12 | 0.02 |
| P-954 | 23.00 | 64.0 | PVC | Open | | -298.45 | 0.03 | 2,574.50 | 2,574.50 | 0.00 | 0.00 |
| P-958 | 76.00 | 8.0 | PVC | Open | | -14.33 | 0.09 | 2,776.37 | 2,776.37 | 0.01 | 0.00 |
| P-959 | 345.00 | 8.0 | PVC | Open | | 116.15 | 0.74 | 2,776.37 | 2,776.27 | 0.30 | 0.10 |
| P-960 | 37.00 | 8.0 | PVC | Open | | 112.25 | 0.72 | 2,776.27 | 2,776.26 | 0.28 | 0.01 |
| P-964 | 1,139.00 | 12.0 | PVC | Open | | 325.47 | 0.92 | 2,775.86 | 2,775.55 | 0.27 | 0.31 |
| P-965 | 21.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,777.20 | 2,777.20 | 0.00 | 0.00 |
| P-968 | 1,673.00 | 8.0 | PVC | Open | | 0.62 | 0.00 | 2,770.64 | 2,770.64 | 0.00 | 0.00 |

Title: INITIAL RUN

Project Engineer: DMC

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Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Diameter (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|--------|-------------|---------------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-971 | 601.00 | 6.0 | PVC | Open | | -30.37 | 0.34 | 2,777.72 | 2,777.78 | 0.11 | 0.06 |
| P-972 | 79.00 | 6.0 | PVC | Open | | 2.81 | 0.03 | 2,777.72 | 2,777.72 | 0.00 | 0.00 |
| P-973 | 180.00 | 8.0 | PVC | Open | | -27.56 | 0.18 | 2,777.72 | 2,777.72 | 0.02 | 0.00 |
| P-974 | 904.00 | 8.0 | PVC | Open | | 11.67 | 0.07 | 2,777.79 | 2,777.79 | 0.01 | 0.00 |
| P-975 | 179.00 | 6.0 | PVC | Open | | 11.67 | 0.13 | 2,777.79 | 2,777.78 | 0.02 | 0.00 |
| P-976 | 344.00 | 6.0 | PVC | Open | | 9.73 | 0.11 | 2,777.73 | 2,777.73 | 0.01 | 0.00 |
| P-977 | 178.00 | 6.0 | PVC | Open | | 9.73 | 0.11 | 2,777.73 | 2,777.73 | 0.02 | 0.00 |
| P-978 | 629.00 | 8.0 | PVC | Open | | 402.52 | 2.57 | 2,773.64 | 2,771.72 | 3.05 | 1.92 |
| P-979 | 592.00 | 8.0 | PVC | Open | | 414.84 | 2.65 | 2,775.55 | 2,773.64 | 3.23 | 1.91 |
| P-980 | 752.00 | 8.0 | PVC | Open | | 401.90 | 2.57 | 2,769.59 | 2,767.31 | 3.04 | 2.29 |
| P-981 | 7.00 | 8.0 | PVC | Open | | 1,320.21 | 8.43 | 2,767.31 | 2,767.09 | 30.34 | 0.21 |
| P-982 | 100.00 | 12.0 | PVC | Open | | 401.90 | 1.14 | 2,769.63 | 2,769.59 | 0.40 | 0.04 |
| P-984 | 126.00 | 12.0 | PVC | Open | | 413.91 | 1.17 | 2,780.01 | 2,779.96 | 0.42 | 0.05 |
| P-985 | 103.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,780.01 | 2,780.01 | 0.00 | 0.00 |
| P-986 | 207.00 | 8.0 | PVC | Open | | 0.58 | 0.00 | 2,780.08 | 2,780.08 | 0.00 | 0.00 |
| P-987 | 32.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,778.22 | 2,778.22 | 0.00 | 0.00 |
| P-988 | 415.00 | 8.0 | PVC | Open | | 67.52 | 0.43 | 2,780.13 | 2,780.08 | 0.11 | 0.05 |
| P-989 | 710.00 | 8.0 | PVC | Open | | 161.40 | 1.03 | 2,776.08 | 2,775.69 | 0.55 | 0.39 |
| P-990 | 846.00 | 12.0 | PVC | Open | | -536.74 | 1.52 | 2,780.26 | 2,780.84 | 0.69 | 0.58 |
| P-991 | 19.00 | 8.0 | PVC | Open | | 161.40 | 1.03 | 2,775.69 | 2,775.68 | 0.55 | 0.01 |
| P-992 | 269.00 | 12.0 | PVC | Open | | -214.08 | 0.61 | 2,780.22 | 2,780.26 | 0.13 | 0.03 |
| P-993 | 340.00 | 12.0 | PVC | Open | | -214.08 | 0.61 | 2,780.18 | 2,780.22 | 0.12 | 0.04 |
| P-994 | 67.00 | 12.0 | PVC | Open | | -214.08 | 0.61 | 2,780.17 | 2,780.18 | 0.13 | 0.01 |
| P-995 | 230.00 | 12.0 | PVC | Open | | -104.32 | 0.30 | 2,780.16 | 2,780.17 | 0.03 | 0.01 |
| P-996 | 172.00 | 12.0 | PVC | Open | | -104.32 | 0.30 | 2,780.16 | 2,780.16 | 0.03 | 0.01 |
| P-997 | 147.00 | 8.0 | PVC | Open | | 67.52 | 0.43 | 2,780.16 | 2,780.14 | 0.11 | 0.02 |
| P-998 | 54.00 | 8.0 | PVC | Open | | -12.49 | 0.08 | 2,780.15 | 2,780.16 | 0.00 | 0.00 |
| P-999 | 190.00 | 12.0 | PVC | Open | | -80.01 | 0.23 | 2,780.16 | 2,780.16 | 0.02 | 0.00 |
| P-1000 | 80.00 | 12.0 | PVC | Open | | 24.31 | 0.07 | 2,780.16 | 2,780.16 | 0.00 | 0.00 |
| P-1001 | 141.00 | 12.0 | PVC | Open | | 24.31 | 0.07 | 2,780.16 | 2,780.16 | 0.00 | 0.00 |
| P-1002 | 262.00 | 12.0 | PVC | Open | | 24.31 | 0.07 | 2,780.16 | 2,780.16 | 0.00 | 0.00 |
| P-1003 | 11.00 | 12.0 | PVC | Open | | 24.31 | 0.07 | 2,780.16 | 2,780.16 | 0.00 | 0.00 |
| P-1005 | 258.00 | 12.0 | PVC | Open | | 346.97 | 0.98 | 2,780.16 | 2,780.08 | 0.30 | 0.08 |
| P-1006 | 84.00 | 12.0 | PVC | Open | | 322.66 | 0.92 | 2,780.26 | 2,780.23 | 0.27 | 0.02 |
| P-1007 | 290.00 | 12.0 | PVC | Open | | 322.66 | 0.92 | 2,780.23 | 2,780.16 | 0.27 | 0.08 |
| P-1008 | 716.00 | 8.0 | PVC | Open | | 27.62 | 0.18 | 2,823.17 | 2,823.16 | 0.02 | 0.02 |
| P-1012 | 194.00 | 8.0 | PVC | Open | | 113.01 | 0.72 | 2,777.12 | 2,777.07 | 0.28 | 0.05 |
| P-1013 | 158.00 | 8.0 | PVC | Open | | 115.62 | 0.74 | 2,777.07 | 2,777.02 | 0.30 | 0.05 |
| P-1014 | 443.00 | 8.0 | PVC | Open | | 9.21 | 0.06 | 2,776.87 | 2,776.87 | 0.00 | 0.00 |
| P-1015 | 162.00 | 8.0 | PVC | Open | | 9.21 | 0.06 | 2,776.87 | 2,776.87 | 0.00 | 0.00 |
| P-1016 | 1,013.00 | 8.0 | PVC | Open | | -2.62 | 0.02 | 2,777.07 | 2,777.07 | 0.00 | 0.00 |
| P-1018 | 2,372.00 | 8.0 | PVC | Open | | -2.62 | 0.02 | 2,777.07 | 2,777.07 | 0.00 | 0.00 |
| P-1025 | 64.00 | 12.0 | PVC | Open | | 1,651.86 | 4.69 | 2,791.88 | 2,791.50 | 5.89 | 0.38 |
| P-1026 | 50.00 | 96.0 | PVC | Open | | -1,651.86 | 0.07 | 2,422.00 | 2,422.00 | 0.00 | 0.00 |
| P-1027 | 46.00 | 12.0 | PVC | Open | | -1,281.81 | 3.64 | 2,791.33 | 2,791.50 | 3.61 | 0.17 |
| P-1029 | 716.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,775.98 | 2,775.98 | 0.00 | 0.00 |
| P-1030 | 229.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,775.98 | 2,775.98 | 0.00 | 0.00 |
| P-1031 | 211.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,775.98 | 2,775.98 | 0.00 | 0.00 |
| P-1032 | 536.00 | 8.0 | PVC | Open | | -34.33 | 0.22 | 2,777.78 | 2,777.80 | 0.03 | 0.02 |
| P-1034 | 1,051.00 | 12.0 | PVC | Open | | -1,258.18 | 3.57 | 2,785.41 | 2,789.07 | 3.48 | 3.66 |
| P-1035 | 20.00 | 12.0 | PVC | Open | | 370.05 | 1.05 | 2,791.50 | 2,791.49 | 0.34 | 0.01 |

Title: INITIAL RUN

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Project Engineer: DMC
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Scenario: 2026 WELL 4 OFF
Fire Flow Analysis
Pipe Report

| Label | Length (ft) | Diameter (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|--------|-------------|---------------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-1036 | 1,271.00 | 14.0 | PVC | Open | | 370.05 | 0.77 | 2,791.49 | 2,791.29 | 0.16 | 0.20 |

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Pump Report

| Label | Discharge (gpm) | Control Status | Elevation (ft) | Intake Pump Grade (ft) | Pump Head (ft) | Discharge Pump Grade (ft) | Calculated Water Power (Hp) |
|-------------|-----------------|----------------------|----------------|------------------------|----------------|---------------------------|-----------------------------|
| PMP-1 | 546.34 | Fixed Speed Override | 2,534.00 | 2,534.00 | 244.60 | 2,778.60 | 33.74 |
| PMP-2 | 435.36 | On | 2,543.00 | 2,541.14 | 71.41 | 2,612.55 | 7.85 |
| PMP-2.1 | 135.45 | On | 2,610.00 | 2,610.99 | 167.75 | 2,778.74 | 5.74 |
| PMP-2.2 | 353.76 | On | 2,610.00 | 2,610.94 | 167.94 | 2,778.88 | 15.00 |
| PMP-2.3 | 0.00 | Off | 2,610.00 | 2,611.00 | 0.00 | 2,778.70 | 0.00 |
| PMP-3 | 298.45 | On | 2,624.50 | 2,574.50 | 203.95 | 2,778.45 | 15.37 |
| PMP-4 | 0.00 | Off | 2,399.00 | 2,419.00 | 0.00 | 2,777.19 | 0.00 |
| PMP-6 | 352.97 | On | 2,473.50 | 2,493.50 | 283.73 | 2,777.23 | 25.28 |
| PMP-7 | 1,415.75 | Fixed Speed Override | 2,372.00 | 2,422.00 | 431.83 | 2,853.83 | 154.35 |
| PMP-8 | 1,651.86 | On | 2,567.00 | 2,422.00 | 369.88 | 2,791.88 | 154.26 |
| PMP-Booster | 1,320.21 | On | 2,640.00 | 2,767.09 | 63.65 | 2,830.74 | 21.22 |

Scenario: 2026 WELL 4 OFF

Fire Flow Analysis

Tank Report

| Label | Base Elevation (ft) | Minimum Elevation (ft) | Initial HGL (ft) | Maximum Elevation (ft) | Inactive Volume (gal) | Tank Diameter (ft) | Inflow (gpm) | Current Status | Calculated Hydraulic Grade (ft) | Calculated Percent Full (%) |
|-------|---------------------|------------------------|------------------|------------------------|-----------------------|--------------------|--------------|----------------|---------------------------------|-----------------------------|
| T-1 | 2,610.00 | 2,610.50 | 2,611.00 | 2,618.00 | 0.00 | N/A | -53.84 | Draining | 2,611.00 | 6.7 |

Scenario: 2026 WELL 4 OFF

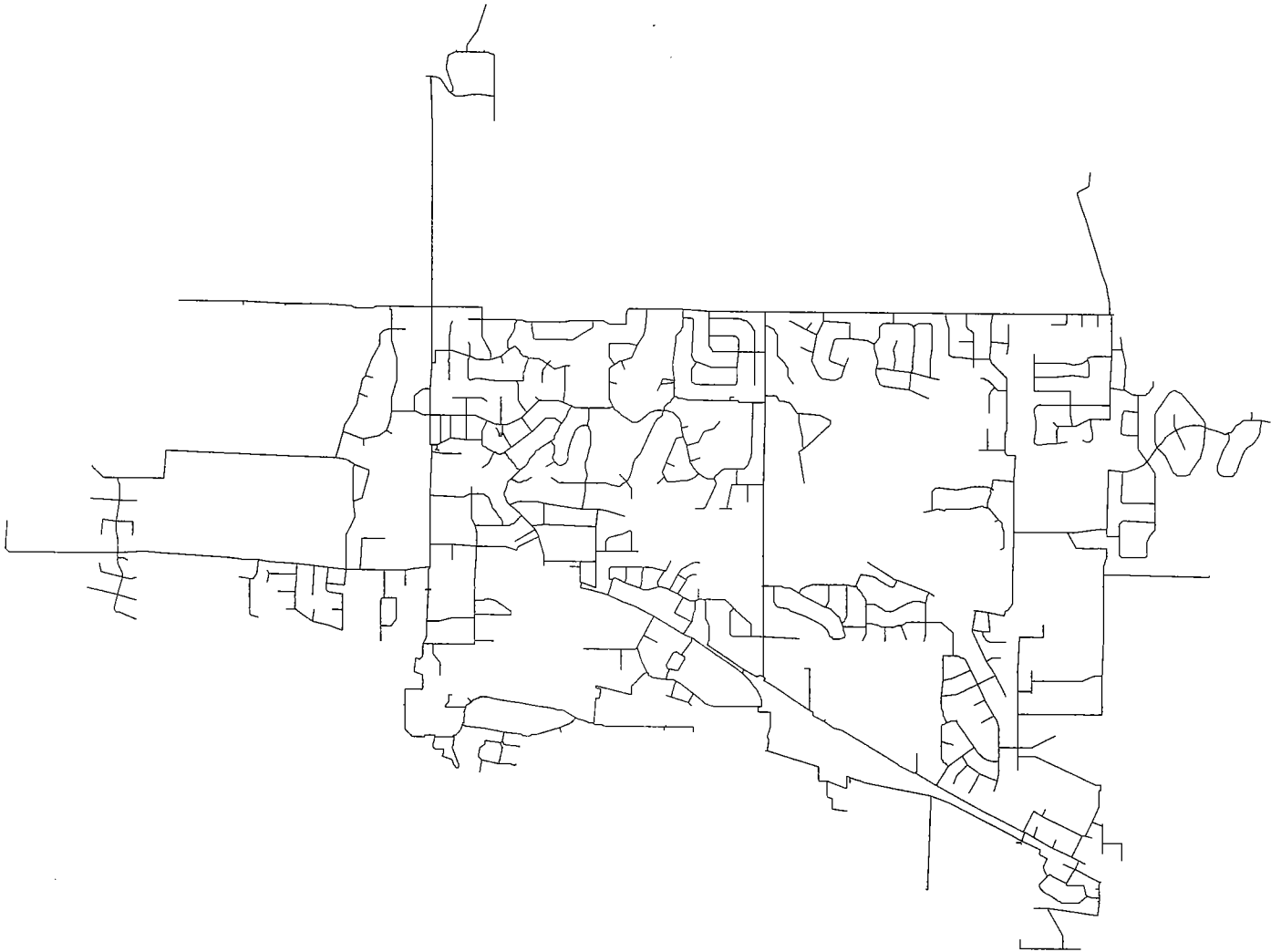
Fire Flow Analysis

Valve Report

| Label | Elevation (ft) | Diameter (in) | Control Status | Discharge (gpm) | From HGL (ft) | To HGL (ft) | Headloss (ft) | Calculated Pressure Setting (psi) |
|------------------------|----------------|---------------|----------------|-----------------|---------------|-------------|---------------|-----------------------------------|
| FCV-2-Hwy 55 | 2,602.00 | 12.0 | Closed | 0.00 | 2,820.35 | 2,769.00 | 0.00 | |
| FCV-5 Southhampton | 2,652.00 | 8.0 | Closed | 0.00 | 2,778.22 | 2,820.57 | 0.00 | |
| FCV-6 GREAT SKY Wy | 2,569.50 | 12.0 | Inactive | -0.00 | 2,777.20 | 2,777.20 | 0.00 | |
| TCV-3-Horse Shoe Bend | 2,620.00 | 8.0 | Throttling | 402.52 | 2,771.72 | 2,771.72 | 0.00 | |
| PSV-1 Floating Feather | 2,653.00 | 12.0 | Throttling | 339.78 | 2,820.57 | 2,778.31 | 42.26 | 72.50 |
| TCV-4-State at Well 4 | 2,565.00 | 12.0 | Closed | 0.00 | 2,779.29 | 2,777.19 | 0.00 | |
| PSV-Gladestone | 2,572.00 | 6.0 | Inactive | 161.40 | 2,775.69 | 2,775.69 | 0.00 | 62.83 |
| PSV-2 | 2,567.00 | 10.0 | Inactive | 370.05 | 2,791.49 | 2,791.49 | 0.00 | 65.00 |

2026 Scenario Well #6 Off

Scenario: 2026 WELL 6 OFF



Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-1 | false | 4.69 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-2 | false | 10.75 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-3 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-4 | true | 1.49 | 1,500.00 | 1,501.49 | 84.02 | J-981 | 20.00 | 3,759.96 |
| J-5 | true | 2.76 | 1,500.00 | 1,502.76 | 84.57 | J-981 | 20.00 | 3,761.93 |
| J-6 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-7 | false | 1.16 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-8 | true | 103.96 | 1,500.00 | 1,603.96 | 86.56 | J-981 | 42.30 | 5,000.00 |
| J-9 | false | 6.02 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-10 | false | 10.08 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-11 | true | 0.02 | 1,500.00 | 1,500.02 | 86.18 | J-981 | 20.00 | 3,766.73 |
| J-12 | true | 10.70 | 1,500.00 | 1,510.70 | 86.33 | J-981 | 20.00 | 3,764.55 |
| J-13 | true | 16.54 | 1,500.00 | 1,516.54 | 85.25 | J-981 | 20.00 | 3,763.00 |
| J-14 | true | 4.87 | 1,500.00 | 1,504.87 | 86.59 | J-981 | 42.30 | 5,000.00 |
| J-15 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-16 | false | 11.67 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-17 | true | 6.81 | 1,500.00 | 1,506.81 | 87.71 | J-981 | 42.30 | 5,000.00 |
| J-18 | true | 1.95 | 1,500.00 | 1,501.95 | 87.84 | J-981 | 42.30 | 5,000.00 |
| J-19 | false | 9.44 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-20 | true | 6.09 | 1,500.00 | 1,506.09 | 85.68 | J-981 | 20.00 | 3,772.32 |
| J-21 | true | 0.00 | 1,500.00 | 1,500.00 | 87.94 | J-981 | 20.00 | 3,784.37 |
| J-22 | true | 7.93 | 1,500.00 | 1,507.93 | 88.14 | J-981 | 20.00 | 3,779.57 |
| J-23 | false | 12.65 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-24 | true | 5.98 | 1,500.00 | 1,505.98 | 87.73 | J-981 | 20.00 | 3,765.98 |
| J-25 | true | 0.00 | 1,500.00 | 1,500.00 | 86.41 | J-981 | 20.00 | 3,774.21 |
| J-26 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-27 | false | 9.73 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-28 | true | 15.57 | 1,500.00 | 1,515.57 | 85.72 | J-981 | 20.00 | 3,762.81 |
| J-29 | true | 13.62 | 1,500.00 | 1,513.62 | 87.28 | J-981 | 42.30 | 5,000.00 |
| J-30 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-31 | false | 4.57 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-32 | true | 12.65 | 1,500.00 | 1,512.65 | 73.71 | J-981 | 20.00 | 3,774.54 |
| J-33 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-34 | true | 3.89 | 1,500.00 | 1,503.89 | 65.49 | J-981 | 20.00 | 3,294.59 |
| J-35 | false | 11.67 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-36 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-37 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-38 | true | 3.89 | 1,500.00 | 1,503.89 | 66.60 | J-981 | 43.59 | 4,999.32 |
| J-39 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-40 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-41 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-42 | true | 0.00 | 1,500.00 | 1,500.00 | 72.81 | J-981 | 43.04 | 4,999.47 |
| J-43 | true | 9.92 | 1,500.00 | 1,509.92 | 76.36 | J-981 | 42.63 | 5,000.00 |
| J-44 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-45 | true | 2.92 | 1,500.00 | 1,502.92 | 69.52 | J-981 | 43.39 | 5,000.00 |
| J-46 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-47 | true | 4.86 | 1,500.00 | 1,504.86 | 55.06 | J-981 | 20.01 | 2,498.39 |
| J-48 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

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Haestad Methods Solution Center

Watertown, CT 06795 USA

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-49 | false | 8.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-50 | false | 8.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-51 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-52 | true | 9.73 | 1,500.00 | 1,509.73 | 29.52 | J-981 | 42.52 | 1,678.45 |
| J-53 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-54 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-55 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-56 | true | 6.81 | 1,500.00 | 1,506.81 | 64.74 | J-981 | 20.00 | 3,733.17 |
| J-57 | true | 21.40 | 1,500.00 | 1,521.40 | 63.13 | J-981 | 21.44 | 3,643.76 |
| J-58 | false | 6.80 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-59 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-60 | true | 2.81 | 1,500.00 | 1,502.81 | 51.05 | J-981 | 37.04 | 2,561.56 |
| J-61 | true | 10.70 | 1,500.00 | 1,510.70 | 66.25 | J-981 | 20.00 | 3,711.44 |
| J-62 | false | 10.73 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-63 | true | 10.73 | 1,500.00 | 1,510.73 | 69.32 | J-981 | 20.00 | 3,774.17 |
| J-64 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-65 | true | 13.62 | 1,500.00 | 1,513.62 | 65.17 | J-981 | 23.12 | 3,220.97 |
| J-66 | true | 15.57 | 1,500.00 | 1,515.57 | 54.26 | J-981 | 20.00 | 2,564.06 |
| J-67 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-68 | true | 29.19 | 1,500.00 | 1,529.19 | 66.15 | J-981 | 22.55 | 3,630.93 |
| J-69 | true | 23.35 | 1,500.00 | 1,523.35 | 73.60 | J-981 | 20.00 | 3,696.71 |
| J-70 | false | 8.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-71 | true | 19.46 | 1,500.00 | 1,519.46 | 51.43 | J-981 | 20.00 | 2,297.86 |
| J-72 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-73 | false | 9.73 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-74 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-75 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-76 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-77 | true | 3.89 | 1,500.00 | 1,503.89 | 58.61 | J-981 | 20.00 | 3,237.10 |
| J-78 | false | 4.86 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-79 | false | 10.70 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-80 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-81 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-83 | true | 11.67 | 1,500.00 | 1,511.67 | 57.44 | J-981 | 25.07 | 3,205.43 |
| J-84 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-85 | false | 1.95 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-86 | true | 12.63 | 1,500.00 | 1,512.63 | 57.23 | J-981 | 26.22 | 3,124.07 |
| J-87 | false | 8.75 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-88 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-89 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-90 | false | 6.82 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-91 | true | 7.79 | 1,500.00 | 1,507.79 | 57.18 | J-981 | 23.44 | 2,908.26 |
| J-92 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-93 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-94 | true | 3.90 | 1,500.00 | 1,503.90 | 45.36 | J-981 | 20.00 | 2,110.43 |
| J-95 | false | 14.59 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-96 | false | 3.71 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-97 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

w:\...2026 scenario well 6 off.wcd

01/17/07 12:44:35 Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA

Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

+1-203-755-1666

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-98 | false | 2.91 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-99 | false | 3.90 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-100 | true | 4.58 | 1,500.00 | 1,504.58 | 40.43 | J-101 | 20.00 | 1,916.58 |
| J-101 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-102 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-103 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-104 | true | 0.00 | 1,500.00 | 1,500.00 | 56.93 | J-981 | 21.73 | 2,678.77 |
| J-105 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-106 | false | 10.70 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-107 | false | 11.33 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-108 | true | 7.78 | 1,500.00 | 1,507.78 | 58.08 | J-981 | 20.86 | 2,881.01 |
| J-109 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-110 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-111 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-112 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-113 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-114 | true | 5.84 | 1,500.00 | 1,505.84 | 58.52 | J-981 | 22.39 | 3,049.40 |
| J-115 | true | 4.86 | 1,500.00 | 1,504.86 | 82.86 | J-981 | 20.00 | 3,545.71 |
| J-116 | true | 5.84 | 1,500.00 | 1,505.84 | 60.08 | J-981 | 20.00 | 3,272.50 |
| J-117 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-118 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-119 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-120 | true | 7.78 | 1,500.00 | 1,507.78 | 59.24 | J-981 | 20.56 | 3,316.69 |
| J-121 | true | 7.78 | 1,500.00 | 1,507.78 | 57.98 | J-981 | 20.01 | 3,097.48 |
| J-122 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-123 | true | 13.62 | 1,500.00 | 1,513.62 | 46.48 | J-981 | 20.64 | 2,307.78 |
| J-124 | false | 12.32 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-125 | true | 15.57 | 1,500.00 | 1,515.57 | 32.34 | J-126 | 21.08 | 1,739.16 |
| J-126 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-127 | true | 0.00 | 1,500.00 | 1,500.00 | 65.25 | J-981 | 20.00 | 3,757.65 |
| J-128 | true | 1.93 | 1,500.00 | 1,501.93 | 48.44 | J-981 | 20.00 | 2,359.36 |
| J-131 | false | 2.94 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-132 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-133 | false | 13.62 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-134 | false | 11.67 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-135 | false | 29.31 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-136 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-137 | false | 1.95 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-138 | false | 11.67 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-139 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-140 | true | 0.15 | 1,500.00 | 1,500.15 | 75.51 | J-981 | 41.00 | 2,871.91 |
| J-141 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-142 | true | 7.78 | 1,500.00 | 1,507.78 | 79.33 | J-981 | 35.67 | 3,178.16 |
| J-143 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-144 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-145 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-146 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-147 | false | 7.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

w:\...2026 scenario well 6 off.wcd

01/17/07 12:44:35 PM Bentley Systems, Inc.

Haestad Methods Solution Center

Watertown, CT 06795 USA

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-148 | true | 10.58 | 1,500.00 | 1,510.58 | 57.56 | J-981 | 27.67 | 3,101.03 |
| J-149 | true | 29.20 | 1,500.00 | 1,529.20 | 56.02 | J-981 | 33.18 | 2,909.38 |
| J-150 | false | 9.73 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-151 | true | 12.65 | 1,500.00 | 1,512.65 | 58.76 | J-981 | 21.52 | 3,280.23 |
| J-152 | true | 13.62 | 1,500.00 | 1,513.62 | 58.04 | J-981 | 24.87 | 3,207.75 |
| J-153 | true | 4.86 | 1,500.00 | 1,504.86 | 58.38 | J-981 | 22.38 | 3,279.74 |
| J-154 | true | 13.62 | 1,500.00 | 1,513.62 | 67.59 | J-981 | 22.17 | 2,750.35 |
| J-155 | true | 16.54 | 1,500.00 | 1,516.54 | 67.03 | J-981 | 20.14 | 2,640.49 |
| J-156 | true | 0.00 | 1,500.00 | 1,500.00 | 63.09 | J-981 | 30.62 | 2,451.51 |
| J-157 | false | 3.02 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-158 | true | 25.09 | 1,500.00 | 1,525.09 | 58.54 | J-981 | 41.21 | 2,343.33 |
| J-159 | true | 20.43 | 1,500.00 | 1,520.43 | 72.22 | J-981 | 22.75 | 3,107.76 |
| J-160 | true | 1.12 | 1,500.00 | 1,501.12 | 73.31 | J-981 | 20.25 | 3,208.67 |
| J-161 | true | 13.62 | 1,500.00 | 1,513.62 | 71.06 | J-981 | 23.32 | 3,120.30 |
| J-162 | false | 0.97 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-163 | true | 7.05 | 1,500.00 | 1,507.05 | 71.98 | J-981 | 21.16 | 3,074.83 |
| J-164 | true | 15.57 | 1,500.00 | 1,515.57 | 68.60 | J-981 | 20.01 | 2,796.27 |
| J-165 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-166 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-167 | true | 6.69 | 1,500.00 | 1,506.69 | 68.23 | J-981 | 20.00 | 2,739.50 |
| J-168 | true | 1.37 | 1,500.00 | 1,501.37 | 68.73 | J-981 | 20.01 | 2,771.41 |
| J-169 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-170 | false | 6.51 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-171 | false | 17.33 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-172 | true | 6.81 | 1,500.00 | 1,506.81 | 69.67 | J-981 | 20.01 | 2,865.29 |
| J-173 | false | 2.24 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-174 | true | 1.95 | 1,500.00 | 1,501.95 | 57.90 | J-981 | 28.51 | 2,297.45 |
| J-175 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-176 | false | 4.70 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-177 | false | 39.54 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-178 | false | 10.70 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-179 | false | 64.70 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-180 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-181 | false | 7.77 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-182 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-183 | false | 10.69 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-184 | true | 3.89 | 1,500.00 | 1,503.89 | 54.49 | J-981 | 20.00 | 2,131.26 |
| J-185 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-186 | false | 7.78 | 1,500.00 | 1,507.78 | 17.38 | J-981 | 42.69 | 1,472.66 |
| J-187 | true | 0.00 | 1,500.00 | 1,500.00 | 49.53 | J-981 | 28.63 | 1,989.55 |
| J-188 | false | 10.69 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-189 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-190 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-191 | true | 3.88 | 1,500.00 | 1,503.88 | 63.62 | J-981 | 20.00 | 2,513.39 |
| J-192 | false | 2.22 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-193 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-194 | true | 4.86 | 1,500.00 | 1,504.86 | 63.11 | J-981 | 20.00 | 2,502.01 |
| J-195 | false | 66.47 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

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01/17/07 12:44:35 PM Bentley Systems, Inc.

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-196 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-197 | true | 46.51 | 1,500.00 | 1,546.51 | 67.14 | J-981 | 20.00 | 2,639.78 |
| J-198 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-199 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-200 | false | 4.69 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-201 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-202 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-203 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-204 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-205 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-206 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-207 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-208 | false | 1.95 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-209 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-210 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-211 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-212 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-213 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-214 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-215 | false | 11.67 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-216 | true | 8.76 | 1,500.00 | 1,508.76 | 80.63 | J-981 | 20.00 | 3,242.06 |
| J-217 | false | 15.68 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-218 | true | 1.74 | 1,500.00 | 1,501.74 | 87.18 | J-981 | 20.00 | 3,781.75 |
| J-219 | false | 24.87 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-220 | true | 0.00 | 1,500.00 | 1,500.00 | 87.30 | J-981 | 20.00 | 3,803.99 |
| J-221 | true | 0.00 | 1,500.00 | 1,500.00 | 85.39 | J-981 | 20.00 | 3,819.60 |
| J-222 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-223 | false | 0.49 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-224 | true | 1.81 | 1,500.00 | 1,501.81 | 84.48 | J-981 | 23.23 | 3,699.64 |
| J-225 | true | 5.06 | 1,500.00 | 1,505.06 | 84.69 | J-981 | 20.00 | 3,715.45 |
| J-226 | true | 9.73 | 1,500.00 | 1,509.73 | 74.82 | J-981 | 40.52 | 2,880.41 |
| J-227 | true | 17.51 | 1,500.00 | 1,517.51 | 74.79 | J-981 | 20.00 | 2,954.99 |
| J-228 | false | 12.65 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-229 | true | 7.78 | 1,500.00 | 1,507.78 | 68.47 | J-981 | 20.00 | 2,682.62 |
| J-230 | true | 10.70 | 1,500.00 | 1,510.70 | 67.43 | J-981 | 20.00 | 2,642.33 |
| J-231 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-232 | true | 16.56 | 1,500.00 | 1,516.56 | 69.83 | J-981 | 20.00 | 2,692.50 |
| J-233 | true | 7.69 | 1,500.00 | 1,507.69 | 69.62 | J-981 | 20.00 | 2,666.16 |
| J-234 | false | 12.75 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-235 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-236 | false | 114.24 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-237 | false | 0.64 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-238 | true | 0.91 | 1,500.00 | 1,500.91 | 84.34 | J-981 | 20.00 | 3,299.84 |
| J-239 | false | 2.66 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-240 | false | 26.03 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-241 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-242 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-243 | true | 6.81 | 1,500.00 | 1,506.81 | 80.35 | J-981 | 20.00 | 3,055.38 |

Title: INITIAL RUN

w:\...2026 scenario well 6 off.wcd

01/17/07 12:44:35 PM Bentley Systems, Inc.

Haestad Methods Solution Center

Watertown, CT 06795 USA

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-244 | true | 11.67 | 1,500.00 | 1,511.67 | 81.14 | J-981 | 20.00 | 3,008.19 |
| J-245 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-246 | true | 9.73 | 1,500.00 | 1,509.73 | 81.53 | J-981 | 20.00 | 3,059.08 |
| J-247 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-248 | true | 8.76 | 1,500.00 | 1,508.76 | 80.19 | J-981 | 20.00 | 3,026.27 |
| J-249 | true | 5.84 | 1,500.00 | 1,505.84 | 79.25 | J-981 | 20.00 | 3,053.63 |
| J-250 | false | 3.21 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-251 | true | 7.78 | 1,500.00 | 1,507.78 | 77.47 | J-981 | 20.00 | 2,913.65 |
| J-252 | false | 1.29 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-253 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-254 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-255 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-256 | false | 0.25 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-257 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-258 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-259 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-260 | true | 2.92 | 1,500.00 | 1,502.92 | 52.07 | J-981 | 20.43 | 2,773.72 |
| J-261 | false | 1.95 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-262 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-263 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-264 | true | 9.73 | 1,500.00 | 1,509.73 | 50.99 | J-981 | 20.43 | 2,672.52 |
| J-265 | false | 5.85 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-266 | true | 16.54 | 1,500.00 | 1,516.54 | 49.35 | J-981 | 20.00 | 2,568.97 |
| J-267 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-268 | true | 14.59 | 1,500.00 | 1,514.59 | 54.48 | J-981 | 20.36 | 2,895.37 |
| J-269 | true | 8.76 | 1,500.00 | 1,508.76 | 54.14 | J-981 | 20.00 | 2,889.56 |
| J-270 | true | 11.67 | 1,500.00 | 1,511.67 | 53.69 | J-981 | 20.00 | 2,735.47 |
| J-271 | true | 2.46 | 1,500.00 | 1,502.46 | 51.69 | J-981 | 20.00 | 2,643.99 |
| J-272 | false | 8.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-273 | true | 8.76 | 1,500.00 | 1,508.76 | 50.36 | J-981 | 20.00 | 2,632.36 |
| J-274 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-275 | true | 10.70 | 1,500.00 | 1,510.70 | 51.39 | J-981 | 20.00 | 2,734.12 |
| J-276 | true | 14.59 | 1,500.00 | 1,514.59 | 49.40 | J-981 | 20.01 | 2,602.80 |
| J-277 | false | 17.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-278 | true | 19.47 | 1,500.00 | 1,519.47 | 49.38 | J-981 | 23.64 | 2,713.20 |
| J-279 | false | 4.46 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-280 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-281 | false | 6.25 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-282 | false | 11.67 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-283 | true | 4.24 | 1,500.00 | 1,504.24 | 59.14 | J-981 | 28.87 | 2,258.80 |
| J-284 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-285 | true | 0.00 | 1,500.00 | 1,500.00 | 61.66 | J-981 | 27.86 | 2,301.13 |
| J-286 | false | 5.60 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-287 | true | 10.70 | 1,500.00 | 1,510.70 | 77.35 | J-981 | 20.02 | 2,601.91 |
| J-288 | true | 15.57 | 1,500.00 | 1,515.57 | 76.56 | J-981 | 20.02 | 2,601.90 |
| J-289 | true | 6.81 | 1,500.00 | 1,506.81 | 75.56 | J-981 | 20.02 | 2,601.91 |
| J-290 | true | 4.86 | 1,500.00 | 1,504.86 | 69.41 | J-981 | 20.00 | 2,602.53 |
| J-291 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

w:\...\2026 scenario well 6 off.wcd

01/17/07 12:44:35 PM Bentley Systems, Inc.

Haestad Methods Solution Center

Watertown, CT 06795 USA

+1-203-755-1666

Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-292 | false | 8.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-293 | false | 5.50 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-294 | false | 8.03 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-295 | true | 3.21 | 1,500.00 | 1,503.21 | 86.15 | J-981 | 20.00 | 3,552.18 |
| J-296 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-297 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-298 | true | 0.00 | 1,500.00 | 1,500.00 | 69.49 | J-981 | 20.01 | 2,602.21 |
| J-299 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-300 | false | 0.97 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-301 | false | 9.73 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-302 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-303 | true | 0.00 | 1,500.00 | 1,500.00 | 70.64 | J-981 | 20.00 | 2,602.52 |
| J-304 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-305 | true | 14.59 | 1,500.00 | 1,514.59 | 71.71 | J-981 | 20.00 | 2,602.53 |
| J-306 | true | 15.57 | 1,500.00 | 1,515.57 | 73.41 | J-981 | 20.00 | 2,602.54 |
| J-307 | true | 10.70 | 1,500.00 | 1,510.70 | 75.46 | J-981 | 20.01 | 2,602.12 |
| J-308 | true | 10.70 | 1,500.00 | 1,510.70 | 72.16 | J-981 | 20.01 | 2,602.24 |
| J-309 | true | 16.54 | 1,500.00 | 1,516.54 | 78.22 | J-981 | 20.00 | 2,602.41 |
| J-310 | true | 25.29 | 1,500.00 | 1,525.29 | 77.88 | J-981 | 20.00 | 2,526.05 |
| J-311 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-312 | false | 274.77 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-313 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-314 | true | 0.00 | 1,500.00 | 1,500.00 | 69.32 | J-981 | 20.00 | 2,602.53 |
| J-315 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-316 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-317 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-318 | true | 14.59 | 1,500.00 | 1,514.59 | 75.15 | J-981 | 42.72 | 4,999.43 |
| J-319 | false | 34.72 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-320 | false | 8.96 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-321 | true | 18.48 | 1,500.00 | 1,518.48 | 86.20 | J-981 | 20.00 | 2,253.86 |
| J-322 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-323 | true | 12.32 | 1,500.00 | 1,512.32 | 64.50 | J-981 | 20.00 | 2,237.00 |
| J-325 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-326 | true | 0.00 | 1,500.00 | 1,500.00 | 83.36 | J-981 | 20.00 | 3,080.94 |
| J-327 | false | 8.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-328 | true | 4.86 | 1,500.00 | 1,504.86 | 53.85 | J-981 | 29.96 | 2,058.88 |
| J-329 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-330 | true | 6.81 | 1,500.00 | 1,506.81 | 75.68 | J-981 | 20.00 | 3,065.20 |
| J-331 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-332 | false | 10.70 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-333 | false | 1.03 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-334 | true | 10.70 | 1,500.00 | 1,510.70 | 77.51 | J-981 | 20.00 | 2,878.08 |
| J-335 | false | 8.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-336 | true | 7.78 | 1,500.00 | 1,507.78 | 77.50 | J-981 | 20.00 | 2,872.28 |
| J-337 | true | 7.78 | 1,500.00 | 1,507.78 | 77.21 | J-981 | 20.00 | 2,844.90 |
| J-338 | true | 5.84 | 1,500.00 | 1,505.84 | 77.28 | J-981 | 20.00 | 2,875.66 |
| J-339 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-340 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

w:\...2026 scenario well 6 off.wcd

Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-341 | true | 6.81 | 1,500.00 | 1,506.81 | 74.27 | J-981 | 20.00 | 2,697.62 |
| J-342 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-343 | true | 6.81 | 1,500.00 | 1,506.81 | 72.43 | J-981 | 20.00 | 2,570.74 |
| J-344 | true | 9.73 | 1,500.00 | 1,509.73 | 66.38 | J-981 | 20.00 | 2,330.30 |
| J-345 | false | 15.73 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-346 | true | 6.43 | 1,500.00 | 1,506.43 | 76.22 | J-981 | 20.01 | 2,602.20 |
| J-347 | true | 4.86 | 1,500.00 | 1,504.86 | 72.22 | J-981 | 20.00 | 2,592.65 |
| J-348 | false | 17.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-349 | false | 7.78 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-350 | true | 7.78 | 1,500.00 | 1,507.78 | 72.32 | J-981 | 20.01 | 2,601.99 |
| J-351 | false | 8.76 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-352 | false | 17.92 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-353 | true | 3.89 | 1,500.00 | 1,503.89 | 67.27 | J-981 | 29.05 | 1,501.00 |
| J-354 | true | 12.66 | 1,500.00 | 1,512.66 | 60.37 | J-981 | 20.01 | 2,602.32 |
| J-355 | false | 6.81 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-356 | false | 5.84 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-357 | true | 11.67 | 1,500.00 | 1,511.67 | 57.36 | J-981 | 20.02 | 2,601.74 |
| J-358 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-359 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-360 | true | 0.00 | 1,500.00 | 1,500.00 | 41.07 | J-981 | 24.46 | 2,436.87 |
| J-361 | true | 0.00 | 1,500.00 | 1,500.00 | 63.40 | J-981 | 20.02 | 2,525.54 |
| J-364 | false | 5.81 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-365 | false | 0.96 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-366 | false | 3.02 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-367 | false | 9.87 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-368 | false | 7.16 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-369 | false | 1.16 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-370 | true | 0.00 | 1,500.00 | 1,500.00 | 70.43 | J-981 | 22.90 | 2,990.95 |
| J-371 | false | 19.01 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-372 | true | 9.53 | 1,500.00 | 1,509.53 | 86.02 | J-981 | 20.00 | 3,779.37 |
| J-373 | false | 2.20 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-374 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-375 | false | 0.73 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-376 | false | 15.08 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-377 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-378 | false | 12.40 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-379 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-380 | false | 13.19 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-381 | true | 1.62 | 1,500.00 | 1,501.62 | 62.82 | J-981 | 41.00 | 2,931.81 |
| J-382 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-383 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-384 | true | 5.63 | 1,500.00 | 1,505.63 | 89.24 | J-981 | 20.00 | 3,786.50 |
| J-385 | true | 0.94 | 1,500.00 | 1,500.94 | 88.43 | J-981 | 20.00 | 3,817.30 |
| J-386 | true | 17.77 | 1,500.00 | 1,517.77 | 86.89 | J-981 | 20.00 | 3,789.32 |
| J-387 | false | 1.74 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-388 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-389 | true | 0.00 | 1,500.00 | 1,500.00 | 90.66 | J-981 | 20.02 | 3,818.71 |
| J-390 | false | 10.30 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

w:\...2026 scenario well 6 off.wcd

01/17/07 12:44:35 Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA +1-203-755-1666

Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-391 | true | 0.00 | 1,500.00 | 1,500.00 | 65.01 | J-981 | 41.00 | 2,331.78 |
| J-392 | true | 7.77 | 1,500.00 | 1,507.77 | 89.47 | J-981 | 20.00 | 3,819.27 |
| J-393 | false | 10.08 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-394 | true | 0.00 | 1,500.00 | 1,500.00 | 89.77 | J-981 | 20.02 | 3,819.60 |
| J-395 | true | 1.07 | 1,500.00 | 1,501.07 | 88.86 | J-981 | 20.02 | 3,814.81 |
| J-396 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-397 | false | 10.42 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-398 | true | 0.00 | 1,500.00 | 1,500.00 | 92.27 | J-981 | 20.02 | 3,825.15 |
| J-399 | true | 18.48 | 1,500.00 | 1,518.48 | 90.40 | J-981 | 20.01 | 3,822.34 |
| J-400 | true | 13.43 | 1,500.00 | 1,513.43 | 89.04 | J-981 | 20.01 | 3,821.53 |
| J-401 | true | 0.00 | 1,500.00 | 1,500.00 | 88.27 | J-981 | 20.01 | 3,817.77 |
| J-402 | true | 2.47 | 1,500.00 | 1,502.47 | 91.07 | J-981 | 20.02 | 3,833.31 |
| J-403 | true | 0.00 | 1,500.00 | 1,500.00 | 91.17 | J-981 | 20.02 | 3,831.22 |
| J-404 | true | 0.42 | 1,500.00 | 1,500.42 | 88.61 | J-981 | 20.01 | 3,843.84 |
| J-405 | false | 3.66 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-406 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-407 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-408 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-409 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-410 | false | 10.70 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-411 | true | 7.65 | 1,500.00 | 1,507.65 | 59.51 | J-981 | 20.00 | 3,520.97 |
| J-412 | true | 12.65 | 1,500.00 | 1,512.65 | 67.49 | J-981 | 42.30 | 4,999.46 |
| J-413 | true | 4.86 | 1,500.00 | 1,504.86 | 69.03 | J-981 | 42.30 | 5,000.00 |
| J-414 | true | 3.88 | 1,500.00 | 1,503.88 | 49.71 | J-981 | 20.00 | 2,602.53 |
| J-415 | true | 8.75 | 1,500.00 | 1,508.75 | 48.62 | J-981 | 20.00 | 2,602.53 |
| J-416 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-417 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-418 | true | 10.70 | 1,500.00 | 1,510.70 | 70.03 | J-981 | 20.00 | 2,582.68 |
| J-419 | true | 7.78 | 1,500.00 | 1,507.78 | 69.82 | J-981 | 20.00 | 2,579.61 |
| J-420 | false | 12.65 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-421 | true | 15.57 | 1,500.00 | 1,515.57 | 60.83 | J-981 | 20.02 | 2,422.67 |
| J-422 | true | 0.00 | 1,500.00 | 1,500.00 | 61.81 | J-981 | 20.43 | 2,455.37 |
| J-423 | false | 4.86 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-424 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-425 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-426 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-427 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-428 | false | 0.58 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-429 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-430 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-431 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-432 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-433 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-434 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-435 | false | 1.95 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-436 | true | 3.89 | 1,500.00 | 1,503.89 | 62.04 | J-981 | 20.02 | 2,394.80 |
| J-437 | true | 1.95 | 1,500.00 | 1,501.95 | 58.51 | J-981 | 27.49 | 2,255.40 |
| J-438 | false | 1.95 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

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01/17/07 12:44:35 PM Bentley Systems, Inc.

Haestad Methods Solution Center

Watertown, CT 06795 USA

+1-203-755-1666

Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-439 | true | 1.95 | 1,500.00 | 1,501.95 | 35.97 | J-981 | 37.67 | 1,721.75 |
| J-440 | true | 0.82 | 1,500.00 | 1,500.82 | 45.25 | J-981 | 27.33 | 1,893.61 |
| J-441 | false | 11.15 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-442 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-443 | true | 7.55 | 2,500.00 | 2,507.55 | 69.25 | J-981 | 20.00 | 3,790.53 |
| J-444 | true | 0.72 | 1,500.00 | 1,500.72 | 87.94 | J-981 | 20.00 | 3,791.28 |
| J-445 | false | 0.11 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-446 | true | 8.72 | 1,500.00 | 1,508.72 | 87.63 | J-981 | 20.00 | 3,792.38 |
| J-447 | true | 0.00 | 1,500.00 | 1,500.00 | 87.19 | J-981 | 20.00 | 3,793.40 |
| J-448 | true | 0.00 | 1,500.00 | 1,500.00 | 83.44 | J-981 | 20.22 | 3,495.83 |
| J-449 | true | 1.25 | 1,500.00 | 1,501.25 | 82.26 | J-981 | 20.65 | 3,358.71 |
| J-450 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-451 | true | 0.00 | 2,500.00 | 2,500.00 | 72.33 | J-981 | 20.00 | 3,795.00 |
| J-452 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-453 | true | 0.12 | 1,500.00 | 1,500.12 | 87.14 | J-981 | 20.00 | 3,796.08 |
| J-454 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-455 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-456 | true | 1.84 | 1,500.00 | 1,501.84 | 86.75 | J-981 | 20.00 | 3,797.21 |
| J-457 | true | 0.00 | 1,500.00 | 1,500.00 | 86.87 | J-981 | 20.00 | 3,798.85 |
| J-458 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-459 | true | 0.24 | 1,500.00 | 1,500.24 | 83.45 | J-981 | 26.37 | 3,558.06 |
| J-460 | true | 0.01 | 2,500.00 | 2,500.01 | 63.37 | J-981 | 20.00 | 3,570.99 |
| J-461 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-462 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-463 | true | 0.00 | 1,500.00 | 1,500.00 | 76.33 | J-981 | 37.78 | 2,945.61 |
| J-464 | true | 0.55 | 1,500.00 | 1,500.55 | 77.98 | J-981 | 22.01 | 3,063.86 |
| J-465 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-466 | true | 0.00 | 1,500.00 | 1,500.00 | 80.14 | J-981 | 20.00 | 3,240.23 |
| J-467 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-468 | true | 0.03 | 1,500.00 | 1,500.03 | 72.93 | J-981 | 35.69 | 2,760.27 |
| J-469 | true | 0.07 | 2,500.00 | 2,500.07 | 46.81 | J-981 | 20.02 | 3,036.60 |
| J-470 | true | 0.01 | 1,500.00 | 1,500.02 | 74.40 | J-981 | 30.39 | 2,846.16 |
| J-471 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-472 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-473 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-474 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-475 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-476 | true | 0.03 | 1,500.00 | 1,500.03 | 78.66 | J-981 | 36.26 | 3,024.59 |
| J-477 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-478 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-479 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-480 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-481 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-482 | true | 0.00 | 1,500.00 | 1,500.00 | 88.44 | J-981 | 20.00 | 3,801.11 |
| J-483 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-484 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-485 | true | 0.00 | 1,500.00 | 1,500.00 | 86.63 | J-981 | 20.00 | 3,786.27 |
| J-486 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-487 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-488 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-489 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-490 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-491 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-492 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-493 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-494 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-495 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-496 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-497 | false | 56.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-498 | false | 12.65 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-499 | true | 0.00 | 1,500.00 | 1,500.00 | 74.48 | J-981 | 20.01 | 2,602.07 |
| J-500 | true | 9.73 | 1,500.00 | 1,509.73 | 75.80 | J-981 | 20.02 | 2,601.93 |
| J-501 | true | 11.55 | 1,500.00 | 1,511.55 | 76.65 | J-981 | 20.06 | 2,600.44 |
| J-502 | true | 15.58 | 1,500.00 | 1,515.58 | 74.49 | J-981 | 22.26 | 2,519.95 |
| J-503 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-504 | true | 0.00 | 1,500.00 | 1,500.00 | 73.81 | J-981 | 42.93 | 5,000.00 |
| J-505 | false | 0.01 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-506 | true | 0.00 | 1,500.00 | 1,500.00 | 75.28 | J-981 | 42.80 | 5,000.00 |
| J-507 | false | 6.83 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-508 | true | 11.67 | 1,500.00 | 1,511.67 | 70.12 | J-981 | 42.58 | 4,999.39 |
| J-509 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-510 | true | 7.78 | 1,500.00 | 1,507.78 | 60.74 | J-981 | 41.00 | 2,806.75 |
| J-511 | true | 12.65 | 1,500.00 | 1,512.65 | 69.86 | J-981 | 42.49 | 4,999.44 |
| J-512 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-513 | false | 7.79 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-514 | true | 5.84 | 1,500.00 | 1,505.84 | 67.12 | J-981 | 42.40 | 4,999.42 |
| J-515 | true | 7.78 | 1,500.00 | 1,507.78 | 71.27 | J-981 | 42.38 | 5,000.00 |
| J-516 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-517 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-518 | true | 2.92 | 1,500.00 | 1,502.92 | 66.17 | J-981 | 42.37 | 4,999.39 |
| J-519 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-520 | true | 5.84 | 1,500.00 | 1,505.84 | 65.91 | J-981 | 42.34 | 4,999.41 |
| J-521 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-522 | true | 6.81 | 1,500.00 | 1,506.81 | 63.95 | J-981 | 20.00 | 2,280.58 |
| J-523 | true | 2.25 | 1,500.00 | 1,502.25 | 54.77 | J-981 | 20.00 | 2,280.59 |
| J-524 | false | 16.61 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-525 | true | 2.92 | 1,500.00 | 1,502.92 | 69.00 | J-981 | 20.00 | 2,586.94 |
| J-527 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-528 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-529 | false | 12.63 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-530 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-531 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-532 | true | 7.78 | 1,500.00 | 1,507.78 | 72.31 | J-981 | 20.22 | 3,284.19 |
| J-533 | false | 1.95 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-534 | true | 7.78 | 1,500.00 | 1,507.78 | 70.95 | J-981 | 20.22 | 3,210.99 |
| J-535 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-536 | true | 4.86 | 1,500.00 | 1,504.86 | 73.60 | J-981 | 21.65 | 3,489.53 |
| J-537 | false | 56.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-538 | true | 2.92 | 1,500.00 | 1,502.92 | 74.12 | J-981 | 20.00 | 3,486.35 |
| J-539 | false | 2.92 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-540 | true | 5.84 | 1,500.00 | 1,505.84 | 75.49 | J-981 | 34.54 | 4,999.35 |
| J-541 | false | 1.95 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-542 | true | 13.62 | 1,500.00 | 1,513.62 | 77.37 | J-981 | 42.79 | 5,000.00 |
| J-543 | true | 6.29 | 1,500.00 | 1,506.29 | 86.48 | J-981 | 20.00 | 3,774.37 |
| J-544 | true | 9.30 | 1,500.00 | 1,509.30 | 86.38 | J-981 | 20.00 | 3,775.75 |
| J-546 | true | 7.78 | 1,500.00 | 1,507.78 | 83.30 | J-981 | 24.59 | 3,614.73 |
| J-547 | true | 13.13 | 1,500.00 | 1,513.13 | 87.45 | J-981 | 20.00 | 3,797.36 |
| J-548 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-549 | true | 8.05 | 1,500.00 | 1,508.05 | 85.61 | J-981 | 20.00 | 3,803.17 |
| J-550 | true | 0.00 | 1,500.00 | 1,500.00 | 85.52 | J-981 | 20.00 | 3,804.26 |
| J-551 | true | 0.00 | 1,500.00 | 1,500.00 | 85.86 | J-981 | 20.00 | 3,805.79 |
| J-552 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-553 | true | 24.32 | 1,500.00 | 1,524.32 | 86.25 | J-981 | 20.00 | 3,803.28 |
| J-554 | true | 19.46 | 1,500.00 | 1,519.46 | 86.15 | J-981 | 20.00 | 3,804.13 |
| J-555 | true | 10.70 | 1,500.00 | 1,510.70 | 84.97 | J-981 | 20.00 | 3,723.30 |
| J-556 | false | 15.09 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-557 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-558 | false | 19.10 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-559 | true | 15.57 | 1,500.00 | 1,515.57 | 85.43 | J-981 | 20.24 | 3,782.50 |
| J-560 | false | 12.26 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-561 | true | 7.78 | 1,500.00 | 1,507.78 | 87.52 | J-981 | 20.00 | 3,809.71 |
| J-562 | true | 0.00 | 1,500.00 | 1,500.00 | 87.88 | J-981 | 20.00 | 3,811.31 |
| J-563 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-564 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-565 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-566 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-567 | true | 3.39 | 1,500.00 | 1,503.39 | 89.72 | J-981 | 20.02 | 3,814.61 |
| J-568 | false | 22.40 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-569 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-570 | false | 22.40 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-571 | true | 22.38 | 1,500.00 | 1,522.38 | 69.08 | J-981 | 20.00 | 2,602.53 |
| J-572 | true | 12.65 | 1,500.00 | 1,512.65 | 74.10 | J-981 | 20.00 | 2,602.53 |
| J-573 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-574 | true | 9.73 | 1,500.00 | 1,509.73 | 74.62 | J-981 | 20.01 | 2,602.21 |
| J-575 | false | 7.79 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-576 | true | 12.65 | 1,500.00 | 1,512.65 | 70.92 | J-981 | 20.01 | 2,602.20 |
| J-577 | true | 16.54 | 1,500.00 | 1,516.54 | 74.22 | J-981 | 20.01 | 2,602.20 |
| J-578 | false | 6.81 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-579 | true | 14.59 | 1,500.00 | 1,514.59 | 73.71 | J-981 | 20.00 | 2,602.53 |
| J-580 | false | 4.86 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-581 | false | 0.97 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-582 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-583 | true | 3.89 | 1,500.00 | 1,503.89 | 74.02 | J-981 | 20.01 | 2,602.22 |
| J-584 | false | 3.89 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-585 | true | 0.00 | 1,500.00 | 1,500.00 | 67.30 | J-981 | 20.01 | 2,602.23 |
| J-586 | false | 5.84 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-587 | true | 7.78 | 1,500.00 | 1,507.78 | 48.39 | J-981 | 26.14 | 2,849.74 |
| J-588 | true | 0.00 | 1,500.00 | 1,500.00 | 78.69 | J-981 | 20.00 | 3,317.95 |
| J-589 | false | 0.26 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-590 | true | 0.00 | 1,500.00 | 1,500.00 | 71.39 | J-981 | 22.95 | 2,973.78 |
| J-591 | false | 0.36 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-592 | true | 0.55 | 1,500.00 | 1,500.55 | 68.75 | J-981 | 24.46 | 2,807.85 |
| J-593 | false | 77.59 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-594 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-595 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-596 | true | 0.00 | 1,500.00 | 1,500.00 | 79.78 | J-981 | 20.00 | 3,221.53 |
| J-597 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-598 | true | 0.00 | 1,500.00 | 1,500.00 | 79.39 | J-981 | 20.00 | 3,185.21 |
| J-599 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-600 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-601 | false | 5.64 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-602 | true | 9.84 | 1,500.00 | 1,509.84 | 68.94 | J-981 | 22.34 | 2,941.54 |
| J-603 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-604 | true | 0.00 | 1,500.00 | 1,500.00 | 62.08 | J-981 | 25.99 | 2,426.01 |
| J-605 | true | 2.87 | 1,500.00 | 1,502.87 | 78.18 | J-981 | 20.00 | 3,125.43 |
| J-606 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-607 | true | 2.01 | 1,500.00 | 1,502.01 | 79.44 | J-981 | 20.00 | 3,017.91 |
| J-608 | true | 0.00 | 1,500.00 | 1,500.00 | 74.53 | J-981 | 20.00 | 3,017.91 |
| J-609 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-610 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-611 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-612 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-613 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-614 | false | 21.28 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-615 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-616 | false | 21.28 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-617 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-618 | false | 23.52 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-619 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-620 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-621 | true | 0.11 | 1,500.00 | 1,500.11 | 88.85 | J-981 | 20.02 | 3,937.45 |
| J-622 | true | 0.00 | 1,500.00 | 1,500.00 | 87.54 | J-981 | 20.00 | 3,938.02 |
| J-623 | false | 23.52 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-624 | true | 0.00 | 1,500.00 | 1,500.00 | 88.55 | J-981 | 20.01 | 3,951.43 |
| J-625 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-628 | false | 23.52 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-636 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-637 | true | 13.62 | 1,500.00 | 1,513.62 | 57.20 | J-981 | 20.01 | 2,316.30 |
| J-638 | false | 29.12 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-639 | true | 34.46 | 1,500.00 | 1,534.46 | 45.80 | J-981 | 39.13 | 1,935.96 |
| J-640 | false | 56.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-650 | false | 22.38 | 0.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-651 | false | 12.65 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-653 | false | 16.54 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-654 | false | 21.40 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-655 | false | 18.48 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-656 | false | 23.68 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-657 | false | 16.54 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-658 | false | 0.30 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-659 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-660 | false | 0.62 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-661 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-750 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-751 | false | 4.86 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-752 | false | 20.81 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-813 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-814 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-822 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-823 | true | 0.00 | 1,500.00 | 1,500.00 | 38.83 | J-138 | 37.93 | 1,501.00 |
| J-824 | true | 0.00 | 1,500.00 | 1,500.00 | 34.76 | J-150 | 35.14 | 1,501.00 |
| J-825 | false | 12.32 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-826 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-827 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-828 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-829 | true | 0.00 | 2,500.00 | 2,500.00 | 61.59 | J-981 | 20.00 | 3,306.17 |
| J-830 | true | 0.00 | 2,500.00 | 2,500.00 | 61.28 | J-981 | 20.00 | 3,305.33 |
| J-831 | false | 109.76 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-832 | true | 0.00 | 2,500.00 | 2,500.00 | 61.37 | J-981 | 20.00 | 3,304.57 |
| J-833 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-834 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-835 | true | 0.00 | 2,500.00 | 2,500.00 | 61.59 | J-981 | 20.00 | 3,303.66 |
| J-836 | true | 0.00 | 2,500.00 | 2,500.00 | 61.68 | J-981 | 20.00 | 3,303.33 |
| J-837 | true | 0.00 | 2,500.00 | 2,500.00 | 62.14 | J-981 | 20.00 | 3,302.23 |
| J-838 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-840 | true | 0.00 | 2,500.00 | 2,500.00 | 62.11 | J-981 | 20.00 | 3,306.73 |
| J-841 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-842 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-843 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-844 | false | 0.68 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-845 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-846 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-847 | false | 2.04 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-848 | false | 1.37 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-849 | false | 1.37 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-850 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-851 | true | 0.00 | 1,500.00 | 1,500.00 | 72.75 | J-981 | 36.42 | 1,501.00 |
| J-852 | true | 0.00 | 1,500.00 | 1,500.00 | 72.26 | J-981 | 36.42 | 1,501.00 |
| J-853 | false | 0.00 | 0.00 | N/A | N/A | N/A | N/A | N/A |
| J-901 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-906 | false | 4.26 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |

Title: INITIAL RUN

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Project Engineer: DMC

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Scenario: 2026 WELL 6 OFF
Fire Flow Analysis
Fire Flow Report

| Label | Satisfies Fire Flow Constraints? | Base Flow (gpm) | Needed Fire Flow (gpm) | Total Flow Needed (gpm) | Calculated Residual Pressure @ Total Flow Needed (psi) | Calculated Minimum Zone Junction @ Total Flow Needed | Calculated Minimum Zone Pressure (psi) | Available Fire Flow (gpm) |
|-------|----------------------------------|-----------------|------------------------|-------------------------|--|--|--|---------------------------|
| J-917 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-981 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |
| J-982 | false | 0.00 | 1,500.00 | N/A | N/A | N/A | N/A | N/A |

Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-1 | 2,558.30 | Zone | Demand | 4.69 | COMMERCIAL | 4.69 | 2,776.69 | 94.49 |
| J-2 | 2,558.00 | Zone | Demand | 10.75 | COMMERCIAL | 10.75 | 2,777.39 | 94.92 |
| J-3 | 2,556.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.39 | 95.57 |
| J-4 | 2,557.50 | Zone | Demand | 1.49 | COMMERCIAL | 1.49 | 2,778.12 | 95.45 |
| J-5 | 2,559.00 | Zone | Demand | 2.76 | COMMERCIAL | 2.76 | 2,778.43 | 94.93 |
| J-6 | 2,558.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.47 | 95.39 |
| J-7 | 2,557.00 | Zone | Demand | 1.16 | COMMERCIAL | 1.16 | 2,778.47 | 95.82 |
| J-8 | 2,557.00 | Zone | Demand | 103.96 | IRRIGATION | 103.96 | 2,778.52 | 95.84 |
| J-9 | 2,555.00 | Zone | Demand | 6.02 | COMMERCIAL | 6.02 | 2,778.48 | 96.69 |
| J-10 | 2,550.50 | Zone | Demand | 10.08 | Composite | 10.08 | 2,778.48 | 98.64 |
| J-11 | 2,554.50 | Zone | Demand | 0.02 | COMMERCIAL | 0.02 | 2,778.67 | 96.99 |
| J-12 | 2,556.70 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,778.63 | 96.02 |
| J-13 | 2,557.00 | Zone | Demand | 16.54 | RESIDENTIAL | 16.54 | 2,778.67 | 95.91 |
| J-14 | 2,555.70 | Zone | Demand | 4.87 | Composite | 4.87 | 2,778.73 | 96.49 |
| J-15 | 2,558.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,778.67 | 95.47 |
| J-16 | 2,552.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,778.70 | 98.08 |
| J-17 | 2,555.30 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,778.80 | 96.70 |
| J-18 | 2,554.70 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,778.79 | 96.95 |
| J-19 | 2,552.00 | Zone | Demand | 9.44 | Composite | 9.44 | 2,778.78 | 98.12 |
| J-20 | 2,553.00 | Zone | Demand | 6.09 | COMMERCIAL | 6.09 | 2,778.78 | 97.68 |
| J-21 | 2,554.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.82 | 97.05 |
| J-22 | 2,553.50 | Zone | Demand | 7.93 | Composite | 7.93 | 2,778.81 | 97.48 |
| J-23 | 2,557.00 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,778.84 | 95.98 |
| J-24 | 2,553.00 | Zone | Demand | 5.98 | Composite | 5.98 | 2,778.86 | 97.72 |
| J-25 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.82 | 96.40 |
| J-26 | 2,554.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,778.92 | 97.31 |
| J-27 | 2,555.50 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,778.98 | 96.69 |
| J-28 | 2,558.00 | Zone | Demand | 15.57 | RESIDENTIAL | 15.57 | 2,778.92 | 95.58 |
| J-29 | 2,556.00 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,778.92 | 96.45 |
| J-30 | 2,579.50 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,779.28 | 86.43 |
| J-31 | 2,581.50 | Zone | Demand | 4.57 | RESIDENTIAL | 4.57 | 2,779.27 | 85.57 |
| J-32 | 2,585.50 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,779.38 | 83.88 |
| J-33 | 2,595.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,779.53 | 79.84 |
| J-34 | 2,596.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,779.52 | 79.19 |
| J-35 | 2,597.50 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,779.52 | 78.75 |
| J-36 | 2,604.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,779.52 | 75.72 |
| J-37 | 2,601.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,779.49 | 77.23 |
| J-38 | 2,603.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,779.48 | 76.36 |
| J-39 | 2,591.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.50 | 81.56 |
| J-40 | 2,592.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.38 | 81.07 |
| J-41 | 2,591.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,779.48 | 81.55 |
| J-42 | 2,590.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.34 | 81.92 |
| J-43 | 2,581.00 | Zone | Demand | 9.92 | COMMERCIAL | 9.92 | 2,779.33 | 85.81 |
| J-44 | 2,590.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,779.41 | 81.95 |
| J-45 | 2,594.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,779.46 | 80.24 |
| J-46 | 2,602.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,779.49 | 76.79 |
| J-47 | 2,596.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,779.48 | 79.38 |
| J-48 | 2,593.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,779.48 | 80.46 |
| J-49 | 2,601.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,779.48 | 77.22 |
| J-50 | 2,603.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,779.59 | 76.40 |
| J-51 | 2,606.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,779.82 | 75.20 |
| J-52 | 2,609.00 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,779.81 | 73.90 |

Title: INITIAL RUN

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-53 | 2,605.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.09 | 75.75 |
| J-54 | 2,604.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.13 | 76.20 |
| J-55 | 2,607.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,779.73 | 74.52 |
| J-56 | 2,608.50 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,779.70 | 74.07 |
| J-57 | 2,610.50 | Zone | Demand | 21.40 | RESIDENTIAL | 21.40 | 2,779.64 | 73.18 |
| J-58 | 2,606.00 | Zone | Demand | 6.80 | RESIDENTIAL | 6.80 | 2,779.70 | 75.15 |
| J-59 | 2,618.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.64 | 69.72 |
| J-60 | 2,615.00 | Zone | Demand | 2.81 | Composite | 2.81 | 2,779.65 | 71.24 |
| J-61 | 2,604.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,779.70 | 75.80 |
| J-62 | 2,600.00 | Zone | Demand | 10.73 | RESIDENTIAL | 10.73 | 2,779.66 | 77.73 |
| J-63 | 2,597.50 | Zone | Demand | 10.73 | RESIDENTIAL | 10.73 | 2,779.75 | 78.85 |
| J-64 | 2,595.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,779.83 | 79.75 |
| J-65 | 2,595.50 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,779.53 | 79.62 |
| J-66 | 2,604.00 | Zone | Demand | 15.57 | RESIDENTIAL | 15.57 | 2,779.53 | 75.94 |
| J-67 | 2,604.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,779.52 | 75.72 |
| J-68 | 2,603.00 | Zone | Demand | 29.19 | RESIDENTIAL | 29.19 | 2,779.56 | 76.39 |
| J-69 | 2,585.00 | Zone | Demand | 23.35 | RESIDENTIAL | 23.35 | 2,779.26 | 84.05 |
| J-70 | 2,587.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,779.25 | 83.18 |
| J-71 | 2,600.00 | Zone | Demand | 19.46 | RESIDENTIAL | 19.46 | 2,779.78 | 77.78 |
| J-72 | 2,602.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,779.77 | 76.70 |
| J-73 | 2,589.50 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,779.74 | 82.31 |
| J-74 | 2,617.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,781.60 | 71.21 |
| J-75 | 2,606.50 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,780.19 | 75.15 |
| J-76 | 2,611.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,779.74 | 73.00 |
| J-77 | 2,617.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,780.30 | 70.65 |
| J-78 | 2,618.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,780.18 | 70.17 |
| J-79 | 2,616.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,780.42 | 70.92 |
| J-80 | 2,613.50 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,780.45 | 72.23 |
| J-81 | 2,607.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,780.32 | 74.77 |
| J-83 | 2,619.50 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,780.55 | 69.68 |
| J-84 | 2,624.50 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,780.87 | 67.66 |
| J-85 | 2,626.00 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,785.45 | 68.99 |
| J-86 | 2,623.50 | Zone | Demand | 12.63 | RESIDENTIAL | 12.63 | 2,785.53 | 70.10 |
| J-87 | 2,618.00 | Zone | Demand | 8.75 | RESIDENTIAL | 8.75 | 2,783.89 | 71.77 |
| J-88 | 2,618.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,783.83 | 71.75 |
| J-89 | 2,618.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,783.83 | 71.75 |
| J-90 | 2,618.00 | Zone | Demand | 6.82 | RESIDENTIAL | 6.82 | 2,783.83 | 71.75 |
| J-91 | 2,616.50 | Zone | Demand | 7.79 | RESIDENTIAL | 7.79 | 2,783.57 | 72.29 |
| J-92 | 2,619.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,781.51 | 70.31 |
| J-93 | 2,619.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,781.58 | 70.12 |
| J-94 | 2,618.00 | Zone | Demand | 3.90 | RESIDENTIAL | 3.90 | 2,781.58 | 70.77 |
| J-95 | 2,619.50 | Zone | Demand | 14.59 | RESIDENTIAL | 14.59 | 2,781.56 | 70.12 |
| J-96 | 2,621.50 | Zone | Demand | 3.71 | Composite | 3.71 | 2,786.05 | 71.19 |
| J-97 | 2,615.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,781.58 | 72.07 |
| J-98 | 2,612.50 | Zone | Demand | 2.91 | RESIDENTIAL | 2.91 | 2,781.58 | 73.15 |
| J-99 | 2,611.00 | Zone | Demand | 3.90 | RESIDENTIAL | 3.90 | 2,781.60 | 73.81 |
| J-100 | 2,609.50 | Zone | Demand | 4.58 | Composite | 4.58 | 2,781.58 | 74.45 |
| J-101 | 2,610.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,781.58 | 74.23 |
| J-102 | 2,615.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,781.58 | 72.07 |
| J-103 | 2,615.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,781.58 | 72.07 |
| J-104 | 2,607.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,781.64 | 75.34 |
| J-105 | 2,603.50 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,781.64 | 77.07 |

Title: INITIAL RUN

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01/17/07 12:45:01

Bentley Systems, Inc.

Haestad Methods Solution Center

Watertown, CT 06795 USA

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF
Fire Flow Analysis
Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-106 | 2,593.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,781.57 | 81.37 |
| J-107 | 2,612.50 | Zone | Demand | 11.33 | Composite | 11.33 | 2,781.67 | 73.19 |
| J-108 | 2,612.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,781.67 | 73.19 |
| J-109 | 2,610.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,781.66 | 74.27 |
| J-110 | 2,610.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,781.66 | 74.27 |
| J-111 | 2,610.50 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,781.66 | 74.05 |
| J-112 | 2,614.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,781.67 | 72.54 |
| J-113 | 2,611.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,781.67 | 73.62 |
| J-114 | 2,617.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,781.68 | 71.25 |
| J-115 | 2,564.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,778.43 | 92.78 |
| J-116 | 2,620.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,785.94 | 71.79 |
| J-117 | 2,621.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,785.95 | 71.36 |
| J-118 | 2,579.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.11 | 86.15 |
| J-119 | 2,623.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,788.56 | 71.42 |
| J-120 | 2,624.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,788.31 | 70.87 |
| J-121 | 2,627.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,792.35 | 71.32 |
| J-122 | 2,618.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,786.21 | 72.56 |
| J-123 | 2,624.50 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,786.19 | 69.95 |
| J-124 | 2,588.00 | Zone | Demand | 12.32 | COMMERCIAL | 12.32 | 2,753.77 | 71.72 |
| J-125 | 2,623.00 | Zone | Demand | 15.57 | RESIDENTIAL | 15.57 | 2,786.18 | 70.60 |
| J-126 | 2,620.50 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,786.18 | 71.68 |
| J-127 | 2,605.80 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.86 | 75.31 |
| J-128 | 2,619.00 | Zone | Demand | 1.93 | RESIDENTIAL | 1.93 | 2,781.58 | 70.34 |
| J-131 | 2,553.00 | Zone | Demand | 2.94 | COMMERCIAL | 2.94 | 2,778.77 | 97.68 |
| J-132 | 2,624.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,786.16 | 69.94 |
| J-133 | 2,564.00 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,778.45 | 92.78 |
| J-134 | 2,558.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,778.50 | 95.40 |
| J-135 | 2,557.50 | Zone | Demand | 29.31 | COMMERCIAL | 29.31 | 2,778.91 | 95.79 |
| J-136 | 2,626.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,788.14 | 69.93 |
| J-137 | 2,553.50 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,778.78 | 97.47 |
| J-138 | 2,638.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,792.34 | 66.78 |
| J-139 | 2,554.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.78 | 97.03 |
| J-140 | 2,554.50 | Zone | Demand | 0.15 | COMMERCIAL | 0.15 | 2,778.81 | 97.05 |
| J-141 | 2,554.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.81 | 97.26 |
| J-142 | 2,554.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,778.92 | 97.31 |
| J-143 | 2,610.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,779.70 | 73.42 |
| J-144 | 2,611.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,779.67 | 72.98 |
| J-145 | 2,566.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.62 | 91.99 |
| J-146 | 2,563.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.54 | 92.82 |
| J-147 | 2,615.00 | Zone | Demand | 7.84 | RESIDENTIAL | 7.84 | 2,779.99 | 71.38 |
| J-148 | 2,623.00 | Zone | Demand | 10.58 | RESIDENTIAL | 10.58 | 2,787.71 | 71.26 |
| J-149 | 2,621.00 | Zone | Demand | 29.20 | RESIDENTIAL | 29.20 | 2,786.34 | 71.54 |
| J-150 | 2,620.00 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,788.31 | 72.82 |
| J-151 | 2,624.50 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,788.06 | 70.77 |
| J-152 | 2,625.00 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,788.09 | 70.56 |
| J-153 | 2,626.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,788.13 | 70.14 |
| J-154 | 2,561.50 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,776.68 | 93.10 |
| J-155 | 2,556.50 | Zone | Demand | 16.54 | RESIDENTIAL | 16.54 | 2,776.68 | 95.26 |
| J-156 | 2,556.20 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.68 | 95.39 |
| J-157 | 2,559.50 | Zone | Demand | 3.02 | COMMERCIAL | 3.02 | 2,776.13 | 93.73 |
| J-158 | 2,562.00 | Zone | Demand | 25.09 | Composite | 25.09 | 2,776.11 | 92.64 |
| J-159 | 2,561.00 | Zone | Demand | 20.43 | RESIDENTIAL | 20.43 | 2,776.10 | 93.06 |

Title: INITIAL RUN

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01/17/07 12:45:01 PM Bentley Systems, Inc.

Haestad Methods Solution Center

Watertown, CT 06795 USA

+1-203-755-1666

Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-160 | 2,560.00 | Zone | Demand | 1.12 | Composite | 1.12 | 2,775.86 | 93.39 |
| J-161 | 2,565.00 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,776.16 | 91.36 |
| J-162 | 2,559.50 | Zone | Demand | 0.97 | RESIDENTIAL | 0.97 | 2,775.62 | 93.51 |
| J-163 | 2,558.50 | Zone | Demand | 7.05 | Composite | 7.05 | 2,775.63 | 93.94 |
| J-164 | 2,556.50 | Zone | Demand | 15.57 | RESIDENTIAL | 15.57 | 2,775.46 | 94.73 |
| J-165 | 2,557.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,775.46 | 94.30 |
| J-166 | 2,555.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,775.31 | 95.32 |
| J-167 | 2,554.00 | Zone | Demand | 6.69 | RESIDENTIAL | 6.69 | 2,775.31 | 95.75 |
| J-168 | 2,553.50 | Zone | Demand | 1.37 | Composite | 1.37 | 2,775.26 | 95.95 |
| J-169 | 2,553.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,775.26 | 95.95 |
| J-170 | 2,554.50 | Zone | Demand | 6.51 | Composite | 6.51 | 2,775.23 | 95.50 |
| J-171 | 2,556.50 | Zone | Demand | 17.33 | Composite | 17.33 | 2,775.22 | 94.63 |
| J-172 | 2,555.50 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,775.21 | 95.06 |
| J-173 | 2,556.50 | Zone | Demand | 2.24 | Composite | 2.24 | 2,775.21 | 94.63 |
| J-174 | 2,557.00 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,775.21 | 94.41 |
| J-175 | 2,557.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,775.21 | 94.41 |
| J-176 | 2,559.00 | Zone | Demand | 4.70 | IRRIGATION | 4.70 | 2,775.21 | 93.54 |
| J-177 | 2,559.50 | Zone | Demand | 39.54 | Composite | 39.54 | 2,775.39 | 93.40 |
| J-178 | 2,557.00 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,775.39 | 94.49 |
| J-179 | 2,559.50 | Zone | Demand | 64.70 | Composite | 64.70 | 2,774.60 | 93.06 |
| J-180 | 2,553.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,774.60 | 95.66 |
| J-181 | 2,549.00 | Zone | Demand | 7.77 | RESIDENTIAL | 7.77 | 2,774.57 | 97.59 |
| J-182 | 2,550.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,774.56 | 97.15 |
| J-183 | 2,548.00 | Zone | Demand | 10.69 | RESIDENTIAL | 10.69 | 2,774.57 | 98.02 |
| J-184 | 2,548.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,774.56 | 98.02 |
| J-185 | 2,549.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,774.54 | 97.58 |
| J-186 | 2,547.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,774.55 | 98.45 |
| J-187 | 2,546.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,774.56 | 98.67 |
| J-188 | 2,551.00 | Zone | Demand | 10.69 | RESIDENTIAL | 10.69 | 2,774.60 | 96.74 |
| J-189 | 2,553.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,774.60 | 95.87 |
| J-190 | 2,553.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,774.60 | 95.87 |
| J-191 | 2,552.00 | Zone | Demand | 3.88 | RESIDENTIAL | 3.88 | 2,774.60 | 96.31 |
| J-192 | 2,552.50 | Zone | Demand | 2.22 | Composite | 2.22 | 2,774.60 | 96.09 |
| J-193 | 2,551.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,774.60 | 96.53 |
| J-194 | 2,553.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,774.61 | 95.88 |
| J-195 | 2,555.00 | Zone | Demand | 66.47 | Composite | 66.47 | 2,774.69 | 95.05 |
| J-196 | 2,556.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,774.61 | 94.58 |
| J-197 | 2,551.50 | Zone | Demand | 46.51 | Composite | 46.51 | 2,774.68 | 96.56 |
| J-198 | 2,553.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,774.60 | 95.66 |
| J-199 | 2,549.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,774.60 | 97.39 |
| J-200 | 2,616.50 | Zone | Demand | 4.69 | Composite | 4.69 | 2,779.13 | 70.36 |
| J-201 | 2,617.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.13 | 70.15 |
| J-202 | 2,601.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,778.97 | 77.00 |
| J-203 | 2,600.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.92 | 77.41 |
| J-204 | 2,603.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.87 | 76.09 |
| J-205 | 2,603.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.87 | 75.88 |
| J-206 | 2,603.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,778.87 | 76.09 |
| J-207 | 2,603.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.87 | 75.87 |
| J-208 | 2,599.00 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,778.92 | 77.84 |
| J-209 | 2,577.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.24 | 87.50 |
| J-210 | 2,597.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.24 | 78.85 |
| J-211 | 2,597.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.24 | 78.63 |

Title: INITIAL RUN

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01/17/07 12:45:01 BENTLEY Systems, Inc.

Haestad Methods Solution Center

Watertown, CT 06795 USA

+1-203-755-1666

Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-212 | 2,591.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.24 | 81.23 |
| J-213 | 2,592.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.24 | 81.01 |
| J-214 | 2,587.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.24 | 83.17 |
| J-215 | 2,552.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,778.81 | 98.13 |
| J-216 | 2,553.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,778.80 | 97.69 |
| J-217 | 2,553.50 | Zone | Demand | 15.68 | RESIDENTIAL | 15.68 | 2,778.80 | 97.48 |
| J-218 | 2,554.00 | Zone | Demand | 1.74 | COMMERCIAL | 1.74 | 2,778.82 | 97.27 |
| J-219 | 2,554.50 | Zone | Demand | 24.87 | IRRIGATION | 24.87 | 2,778.82 | 97.05 |
| J-220 | 2,557.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.97 | 96.03 |
| J-221 | 2,563.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.19 | 93.54 |
| J-222 | 2,564.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.21 | 92.90 |
| J-223 | 2,564.50 | Zone | Demand | 0.49 | COMMERCIAL | 0.49 | 2,779.10 | 92.85 |
| J-224 | 2,561.50 | Zone | Demand | 1.81 | RESIDENTIAL | 1.81 | 2,779.00 | 94.10 |
| J-225 | 2,562.50 | Zone | Demand | 5.06 | COMMERCIAL | 5.06 | 2,778.86 | 93.61 |
| J-226 | 2,561.00 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,778.43 | 94.07 |
| J-227 | 2,565.00 | Zone | Demand | 17.51 | RESIDENTIAL | 17.51 | 2,776.55 | 91.53 |
| J-228 | 2,566.00 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,775.64 | 90.70 |
| J-229 | 2,568.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,775.34 | 89.71 |
| J-230 | 2,569.00 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,775.15 | 89.19 |
| J-231 | 2,558.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,774.98 | 93.66 |
| J-232 | 2,565.00 | Zone | Demand | 16.56 | Composite | 16.56 | 2,775.35 | 91.01 |
| J-233 | 2,565.00 | Zone | Demand | 7.69 | Composite | 7.69 | 2,775.24 | 90.96 |
| J-234 | 2,565.00 | Zone | Demand | 12.75 | COMMERCIAL | 12.75 | 2,786.00 | 95.62 |
| J-235 | 2,603.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,778.85 | 76.08 |
| J-236 | 2,613.00 | Zone | Demand | 114.24 | RESIDENTIAL | 114.24 | 2,778.62 | 71.65 |
| J-237 | 2,565.50 | Zone | Demand | 0.64 | IRRIGATION | 0.64 | 2,784.88 | 94.91 |
| J-238 | 2,568.50 | Zone | Demand | 0.91 | Composite | 0.91 | 2,778.62 | 90.91 |
| J-239 | 2,569.00 | Zone | Demand | 2.66 | RESIDENTIAL | 2.66 | 2,778.62 | 90.69 |
| J-240 | 2,569.50 | Zone | Demand | 26.03 | IRRIGATION | 26.03 | 2,777.16 | 89.84 |
| J-241 | 2,583.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.85 | 84.30 |
| J-242 | 2,570.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,775.23 | 88.79 |
| J-243 | 2,568.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,774.24 | 89.23 |
| J-244 | 2,566.50 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,773.48 | 89.55 |
| J-245 | 2,564.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,774.24 | 90.96 |
| J-246 | 2,569.00 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,773.83 | 88.62 |
| J-247 | 2,572.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,760.58 | 81.59 |
| J-248 | 2,571.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,773.18 | 87.47 |
| J-249 | 2,570.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,773.50 | 88.05 |
| J-250 | 2,571.00 | Zone | Demand | 3.21 | Composite | 3.21 | 2,772.69 | 87.26 |
| J-251 | 2,573.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,771.41 | 85.84 |
| J-252 | 2,570.00 | Zone | Demand | 1.29 | IRRIGATION | 1.29 | 2,772.70 | 87.70 |
| J-253 | 2,571.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,772.70 | 87.05 |
| J-254 | 2,573.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,771.91 | 85.84 |
| J-255 | 2,573.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,771.90 | 85.84 |
| J-256 | 2,577.00 | Zone | Demand | 0.25 | COMMERCIAL | 0.25 | 2,770.81 | 83.85 |
| J-257 | 2,628.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,794.64 | 72.10 |
| J-258 | 2,639.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,798.36 | 68.95 |
| J-259 | 2,638.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,798.58 | 69.47 |
| J-260 | 2,635.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,798.60 | 70.78 |
| J-261 | 2,633.00 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,798.60 | 71.65 |
| J-262 | 2,634.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,798.60 | 71.22 |
| J-263 | 2,625.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,798.60 | 75.11 |

Title: INITIAL RUN

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01/17/07 12:45:01

Bentley Systems, Inc. Haestad Methods Solution Center

Watertown, CT 06795 USA

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-264 | 2,634.00 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,798.65 | 71.24 |
| J-265 | 2,633.00 | Zone | Demand | 5.85 | RESIDENTIAL | 5.85 | 2,798.65 | 71.67 |
| J-266 | 2,635.00 | Zone | Demand | 16.54 | RESIDENTIAL | 16.54 | 2,798.87 | 70.90 |
| J-267 | 2,636.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,798.87 | 70.47 |
| J-268 | 2,632.00 | Zone | Demand | 14.59 | RESIDENTIAL | 14.59 | 2,799.14 | 72.31 |
| J-269 | 2,633.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,800.04 | 72.27 |
| J-270 | 2,630.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,800.14 | 73.61 |
| J-271 | 2,632.50 | Zone | Demand | 2.46 | Composite | 2.46 | 2,800.17 | 72.54 |
| J-272 | 2,638.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,800.16 | 70.16 |
| J-273 | 2,634.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,800.19 | 71.90 |
| J-274 | 2,634.50 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,800.18 | 71.68 |
| J-275 | 2,635.00 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,800.21 | 71.48 |
| J-276 | 2,635.70 | Zone | Demand | 14.59 | RESIDENTIAL | 14.59 | 2,800.23 | 71.19 |
| J-277 | 2,636.00 | Zone | Demand | 17.92 | RESIDENTIAL | 17.92 | 2,800.23 | 71.05 |
| J-278 | 2,641.00 | Zone | Demand | 19.47 | RESIDENTIAL | 19.47 | 2,800.41 | 68.97 |
| J-279 | 2,638.00 | Zone | Demand | 4.46 | Composite | 4.46 | 2,800.67 | 70.38 |
| J-280 | 2,639.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,801.29 | 70.21 |
| J-281 | 2,653.00 | Zone | Demand | 6.25 | Composite | 6.25 | 2,820.58 | 72.50 |
| J-282 | 2,644.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,821.07 | 76.61 |
| J-283 | 2,640.00 | Zone | Demand | 4.24 | Composite | 4.24 | 2,821.07 | 78.34 |
| J-284 | 2,638.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,821.37 | 79.34 |
| J-285 | 2,636.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,821.37 | 80.20 |
| J-286 | 2,635.00 | Zone | Demand | 5.60 | RESIDENTIAL | 5.60 | 2,821.37 | 80.63 |
| J-287 | 2,639.00 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,821.71 | 79.05 |
| J-288 | 2,637.00 | Zone | Demand | 15.57 | RESIDENTIAL | 15.57 | 2,821.62 | 79.88 |
| J-289 | 2,644.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,821.87 | 76.95 |
| J-290 | 2,647.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,821.86 | 75.65 |
| J-291 | 2,643.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,821.86 | 77.39 |
| J-292 | 2,654.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,821.86 | 72.63 |
| J-293 | 2,654.00 | Zone | Demand | 5.50 | Composite | 5.50 | 2,822.16 | 72.76 |
| J-294 | 2,667.00 | Zone | Demand | 8.03 | IRRIGATION | 8.03 | 2,836.18 | 73.19 |
| J-295 | 2,565.50 | Zone | Demand | 3.21 | COMMERCIAL | 3.21 | 2,784.88 | 94.91 |
| J-296 | 2,667.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,836.50 | 73.34 |
| J-297 | 2,667.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,836.50 | 73.34 |
| J-298 | 2,665.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,840.55 | 75.74 |
| J-299 | 2,670.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,841.14 | 74.04 |
| J-300 | 2,670.00 | Zone | Demand | 0.97 | RESIDENTIAL | 0.97 | 2,841.14 | 74.04 |
| J-301 | 2,664.00 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,843.35 | 77.60 |
| J-302 | 2,664.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,841.08 | 76.40 |
| J-303 | 2,667.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,845.35 | 77.16 |
| J-304 | 2,670.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,845.35 | 75.87 |
| J-305 | 2,667.00 | Zone | Demand | 14.59 | RESIDENTIAL | 14.59 | 2,847.81 | 78.23 |
| J-306 | 2,665.00 | Zone | Demand | 15.57 | RESIDENTIAL | 15.57 | 2,850.14 | 80.10 |
| J-307 | 2,664.00 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,854.19 | 82.28 |
| J-308 | 2,670.00 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,854.17 | 79.68 |
| J-309 | 2,660.00 | Zone | Demand | 16.54 | RESIDENTIAL | 16.54 | 2,857.27 | 85.35 |
| J-310 | 2,662.50 | Zone | Demand | 25.29 | RESIDENTIAL | 25.29 | 2,859.19 | 85.10 |
| J-311 | 2,665.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,840.66 | 75.78 |
| J-312 | 2,655.00 | Zone | Demand | 274.77 | Composite | 274.77 | 2,854.80 | 86.44 |
| J-313 | 2,652.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,856.70 | 88.56 |
| J-314 | 2,660.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,841.03 | 78.11 |
| J-315 | 2,645.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,864.23 | 94.85 |

Title: INITIAL RUN

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01/17/07 12:45:01 PM Bentley Systems, Inc.

Haestad Methods Solution Center

Watertown, CT 06795 USA

+1-203-755-1666

Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF
Fire Flow Analysis
Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-316 | 2,643.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,750.34 | 46.44 |
| J-317 | 2,631.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.66 | 64.75 |
| J-318 | 2,577.50 | Zone | Demand | 14.59 | RESIDENTIAL | 14.59 | 2,778.86 | 87.12 |
| J-319 | 2,566.00 | Zone | Demand | 34.72 | Composite | 34.72 | 2,778.62 | 91.99 |
| J-320 | 2,563.00 | Zone | Demand | 8.96 | RESIDENTIAL | 8.96 | 2,777.54 | 92.82 |
| J-321 | 2,647.50 | Zone | Demand | 18.48 | RESIDENTIAL | 18.48 | 2,862.76 | 93.13 |
| J-322 | 2,592.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,748.49 | 67.70 |
| J-323 | 2,572.50 | Zone | Demand | 12.32 | RESIDENTIAL | 12.32 | 2,759.76 | 81.02 |
| J-325 | 2,645.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,865.00 | 94.97 |
| J-326 | 2,565.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,774.35 | 90.36 |
| J-327 | 2,565.50 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,774.13 | 90.27 |
| J-328 | 2,565.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,774.13 | 90.48 |
| J-329 | 2,565.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,773.81 | 90.13 |
| J-330 | 2,565.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,773.81 | 90.34 |
| J-331 | 2,566.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,773.50 | 89.78 |
| J-332 | 2,568.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,771.61 | 87.88 |
| J-333 | 2,569.50 | Zone | Demand | 1.03 | Composite | 1.03 | 2,771.55 | 87.42 |
| J-334 | 2,571.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,771.67 | 86.60 |
| J-335 | 2,572.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,771.99 | 86.53 |
| J-336 | 2,571.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,771.12 | 86.58 |
| J-337 | 2,571.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,770.06 | 86.13 |
| J-338 | 2,572.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,770.72 | 85.98 |
| J-339 | 2,573.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,770.72 | 85.54 |
| J-340 | 2,572.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,771.41 | 86.27 |
| J-341 | 2,571.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,767.72 | 85.11 |
| J-342 | 2,572.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,767.72 | 84.68 |
| J-343 | 2,570.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,765.83 | 84.73 |
| J-344 | 2,573.50 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,761.88 | 81.50 |
| J-345 | 2,572.00 | Zone | Demand | 15.73 | Composite | 15.73 | 2,760.58 | 81.59 |
| J-346 | 2,632.00 | Zone | Demand | 6.43 | Composite | 6.43 | 2,821.53 | 82.00 |
| J-347 | 2,630.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,821.52 | 82.65 |
| J-348 | 2,630.00 | Zone | Demand | 17.92 | RESIDENTIAL | 17.92 | 2,821.52 | 82.86 |
| J-349 | 2,633.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,821.52 | 81.56 |
| J-350 | 2,638.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,821.61 | 79.44 |
| J-351 | 2,640.00 | Zone | Demand | 8.76 | RESIDENTIAL | 8.76 | 2,821.61 | 78.57 |
| J-352 | 2,640.50 | Zone | Demand | 17.92 | RESIDENTIAL | 17.92 | 2,821.61 | 78.36 |
| J-353 | 2,680.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,854.17 | 75.35 |
| J-354 | 2,695.00 | Zone | Demand | 12.66 | RESIDENTIAL | 12.66 | 2,854.16 | 68.86 |
| J-355 | 2,682.50 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,854.16 | 74.27 |
| J-356 | 2,678.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,854.16 | 76.00 |
| J-357 | 2,700.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,854.16 | 66.70 |
| J-358 | 2,699.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,836.18 | 59.35 |
| J-359 | 2,701.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,836.18 | 58.48 |
| J-360 | 2,717.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,836.18 | 51.56 |
| J-361 | 2,552.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,774.59 | 96.09 |
| J-364 | 2,554.00 | Zone | Demand | 5.81 | COMMERCIAL | 5.81 | 2,778.24 | 97.02 |
| J-365 | 2,554.00 | Zone | Demand | 0.96 | COMMERCIAL | 0.96 | 2,778.24 | 97.02 |
| J-366 | 2,554.00 | Zone | Demand | 3.02 | COMMERCIAL | 3.02 | 2,778.24 | 97.02 |
| J-367 | 2,550.00 | Zone | Demand | 9.87 | COMMERCIAL | 9.87 | 2,778.72 | 98.96 |
| J-368 | 2,580.00 | Zone | Demand | 7.16 | IRRIGATION | 7.16 | 2,777.58 | 85.48 |
| J-369 | 2,550.50 | Zone | Demand | 1.16 | COMMERCIAL | 1.16 | 2,778.43 | 98.61 |
| J-370 | 2,578.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.58 | 86.13 |

Title: INITIAL RUN

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01/17/07 12:45:01

Bentley Systems, Inc.

Haestad Methods Solution Center

Watertown, CT 06795 USA

+1-203-755-1666

Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-371 | 2,554.00 | Zone | Demand | 19.01 | COMMERCIAL | 19.01 | 2,778.46 | 97.11 |
| J-372 | 2,555.50 | Zone | Demand | 9.53 | IRRIGATION | 9.53 | 2,778.48 | 96.47 |
| J-373 | 2,556.00 | Zone | Demand | 2.20 | COMMERCIAL | 2.20 | 2,778.48 | 96.26 |
| J-374 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.48 | 96.26 |
| J-375 | 2,550.00 | Zone | Demand | 0.73 | COMMERCIAL | 0.73 | 2,778.49 | 98.86 |
| J-376 | 2,549.50 | Zone | Demand | 15.08 | COMMERCIAL | 15.08 | 2,778.49 | 99.07 |
| J-377 | 2,549.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.49 | 99.07 |
| J-378 | 2,550.00 | Zone | Demand | 12.40 | COMMERCIAL | 12.40 | 2,778.49 | 98.86 |
| J-379 | 2,549.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.52 | 99.09 |
| J-380 | 2,589.00 | Zone | Demand | 13.19 | COMMERCIAL | 13.19 | 2,779.27 | 82.32 |
| J-381 | 2,593.50 | Zone | Demand | 1.62 | COMMERCIAL | 1.62 | 2,779.27 | 80.37 |
| J-382 | 2,547.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.60 | 99.99 |
| J-383 | 2,548.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.62 | 99.56 |
| J-384 | 2,548.50 | Zone | Demand | 5.63 | COMMERCIAL | 5.63 | 2,778.62 | 99.56 |
| J-385 | 2,557.00 | Zone | Demand | 0.94 | COMMERCIAL | 0.94 | 2,779.19 | 96.13 |
| J-386 | 2,556.00 | Zone | Demand | 17.77 | COMMERCIAL | 17.77 | 2,778.69 | 96.35 |
| J-387 | 2,556.00 | Zone | Demand | 1.74 | Composite | 1.74 | 2,778.71 | 96.36 |
| J-388 | 2,559.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.10 | 95.23 |
| J-389 | 2,554.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.25 | 97.46 |
| J-390 | 2,553.50 | Zone | Demand | 10.30 | Composite | 10.30 | 2,779.25 | 97.67 |
| J-391 | 2,555.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.25 | 97.02 |
| J-392 | 2,554.00 | Zone | Demand | 7.77 | COMMERCIAL | 7.77 | 2,779.25 | 97.46 |
| J-393 | 2,552.50 | Zone | Demand | 10.08 | Composite | 10.08 | 2,779.25 | 98.10 |
| J-394 | 2,557.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.28 | 96.17 |
| J-395 | 2,558.00 | Zone | Demand | 1.07 | COMMERCIAL | 1.07 | 2,779.22 | 95.71 |
| J-396 | 2,560.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.11 | 94.80 |
| J-397 | 2,560.00 | Zone | Demand | 10.42 | Composite | 10.42 | 2,779.11 | 94.80 |
| J-398 | 2,552.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.41 | 98.39 |
| J-399 | 2,554.00 | Zone | Demand | 18.48 | RESIDENTIAL | 18.48 | 2,779.33 | 97.49 |
| J-400 | 2,556.50 | Zone | Demand | 13.43 | Composite | 13.43 | 2,779.28 | 96.39 |
| J-401 | 2,559.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.17 | 95.04 |
| J-402 | 2,555.50 | Zone | Demand | 2.47 | COMMERCIAL | 2.47 | 2,779.81 | 97.05 |
| J-403 | 2,555.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.68 | 97.21 |
| J-404 | 2,562.50 | Zone | Demand | 0.42 | COMMERCIAL | 0.42 | 2,780.27 | 94.22 |
| J-405 | 2,567.00 | Zone | Demand | 3.66 | COMMERCIAL | 3.66 | 2,780.43 | 92.34 |
| J-406 | 2,553.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.52 | 97.79 |
| J-407 | 2,563.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,780.92 | 94.28 |
| J-408 | 2,565.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.86 | 92.53 |
| J-409 | 2,558.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.19 | 95.70 |
| J-410 | 2,627.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,780.53 | 66.21 |
| J-411 | 2,621.00 | Zone | Demand | 7.65 | Composite | 7.65 | 2,780.22 | 68.88 |
| J-412 | 2,602.50 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,779.89 | 76.75 |
| J-413 | 2,599.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,779.76 | 78.20 |
| J-414 | 2,716.00 | Zone | Demand | 3.88 | RESIDENTIAL | 3.88 | 2,854.16 | 59.77 |
| J-415 | 2,718.00 | Zone | Demand | 8.75 | Composite | 8.75 | 2,854.16 | 58.91 |
| J-416 | 2,733.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,854.16 | 52.42 |
| J-417 | 2,722.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,854.16 | 57.18 |
| J-418 | 2,559.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,774.85 | 93.17 |
| J-419 | 2,560.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,774.85 | 92.74 |
| J-420 | 2,573.50 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,774.48 | 86.95 |
| J-421 | 2,574.50 | Zone | Demand | 15.57 | Composite | 15.57 | 2,774.13 | 86.37 |
| J-422 | 2,573.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,774.53 | 87.19 |

Title: INITIAL RUN

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01/17/07 12:45:01 BENTLEY Systems, Inc.

Haestad Methods Solution Center

Watertown, CT 06795 USA

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-423 | 2,565.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,774.69 | 90.51 |
| J-424 | 2,566.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,774.69 | 90.29 |
| J-425 | 2,578.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.11 | 86.58 |
| J-426 | 2,578.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.11 | 86.58 |
| J-427 | 2,579.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.44 | 85.64 |
| J-428 | 2,579.50 | Zone | Demand | 0.58 | COMMERCIAL | 0.58 | 2,777.50 | 85.66 |
| J-429 | 2,576.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.53 | 87.19 |
| J-430 | 2,576.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.53 | 87.19 |
| J-431 | 2,576.50 | Zone | Demand | 0.00 | COMMERCIAL | 0.00 | 2,777.54 | 86.98 |
| J-432 | 2,576.50 | Zone | Demand | 0.00 | COMMERCIAL | 0.00 | 2,777.54 | 86.98 |
| J-433 | 2,572.50 | Zone | Demand | 0.00 | COMMERCIAL | 0.00 | 2,777.55 | 88.72 |
| J-434 | 2,572.50 | Zone | Demand | 0.00 | Composite | 0.00 | 2,777.55 | 88.72 |
| J-435 | 2,578.50 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,777.55 | 86.12 |
| J-436 | 2,579.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,777.55 | 85.90 |
| J-437 | 2,578.50 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,777.55 | 86.12 |
| J-438 | 2,579.50 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,777.55 | 85.69 |
| J-439 | 2,580.50 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,777.55 | 85.25 |
| J-440 | 2,580.00 | Zone | Demand | 0.82 | Composite | 0.82 | 2,777.55 | 85.47 |
| J-441 | 2,554.00 | Zone | Demand | 11.15 | IRRIGATION | 11.15 | 2,778.81 | 97.27 |
| J-442 | 2,592.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.38 | 80.86 |
| J-443 | 2,556.00 | Zone | Demand | 7.55 | RESIDENTIAL | 7.55 | 2,778.71 | 96.36 |
| J-444 | 2,554.00 | Zone | Demand | 0.72 | COMMERCIAL | 0.72 | 2,778.74 | 97.24 |
| J-445 | 2,554.00 | Zone | Demand | 0.11 | IRRIGATION | 0.11 | 2,778.73 | 97.23 |
| J-446 | 2,555.00 | Zone | Demand | 8.72 | IRRIGATION | 8.72 | 2,778.78 | 96.82 |
| J-447 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.80 | 96.40 |
| J-448 | 2,555.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.80 | 96.83 |
| J-449 | 2,554.50 | Zone | Demand | 1.25 | COMMERCIAL | 1.25 | 2,778.80 | 97.04 |
| J-450 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.81 | 96.40 |
| J-451 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.84 | 96.41 |
| J-452 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.86 | 96.42 |
| J-453 | 2,556.50 | Zone | Demand | 0.12 | COMMERCIAL | 0.12 | 2,778.87 | 96.21 |
| J-454 | 2,557.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.89 | 96.00 |
| J-455 | 2,557.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.90 | 96.01 |
| J-456 | 2,558.00 | Zone | Demand | 1.84 | IRRIGATION | 1.84 | 2,778.92 | 95.58 |
| J-457 | 2,558.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.95 | 95.38 |
| J-458 | 2,558.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.92 | 95.58 |
| J-459 | 2,557.00 | Zone | Demand | 0.24 | COMMERCIAL | 0.24 | 2,778.87 | 95.99 |
| J-460 | 2,556.50 | Zone | Demand | 0.01 | COMMERCIAL | 0.01 | 2,778.84 | 96.20 |
| J-461 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.81 | 96.40 |
| J-462 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.84 | 96.41 |
| J-463 | 2,557.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.84 | 95.98 |
| J-464 | 2,557.00 | Zone | Demand | 0.55 | IRRIGATION | 0.55 | 2,778.84 | 95.98 |
| J-465 | 2,556.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.81 | 96.40 |
| J-466 | 2,557.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.84 | 95.76 |
| J-467 | 2,558.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.84 | 95.33 |
| J-468 | 2,558.00 | Zone | Demand | 0.03 | COMMERCIAL | 0.03 | 2,778.84 | 95.55 |
| J-469 | 2,557.50 | Zone | Demand | 0.07 | COMMERCIAL | 0.07 | 2,778.84 | 95.76 |
| J-470 | 2,558.00 | Zone | Demand | 0.01 | COMMERCIAL | 0.01 | 2,778.84 | 95.55 |
| J-471 | 2,554.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.58 | 97.38 |
| J-472 | 2,554.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.58 | 97.38 |
| J-473 | 2,555.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.64 | 96.98 |
| J-474 | 2,559.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.92 | 94.93 |

Title: INITIAL RUN

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01/17/07 12:45:01 Bentley Systems, Inc.

Haestad Methods Solution Center

Watertown, CT 06795 USA

+1-203-755-1666

Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-475 | 2,558.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.96 | 95.60 |
| J-476 | 2,553.00 | Zone | Demand | 0.03 | COMMERCIAL | 0.03 | 2,778.80 | 97.69 |
| J-477 | 2,553.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.00 | 97.78 |
| J-478 | 2,555.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.64 | 96.98 |
| J-479 | 2,553.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.00 | 97.56 |
| J-480 | 2,553.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.00 | 97.56 |
| J-481 | 2,555.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.00 | 96.70 |
| J-482 | 2,552.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.00 | 98.00 |
| J-483 | 2,554.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.00 | 97.35 |
| J-484 | 2,554.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.00 | 97.35 |
| J-485 | 2,554.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.00 | 97.35 |
| J-486 | 2,554.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.00 | 97.35 |
| J-487 | 2,552.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.00 | 98.00 |
| J-488 | 2,552.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.00 | 98.00 |
| J-489 | 2,561.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,774.89 | 92.54 |
| J-490 | 2,565.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,774.60 | 90.47 |
| J-491 | 2,565.50 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,774.60 | 90.47 |
| J-492 | 2,569.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,774.41 | 88.87 |
| J-493 | 2,570.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,774.41 | 88.44 |
| J-494 | 2,575.50 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,774.13 | 85.94 |
| J-495 | 2,639.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,821.49 | 78.74 |
| J-496 | 2,628.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,821.47 | 83.49 |
| J-497 | 2,628.50 | Zone | Demand | 56.00 | RESIDENTIAL | 56.00 | 2,821.46 | 83.49 |
| J-498 | 2,628.00 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,821.46 | 83.70 |
| J-499 | 2,628.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,821.46 | 83.70 |
| J-500 | 2,625.50 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,821.46 | 84.78 |
| J-501 | 2,613.50 | Zone | Demand | 11.55 | RESIDENTIAL | 11.55 | 2,821.45 | 89.97 |
| J-502 | 2,612.50 | Zone | Demand | 15.58 | IRRIGATION | 15.58 | 2,821.45 | 90.40 |
| J-503 | 2,616.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,821.46 | 88.67 |
| J-504 | 2,587.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.34 | 83.00 |
| J-505 | 2,587.50 | Zone | Demand | 0.01 | COMMERCIAL | 0.01 | 2,779.33 | 83.00 |
| J-506 | 2,584.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.34 | 84.51 |
| J-507 | 2,618.00 | Zone | Demand | 6.83 | RESIDENTIAL | 6.83 | 2,779.64 | 69.93 |
| J-508 | 2,592.00 | Zone | Demand | 11.67 | RESIDENTIAL | 11.67 | 2,779.44 | 81.10 |
| J-509 | 2,588.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,779.44 | 82.83 |
| J-510 | 2,594.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,779.44 | 80.23 |
| J-511 | 2,594.50 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,779.55 | 80.06 |
| J-512 | 2,595.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,779.55 | 79.84 |
| J-513 | 2,612.00 | Zone | Demand | 7.79 | RESIDENTIAL | 7.79 | 2,779.64 | 72.53 |
| J-514 | 2,601.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,779.59 | 77.05 |
| J-515 | 2,593.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,779.59 | 80.51 |
| J-516 | 2,612.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,779.64 | 72.53 |
| J-517 | 2,589.00 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,779.59 | 82.46 |
| J-518 | 2,603.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,779.61 | 76.41 |
| J-519 | 2,604.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,779.61 | 75.98 |
| J-520 | 2,604.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,779.64 | 75.78 |
| J-521 | 2,616.50 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,779.64 | 70.58 |
| J-522 | 2,575.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,761.26 | 80.59 |
| J-523 | 2,578.00 | Zone | Demand | 2.25 | Composite | 2.25 | 2,761.26 | 79.29 |
| J-524 | 2,574.00 | Zone | Demand | 16.61 | IRRIGATION | 16.61 | 2,760.82 | 80.83 |
| J-525 | 2,559.50 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,774.91 | 93.20 |
| J-527 | 2,572.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,774.53 | 87.62 |

Title: INITIAL RUN

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01/17/07 12:45:01 Bentley Systems, Inc.

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-528 | 2,590.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,779.22 | 81.87 |
| J-529 | 2,546.00 | Zone | Demand | 12.63 | RESIDENTIAL | 12.63 | 2,774.51 | 98.87 |
| J-530 | 2,552.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,774.60 | 96.31 |
| J-531 | 2,579.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.86 | 86.47 |
| J-532 | 2,572.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,778.39 | 89.08 |
| J-533 | 2,572.00 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,778.39 | 89.30 |
| J-534 | 2,572.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,777.74 | 88.80 |
| J-535 | 2,572.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.74 | 89.01 |
| J-536 | 2,571.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,777.43 | 89.31 |
| J-537 | 2,569.50 | Zone | Demand | 56.00 | RESIDENTIAL | 56.00 | 2,776.76 | 89.67 |
| J-538 | 2,571.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.87 | 89.50 |
| J-539 | 2,572.00 | Zone | Demand | 2.92 | RESIDENTIAL | 2.92 | 2,777.87 | 89.07 |
| J-540 | 2,571.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,778.39 | 89.51 |
| J-541 | 2,572.50 | Zone | Demand | 1.95 | RESIDENTIAL | 1.95 | 2,778.39 | 89.08 |
| J-542 | 2,572.50 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,778.81 | 89.26 |
| J-543 | 2,553.00 | Zone | Demand | 6.29 | Composite | 6.29 | 2,778.47 | 97.55 |
| J-544 | 2,554.00 | Zone | Demand | 9.30 | Composite | 9.30 | 2,778.46 | 97.11 |
| J-546 | 2,555.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,778.46 | 96.68 |
| J-547 | 2,558.00 | Zone | Demand | 13.13 | Composite | 13.13 | 2,778.87 | 95.56 |
| J-548 | 2,559.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.86 | 95.12 |
| J-549 | 2,559.50 | Zone | Demand | 8.05 | IRRIGATION | 8.05 | 2,778.86 | 94.91 |
| J-550 | 2,559.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.86 | 94.91 |
| J-551 | 2,559.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.87 | 94.91 |
| J-552 | 2,559.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.88 | 94.91 |
| J-553 | 2,557.50 | Zone | Demand | 24.32 | RESIDENTIAL | 24.32 | 2,778.86 | 95.77 |
| J-554 | 2,557.50 | Zone | Demand | 19.46 | RESIDENTIAL | 19.46 | 2,778.86 | 95.77 |
| J-555 | 2,558.50 | Zone | Demand | 10.70 | RESIDENTIAL | 10.70 | 2,778.86 | 95.34 |
| J-556 | 2,559.00 | Zone | Demand | 15.09 | Composite | 15.09 | 2,778.86 | 95.12 |
| J-557 | 2,560.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.88 | 94.70 |
| J-558 | 2,561.50 | Zone | Demand | 19.10 | Composite | 19.10 | 2,778.87 | 94.05 |
| J-559 | 2,559.00 | Zone | Demand | 15.57 | RESIDENTIAL | 15.57 | 2,778.88 | 95.13 |
| J-560 | 2,558.50 | Zone | Demand | 12.26 | Composite | 12.26 | 2,778.88 | 95.35 |
| J-561 | 2,557.50 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,778.89 | 95.78 |
| J-562 | 2,558.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.91 | 95.58 |
| J-563 | 2,557.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.92 | 95.80 |
| J-564 | 2,557.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.91 | 95.80 |
| J-565 | 2,560.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,778.91 | 94.71 |
| J-566 | 2,558.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.98 | 95.39 |
| J-567 | 2,556.00 | Zone | Demand | 3.39 | COMMERCIAL | 3.39 | 2,779.10 | 96.52 |
| J-568 | 2,615.50 | Zone | Demand | 22.40 | RESIDENTIAL | 22.40 | 2,821.46 | 89.11 |
| J-569 | 2,595.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,821.45 | 97.98 |
| J-570 | 2,597.50 | Zone | Demand | 22.40 | RESIDENTIAL | 22.40 | 2,821.45 | 96.89 |
| J-571 | 2,659.00 | Zone | Demand | 22.38 | RESIDENTIAL | 22.38 | 2,840.68 | 78.61 |
| J-572 | 2,643.00 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,840.71 | 85.54 |
| J-573 | 2,643.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,840.71 | 85.32 |
| J-574 | 2,644.00 | Zone | Demand | 9.73 | RESIDENTIAL | 9.73 | 2,840.72 | 85.11 |
| J-575 | 2,643.50 | Zone | Demand | 7.79 | RESIDENTIAL | 7.79 | 2,840.75 | 85.34 |
| J-576 | 2,661.00 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,841.06 | 77.90 |
| J-577 | 2,649.00 | Zone | Demand | 16.54 | RESIDENTIAL | 16.54 | 2,840.94 | 83.05 |
| J-578 | 2,649.00 | Zone | Demand | 6.81 | RESIDENTIAL | 6.81 | 2,840.91 | 83.03 |
| J-579 | 2,642.00 | Zone | Demand | 14.59 | RESIDENTIAL | 14.59 | 2,840.95 | 86.07 |
| J-580 | 2,645.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,840.95 | 84.78 |

Title: INITIAL RUN

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01/17/07 12:45:01 PM Bentley Systems, Inc.

Haestad Methods Solution Center

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-581 | 2,643.50 | Zone | Demand | 0.97 | RESIDENTIAL | 0.97 | 2,840.95 | 85.43 |
| J-582 | 2,643.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,840.95 | 85.43 |
| J-583 | 2,648.00 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,840.96 | 83.48 |
| J-584 | 2,654.50 | Zone | Demand | 3.89 | RESIDENTIAL | 3.89 | 2,840.99 | 80.69 |
| J-585 | 2,652.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,840.99 | 81.77 |
| J-586 | 2,650.50 | Zone | Demand | 5.84 | RESIDENTIAL | 5.84 | 2,840.99 | 82.42 |
| J-587 | 2,652.00 | Zone | Demand | 7.78 | RESIDENTIAL | 7.78 | 2,805.49 | 66.41 |
| J-588 | 2,583.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.51 | 84.15 |
| J-589 | 2,576.50 | Zone | Demand | 0.26 | COMMERCIAL | 0.26 | 2,777.26 | 86.86 |
| J-590 | 2,574.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.26 | 87.73 |
| J-591 | 2,579.50 | Zone | Demand | 0.36 | COMMERCIAL | 0.36 | 2,777.77 | 85.78 |
| J-592 | 2,578.00 | Zone | Demand | 0.55 | Composite | 0.55 | 2,777.77 | 86.43 |
| J-593 | 2,579.50 | Zone | Demand | 77.59 | IRRIGATION | 77.59 | 2,777.41 | 85.62 |
| J-594 | 2,578.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,777.45 | 86.07 |
| J-595 | 2,578.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.95 | 86.08 |
| J-596 | 2,578.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.83 | 86.03 |
| J-597 | 2,578.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.83 | 85.81 |
| J-598 | 2,577.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.38 | 86.05 |
| J-599 | 2,576.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.38 | 86.70 |
| J-600 | 2,576.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.38 | 86.70 |
| J-601 | 2,577.00 | Zone | Demand | 5.64 | COMMERCIAL | 5.64 | 2,776.38 | 86.26 |
| J-602 | 2,577.50 | Zone | Demand | 9.84 | COMMERCIAL | 9.84 | 2,776.38 | 86.05 |
| J-603 | 2,575.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.38 | 86.91 |
| J-604 | 2,577.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,776.38 | 86.26 |
| J-605 | 2,578.00 | Zone | Demand | 2.87 | COMMERCIAL | 2.87 | 2,775.36 | 85.39 |
| J-606 | 2,578.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,775.36 | 85.39 |
| J-607 | 2,572.00 | Zone | Demand | 2.01 | COMMERCIAL | 2.01 | 2,772.93 | 86.93 |
| J-608 | 2,575.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,772.93 | 85.42 |
| J-609 | 2,575.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,772.93 | 85.42 |
| J-610 | 2,577.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,771.60 | 84.19 |
| J-611 | 2,577.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,771.60 | 83.98 |
| J-612 | 2,577.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,771.40 | 83.89 |
| J-613 | 2,577.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,771.40 | 83.89 |
| J-614 | 2,577.50 | Zone | Demand | 21.28 | Composite | 21.28 | 2,771.25 | 83.83 |
| J-615 | 2,578.00 | Zone | Demand | 0.00 | COMMERCIAL | 0.00 | 2,771.25 | 83.61 |
| J-616 | 2,580.00 | Zone | Demand | 21.28 | Composite | 21.28 | 2,770.31 | 82.34 |
| J-617 | 2,562.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,781.70 | 95.05 |
| J-618 | 2,562.00 | Zone | Demand | 23.52 | Composite | 23.52 | 2,781.95 | 95.16 |
| J-619 | 2,562.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,781.95 | 95.16 |
| J-620 | 2,566.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,783.77 | 94.00 |
| J-621 | 2,566.00 | Zone | Demand | 0.11 | COMMERCIAL | 0.11 | 2,784.02 | 94.33 |
| J-622 | 2,566.50 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,784.02 | 94.11 |
| J-623 | 2,567.50 | Zone | Demand | 23.52 | Composite | 23.52 | 2,784.02 | 93.68 |
| J-624 | 2,567.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,784.60 | 94.15 |
| J-625 | 2,567.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,784.92 | 94.28 |
| J-628 | 2,569.00 | Zone | Demand | 23.52 | Composite | 23.52 | 2,784.80 | 93.37 |
| J-636 | 2,578.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,778.11 | 86.58 |
| J-637 | 2,558.50 | Zone | Demand | 13.62 | RESIDENTIAL | 13.62 | 2,774.62 | 93.51 |
| J-638 | 2,559.00 | Zone | Demand | 29.12 | RESIDENTIAL | 29.12 | 2,774.62 | 93.29 |
| J-639 | 2,556.00 | Zone | Demand | 34.46 | Composite | 34.46 | 2,774.60 | 94.58 |
| J-640 | 2,564.50 | Zone | Demand | 56.00 | RESIDENTIAL | 56.00 | 2,776.22 | 91.60 |
| J-650 | 2,610.00 | Zone | Demand | 22.38 | RESIDENTIAL | 22.38 | 2,780.02 | 73.56 |

Title: INITIAL RUN

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Bentley Systems, Inc. Haestad Methods Solution Center

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Junction Report

| Label | Elevation (ft) | Zone | Type | Base Flow (gpm) | Pattern | Demand (Calculated) (gpm) | Calculated Hydraulic Grade (ft) | Pressure (psi) |
|-------|----------------|------|--------|-----------------|-------------|---------------------------|---------------------------------|----------------|
| J-651 | 2,553.50 | Zone | Demand | 12.65 | RESIDENTIAL | 12.65 | 2,778.80 | 97.48 |
| J-653 | 2,627.00 | Zone | Demand | 16.54 | RESIDENTIAL | 16.54 | 2,788.21 | 69.75 |
| J-654 | 2,682.00 | Zone | Demand | 21.40 | RESIDENTIAL | 21.40 | 2,854.16 | 74.49 |
| J-655 | 2,680.00 | Zone | Demand | 18.48 | RESIDENTIAL | 18.48 | 2,854.16 | 75.35 |
| J-656 | 2,693.00 | Zone | Demand | 23.68 | RESIDENTIAL | 23.68 | 2,854.15 | 69.72 |
| J-657 | 2,563.00 | Zone | Demand | 16.54 | RESIDENTIAL | 16.54 | 2,775.90 | 92.11 |
| J-658 | 2,598.00 | Zone | Demand | 0.30 | RESIDENTIAL | 0.30 | 2,779.18 | 78.39 |
| J-659 | 2,638.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,753.76 | 50.08 |
| J-660 | 2,640.00 | Zone | Demand | 0.62 | COMMERCIAL | 0.62 | 2,753.76 | 49.22 |
| J-661 | 2,641.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,753.76 | 48.79 |
| J-750 | 2,652.00 | Zone | Demand | 0.00 | RESIDENTIAL | 0.00 | 2,856.70 | 88.56 |
| J-751 | 2,571.00 | Zone | Demand | 4.86 | RESIDENTIAL | 4.86 | 2,765.83 | 84.29 |
| J-752 | 2,567.00 | Zone | Demand | 20.81 | COMMERCIAL | 20.81 | 2,781.63 | 92.86 |
| J-813 | 2,565.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,775.23 | 90.96 |
| J-814 | 2,560.50 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,774.89 | 92.76 |
| J-822 | 2,615.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,779.65 | 71.24 |
| J-823 | 2,636.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,792.35 | 67.64 |
| J-824 | 2,621.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,788.31 | 72.39 |
| J-825 | 2,609.00 | Zone | Demand | 12.32 | COMMERCIAL | 12.32 | 2,763.97 | 67.05 |
| J-826 | 2,579.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,777.45 | 85.86 |
| J-827 | 2,579.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,777.50 | 85.88 |
| J-828 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,777.64 | 83.34 |
| J-829 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,777.61 | 83.33 |
| J-830 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,777.57 | 83.32 |
| J-831 | 2,585.00 | Zone | Demand | 109.76 | Fixed | 109.76 | 2,777.57 | 83.31 |
| J-832 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,777.56 | 83.31 |
| J-833 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,777.56 | 83.31 |
| J-834 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,777.55 | 83.31 |
| J-835 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,777.56 | 83.31 |
| J-836 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,777.56 | 83.31 |
| J-837 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,777.56 | 83.31 |
| J-838 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,777.56 | 83.31 |
| J-840 | 2,585.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,777.62 | 83.34 |
| J-841 | 2,564.50 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,776.33 | 91.65 |
| J-842 | 2,552.50 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,774.82 | 96.19 |
| J-843 | 2,560.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,775.84 | 93.38 |
| J-844 | 2,663.30 | Zone | Demand | 0.68 | RESIDENTIAL | 0.68 | 2,831.11 | 72.60 |
| J-845 | 2,664.70 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,833.02 | 72.83 |
| J-846 | 2,665.90 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,834.76 | 73.06 |
| J-847 | 2,661.70 | Zone | Demand | 2.04 | RESIDENTIAL | 2.04 | 2,831.11 | 73.30 |
| J-848 | 2,664.70 | Zone | Demand | 1.37 | RESIDENTIAL | 1.37 | 2,833.02 | 72.83 |
| J-849 | 2,665.90 | Zone | Demand | 1.37 | RESIDENTIAL | 1.37 | 2,834.76 | 73.06 |
| J-850 | 2,567.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,785.00 | 94.32 |
| J-851 | 2,574.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,771.60 | 85.49 |
| J-852 | 2,574.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,771.60 | 85.49 |
| J-853 | 2,575.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,771.60 | 85.06 |
| J-901 | 2,591.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,779.63 | 81.61 |
| J-906 | 2,553.50 | Zone | Demand | 4.26 | COMMERCIAL | 4.26 | 2,774.59 | 95.66 |
| J-917 | 2,625.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,781.56 | 67.74 |
| J-981 | 2,640.00 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,742.42 | 44.31 |
| J-982 | 2,644.50 | Zone | Demand | 0.00 | Fixed | 0.00 | 2,750.21 | 45.74 |

Title: INITIAL RUN

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Bentley Systems, Inc. Haestad Methods Solution Center

Watertown, CT 06795 USA

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Project Engineer: DMC

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Scenario: 2026 WELL 6 OFF
Fire Flow Analysis
Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-1 | 370.00 | 8.0 | PVC | Open | | 312.62 | 2.00 | 2,777.39 | 2,776.69 | 1.89 | 0.70 |
| P-2 | 266.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,777.39 | 2,777.39 | 0.00 | 0.00 |
| P-3 | 365.00 | 8.0 | PVC | Open | | 323.36 | 2.06 | 2,778.12 | 2,777.39 | 2.01 | 0.73 |
| P-4 | 357.00 | 8.0 | PVC | Open | | 204.44 | 1.30 | 2,778.43 | 2,778.12 | 0.85 | 0.30 |
| P-5 | 369.00 | 8.0 | PVC | Open | | 72.13 | 0.46 | 2,778.47 | 2,778.43 | 0.13 | 0.05 |
| P-6 | 223.00 | 6.0 | PVC | Open | | 1.16 | 0.01 | 2,778.47 | 2,778.47 | 0.00 | 0.00 |
| P-7 | 358.00 | 8.0 | PVC | Open | | 73.29 | 0.47 | 2,778.52 | 2,778.47 | 0.13 | 0.05 |
| P-8 | 530.00 | 8.0 | PVC | Open | | 49.47 | 0.32 | 2,778.52 | 2,778.48 | 0.06 | 0.03 |
| P-9 | 320.00 | 8.0 | PVC | Open | | 10.08 | 0.06 | 2,778.48 | 2,778.48 | 0.00 | 0.00 |
| P-10 | 680.00 | 8.0 | PVC | Open | | 99.65 | 0.64 | 2,778.67 | 2,778.52 | 0.23 | 0.15 |
| P-11 | 314.00 | 8.0 | PVC | Open | | 127.07 | 0.81 | 2,778.63 | 2,778.52 | 0.35 | 0.11 |
| P-12 | 520.00 | 8.0 | PVC | Open | | 56.30 | 0.36 | 2,778.67 | 2,778.63 | 0.08 | 0.04 |
| P-13 | 660.00 | 8.0 | PVC | Open | | 59.31 | 0.38 | 2,778.73 | 2,778.67 | 0.09 | 0.06 |
| P-14 | 130.00 | 6.0 | PVC | Open | | 2.92 | 0.03 | 2,778.67 | 2,778.67 | 0.00 | 0.00 |
| P-15 | 770.00 | 6.0 | PVC | Open | | -16.44 | 0.19 | 2,778.67 | 2,778.70 | 0.04 | 0.03 |
| P-16 | 446.00 | 8.0 | PVC | Open | | 81.47 | 0.52 | 2,778.70 | 2,778.63 | 0.16 | 0.07 |
| P-17 | 380.00 | 8.0 | PVC | Open | | 109.58 | 0.70 | 2,778.80 | 2,778.70 | 0.27 | 0.10 |
| P-18 | 270.00 | 8.0 | PVC | Open | | 32.59 | 0.21 | 2,778.80 | 2,778.79 | 0.03 | 0.01 |
| P-19 | 440.00 | 8.0 | PVC | Open | | -29.66 | 0.19 | 2,778.77 | 2,778.78 | 0.03 | 0.01 |
| P-20 | 83.00 | 8.0 | PVC | Open | | 6.09 | 0.04 | 2,778.78 | 2,778.78 | 0.00 | 0.00 |
| P-21 | 72.00 | 8.0 | PVC | Open | | -27.51 | 0.18 | 2,778.81 | 2,778.81 | 0.02 | 0.00 |
| P-22 | 572.00 | 8.0 | PVC | Open | | -45.19 | 0.29 | 2,778.78 | 2,778.81 | 0.05 | 0.03 |
| P-23 | 195.00 | 6.0 | PVC | Open | | 48.14 | 0.55 | 2,778.84 | 2,778.79 | 0.24 | 0.05 |
| P-24 | 826.00 | 6.0 | PVC | Open | | -14.38 | 0.16 | 2,778.84 | 2,778.86 | 0.03 | 0.02 |
| P-25 | 368.00 | 8.0 | PVC | Open | | 72.04 | 0.46 | 2,778.86 | 2,778.82 | 0.13 | 0.05 |
| P-26 | 282.00 | 8.0 | PVC | Open | | 92.40 | 0.59 | 2,778.92 | 2,778.86 | 0.20 | 0.06 |
| P-27 | 228.00 | 8.0 | PVC | Open | | 107.96 | 0.69 | 2,778.98 | 2,778.92 | 0.26 | 0.06 |
| P-28 | 603.00 | 8.0 | PVC | Open | | 63.80 | 0.41 | 2,778.98 | 2,778.92 | 0.10 | 0.06 |
| P-29 | 340.00 | 6.0 | PVC | Open | | 46.41 | 0.53 | 2,778.92 | 2,778.84 | 0.23 | 0.08 |
| P-30 | 560.00 | 8.0 | PVC | Open | | -1.82 | 0.01 | 2,778.92 | 2,778.92 | 0.00 | 0.00 |
| P-31 | 249.00 | 8.0 | PVC | Open | | 148.98 | 0.95 | 2,778.92 | 2,778.80 | 0.47 | 0.12 |
| P-32 | 660.00 | 8.0 | PVC | Open | | 160.78 | 1.03 | 2,779.28 | 2,778.92 | 0.54 | 0.36 |
| P-33 | 400.00 | 6.0 | PVC | Open | | 4.57 | 0.05 | 2,779.28 | 2,779.27 | 0.00 | 0.00 |
| P-34 | 171.00 | 8.0 | PVC | Open | | 168.26 | 1.07 | 2,779.38 | 2,779.28 | 0.59 | 0.10 |
| P-35 | 375.00 | 8.0 | PVC | Open | | 136.01 | 0.87 | 2,779.53 | 2,779.38 | 0.40 | 0.15 |
| P-36 | 180.00 | 6.0 | PVC | Open | | -10.06 | 0.11 | 2,779.52 | 2,779.53 | 0.01 | 0.00 |
| P-37 | 318.00 | 6.0 | PVC | Open | | 11.67 | 0.13 | 2,779.52 | 2,779.52 | 0.02 | 0.01 |
| P-38 | 310.00 | 6.0 | PVC | Open | | 5.50 | 0.06 | 2,779.52 | 2,779.52 | 0.00 | 0.00 |
| P-39 | 238.00 | 6.0 | PVC | Open | | -33.09 | 0.38 | 2,779.49 | 2,779.52 | 0.13 | 0.03 |
| P-40 | 250.00 | 6.0 | Asbestos | Open | | -18.29 | 0.21 | 2,779.48 | 2,779.49 | 0.04 | 0.01 |
| P-41 | 164.00 | 8.0 | PVC | Open | | 9.60 | 0.06 | 2,779.48 | 2,779.48 | 0.00 | 0.00 |
| P-42 | 64.00 | 8.0 | PVC | Open | | 78.78 | 0.50 | 2,778.79 | 2,778.78 | 0.15 | 0.01 |
| P-43 | 80.00 | 8.0 | PVC | Open | | 272.28 | 1.74 | 2,779.50 | 2,779.38 | 1.45 | 0.12 |
| P-44 | 479.00 | 8.0 | PVC | Open | | 58.22 | 0.37 | 2,779.38 | 2,779.34 | 0.09 | 0.04 |
| P-45 | 70.00 | 8.0 | PVC | Open | | 97.97 | 0.63 | 2,779.50 | 2,779.48 | 0.22 | 0.02 |
| P-46 | 61.00 | 8.0 | PVC | Open | | -42.88 | 0.27 | 2,778.82 | 2,778.82 | 0.05 | 0.00 |
| P-47 | 451.00 | 8.0 | PVC | Open | | 84.48 | 0.54 | 2,779.48 | 2,779.41 | 0.17 | 0.08 |
| P-48 | 172.00 | 8.0 | PVC | Open | | 136.86 | 0.87 | 2,779.41 | 2,779.34 | 0.40 | 0.07 |
| P-49 | 149.00 | 6.0 | PVC | Open | | -56.27 | 0.64 | 2,779.41 | 2,779.46 | 0.33 | 0.05 |
| P-50 | 390.00 | 6.0 | Asbestos | Open | | 24.00 | 0.27 | 2,779.48 | 2,779.46 | 0.07 | 0.03 |
| P-51 | 250.00 | 6.0 | Asbestos | Open | | -35.19 | 0.40 | 2,779.46 | 2,779.49 | 0.13 | 0.03 |

Title: INITIAL RUN

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Project Engineer: DMC
WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|-----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-52 | 390.00 | 6.0 | Asbestos | Open | | 7.99 | 0.09 | 2,779.49 | 2,779.49 | 0.01 | 0.00 |
| P-53 | 261.00 | 6.0 | Asbestos | Open | | 17.51 | 0.20 | 2,779.49 | 2,779.48 | 0.04 | 0.01 |
| P-54 | 211.00 | 6.0 | Asbestos | Open | | 3.89 | 0.04 | 2,779.48 | 2,779.48 | 0.00 | 0.00 |
| P-55 | 330.00 | 6.0 | Asbestos | Open | | 8.76 | 0.10 | 2,779.48 | 2,779.48 | 0.01 | 0.00 |
| P-56 | 352.00 | 6.0 | PVC | Open | | -52.49 | 0.60 | 2,779.49 | 2,779.59 | 0.29 | 0.10 |
| P-57 | 330.00 | 6.0 | PVC | Open | | 43.46 | 0.49 | 2,779.59 | 2,779.52 | 0.20 | 0.07 |
| P-58 | 220.00 | 6.0 | PVC | Open | | 104.71 | 1.19 | 2,779.82 | 2,779.59 | 1.02 | 0.22 |
| P-59 | 444.00 | 6.0 | PVC | Open | | 9.73 | 0.11 | 2,779.82 | 2,779.81 | 0.01 | 0.01 |
| P-60 | 31.00 | 6.0 | PVC | Open | | 119.30 | 1.35 | 2,779.86 | 2,779.82 | 1.30 | 0.04 |
| P-61 | 83.00 | 6.0 | PVC | Open | | 179.63 | 2.04 | 2,780.09 | 2,779.86 | 2.81 | 0.23 |
| P-63 | 87.00 | 6.0 | Ductile I | Open | | 435.36 | 4.94 | 2,612.55 | 2,611.00 | 17.79 | 1.55 |
| P-64 | 15.00 | 6.0 | PVC | Open | | 179.63 | 2.04 | 2,780.13 | 2,780.09 | 2.82 | 0.04 |
| P-65 | 251.00 | 8.0 | PVC | Open | | 247.92 | 1.58 | 2,780.13 | 2,779.83 | 1.22 | 0.31 |
| P-66 | 334.00 | 6.0 | PVC | Open | | 60.33 | 0.68 | 2,779.86 | 2,779.73 | 0.37 | 0.12 |
| P-67 | 129.00 | 8.0 | PVC | Open | | -98.83 | 0.63 | 2,779.70 | 2,779.73 | 0.22 | 0.03 |
| P-68 | 556.00 | 8.0 | PVC | Open | | -71.14 | 0.45 | 2,779.64 | 2,779.70 | 0.12 | 0.07 |
| P-69 | 387.00 | 8.0 | PVC | Open | | -11.16 | 0.07 | 2,779.70 | 2,779.70 | 0.01 | 0.00 |
| P-71 | 131.00 | 8.0 | PVC | Open | | -23.95 | 0.15 | 2,779.64 | 2,779.64 | 0.02 | 0.00 |
| P-72 | 150.00 | 8.0 | PVC | Open | | -22.41 | 0.14 | 2,779.70 | 2,779.70 | 0.02 | 0.00 |
| P-73 | 326.00 | 6.0 | PVC | Open | | 35.20 | 0.40 | 2,779.70 | 2,779.66 | 0.14 | 0.05 |
| P-74 | 570.00 | 6.0 | PVC | Open | | 38.02 | 0.43 | 2,779.75 | 2,779.66 | 0.16 | 0.09 |
| P-75 | 280.00 | 8.0 | PVC | Open | | -43.37 | 0.28 | 2,779.73 | 2,779.75 | 0.05 | 0.01 |
| P-76 | 402.00 | 8.0 | PVC | Open | | -92.12 | 0.59 | 2,779.75 | 2,779.83 | 0.19 | 0.08 |
| P-77 | 150.00 | 6.0 | PVC | Open | | 149.96 | 1.70 | 2,779.83 | 2,779.53 | 2.00 | 0.30 |
| P-78 | 700.00 | 6.0 | PVC | Open | | 44.90 | 0.51 | 2,779.53 | 2,779.38 | 0.22 | 0.15 |
| P-79 | 325.00 | 6.0 | PVC | Open | | 62.50 | 0.71 | 2,779.66 | 2,779.53 | 0.39 | 0.13 |
| P-80 | 360.00 | 6.0 | PVC | Open | | 3.98 | 0.05 | 2,779.53 | 2,779.53 | 0.00 | 0.00 |
| P-81 | 158.00 | 4.0 | PVC | Open | | 4.86 | 0.12 | 2,779.53 | 2,779.52 | 0.03 | 0.00 |
| P-82 | 985.00 | 6.0 | PVC | Open | | 16.45 | 0.19 | 2,779.56 | 2,779.53 | 0.04 | 0.04 |
| P-83 | 930.00 | 8.0 | PVC | Open | | 122.60 | 0.78 | 2,779.56 | 2,779.26 | 0.33 | 0.31 |
| P-84 | 550.00 | 6.0 | PVC | Open | | 8.76 | 0.10 | 2,779.26 | 2,779.25 | 0.01 | 0.01 |
| P-85 | 410.00 | 8.0 | PVC | Open | | 181.49 | 1.16 | 2,779.26 | 2,778.98 | 0.68 | 0.28 |
| P-86 | 660.00 | 6.0 | PVC | Open | | 90.99 | 1.03 | 2,779.78 | 2,779.26 | 0.79 | 0.52 |
| P-87 | 130.00 | 4.0 | PVC | Open | | 4.86 | 0.12 | 2,779.78 | 2,779.77 | 0.03 | 0.00 |
| P-88 | 314.00 | 4.0 | PVC | Open | | 9.73 | 0.25 | 2,779.78 | 2,779.74 | 0.10 | 0.03 |
| P-89 | 1,283.00 | 6.0 | PVC | Open | | 125.04 | 1.42 | 2,781.60 | 2,779.78 | 1.42 | 1.82 |
| P-90 | 910.00 | 6.0 | PVC | Open | | 131.07 | 1.49 | 2,781.60 | 2,780.19 | 1.55 | 1.41 |
| P-91 | 383.00 | 8.0 | PVC | Open | | 243.36 | 1.55 | 2,780.19 | 2,779.74 | 1.18 | 0.45 |
| P-92 | 300.00 | 8.0 | PVC | Open | | 68.31 | 0.44 | 2,779.74 | 2,779.70 | 0.11 | 0.03 |
| P-93 | 292.00 | 8.0 | PVC | Open | | 168.24 | 1.07 | 2,779.74 | 2,779.56 | 0.59 | 0.17 |
| P-94 | 372.00 | 8.0 | PVC | Open | | 119.11 | 0.76 | 2,780.30 | 2,780.19 | 0.31 | 0.12 |
| P-95 | 150.00 | 2.0 | PVC | Open | | 4.86 | 0.50 | 2,780.30 | 2,780.18 | 0.85 | 0.13 |
| P-96 | 340.00 | 8.0 | PVC | Open | | 127.86 | 0.82 | 2,780.42 | 2,780.30 | 0.36 | 0.12 |
| P-97 | 125.00 | 8.0 | PVC | Open | | 101.33 | 0.65 | 2,780.45 | 2,780.42 | 0.23 | 0.03 |
| P-98 | 158.00 | 2.0 | PVC | Open | | 4.86 | 0.50 | 2,780.45 | 2,780.32 | 0.85 | 0.13 |
| P-99 | 360.00 | 8.0 | PVC | Open | | 109.11 | 0.70 | 2,780.55 | 2,780.45 | 0.27 | 0.10 |
| P-100 | 809.00 | 6.0 | PVC | Open | | 37.23 | 0.42 | 2,780.55 | 2,780.42 | 0.15 | 0.12 |
| P-101 | 95.00 | 4.0 | PVC | Open | | 2.92 | 0.07 | 2,779.64 | 2,779.64 | 0.01 | 0.00 |
| P-102 | 620.00 | 8.0 | PVC | Open | | 158.02 | 1.01 | 2,780.87 | 2,780.55 | 0.53 | 0.33 |
| P-103 | 150.00 | 6.0 | PVC | Open | | 75.69 | 0.86 | 2,785.53 | 2,785.45 | 0.56 | 0.08 |
| P-104 | 980.00 | 6.0 | PVC | Open | | 136.73 | 1.55 | 2,785.53 | 2,783.89 | 1.68 | 1.65 |

Title: INITIAL RUN

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Project Engineer: DMC

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|-----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-105 | 280.00 | 4.0 | PVC | Open | | 14.09 | 0.36 | 2,783.89 | 2,783.83 | 0.19 | 0.05 |
| P-106 | 50.00 | 6.0 | PVC | Open | | 113.89 | 1.29 | 2,783.89 | 2,783.83 | 1.19 | 0.06 |
| P-107 | 233.00 | 4.0 | PVC | Open | | 4.36 | 0.11 | 2,783.83 | 2,783.83 | 0.02 | 0.01 |
| P-108 | 110.00 | 4.0 | PVC | Open | | 6.82 | 0.17 | 2,783.83 | 2,783.83 | 0.06 | 0.01 |
| P-109 | 207.00 | 6.0 | PVC | Open | | 115.33 | 1.31 | 2,783.83 | 2,783.57 | 1.22 | 0.25 |
| P-110 | 300.00 | 6.0 | PVC | Open | | 281.20 | 3.19 | 2,783.57 | 2,781.60 | 6.59 | 1.98 |
| P-111 | 470.00 | 6.0 | PVC | Open | | 17.31 | 0.20 | 2,781.60 | 2,781.58 | 0.04 | 0.02 |
| P-112 | 120.00 | 2.0 | PVC | Open | | 3.89 | 0.40 | 2,781.58 | 2,781.51 | 0.57 | 0.07 |
| P-113 | 124.00 | 6.0 | PVC | Open | | 11.49 | 0.13 | 2,781.58 | 2,781.58 | 0.02 | 0.00 |
| P-114 | 145.00 | 6.0 | PVC | Open | | 4.04 | 0.05 | 2,781.58 | 2,781.58 | 0.00 | 0.00 |
| P-115 | 430.00 | 6.0 | PVC | Open | | 14.59 | 0.17 | 2,781.58 | 2,781.56 | 0.03 | 0.01 |
| P-116 | 316.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,781.56 | 2,781.56 | 0.00 | 0.00 |
| P-117 | 250.00 | 6.0 | PVC | Open | | 14.46 | 0.16 | 2,781.58 | 2,781.58 | 0.03 | 0.01 |
| P-118 | 190.00 | 4.0 | PVC | Open | | 2.91 | 0.07 | 2,781.58 | 2,781.58 | 0.01 | 0.00 |
| P-119 | 240.00 | 6.0 | PVC | Open | | 20.28 | 0.23 | 2,781.60 | 2,781.58 | 0.05 | 0.01 |
| P-120 | 621.00 | 6.0 | PVC | Open | | 14.64 | 0.17 | 2,781.60 | 2,781.58 | 0.03 | 0.02 |
| P-121 | 100.00 | 4.0 | PVC | Open | | 3.89 | 0.10 | 2,781.58 | 2,781.58 | 0.02 | 0.00 |
| P-122 | 280.00 | 6.0 | PVC | Open | | 6.17 | 0.07 | 2,781.58 | 2,781.58 | 0.01 | 0.00 |
| P-123 | 140.00 | 6.0 | PVC | Open | | 3.89 | 0.04 | 2,781.58 | 2,781.58 | 0.00 | 0.00 |
| P-124 | 530.00 | 6.0 | PVC | Open | | 1.61 | 0.02 | 2,781.58 | 2,781.58 | 0.00 | 0.00 |
| P-125 | 270.00 | 6.0 | PVC | Open | | 38.83 | 0.44 | 2,781.64 | 2,781.60 | 0.17 | 0.04 |
| P-126 | 78.00 | 6.0 | PVC | Open | | 13.62 | 0.15 | 2,781.64 | 2,781.64 | 0.03 | 0.00 |
| P-127 | 610.00 | 4.0 | PVC | Open | | 10.70 | 0.27 | 2,781.64 | 2,781.57 | 0.12 | 0.07 |
| P-128 | 430.00 | 8.0 | PVC | Open | | 52.45 | 0.33 | 2,781.67 | 2,781.64 | 0.07 | 0.03 |
| P-129 | 250.00 | 8.0 | PVC | Open | | -5.46 | 0.03 | 2,781.67 | 2,781.67 | 0.00 | 0.00 |
| P-130 | 480.00 | 6.0 | PVC | Open | | 10.70 | 0.12 | 2,781.67 | 2,781.66 | 0.02 | 0.01 |
| P-131 | 100.00 | 6.0 | PVC | Open | | 2.92 | 0.03 | 2,781.66 | 2,781.66 | 0.00 | 0.00 |
| P-132 | 80.00 | 6.0 | PVC | Open | | 2.92 | 0.03 | 2,781.66 | 2,781.66 | 0.00 | 0.00 |
| P-133 | 165.00 | 8.0 | PVC | Open | | 13.03 | 0.08 | 2,781.67 | 2,781.67 | 0.01 | 0.00 |
| P-134 | 270.00 | 6.0 | PVC | Open | | 5.84 | 0.07 | 2,781.67 | 2,781.67 | 0.00 | 0.00 |
| P-135 | 243.00 | 8.0 | PVC | Open | | 26.65 | 0.17 | 2,781.68 | 2,781.67 | 0.02 | 0.01 |
| P-136 | 600.00 | 8.0 | PVC | Open | | 385.54 | 2.46 | 2,781.68 | 2,779.99 | 2.81 | 1.69 |
| P-137 | 1,300.00 | 8.0 | PVC | Open | | 418.02 | 2.67 | 2,785.94 | 2,781.68 | 3.28 | 4.26 |
| P-138 | 194.00 | 8.0 | PVC | Open | | -37.91 | 0.24 | 2,785.94 | 2,785.95 | 0.04 | 0.01 |
| P-139 | 1,200.00 | 4.0 | PVC | Open | | 69.23 | 1.77 | 2,785.95 | 2,781.67 | 3.56 | 4.28 |
| P-140 | 400.00 | 8.0 | PVC | Open | | -107.14 | 0.68 | 2,785.95 | 2,786.05 | 0.26 | 0.10 |
| P-141 | 67.00 | 8.0 | PVC | Open | | -284.51 | 1.82 | 2,786.05 | 2,786.16 | 1.58 | 0.11 |
| P-142 | 940.00 | 6.0 | PVC | Open | | 173.66 | 1.97 | 2,786.05 | 2,783.57 | 2.63 | 2.48 |
| P-143 | 95.00 | 8.0 | PVC | Open | | 385.95 | 2.46 | 2,786.21 | 2,785.94 | 2.82 | 0.27 |
| P-144 | 700.00 | 8.0 | PVC | Open | | 423.89 | 2.71 | 2,788.56 | 2,786.21 | 3.37 | 2.36 |
| P-145 | 260.00 | 8.0 | PVC | Open | | 218.77 | 1.40 | 2,788.31 | 2,788.06 | 0.96 | 0.25 |
| P-146 | 420.00 | 8.0 | PVC | Open | | 707.85 | 4.52 | 2,792.35 | 2,788.56 | 9.02 | 3.79 |
| P-147 | 656.00 | 8.0 | PVC | Open | | 32.10 | 0.20 | 2,786.21 | 2,786.19 | 0.03 | 0.02 |
| P-148 | 548.00 | 6.0 | PVC | Open | | 11.11 | 0.13 | 2,786.19 | 2,786.18 | 0.02 | 0.01 |
| P-149 | 1,112.00 | 6.0 | PVC | Open | | 7.38 | 0.08 | 2,786.19 | 2,786.18 | 0.01 | 0.01 |
| P-150 | 867.00 | 12.0 | PVC | Open | | 1,793.66 | 5.09 | 2,759.76 | 2,753.77 | 6.91 | 5.99 |
| P-151 | 601.00 | 6.0 | PVC | Open | | 2.92 | 0.03 | 2,786.18 | 2,786.18 | 0.00 | 0.00 |
| P-152 | 570.00 | 8.0 | PVC | Open | | 666.31 | 4.25 | 2,785.45 | 2,780.87 | 8.02 | 4.57 |
| P-154 | 5.00 | 6.0 | Ductile I | Open | | 130.07 | 1.48 | 2,611.00 | 2,610.99 | 1.71 | 0.01 |
| P-155 | 5.00 | 6.0 | Ductile I | Open | | 297.48 | 3.38 | 2,611.00 | 2,610.96 | 8.45 | 0.04 |
| P-156 | 5.00 | 6.0 | Ductile I | Open | | -0.00 | 0.00 | 2,611.00 | 2,611.00 | 0.00 | 0.00 |

Title: INITIAL RUN

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Haestad Methods Solution Center

Watertown, CT 06795 USA

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|-----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-157 | 20.00 | 6.0 | Ductile I | Open | | 130.07 | 1.48 | 2,780.17 | 2,780.13 | 1.71 | 0.03 |
| P-158 | 15.00 | 6.0 | Ductile I | Open | | 297.48 | 3.38 | 2,780.26 | 2,780.13 | 8.45 | 0.13 |
| P-159 | 10.00 | 6.0 | Ductile I | Open | | -0.00 | 0.00 | 2,780.13 | 2,780.13 | 0.00 | 0.00 |
| P-160 | 170.00 | 8.0 | PVC | Open | | -67.04 | 0.43 | 2,778.43 | 2,778.45 | 0.11 | 0.02 |
| P-161 | 575.00 | 8.0 | PVC | Open | | -58.39 | 0.37 | 2,778.45 | 2,778.50 | 0.09 | 0.05 |
| P-162 | 797.00 | 6.0 | PVC | Open | | -22.27 | 0.25 | 2,778.45 | 2,778.50 | 0.06 | 0.05 |
| P-163 | 505.00 | 6.0 | PVC | Open | | -92.33 | 1.05 | 2,778.50 | 2,778.91 | 0.81 | 0.41 |
| P-164 | 420.00 | 8.0 | PVC | Open | | 592.57 | 3.78 | 2,788.14 | 2,785.45 | 6.40 | 2.69 |
| P-165 | 150.00 | 8.0 | PVC | Open | | 46.04 | 0.29 | 2,788.14 | 2,788.13 | 0.06 | 0.01 |
| P-166 | 507.00 | 8.0 | PVC | Open | | 377.70 | 2.41 | 2,779.99 | 2,778.62 | 2.70 | 1.37 |
| P-167 | 1.00 | 96.0 | PVC | Open | | 370.25 | 0.02 | 2,534.00 | 2,534.00 | 0.00 | 0.00 |
| P-169 | 48.00 | 8.0 | PVC | Open | | 370.25 | 2.36 | 2,779.63 | 2,779.50 | 2.60 | 0.13 |
| P-170 | 364.00 | 4.0 | PVC | Open | | 3.89 | 0.10 | 2,778.78 | 2,778.78 | 0.02 | 0.01 |
| P-171 | 880.00 | 8.0 | PVC | Open | | 638.61 | 4.08 | 2,794.64 | 2,788.14 | 7.39 | 6.51 |
| P-172 | 340.00 | 8.0 | PVC | Open | | -27.66 | 0.18 | 2,778.81 | 2,778.82 | 0.02 | 0.01 |
| P-173 | 160.00 | 6.0 | PVC | Open | | 0.15 | 0.00 | 2,778.81 | 2,778.81 | 0.00 | 0.00 |
| P-174 | 460.00 | 8.0 | PVC | Open | | 7.78 | 0.05 | 2,778.92 | 2,778.92 | 0.00 | 0.00 |
| P-175 | 260.00 | 8.0 | PVC | Open | | -20.89 | 0.13 | 2,779.70 | 2,779.70 | 0.01 | 0.00 |
| P-176 | 80.00 | 2.0 | PVC | Open | | 2.92 | 0.30 | 2,779.70 | 2,779.67 | 0.34 | 0.03 |
| P-177 | 170.00 | 8.0 | PVC | Open | | 48.76 | 0.31 | 2,778.82 | 2,778.81 | 0.06 | 0.01 |
| P-178 | 420.00 | 6.0 | PVC | Open | | 1.23 | 0.01 | 2,778.80 | 2,778.80 | 0.00 | 0.00 |
| P-179 | 393.00 | 8.0 | PVC | Open | | 25.66 | 0.16 | 2,778.81 | 2,778.80 | 0.02 | 0.01 |
| P-180 | 120.00 | 8.0 | PVC | Open | | 15.68 | 0.10 | 2,778.80 | 2,778.80 | 0.01 | 0.00 |
| P-181 | 394.00 | 8.0 | PVC | Open | | -13.48 | 0.09 | 2,778.81 | 2,778.82 | 0.01 | 0.00 |
| P-182 | 225.00 | 8.0 | PVC | Open | | -15.22 | 0.10 | 2,778.82 | 2,778.82 | 0.01 | 0.00 |
| P-183 | 442.00 | 8.0 | PVC | Open | | -67.75 | 0.43 | 2,778.82 | 2,778.87 | 0.11 | 0.05 |
| P-185 | 258.00 | 8.0 | PVC | Open | | 264.82 | 1.69 | 2,788.06 | 2,787.71 | 1.38 | 0.36 |
| P-186 | 1,300.00 | 6.0 | PVC | Open | | 106.28 | 1.21 | 2,787.71 | 2,786.34 | 1.05 | 1.36 |
| P-187 | 700.00 | 6.0 | PVC | Open | | 147.97 | 1.68 | 2,787.71 | 2,786.34 | 1.95 | 1.36 |
| P-188 | 800.00 | 8.0 | PVC | Open | | 225.05 | 1.44 | 2,786.34 | 2,785.53 | 1.02 | 0.81 |
| P-189 | 158.00 | 8.0 | PVC | Open | | 283.96 | 1.81 | 2,788.56 | 2,788.31 | 1.57 | 0.25 |
| P-190 | 700.00 | 8.0 | PVC | Open | | 40.29 | 0.26 | 2,788.09 | 2,788.06 | 0.04 | 0.03 |
| P-191 | 260.00 | 8.0 | PVC | Open | | 72.32 | 0.46 | 2,788.13 | 2,788.09 | 0.13 | 0.03 |
| P-192 | 700.00 | 6.0 | PVC | Open | | 18.40 | 0.21 | 2,788.09 | 2,788.06 | 0.04 | 0.03 |
| P-193 | 698.00 | 6.0 | PVC | Open | | 31.14 | 0.35 | 2,788.21 | 2,788.13 | 0.11 | 0.08 |
| P-194 | 448.00 | 8.0 | PVC | Open | | 30.16 | 0.19 | 2,776.69 | 2,776.68 | 0.03 | 0.01 |
| P-195 | 480.00 | 8.0 | PVC | Open | | 8.97 | 0.06 | 2,776.68 | 2,776.68 | 0.00 | 0.00 |
| P-196 | 800.00 | 8.0 | PVC | Open | | 7.57 | 0.05 | 2,776.68 | 2,776.68 | 0.00 | 0.00 |
| P-197 | 242.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,776.68 | 2,776.68 | 0.00 | 0.00 |
| P-198 | 371.00 | 8.0 | PVC | Open | | 277.77 | 1.77 | 2,776.69 | 2,776.13 | 1.51 | 0.56 |
| P-199 | 846.00 | 8.0 | PVC | Open | | 25.09 | 0.16 | 2,776.13 | 2,776.11 | 0.02 | 0.02 |
| P-200 | 1,095.00 | 8.0 | PVC | Open | | 98.54 | 0.63 | 2,776.10 | 2,775.86 | 0.22 | 0.24 |
| P-201 | 221.00 | 8.0 | PVC | Open | | 249.66 | 1.59 | 2,776.13 | 2,775.86 | 1.23 | 0.27 |
| P-202 | 273.00 | 8.0 | PVC | Open | | 204.57 | 1.31 | 2,775.86 | 2,775.62 | 0.85 | 0.23 |
| P-203 | 523.00 | 8.0 | PVC | Open | | 142.50 | 0.91 | 2,775.86 | 2,775.63 | 0.43 | 0.23 |
| P-204 | 573.00 | 8.0 | PVC | Open | | 64.94 | 0.41 | 2,776.16 | 2,776.10 | 0.10 | 0.06 |
| P-205 | 257.00 | 8.0 | PVC | Open | | 25.12 | 0.16 | 2,775.63 | 2,775.62 | 0.02 | 0.00 |
| P-206 | 616.00 | 8.0 | PVC | Open | | 110.32 | 0.70 | 2,775.63 | 2,775.46 | 0.27 | 0.17 |
| P-207 | 173.00 | 6.0 | PVC | Open | | 3.89 | 0.04 | 2,775.46 | 2,775.46 | 0.00 | 0.00 |
| P-208 | 796.00 | 8.0 | PVC | Open | | 90.87 | 0.58 | 2,775.46 | 2,775.31 | 0.19 | 0.15 |
| P-209 | 188.00 | 6.0 | PVC | Open | | 4.86 | 0.06 | 2,775.31 | 2,775.31 | 0.00 | 0.00 |

Title: INITIAL RUN

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Project Engineer: DMC

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-210 | 310.00 | 8.0 | PVC | Open | | 79.31 | 0.51 | 2,775.31 | 2,775.26 | 0.15 | 0.05 |
| P-211 | 158.00 | 6.0 | PVC | Open | | 4.86 | 0.06 | 2,775.26 | 2,775.26 | 0.00 | 0.00 |
| P-212 | 275.00 | 8.0 | PVC | Open | | 73.08 | 0.47 | 2,775.26 | 2,775.23 | 0.13 | 0.04 |
| P-213 | 272.00 | 6.0 | PVC | Open | | 17.33 | 0.20 | 2,775.23 | 2,775.22 | 0.04 | 0.01 |
| P-214 | 270.00 | 8.0 | PVC | Open | | 49.23 | 0.31 | 2,775.23 | 2,775.21 | 0.06 | 0.02 |
| P-215 | 438.00 | 8.0 | PVC | Open | | 8.07 | 0.05 | 2,775.21 | 2,775.21 | 0.00 | 0.00 |
| P-216 | 49.00 | 6.0 | PVC | Open | | 1.95 | 0.02 | 2,775.21 | 2,775.21 | 0.00 | 0.00 |
| P-217 | 129.00 | 6.0 | PVC | Open | | 3.89 | 0.04 | 2,775.21 | 2,775.21 | 0.00 | 0.00 |
| P-218 | 168.00 | 8.0 | PVC | Open | | 34.35 | 0.22 | 2,775.21 | 2,775.21 | 0.03 | 0.01 |
| P-219 | 462.00 | 8.0 | PVC | Open | | 10.70 | 0.07 | 2,775.39 | 2,775.39 | 0.00 | 0.00 |
| P-220 | 225.00 | 8.0 | PVC | Open | | 228.73 | 1.46 | 2,775.62 | 2,775.39 | 1.05 | 0.24 |
| P-221 | 276.00 | 8.0 | PVC | Open | | 178.49 | 1.14 | 2,775.39 | 2,775.21 | 0.66 | 0.18 |
| P-223 | 460.00 | 8.0 | PVC | Open | | 84.43 | 0.54 | 2,774.68 | 2,774.60 | 0.17 | 0.08 |
| P-224 | 1,737.00 | 12.0 | PVC | Open | | 19.73 | 0.06 | 2,774.60 | 2,774.60 | 0.00 | 0.00 |
| P-225 | 309.00 | 8.0 | PVC | Open | | 57.36 | 0.37 | 2,774.59 | 2,774.57 | 0.08 | 0.03 |
| P-226 | 502.00 | 8.0 | PVC | Open | | 10.69 | 0.07 | 2,774.57 | 2,774.57 | 0.00 | 0.00 |
| P-227 | 237.00 | 4.0 | PVC | Open | | 6.81 | 0.17 | 2,774.57 | 2,774.56 | 0.05 | 0.01 |
| P-228 | 299.00 | 8.0 | PVC | Open | | 32.09 | 0.20 | 2,774.57 | 2,774.56 | 0.03 | 0.01 |
| P-229 | 498.00 | 6.0 | PVC | Open | | 7.78 | 0.09 | 2,774.56 | 2,774.55 | 0.01 | 0.00 |
| P-230 | 317.00 | 4.0 | PVC | Open | | 7.78 | 0.20 | 2,774.56 | 2,774.54 | 0.07 | 0.02 |
| P-231 | 327.00 | 8.0 | PVC | Open | | 12.63 | 0.08 | 2,774.56 | 2,774.56 | 0.01 | 0.00 |
| P-232 | 487.00 | 12.0 | PVC | Open | | 41.89 | 0.12 | 2,774.60 | 2,774.60 | 0.01 | 0.00 |
| P-233 | 464.00 | 6.0 | PVC | Open | | 5.84 | 0.07 | 2,774.60 | 2,774.60 | 0.00 | 0.00 |
| P-234 | 494.00 | 6.0 | PVC | Open | | 5.84 | 0.07 | 2,774.60 | 2,774.60 | 0.00 | 0.00 |
| P-235 | 332.00 | 12.0 | PVC | Open | | 64.26 | 0.18 | 2,774.60 | 2,774.60 | 0.01 | 0.00 |
| P-236 | 458.00 | 8.0 | PVC | Open | | 4.86 | 0.03 | 2,774.60 | 2,774.60 | 0.00 | 0.00 |
| P-237 | 298.00 | 6.0 | PVC | Open | | 2.22 | 0.03 | 2,774.60 | 2,774.60 | 0.00 | 0.00 |
| P-238 | 363.00 | 12.0 | PVC | Open | | 75.22 | 0.21 | 2,774.61 | 2,774.60 | 0.02 | 0.01 |
| P-239 | 465.00 | 8.0 | PVC | Open | | 84.95 | 0.54 | 2,774.69 | 2,774.61 | 0.17 | 0.08 |
| P-240 | 513.00 | 12.0 | PVC | Open | | 4.86 | 0.01 | 2,774.61 | 2,774.61 | 0.00 | 0.00 |
| P-241 | 654.00 | 8.0 | PVC | Open | | -20.21 | 0.13 | 2,778.71 | 2,778.72 | 0.01 | 0.01 |
| P-242 | 880.00 | 12.0 | PVC | Open | | -49.51 | 0.14 | 2,779.33 | 2,779.34 | 0.01 | 0.01 |
| P-243 | 980.00 | 12.0 | PVC | Open | | 323.50 | 0.92 | 2,779.59 | 2,779.33 | 0.27 | 0.26 |
| P-244 | 759.00 | 12.0 | PVC | Open | | 136.45 | 0.39 | 2,779.18 | 2,779.13 | 0.06 | 0.04 |
| P-245 | 100.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,779.13 | 2,779.13 | 0.00 | 0.00 |
| P-246 | 430.00 | 8.0 | PVC | Open | | 131.76 | 0.84 | 2,779.13 | 2,778.97 | 0.38 | 0.16 |
| P-247 | 712.00 | 8.0 | PVC | Open | | 54.81 | 0.35 | 2,778.97 | 2,778.92 | 0.08 | 0.05 |
| P-248 | 760.00 | 8.0 | PVC | Open | | 74.03 | 0.47 | 2,778.97 | 2,778.87 | 0.13 | 0.10 |
| P-249 | 50.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,778.87 | 2,778.87 | 0.00 | 0.00 |
| P-250 | 263.00 | 8.0 | PVC | Open | | 44.11 | 0.28 | 2,778.87 | 2,778.85 | 0.05 | 0.01 |
| P-251 | 50.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,778.87 | 2,778.87 | 0.00 | 0.00 |
| P-252 | 800.00 | 8.0 | PVC | Open | | 48.97 | 0.31 | 2,778.92 | 2,778.87 | 0.06 | 0.05 |
| P-253 | 655.00 | 12.0 | PVC | Open | | 226.34 | 0.64 | 2,779.33 | 2,779.24 | 0.14 | 0.09 |
| P-254 | 370.00 | 8.0 | PVC | Open | | 226.33 | 1.44 | 2,779.24 | 2,778.86 | 1.03 | 0.38 |
| P-255 | 1,670.00 | 12.0 | PVC | Open | | 0.01 | 0.00 | 2,779.24 | 2,779.24 | 0.00 | 0.00 |
| P-256 | 40.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.24 | 2,779.24 | 0.00 | 0.00 |
| P-257 | 650.00 | 12.0 | PVC | Open | | 0.01 | 0.00 | 2,779.24 | 2,779.24 | 0.00 | 0.00 |
| P-258 | 40.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.24 | 2,779.24 | 0.00 | 0.00 |
| P-259 | 1,020.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,779.24 | 2,779.24 | 0.00 | 0.00 |
| P-260 | 480.00 | 8.0 | PVC | Open | | 342.98 | 2.19 | 2,778.62 | 2,777.54 | 2.25 | 1.08 |
| P-261 | 167.00 | 8.0 | PVC | Open | | 568.95 | 3.63 | 2,777.54 | 2,776.55 | 5.92 | 0.99 |

Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-262 | 395.00 | 8.0 | PVC | Open | | 347.63 | 2.22 | 2,776.55 | 2,775.64 | 2.31 | 0.91 |
| P-263 | 527.00 | 8.0 | PVC | Open | | 164.55 | 1.05 | 2,775.64 | 2,775.34 | 0.57 | 0.30 |
| P-264 | 477.00 | 8.0 | PVC | Open | | 170.43 | 1.09 | 2,775.64 | 2,775.35 | 0.61 | 0.29 |
| P-265 | 341.00 | 8.0 | PVC | Open | | 32.18 | 0.21 | 2,775.35 | 2,775.34 | 0.03 | 0.01 |
| P-266 | 261.00 | 8.0 | PVC | Open | | 188.95 | 1.21 | 2,775.34 | 2,775.15 | 0.73 | 0.19 |
| P-267 | 136.00 | 8.0 | PVC | Open | | 255.75 | 1.63 | 2,775.15 | 2,774.98 | 1.29 | 0.18 |
| P-268 | 604.00 | 8.0 | PVC | Open | | 77.51 | 0.49 | 2,775.24 | 2,775.15 | 0.14 | 0.09 |
| P-269 | 355.00 | 8.0 | PVC | Open | | 121.70 | 0.78 | 2,775.35 | 2,775.24 | 0.32 | 0.12 |
| P-270 | 776.00 | 8.0 | PVC | Open | | 203.81 | 1.30 | 2,776.55 | 2,775.90 | 0.84 | 0.66 |
| P-271 | 810.00 | 8.0 | PVC | Open | | -234.93 | 1.50 | 2,777.54 | 2,778.43 | 1.10 | 0.89 |
| P-272 | 547.00 | 8.0 | PVC | Open | | 9.73 | 0.06 | 2,778.43 | 2,778.43 | 0.00 | 0.00 |
| P-273 | 618.00 | 8.0 | PVC | Open | | -182.48 | 1.16 | 2,778.43 | 2,778.86 | 0.69 | 0.42 |
| P-274 | 332.00 | 8.0 | PVC | Open | | -187.55 | 1.20 | 2,778.86 | 2,779.10 | 0.72 | 0.24 |
| P-275 | 700.00 | 8.0 | PVC | Open | | 75.20 | 0.48 | 2,779.10 | 2,779.00 | 0.13 | 0.09 |
| P-276 | 83.00 | 8.0 | PVC | Open | | -263.23 | 1.68 | 2,779.10 | 2,779.21 | 1.36 | 0.11 |
| P-277 | 419.00 | 8.0 | PVC | Open | | 38.70 | 0.25 | 2,779.21 | 2,779.19 | 0.04 | 0.02 |
| P-278 | 620.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,778.86 | 2,778.86 | 0.00 | 0.00 |
| P-280 | 813.00 | 8.0 | PVC | Open | | 114.24 | 0.73 | 2,778.85 | 2,778.62 | 0.29 | 0.24 |
| P-281 | 287.00 | 12.0 | PVC | Open | | 1,337.88 | 3.80 | 2,786.00 | 2,784.88 | 3.92 | 1.12 |
| P-282 | 797.00 | 12.0 | PVC | Open | | 1,313.21 | 3.73 | 2,781.63 | 2,778.62 | 3.78 | 3.01 |
| P-283 | 320.00 | 8.0 | PVC | Open | | 2.66 | 0.02 | 2,778.62 | 2,778.62 | 0.00 | 0.00 |
| P-284 | 388.00 | 12.0 | PVC | Open | | 1,309.64 | 3.72 | 2,778.62 | 2,777.16 | 3.76 | 1.46 |
| P-285 | 1,528.00 | 12.0 | PVC | Open | | 295.96 | 0.84 | 2,777.51 | 2,777.16 | 0.23 | 0.35 |
| P-286 | 358.00 | 12.0 | PVC | Open | | 1,579.57 | 4.48 | 2,777.16 | 2,775.23 | 5.40 | 1.93 |
| P-287 | 419.00 | 8.0 | PVC | Open | | 351.65 | 2.24 | 2,775.23 | 2,774.24 | 2.36 | 0.99 |
| P-288 | 341.00 | 8.0 | PVC | Open | | 340.95 | 2.18 | 2,774.24 | 2,773.48 | 2.22 | 0.76 |
| P-289 | 193.00 | 8.0 | PVC | Open | | 3.89 | 0.02 | 2,774.24 | 2,774.24 | 0.00 | 0.00 |
| P-290 | 267.00 | 12.0 | PVC | Open | | 1,223.05 | 3.47 | 2,775.23 | 2,774.35 | 3.30 | 0.88 |
| P-291 | 640.00 | 8.0 | PVC | Open | | 161.42 | 1.03 | 2,773.83 | 2,773.48 | 0.55 | 0.35 |
| P-292 | 460.00 | 12.0 | PVC | Open | | 785.87 | 2.23 | 2,773.83 | 2,773.18 | 1.41 | 0.65 |
| P-293 | 302.00 | 8.0 | PVC | Open | | 231.99 | 1.48 | 2,773.50 | 2,773.18 | 1.08 | 0.32 |
| P-294 | 213.00 | 12.0 | PVC | Open | | 1,009.10 | 2.86 | 2,773.18 | 2,772.69 | 2.28 | 0.49 |
| P-295 | 511.00 | 12.0 | PVC | Open | | 1,063.05 | 3.02 | 2,772.69 | 2,771.41 | 2.52 | 1.29 |
| P-296 | 305.00 | 12.0 | PVC | Open | | 57.16 | 0.16 | 2,772.70 | 2,772.69 | 0.01 | 0.00 |
| P-297 | 650.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,772.70 | 2,772.70 | 0.00 | 0.00 |
| P-298 | 516.00 | 12.0 | PVC | Open | | 815.89 | 2.31 | 2,772.70 | 2,771.91 | 1.52 | 0.78 |
| P-299 | 19.00 | 12.0 | PVC | Open | | 614.75 | 1.74 | 2,771.91 | 2,771.90 | 0.90 | 0.02 |
| P-300 | 1,334.00 | 8.0 | PVC | Open | | 201.14 | 1.28 | 2,771.91 | 2,770.81 | 0.82 | 1.10 |
| P-301 | 241.00 | 8.0 | PVC | Open | | 727.30 | 4.64 | 2,794.64 | 2,792.35 | 9.51 | 2.29 |
| P-302 | 911.00 | 12.0 | PVC | Open | | 1,365.92 | 3.87 | 2,798.36 | 2,794.64 | 4.08 | 3.71 |
| P-303 | 156.00 | 8.0 | PVC | Open | | 267.60 | 1.71 | 2,798.58 | 2,798.36 | 1.41 | 0.22 |
| P-304 | 239.00 | 8.0 | PVC | Open | | 69.67 | 0.44 | 2,798.60 | 2,798.58 | 0.12 | 0.03 |
| P-305 | 176.00 | 8.0 | PVC | Open | | 11.67 | 0.07 | 2,798.60 | 2,798.60 | 0.01 | 0.00 |
| P-306 | 140.00 | 6.0 | PVC | Open | | 4.86 | 0.06 | 2,798.60 | 2,798.60 | 0.00 | 0.00 |
| P-307 | 283.00 | 8.0 | PVC | Open | | 4.86 | 0.03 | 2,798.60 | 2,798.60 | 0.00 | 0.00 |
| P-308 | 265.00 | 8.0 | PVC | Open | | 84.26 | 0.54 | 2,798.65 | 2,798.60 | 0.17 | 0.04 |
| P-309 | 205.00 | 6.0 | PVC | Open | | 5.85 | 0.07 | 2,798.65 | 2,798.65 | 0.00 | 0.00 |
| P-310 | 977.00 | 8.0 | PVC | Open | | 99.84 | 0.64 | 2,798.87 | 2,798.65 | 0.23 | 0.22 |
| P-311 | 142.00 | 6.0 | PVC | Open | | 4.86 | 0.06 | 2,798.87 | 2,798.87 | 0.00 | 0.00 |
| P-312 | 850.00 | 8.0 | PVC | Open | | 121.24 | 0.77 | 2,799.14 | 2,798.87 | 0.32 | 0.27 |
| P-313 | 666.00 | 8.0 | PVC | Open | | 204.74 | 1.31 | 2,799.14 | 2,798.58 | 0.85 | 0.57 |

Title: INITIAL RUN

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01/17/07 12:45:19 PM Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA

Project Engineer: DMC

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-314 | 402.00 | 8.0 | PVC | Open | | 340.57 | 2.17 | 2,800.04 | 2,799.14 | 2.22 | 0.89 |
| P-315 | 547.00 | 8.0 | PVC | Open | | 242.00 | 1.54 | 2,800.67 | 2,800.04 | 1.16 | 0.64 |
| P-316 | 401.00 | 8.0 | PVC | Open | | 107.33 | 0.69 | 2,800.14 | 2,800.04 | 0.26 | 0.10 |
| P-317 | 742.00 | 8.0 | PVC | Open | | 49.55 | 0.32 | 2,800.19 | 2,800.14 | 0.06 | 0.05 |
| P-318 | 343.00 | 6.0 | PVC | Open | | 6.81 | 0.08 | 2,800.19 | 2,800.18 | 0.01 | 0.00 |
| P-319 | 273.00 | 8.0 | PVC | Open | | 65.11 | 0.42 | 2,800.21 | 2,800.19 | 0.10 | 0.03 |
| P-320 | 288.00 | 8.0 | PVC | Open | | 80.68 | 0.51 | 2,800.21 | 2,800.17 | 0.15 | 0.04 |
| P-321 | 290.00 | 8.0 | PVC | Open | | 48.34 | 0.31 | 2,800.23 | 2,800.21 | 0.06 | 0.02 |
| P-322 | 133.00 | 8.0 | PVC | Open | | 17.92 | 0.11 | 2,800.23 | 2,800.23 | 0.01 | 0.00 |
| P-323 | 270.00 | 8.0 | PVC | Open | | 69.46 | 0.44 | 2,800.17 | 2,800.14 | 0.12 | 0.03 |
| P-324 | 472.00 | 6.0 | PVC | Open | | 8.76 | 0.10 | 2,800.17 | 2,800.16 | 0.01 | 0.01 |
| P-325 | 298.00 | 8.0 | PVC | Open | | 208.48 | 1.33 | 2,800.67 | 2,800.41 | 0.88 | 0.26 |
| P-326 | 747.00 | 8.0 | PVC | Open | | 108.15 | 0.69 | 2,800.41 | 2,800.21 | 0.26 | 0.20 |
| P-327 | 1,154.00 | 8.0 | PVC | Open | | 80.85 | 0.52 | 2,800.41 | 2,800.23 | 0.15 | 0.18 |
| P-328 | 160.00 | 8.0 | PVC | Open | | 454.94 | 2.90 | 2,801.29 | 2,800.67 | 3.85 | 0.62 |
| P-329 | 1,094.00 | 12.0 | PVC | Open | | 1,098.32 | 3.12 | 2,801.29 | 2,798.36 | 2.68 | 2.93 |
| P-330 | 804.00 | 12.0 | PVC | Open | | 1,553.26 | 4.41 | 2,805.49 | 2,801.29 | 5.23 | 4.20 |
| P-331 | 474.00 | 8.0 | PVC | Open | | 226.32 | 1.44 | 2,821.07 | 2,820.58 | 1.03 | 0.49 |
| P-332 | 221.00 | 6.0 | PVC | Open | | 4.24 | 0.05 | 2,821.07 | 2,821.07 | 0.00 | 0.00 |
| P-333 | 260.00 | 8.0 | PVC | Open | | 242.24 | 1.55 | 2,821.37 | 2,821.07 | 1.17 | 0.30 |
| P-334 | 213.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,821.37 | 2,821.37 | 0.00 | 0.00 |
| P-335 | 138.00 | 8.0 | PVC | Open | | 5.60 | 0.04 | 2,821.37 | 2,821.37 | 0.00 | 0.00 |
| P-336 | 267.00 | 8.0 | PVC | Open | | 252.70 | 1.61 | 2,821.71 | 2,821.37 | 1.26 | 0.34 |
| P-337 | 592.00 | 12.0 | PVC | Open | | 237.33 | 0.67 | 2,821.71 | 2,821.62 | 0.15 | 0.09 |
| P-338 | 260.00 | 12.0 | PVC | Open | | 500.73 | 1.42 | 2,821.87 | 2,821.71 | 0.60 | 0.16 |
| P-339 | 281.00 | 8.0 | PVC | Open | | 18.48 | 0.12 | 2,821.87 | 2,821.86 | 0.01 | 0.00 |
| P-340 | 449.00 | 12.0 | PVC | Open | | 526.02 | 1.49 | 2,822.16 | 2,821.87 | 0.66 | 0.30 |
| P-341 | 174.00 | 6.0 | PVC | Open | | 4.86 | 0.06 | 2,821.86 | 2,821.86 | 0.00 | 0.00 |
| P-342 | 286.00 | 8.0 | PVC | Open | | 8.76 | 0.06 | 2,821.86 | 2,821.86 | 0.00 | 0.00 |
| P-343 | 402.00 | 12.0 | PVC | Open | | 1,340.97 | 3.80 | 2,822.16 | 2,820.58 | 3.93 | 1.58 |
| P-344 | 1,192.00 | 12.0 | PVC | Open | | 1,872.49 | 5.31 | 2,831.11 | 2,822.16 | 7.51 | 8.95 |
| P-345 | 504.00 | 12.0 | PVC | Open | | 594.18 | 1.69 | 2,841.08 | 2,840.66 | 0.83 | 0.42 |
| P-346 | 261.00 | 12.0 | PVC | Open | | -173.86 | 0.49 | 2,841.06 | 2,841.08 | 0.09 | 0.02 |
| P-347 | 228.00 | 8.0 | PVC | Open | | -74.18 | 0.47 | 2,841.03 | 2,841.06 | 0.13 | 0.03 |
| P-348 | 532.00 | 12.0 | PVC | Open | | 1,885.99 | 5.35 | 2,840.55 | 2,836.50 | 7.61 | 4.05 |
| P-349 | 172.00 | 12.0 | PVC | Open | | 1,244.43 | 3.53 | 2,841.14 | 2,840.55 | 3.41 | 0.59 |
| P-350 | 180.00 | 8.0 | PVC | Open | | 0.97 | 0.01 | 2,841.14 | 2,841.14 | 0.00 | 0.00 |
| P-351 | 641.00 | 12.0 | PVC | Open | | 1,252.21 | 3.55 | 2,843.35 | 2,841.14 | 3.45 | 2.21 |
| P-352 | 215.00 | 8.0 | PVC | Open | | 768.04 | 4.90 | 2,843.35 | 2,841.08 | 10.56 | 2.27 |
| P-353 | 228.00 | 12.0 | PVC | Open | | 2,029.98 | 5.76 | 2,845.35 | 2,843.35 | 8.78 | 2.00 |
| P-354 | 388.00 | 8.0 | PVC | Open | | 7.78 | 0.05 | 2,845.35 | 2,845.35 | 0.00 | 0.00 |
| P-355 | 278.00 | 12.0 | PVC | Open | | 2,037.76 | 5.78 | 2,847.81 | 2,845.35 | 8.85 | 2.46 |
| P-356 | 862.00 | 8.0 | PVC | Open | | 377.15 | 2.41 | 2,850.14 | 2,847.81 | 2.69 | 2.32 |
| P-357 | 384.00 | 12.0 | PVC | Open | | 1,675.20 | 4.75 | 2,850.14 | 2,847.81 | 6.05 | 2.32 |
| P-358 | 445.00 | 12.0 | PVC | Open | | 2,067.92 | 5.87 | 2,854.19 | 2,850.14 | 9.10 | 4.05 |
| P-359 | 285.00 | 12.0 | PVC | Open | | 127.77 | 0.36 | 2,854.19 | 2,854.17 | 0.05 | 0.01 |
| P-360 | 433.00 | 12.0 | PVC | Open | | -784.64 | 2.23 | 2,854.19 | 2,854.80 | 1.41 | 0.61 |
| P-361 | 110.00 | 12.0 | PVC | Open | | 641.56 | 1.82 | 2,840.66 | 2,840.55 | 0.96 | 0.11 |
| P-362 | 701.00 | 12.0 | PVC | Open | | 1,421.75 | 4.03 | 2,857.27 | 2,854.19 | 4.40 | 3.09 |
| P-363 | 278.00 | 12.0 | PVC | Open | | 1,792.99 | 5.09 | 2,859.19 | 2,857.27 | 6.90 | 1.92 |
| P-364 | 1,033.00 | 8.0 | PVC | Open | | 354.70 | 2.26 | 2,857.27 | 2,854.80 | 2.40 | 2.48 |

Title: INITIAL RUN

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Project Engineer: DMC

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-365 | 213.00 | 8.0 | PVC | Open | | -704.71 | 4.50 | 2,854.80 | 2,856.70 | 8.94 | 1.90 |
| P-366 | 15.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,856.70 | 2,856.70 | 0.00 | 0.00 |
| P-367 | 928.00 | 8.0 | PVC | Open | | 704.71 | 4.50 | 2,865.00 | 2,856.70 | 8.94 | 8.30 |
| P-370 | 40.00 | 8.0 | PVC | Open | | 34.72 | 0.22 | 2,778.62 | 2,778.62 | 0.03 | 0.00 |
| P-371 | 40.00 | 8.0 | PVC | Open | | 8.96 | 0.06 | 2,777.54 | 2,777.54 | 0.00 | 0.00 |
| P-372 | 360.00 | 12.0 | PVC | Open | | 501.48 | 1.42 | 2,780.87 | 2,780.66 | 0.60 | 0.22 |
| P-373 | 479.00 | 8.0 | PVC | Open | | -110.82 | 0.71 | 2,778.97 | 2,779.10 | 0.27 | 0.13 |
| P-374 | 102.00 | 12.0 | PVC | Open | | 61.62 | 0.17 | 2,774.60 | 2,774.59 | 0.01 | 0.00 |
| P-375 | 90.00 | 12.0 | PVC | Open | | 4.26 | 0.01 | 2,774.59 | 2,774.59 | 0.00 | 0.00 |
| P-376 | 789.00 | 12.0 | PVC | Open | | 1,440.79 | 4.09 | 2,862.76 | 2,859.19 | 4.52 | 3.57 |
| P-377 | 1,321.00 | 8.0 | PVC | Open | | 377.49 | 2.41 | 2,862.76 | 2,859.19 | 2.70 | 3.57 |
| P-378 | 203.00 | 12.0 | PVC | Open | | 1,836.77 | 5.21 | 2,864.23 | 2,862.76 | 7.23 | 1.47 |
| P-379 | 775.00 | 12.0 | PVC | Open | | 1,781.34 | 5.05 | 2,753.77 | 2,748.49 | 6.81 | 5.28 |
| P-380 | 558.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,821.49 | 2,821.49 | 0.00 | 0.00 |
| P-381 | 890.00 | 12.0 | PVC | Open | | 1,781.34 | 5.05 | 2,748.49 | 2,742.42 | 6.81 | 6.06 |
| P-383 | 107.00 | 12.0 | PVC | Open | | 1,836.77 | 5.21 | 2,865.00 | 2,864.23 | 7.23 | 0.77 |
| P-384 | 154.00 | 8.0 | PVC | Open | | 266.04 | 1.70 | 2,774.35 | 2,774.13 | 1.39 | 0.21 |
| P-385 | 378.00 | 6.0 | PVC | Open | | 4.86 | 0.06 | 2,774.13 | 2,774.13 | 0.00 | 0.00 |
| P-386 | 257.00 | 8.0 | PVC | Open | | 252.42 | 1.61 | 2,774.13 | 2,773.81 | 1.26 | 0.32 |
| P-387 | 333.00 | 8.0 | PVC | Open | | 6.81 | 0.04 | 2,773.81 | 2,773.81 | 0.00 | 0.00 |
| P-388 | 270.00 | 8.0 | PVC | Open | | 237.83 | 1.52 | 2,773.81 | 2,773.50 | 1.13 | 0.30 |
| P-389 | 185.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,773.50 | 2,773.50 | 0.00 | 0.00 |
| P-390 | 419.00 | 8.0 | PVC | Open | | 490.69 | 3.13 | 2,773.48 | 2,771.61 | 4.45 | 1.87 |
| P-391 | 250.00 | 8.0 | PVC | Open | | 110.40 | 0.70 | 2,771.61 | 2,771.55 | 0.27 | 0.07 |
| P-392 | 535.00 | 8.0 | PVC | Open | | -101.82 | 0.65 | 2,771.55 | 2,771.67 | 0.23 | 0.13 |
| P-393 | 113.00 | 8.0 | PVC | Open | | -386.11 | 2.46 | 2,771.67 | 2,771.99 | 2.82 | 0.32 |
| P-394 | 377.00 | 8.0 | PVC | Open | | 273.59 | 1.75 | 2,771.67 | 2,771.12 | 1.47 | 0.55 |
| P-395 | 474.00 | 8.0 | PVC | Open | | 211.20 | 1.35 | 2,771.55 | 2,771.12 | 0.90 | 0.43 |
| P-396 | 250.00 | 8.0 | PVC | Open | | 477.01 | 3.04 | 2,771.12 | 2,770.06 | 4.22 | 1.05 |
| P-397 | 598.00 | 8.0 | PVC | Open | | 369.59 | 2.36 | 2,771.61 | 2,770.06 | 2.59 | 1.55 |
| P-398 | 270.00 | 12.0 | PVC | Open | | 1,041.65 | 2.95 | 2,770.72 | 2,770.06 | 2.42 | 0.65 |
| P-399 | 202.00 | 8.0 | PVC | Open | | 3.89 | 0.02 | 2,770.72 | 2,770.72 | 0.00 | 0.00 |
| P-400 | 280.00 | 12.0 | PVC | Open | | 1,051.38 | 2.98 | 2,771.41 | 2,770.72 | 2.46 | 0.69 |
| P-401 | 233.00 | 8.0 | PVC | Open | | 3.89 | 0.02 | 2,771.41 | 2,771.41 | 0.00 | 0.00 |
| P-402 | 310.00 | 12.0 | PVC | Open | | 1,880.46 | 5.33 | 2,770.06 | 2,767.72 | 7.57 | 2.35 |
| P-403 | 377.00 | 8.0 | PVC | Open | | 4.86 | 0.03 | 2,767.72 | 2,767.72 | 0.00 | 0.00 |
| P-404 | 252.00 | 12.0 | PVC | Open | | 1,868.79 | 5.30 | 2,767.72 | 2,765.83 | 7.48 | 1.88 |
| P-405 | 213.00 | 8.0 | PVC | Open | | 4.86 | 0.03 | 2,765.83 | 2,765.83 | 0.00 | 0.00 |
| P-406 | 535.00 | 12.0 | PVC | Open | | 1,857.11 | 5.27 | 2,765.83 | 2,761.88 | 7.39 | 3.95 |
| P-407 | 160.00 | 8.0 | PVC | Open | | 454.55 | 2.90 | 2,761.88 | 2,761.26 | 3.85 | 0.62 |
| P-408 | 308.00 | 12.0 | PVC | Open | | 1,392.83 | 3.95 | 2,761.88 | 2,760.58 | 4.23 | 1.30 |
| P-409 | 9.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,760.58 | 2,760.58 | 0.00 | 0.00 |
| P-410 | 265.00 | 8.0 | PVC | Open | | 30.57 | 0.20 | 2,821.53 | 2,821.52 | 0.03 | 0.01 |
| P-411 | 136.00 | 8.0 | PVC | Open | | 17.92 | 0.11 | 2,821.52 | 2,821.52 | 0.01 | 0.00 |
| P-412 | 330.00 | 8.0 | PVC | Open | | 7.78 | 0.05 | 2,821.52 | 2,821.52 | 0.00 | 0.00 |
| P-413 | 942.00 | 12.0 | PVC | Open | | 187.30 | 0.53 | 2,821.62 | 2,821.53 | 0.10 | 0.09 |
| P-414 | 216.00 | 8.0 | PVC | Open | | 34.46 | 0.22 | 2,821.62 | 2,821.61 | 0.03 | 0.01 |
| P-415 | 433.00 | 8.0 | PVC | Open | | 8.76 | 0.06 | 2,821.61 | 2,821.61 | 0.00 | 0.00 |
| P-416 | 265.00 | 8.0 | PVC | Open | | 17.92 | 0.11 | 2,821.61 | 2,821.61 | 0.01 | 0.00 |
| P-417 | 392.00 | 12.0 | PVC | Open | | 73.35 | 0.21 | 2,854.17 | 2,854.17 | 0.02 | 0.01 |
| P-418 | 493.00 | 12.0 | PVC | Open | | 56.81 | 0.16 | 2,854.17 | 2,854.16 | 0.01 | 0.01 |

Title: INITIAL RUN

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Project Engineer: DMC

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-419 | 263.00 | 6.0 | PVC | Open | | 6.81 | 0.08 | 2,854.17 | 2,854.16 | 0.01 | 0.00 |
| P-420 | 336.00 | 6.0 | PVC | Open | | 5.84 | 0.07 | 2,854.17 | 2,854.16 | 0.00 | 0.00 |
| P-421 | 907.00 | 8.0 | PVC | Open | | 21.10 | 0.13 | 2,854.17 | 2,854.16 | 0.01 | 0.01 |
| P-422 | 377.00 | 12.0 | PVC | Open | | 47.99 | 0.14 | 2,854.16 | 2,854.16 | 0.01 | 0.00 |
| P-423 | 770.00 | 8.0 | PVC | Open | | 22.62 | 0.14 | 2,854.17 | 2,854.16 | 0.02 | 0.01 |
| P-424 | 20.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,836.50 | 2,836.50 | 0.00 | 0.00 |
| P-425 | 1,980.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,836.18 | 2,836.18 | 0.00 | 0.00 |
| P-426 | 209.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,836.18 | 2,836.18 | 0.00 | 0.00 |
| P-427 | 207.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,836.18 | 2,836.18 | 0.00 | 0.00 |
| P-428 | 251.00 | 12.0 | PVC | Open | | 957.01 | 2.71 | 2,774.35 | 2,773.83 | 2.06 | 0.52 |
| P-429 | 281.00 | 4.0 | PVC | Open | | 12.63 | 0.32 | 2,774.56 | 2,774.51 | 0.16 | 0.05 |
| P-430 | 370.00 | 8.0 | PVC | Open | | -120.42 | 0.77 | 2,778.12 | 2,778.24 | 0.32 | 0.12 |
| P-431 | 54.00 | 6.0 | PVC | Open | | 0.96 | 0.01 | 2,778.24 | 2,778.24 | 0.00 | 0.00 |
| P-432 | 55.00 | 6.0 | PVC | Open | | 3.02 | 0.03 | 2,778.24 | 2,778.24 | 0.00 | 0.00 |
| P-433 | 506.00 | 8.0 | PVC | Open | | -130.21 | 0.83 | 2,778.24 | 2,778.43 | 0.37 | 0.19 |
| P-434 | 155.00 | 12.0 | PVC | Open | | -79.03 | 0.22 | 2,778.49 | 2,778.49 | 0.02 | 0.00 |
| P-435 | 467.00 | 8.0 | PVC | Open | | 30.08 | 0.19 | 2,778.73 | 2,778.72 | 0.03 | 0.01 |
| P-436 | 360.00 | 8.0 | PVC | Open | | -88.89 | 0.57 | 2,778.43 | 2,778.49 | 0.18 | 0.07 |
| P-437 | 760.00 | 8.0 | PVC | Open | | 42.48 | 0.27 | 2,778.46 | 2,778.43 | 0.05 | 0.04 |
| P-438 | 348.00 | 8.0 | PVC | Open | | -41.41 | 0.26 | 2,778.46 | 2,778.48 | 0.05 | 0.02 |
| P-439 | 51.00 | 12.0 | PVC | Open | | -61.02 | 0.17 | 2,778.48 | 2,778.48 | 0.01 | 0.00 |
| P-440 | 18.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,778.48 | 2,778.48 | 0.00 | 0.00 |
| P-441 | 642.00 | 12.0 | PVC | Open | | -63.22 | 0.18 | 2,778.48 | 2,778.49 | 0.01 | 0.01 |
| P-442 | 350.00 | 12.0 | PVC | Open | | 15.08 | 0.04 | 2,778.49 | 2,778.49 | 0.00 | 0.00 |
| P-443 | 336.00 | 12.0 | PVC | Open | | -180.32 | 0.51 | 2,778.49 | 2,778.52 | 0.09 | 0.03 |
| P-444 | 829.00 | 12.0 | PVC | Open | | -180.32 | 0.51 | 2,778.52 | 2,778.60 | 0.09 | 0.08 |
| P-445 | 120.00 | 8.0 | PVC | Open | | 214.06 | 1.37 | 2,779.38 | 2,779.27 | 0.93 | 0.11 |
| P-446 | 470.00 | 8.0 | PVC | Open | | 1.62 | 0.01 | 2,779.27 | 2,779.27 | 0.00 | 0.00 |
| P-447 | 265.00 | 12.0 | PVC | Open | | -180.32 | 0.51 | 2,778.60 | 2,778.62 | 0.09 | 0.02 |
| P-448 | 337.00 | 8.0 | PVC | Open | | -110.47 | 0.71 | 2,779.10 | 2,779.19 | 0.27 | 0.09 |
| P-449 | 39.00 | 8.0 | PVC | Open | | 5.63 | 0.04 | 2,778.62 | 2,778.62 | 0.00 | 0.00 |
| P-450 | 705.00 | 12.0 | PVC | Open | | -185.95 | 0.53 | 2,778.62 | 2,778.69 | 0.10 | 0.07 |
| P-451 | 197.00 | 12.0 | PVC | Open | | -203.72 | 0.58 | 2,778.69 | 2,778.71 | 0.11 | 0.02 |
| P-452 | 250.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,778.49 | 2,778.49 | 0.00 | 0.00 |
| P-453 | 546.00 | 8.0 | PVC | Open | | 38.70 | 0.25 | 2,779.19 | 2,779.17 | 0.04 | 0.02 |
| P-454 | 526.00 | 8.0 | PVC | Open | | -0.35 | 0.00 | 2,779.10 | 2,779.10 | 0.00 | 0.00 |
| P-455 | 730.00 | 8.0 | PVC | Open | | 73.39 | 0.47 | 2,779.00 | 2,778.91 | 0.13 | 0.09 |
| P-456 | 236.00 | 8.0 | PVC | Open | | -111.42 | 0.71 | 2,779.19 | 2,779.25 | 0.28 | 0.07 |
| P-457 | 235.00 | 12.0 | PVC | Open | | 28.15 | 0.08 | 2,779.25 | 2,779.25 | 0.00 | 0.00 |
| P-458 | 311.00 | 12.0 | PVC | Open | | 17.85 | 0.05 | 2,779.25 | 2,779.25 | 0.00 | 0.00 |
| P-459 | 314.00 | 12.0 | PVC | Open | | 10.08 | 0.03 | 2,779.25 | 2,779.25 | 0.00 | 0.00 |
| P-460 | 331.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,779.25 | 2,779.25 | 0.00 | 0.00 |
| P-461 | 399.00 | 12.0 | PVC | Open | | -139.56 | 0.40 | 2,779.25 | 2,779.28 | 0.06 | 0.02 |
| P-462 | 322.00 | 12.0 | PVC | Open | | 248.10 | 0.70 | 2,779.28 | 2,779.22 | 0.16 | 0.05 |
| P-463 | 711.00 | 12.0 | PVC | Open | | 247.03 | 0.70 | 2,779.22 | 2,779.11 | 0.16 | 0.12 |
| P-464 | 355.00 | 12.0 | PVC | Open | | 387.66 | 1.10 | 2,779.41 | 2,779.28 | 0.37 | 0.13 |
| P-465 | 158.00 | 8.0 | PVC | Open | | 155.38 | 0.99 | 2,779.41 | 2,779.33 | 0.51 | 0.08 |
| P-466 | 432.00 | 8.0 | PVC | Open | | -70.25 | 0.45 | 2,779.28 | 2,779.33 | 0.12 | 0.05 |
| P-467 | 475.00 | 8.0 | PVC | Open | | -66.65 | 0.43 | 2,779.28 | 2,779.33 | 0.11 | 0.05 |
| P-468 | 316.00 | 8.0 | PVC | Open | | -123.46 | 0.79 | 2,779.17 | 2,779.28 | 0.33 | 0.11 |
| P-469 | 347.00 | 12.0 | PVC | Open | | 441.19 | 1.25 | 2,779.68 | 2,779.52 | 0.48 | 0.17 |

Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-470 | 178.00 | 12.0 | PVC | Open | | 543.05 | 1.54 | 2,779.81 | 2,779.68 | 0.70 | 0.13 |
| P-471 | 660.00 | 12.0 | PVC | Open | | 545.52 | 1.55 | 2,780.27 | 2,779.81 | 0.71 | 0.47 |
| P-472 | 224.00 | 12.0 | PVC | Open | | 545.94 | 1.55 | 2,780.43 | 2,780.27 | 0.71 | 0.16 |
| P-473 | 296.00 | 12.0 | PVC | Open | | -851.54 | 2.42 | 2,780.43 | 2,780.92 | 1.65 | 0.49 |
| P-474 | 153.00 | 12.0 | PVC | Open | | 543.04 | 1.54 | 2,779.52 | 2,779.41 | 0.70 | 0.11 |
| P-476 | 304.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,778.86 | 2,778.86 | 0.00 | 0.00 |
| P-477 | 692.00 | 8.0 | PVC | Open | | -301.94 | 1.93 | 2,779.21 | 2,780.43 | 1.77 | 1.22 |
| P-478 | 13.00 | 8.0 | PVC | Open | | 10.42 | 0.07 | 2,779.11 | 2,779.11 | 0.00 | 0.00 |
| P-479 | 84.00 | 8.0 | PVC | Open | | -48.25 | 0.31 | 2,778.91 | 2,778.91 | 0.06 | 0.01 |
| P-480 | 200.00 | 12.0 | PVC | Open | | 501.48 | 1.42 | 2,780.66 | 2,780.53 | 0.61 | 0.12 |
| P-481 | 550.00 | 12.0 | PVC | Open | | 490.78 | 1.39 | 2,780.53 | 2,780.22 | 0.58 | 0.32 |
| P-482 | 703.00 | 8.0 | PVC | Open | | 112.76 | 0.72 | 2,780.22 | 2,780.02 | 0.28 | 0.20 |
| P-483 | 960.00 | 12.0 | PVC | Open | | 370.37 | 1.05 | 2,780.22 | 2,779.89 | 0.34 | 0.33 |
| P-484 | 265.00 | 12.0 | PVC | Open | | 448.10 | 1.27 | 2,779.89 | 2,779.76 | 0.49 | 0.13 |
| P-485 | 447.00 | 12.0 | PVC | Open | | 23.56 | 0.07 | 2,854.16 | 2,854.16 | 0.00 | 0.00 |
| P-486 | 160.00 | 12.0 | PVC | Open | | 19.68 | 0.06 | 2,854.16 | 2,854.16 | 0.00 | 0.00 |
| P-487 | 159.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,854.16 | 2,854.16 | 0.00 | 0.00 |
| P-488 | 981.00 | 8.0 | PVC | Open | | 12.75 | 0.08 | 2,854.16 | 2,854.15 | 0.01 | 0.01 |
| P-489 | 135.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,854.16 | 2,854.16 | 0.00 | 0.00 |
| P-490 | 338.00 | 8.0 | PVC | Open | | 130.67 | 0.83 | 2,774.98 | 2,774.85 | 0.37 | 0.13 |
| P-491 | 317.00 | 8.0 | PVC | Open | | 10.19 | 0.07 | 2,774.85 | 2,774.85 | 0.00 | 0.00 |
| P-492 | 1,010.00 | 8.0 | PVC | Open | | 130.16 | 0.83 | 2,774.85 | 2,774.48 | 0.37 | 0.37 |
| P-493 | 314.00 | 8.0 | PVC | Open | | 234.81 | 1.50 | 2,774.48 | 2,774.13 | 1.10 | 0.35 |
| P-494 | 159.00 | 8.0 | PVC | Open | | 117.30 | 0.75 | 2,774.53 | 2,774.48 | 0.30 | 0.05 |
| P-495 | 527.00 | 8.0 | PVC | Open | | 117.30 | 0.75 | 2,774.69 | 2,774.53 | 0.30 | 0.16 |
| P-496 | 134.00 | 12.0 | PVC | Open | | 918.49 | 2.61 | 2,778.11 | 2,777.85 | 1.90 | 0.26 |
| P-498 | 1.00 | 96.0 | PVC | Open | | 0.00 | 0.00 | 2,493.50 | 2,493.50 | 0.00 | 0.00 |
| P-499 | 356.00 | 12.0 | PVC | Open | | 474.41 | 1.35 | 2,777.77 | 2,777.58 | 0.55 | 0.19 |
| P-500 | 259.00 | 12.0 | PVC | Open | | 467.25 | 1.33 | 2,777.58 | 2,777.44 | 0.53 | 0.14 |
| P-501 | 152.00 | 12.0 | PVC | Open | | 358.11 | 1.02 | 2,777.50 | 2,777.45 | 0.32 | 0.05 |
| P-503 | 30.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,777.53 | 2,777.53 | 0.00 | 0.00 |
| P-504 | 120.00 | 8.0 | PVC | Open | | 57.91 | 0.37 | 2,777.54 | 2,777.53 | 0.09 | 0.01 |
| P-505 | 30.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,777.54 | 2,777.54 | 0.00 | 0.00 |
| P-507 | 27.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,777.55 | 2,777.55 | 0.00 | 0.00 |
| P-508 | 197.00 | 8.0 | PVC | Open | | -12.49 | 0.08 | 2,777.55 | 2,777.55 | 0.00 | 0.00 |
| P-509 | 785.00 | 8.0 | PVC | Open | | -10.54 | 0.07 | 2,777.55 | 2,777.55 | 0.00 | 0.00 |
| P-510 | 222.00 | 8.0 | PVC | Open | | 1.95 | 0.01 | 2,777.55 | 2,777.55 | 0.00 | 0.00 |
| P-511 | 683.00 | 8.0 | PVC | Open | | -4.71 | 0.03 | 2,777.55 | 2,777.55 | 0.00 | 0.00 |
| P-512 | 819.00 | 8.0 | PVC | Open | | 1.95 | 0.01 | 2,777.55 | 2,777.55 | 0.00 | 0.00 |
| P-513 | 283.00 | 8.0 | PVC | Open | | -0.82 | 0.01 | 2,777.55 | 2,777.55 | 0.00 | 0.00 |
| P-514 | 136.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,777.58 | 2,777.58 | 0.00 | 0.00 |
| P-515 | 560.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,774.69 | 2,774.69 | 0.00 | 0.00 |
| P-516 | 19.00 | 8.0 | PVC | Open | | -284.51 | 1.82 | 2,786.16 | 2,786.19 | 1.58 | 0.03 |
| P-517 | 0.25 | 96.0 | Steel | Open | | 1,350.63 | 0.06 | 2,419.00 | 2,419.00 | 0.00 | 0.00 |
| P-518 | 250.00 | 8.0 | PVC | Open | | 25.60 | 0.16 | 2,778.81 | 2,778.81 | 0.02 | 0.01 |
| P-519 | 673.00 | 8.0 | PVC | Open | | 199.25 | 1.27 | 2,779.27 | 2,778.73 | 0.81 | 0.54 |
| P-520 | 32.00 | 8.0 | PVC | Open | | 58.22 | 0.37 | 2,779.38 | 2,779.38 | 0.09 | 0.00 |
| P-521 | 769.00 | 8.0 | PVC | Open | | 135.07 | 0.86 | 2,778.73 | 2,778.43 | 0.39 | 0.30 |
| P-522 | 105.00 | 8.0 | PVC | Open | | -12.66 | 0.08 | 2,778.71 | 2,778.71 | 0.01 | 0.00 |
| P-523 | 305.00 | 12.0 | PVC | Open | | 192.80 | 0.55 | 2,778.74 | 2,778.71 | 0.10 | 0.03 |
| P-524 | 94.00 | 6.0 | PVC | Open | | 30.19 | 0.34 | 2,778.74 | 2,778.73 | 0.11 | 0.01 |

Title: INITIAL RUN

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-525 | 232.00 | 12.0 | PVC | Open | | 223.71 | 0.63 | 2,778.78 | 2,778.74 | 0.14 | 0.03 |
| P-526 | 294.00 | 12.0 | PVC | Open | | 171.11 | 0.49 | 2,778.80 | 2,778.78 | 0.08 | 0.02 |
| P-527 | 248.00 | 8.0 | PVC | Open | | 1.28 | 0.01 | 2,778.80 | 2,778.80 | 0.00 | 0.00 |
| P-528 | 83.00 | 8.0 | PVC | Open | | 1.28 | 0.01 | 2,778.80 | 2,778.80 | 0.00 | 0.00 |
| P-529 | 115.00 | 12.0 | PVC | Open | | 172.39 | 0.49 | 2,778.81 | 2,778.80 | 0.08 | 0.01 |
| P-530 | 384.00 | 12.0 | PVC | Open | | 172.39 | 0.49 | 2,778.84 | 2,778.81 | 0.08 | 0.03 |
| P-531 | 153.00 | 12.0 | PVC | Open | | 172.39 | 0.49 | 2,778.86 | 2,778.84 | 0.08 | 0.01 |
| P-532 | 216.00 | 12.0 | PVC | Open | | 172.39 | 0.49 | 2,778.87 | 2,778.86 | 0.08 | 0.02 |
| P-533 | 169.00 | 12.0 | PVC | Open | | 172.51 | 0.49 | 2,778.89 | 2,778.87 | 0.09 | 0.01 |
| P-534 | 163.00 | 12.0 | PVC | Open | | 172.51 | 0.49 | 2,778.90 | 2,778.89 | 0.08 | 0.01 |
| P-535 | 222.00 | 12.0 | PVC | Open | | 172.51 | 0.49 | 2,778.92 | 2,778.90 | 0.08 | 0.02 |
| P-536 | 395.00 | 12.0 | PVC | Open | | 174.35 | 0.49 | 2,778.95 | 2,778.92 | 0.09 | 0.03 |
| P-537 | 322.00 | 8.0 | PVC | Open | | 62.24 | 0.40 | 2,778.95 | 2,778.92 | 0.10 | 0.03 |
| P-538 | 574.00 | 8.0 | PVC | Open | | 62.24 | 0.40 | 2,778.92 | 2,778.87 | 0.10 | 0.06 |
| P-539 | 315.00 | 8.0 | PVC | Open | | 62.00 | 0.40 | 2,778.87 | 2,778.84 | 0.10 | 0.03 |
| P-540 | 306.00 | 8.0 | PVC | Open | | 61.32 | 0.39 | 2,778.84 | 2,778.81 | 0.09 | 0.03 |
| P-541 | 359.00 | 8.0 | PVC | Open | | 61.32 | 0.39 | 2,778.81 | 2,778.78 | 0.09 | 0.03 |
| P-542 | 145.00 | 8.0 | PVC | Open | | 0.67 | 0.00 | 2,778.84 | 2,778.84 | 0.00 | 0.00 |
| P-543 | 289.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,778.84 | 2,778.84 | 0.00 | 0.00 |
| P-544 | 387.00 | 8.0 | PVC | Open | | 0.37 | 0.00 | 2,778.84 | 2,778.84 | 0.00 | 0.00 |
| P-545 | 57.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,778.81 | 2,778.81 | 0.00 | 0.00 |
| P-546 | 50.00 | 8.0 | PVC | Open | | 0.66 | 0.00 | 2,778.84 | 2,778.84 | 0.00 | 0.00 |
| P-547 | 329.00 | 8.0 | PVC | Open | | 0.29 | 0.00 | 2,778.84 | 2,778.84 | 0.00 | 0.00 |
| P-548 | 284.00 | 8.0 | PVC | Open | | 0.03 | 0.00 | 2,778.84 | 2,778.84 | 0.00 | 0.00 |
| P-549 | 284.00 | 8.0 | PVC | Open | | 0.26 | 0.00 | 2,778.84 | 2,778.84 | 0.00 | 0.00 |
| P-550 | 210.00 | 8.0 | PVC | Open | | 0.17 | 0.00 | 2,778.84 | 2,778.84 | 0.00 | 0.00 |
| P-551 | 171.00 | 8.0 | PVC | Open | | 0.01 | 0.00 | 2,778.84 | 2,778.84 | 0.00 | 0.00 |
| P-552 | 269.00 | 8.0 | PVC | Open | | 101.85 | 0.65 | 2,779.58 | 2,779.52 | 0.23 | 0.06 |
| P-553 | 161.00 | 8.0 | PVC | Open | | 101.86 | 0.65 | 2,779.68 | 2,779.64 | 0.24 | 0.04 |
| P-554 | 90.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,778.92 | 2,778.92 | 0.00 | 0.00 |
| P-555 | 63.00 | 12.0 | PVC | Open | | 236.59 | 0.67 | 2,778.96 | 2,778.95 | 0.15 | 0.01 |
| P-556 | 252.00 | 8.0 | PVC | Open | | 0.03 | 0.00 | 2,778.80 | 2,778.80 | 0.00 | 0.00 |
| P-557 | 256.00 | 12.0 | PVC | Open | | 236.59 | 0.67 | 2,779.00 | 2,778.96 | 0.15 | 0.04 |
| P-558 | 702.00 | 12.0 | PVC | Open | | 236.61 | 0.67 | 2,779.11 | 2,779.00 | 0.15 | 0.11 |
| P-559 | 110.00 | 12.0 | PVC | Open | | 0.01 | 0.00 | 2,779.00 | 2,779.00 | 0.00 | 0.00 |
| P-560 | 275.00 | 8.0 | PVC | Open | | 101.85 | 0.65 | 2,779.64 | 2,779.58 | 0.23 | 0.06 |
| P-561 | 436.00 | 12.0 | PVC | Open | | 0.01 | 0.00 | 2,779.00 | 2,779.00 | 0.00 | 0.00 |
| P-562 | 79.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.58 | 2,779.58 | 0.00 | 0.00 |
| P-563 | 442.00 | 12.0 | PVC | Open | | 0.01 | 0.00 | 2,779.00 | 2,779.00 | 0.00 | 0.00 |
| P-564 | 68.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.00 | 2,779.00 | 0.00 | 0.00 |
| P-565 | 42.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,779.00 | 2,779.00 | 0.00 | 0.00 |
| P-566 | 86.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.64 | 2,779.64 | 0.00 | 0.00 |
| P-567 | 433.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,779.00 | 2,779.00 | 0.00 | 0.00 |
| P-568 | 64.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,779.00 | 2,779.00 | 0.00 | 0.00 |
| P-569 | 222.00 | 8.0 | PVC | Open | | 3.89 | 0.02 | 2,774.89 | 2,774.89 | 0.00 | 0.00 |
| P-570 | 307.00 | 8.0 | PVC | Open | | 201.90 | 1.29 | 2,774.85 | 2,774.60 | 0.83 | 0.25 |
| P-571 | 220.00 | 8.0 | PVC | Open | | 4.86 | 0.03 | 2,774.60 | 2,774.60 | 0.00 | 0.00 |
| P-572 | 247.00 | 8.0 | PVC | Open | | 193.15 | 1.23 | 2,774.60 | 2,774.41 | 0.76 | 0.19 |
| P-573 | 254.00 | 6.0 | PVC | Open | | 5.84 | 0.07 | 2,774.41 | 2,774.41 | 0.00 | 0.00 |
| P-574 | 400.00 | 8.0 | PVC | Open | | 182.45 | 1.16 | 2,774.41 | 2,774.13 | 0.69 | 0.27 |
| P-575 | 287.00 | 8.0 | PVC | Open | | 6.81 | 0.04 | 2,774.13 | 2,774.13 | 0.00 | 0.00 |

Title: INITIAL RUN

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-576 | 606.00 | 12.0 | PVC | Open | | 150.31 | 0.43 | 2,821.53 | 2,821.49 | 0.07 | 0.04 |
| P-577 | 326.00 | 12.0 | PVC | Open | | 150.31 | 0.43 | 2,821.49 | 2,821.47 | 0.07 | 0.02 |
| P-578 | 16.00 | 8.0 | PVC | Open | | 56.00 | 0.36 | 2,821.47 | 2,821.46 | 0.09 | 0.00 |
| P-579 | 125.00 | 12.0 | PVC | Open | | 94.31 | 0.27 | 2,821.47 | 2,821.46 | 0.03 | 0.00 |
| P-580 | 48.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,821.46 | 2,821.46 | 0.00 | 0.00 |
| P-581 | 307.00 | 12.0 | PVC | Open | | 66.75 | 0.19 | 2,821.46 | 2,821.46 | 0.02 | 0.00 |
| P-582 | 1,252.00 | 8.0 | PVC | Open | | 14.90 | 0.10 | 2,821.46 | 2,821.45 | 0.01 | 0.01 |
| P-583 | 906.00 | 8.0 | PVC | Open | | 12.22 | 0.08 | 2,821.46 | 2,821.45 | 0.01 | 0.01 |
| P-584 | 151.00 | 8.0 | PVC | Open | | 15.58 | 0.10 | 2,821.45 | 2,821.45 | 0.01 | 0.00 |
| P-585 | 259.00 | 12.0 | PVC | Open | | 44.80 | 0.13 | 2,821.46 | 2,821.46 | 0.01 | 0.00 |
| P-586 | 471.00 | 12.0 | PVC | Open | | 22.40 | 0.06 | 2,821.46 | 2,821.45 | 0.00 | 0.00 |
| P-588 | 320.00 | 8.0 | PVC | Open | | -10.31 | 0.07 | 2,779.64 | 2,779.64 | 0.00 | 0.00 |
| P-589 | 481.00 | 8.0 | PVC | Open | | 95.14 | 0.61 | 2,779.44 | 2,779.34 | 0.21 | 0.10 |
| P-590 | 480.00 | 8.0 | PVC | Open | | 6.81 | 0.04 | 2,779.44 | 2,779.44 | 0.00 | 0.00 |
| P-591 | 500.00 | 8.0 | PVC | Open | | 7.78 | 0.05 | 2,779.44 | 2,779.44 | 0.00 | 0.00 |
| P-592 | 334.00 | 8.0 | PVC | Open | | 121.40 | 0.77 | 2,779.55 | 2,779.44 | 0.32 | 0.11 |
| P-593 | 250.00 | 6.0 | PVC | Open | | 5.84 | 0.07 | 2,779.55 | 2,779.55 | 0.00 | 0.00 |
| P-594 | 832.00 | 8.0 | PVC | Open | | -66.16 | 0.42 | 2,779.55 | 2,779.64 | 0.11 | 0.09 |
| P-595 | 350.00 | 8.0 | PVC | Open | | 73.73 | 0.47 | 2,779.59 | 2,779.55 | 0.13 | 0.05 |
| P-596 | 325.00 | 8.0 | PVC | Open | | 6.83 | 0.04 | 2,779.64 | 2,779.64 | 0.00 | 0.00 |
| P-597 | 223.00 | 8.0 | PVC | Open | | 5.84 | 0.04 | 2,779.59 | 2,779.59 | 0.00 | 0.00 |
| P-598 | 460.00 | 8.0 | PVC | Open | | 16.43 | 0.10 | 2,779.64 | 2,779.64 | 0.01 | 0.00 |
| P-599 | 540.00 | 12.0 | PVC | Open | | 343.84 | 0.98 | 2,779.76 | 2,779.59 | 0.30 | 0.16 |
| P-600 | 660.00 | 8.0 | PVC | Open | | 6.72 | 0.04 | 2,779.59 | 2,779.59 | 0.00 | 0.00 |
| P-601 | 160.00 | 8.0 | PVC | Open | | 72.85 | 0.46 | 2,779.61 | 2,779.59 | 0.13 | 0.02 |
| P-602 | 120.00 | 6.0 | PVC | Open | | 3.89 | 0.04 | 2,779.61 | 2,779.61 | 0.00 | 0.00 |
| P-603 | 200.00 | 8.0 | PVC | Open | | 79.66 | 0.51 | 2,779.64 | 2,779.61 | 0.15 | 0.03 |
| P-604 | 375.00 | 8.0 | PVC | Open | | 13.91 | 0.09 | 2,779.64 | 2,779.64 | 0.01 | 0.00 |
| P-605 | 500.00 | 8.0 | PVC | Open | | 99.40 | 0.63 | 2,779.76 | 2,779.64 | 0.22 | 0.11 |
| P-606 | 466.00 | 8.0 | PVC | Open | | 2.25 | 0.01 | 2,761.26 | 2,761.26 | 0.00 | 0.00 |
| P-607 | 121.00 | 8.0 | PVC | Open | | 445.50 | 2.84 | 2,761.26 | 2,760.82 | 3.70 | 0.45 |
| P-608 | 308.00 | 8.0 | PVC | Open | | 428.88 | 2.74 | 2,760.82 | 2,759.76 | 3.44 | 1.06 |
| P-609 | 198.00 | 12.0 | PVC | Open | | 1,377.10 | 3.91 | 2,760.58 | 2,759.76 | 4.14 | 0.82 |
| P-610 | 199.00 | 8.0 | PVC | Open | | 125.08 | 0.80 | 2,774.98 | 2,774.91 | 0.34 | 0.07 |
| P-611 | 673.00 | 8.0 | PVC | Open | | 122.16 | 0.78 | 2,774.91 | 2,774.69 | 0.33 | 0.22 |
| P-612 | 91.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,774.53 | 2,774.53 | 0.00 | 0.00 |
| P-613 | 354.00 | 8.0 | PVC | Open | | 240.70 | 1.54 | 2,779.22 | 2,778.81 | 1.15 | 0.41 |
| P-614 | 739.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,774.60 | 2,774.60 | 0.00 | 0.00 |
| P-615 | 878.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,774.60 | 2,774.60 | 0.00 | 0.00 |
| P-616 | 642.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,774.60 | 2,774.60 | 0.00 | 0.00 |
| P-617 | 35.00 | 8.0 | PVC | Open | | 3.21 | 0.02 | 2,784.88 | 2,784.88 | 0.00 | 0.00 |
| P-618 | 246.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.19 | 2,779.19 | 0.00 | 0.00 |
| P-619 | 179.00 | 8.0 | PVC | Open | | 23.28 | 0.15 | 2,778.82 | 2,778.81 | 0.02 | 0.00 |
| P-620 | 215.00 | 6.0 | PVC | Open | | 3.89 | 0.04 | 2,778.86 | 2,778.86 | 0.00 | 0.00 |
| P-621 | 780.00 | 8.0 | PVC | Open | | 170.11 | 1.09 | 2,778.86 | 2,778.39 | 0.60 | 0.47 |
| P-622 | 123.00 | 6.0 | PVC | Open | | 1.95 | 0.02 | 2,778.39 | 2,778.39 | 0.00 | 0.00 |
| P-623 | 286.00 | 6.0 | PVC | Open | | 160.38 | 1.82 | 2,778.39 | 2,777.74 | 2.27 | 0.65 |
| P-624 | 160.00 | 6.0 | PVC | Open | | 2.92 | 0.03 | 2,777.74 | 2,777.74 | 0.00 | 0.00 |
| P-625 | 660.00 | 8.0 | PVC | Open | | 149.68 | 0.96 | 2,777.74 | 2,777.43 | 0.48 | 0.31 |
| P-626 | 225.00 | 8.0 | PVC | Open | | 396.01 | 2.53 | 2,777.43 | 2,776.76 | 2.96 | 0.67 |
| P-627 | 357.00 | 8.0 | PVC | Open | | 251.20 | 1.60 | 2,777.87 | 2,777.43 | 1.25 | 0.45 |

Title: INITIAL RUN

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01/17/07 12:45:19 Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA

Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-628 | 114.00 | 6.0 | PVC | Open | | 2.92 | 0.03 | 2,777.87 | 2,777.87 | 0.00 | 0.00 |
| P-629 | 395.00 | 8.0 | PVC | Open | | 257.04 | 1.64 | 2,778.39 | 2,777.87 | 1.30 | 0.52 |
| P-630 | 97.00 | 6.0 | PVC | Open | | 1.95 | 0.02 | 2,778.39 | 2,778.39 | 0.00 | 0.00 |
| P-631 | 305.00 | 8.0 | PVC | Open | | 264.82 | 1.69 | 2,778.81 | 2,778.39 | 1.38 | 0.42 |
| P-632 | 1,280.00 | 8.0 | PVC | Open | | 37.74 | 0.24 | 2,778.86 | 2,778.81 | 0.04 | 0.05 |
| P-633 | 380.00 | 8.0 | PVC | Open | | 1.95 | 0.01 | 2,778.92 | 2,778.92 | 0.00 | 0.00 |
| P-634 | 316.00 | 8.0 | PVC | Open | | 43.45 | 0.28 | 2,778.48 | 2,778.47 | 0.05 | 0.02 |
| P-635 | 230.00 | 8.0 | PVC | Open | | 24.54 | 0.16 | 2,778.47 | 2,778.46 | 0.02 | 0.00 |
| P-636 | 60.00 | 8.0 | PVC | Open | | 20.07 | 0.13 | 2,778.46 | 2,778.46 | 0.01 | 0.00 |
| P-637 | 602.00 | 8.0 | PVC | Open | | 4.83 | 0.03 | 2,778.46 | 2,778.46 | 0.00 | 0.00 |
| P-638 | 650.00 | 8.0 | PVC | Open | | 12.61 | 0.08 | 2,778.47 | 2,778.46 | 0.01 | 0.00 |
| P-639 | 346.00 | 8.0 | PVC | Open | | -110.82 | 0.71 | 2,778.87 | 2,778.97 | 0.27 | 0.09 |
| P-640 | 269.00 | 8.0 | PVC | Open | | 29.94 | 0.19 | 2,778.87 | 2,778.86 | 0.03 | 0.01 |
| P-641 | 215.00 | 8.0 | PVC | Open | | 15.53 | 0.10 | 2,778.86 | 2,778.86 | 0.01 | 0.00 |
| P-642 | 245.00 | 8.0 | PVC | Open | | -6.70 | 0.04 | 2,778.86 | 2,778.86 | 0.00 | 0.00 |
| P-643 | 325.00 | 8.0 | PVC | Open | | -20.39 | 0.13 | 2,778.86 | 2,778.87 | 0.01 | 0.00 |
| P-644 | 190.00 | 8.0 | PVC | Open | | -47.68 | 0.30 | 2,778.87 | 2,778.88 | 0.06 | 0.01 |
| P-645 | 503.00 | 8.0 | PVC | Open | | 14.40 | 0.09 | 2,778.86 | 2,778.86 | 0.01 | 0.00 |
| P-646 | 268.00 | 8.0 | PVC | Open | | 4.27 | 0.03 | 2,778.86 | 2,778.86 | 0.00 | 0.00 |
| P-647 | 349.00 | 8.0 | PVC | Open | | -1.50 | 0.01 | 2,778.86 | 2,778.86 | 0.00 | 0.00 |
| P-648 | 172.00 | 8.0 | PVC | Open | | 15.09 | 0.10 | 2,778.86 | 2,778.86 | 0.01 | 0.00 |
| P-649 | 299.00 | 8.0 | PVC | Open | | 27.29 | 0.17 | 2,778.87 | 2,778.86 | 0.02 | 0.01 |
| P-650 | 355.00 | 8.0 | PVC | Open | | 13.68 | 0.09 | 2,778.86 | 2,778.86 | 0.01 | 0.00 |
| P-651 | 265.00 | 8.0 | PVC | Open | | 14.19 | 0.09 | 2,778.86 | 2,778.86 | 0.01 | 0.00 |
| P-652 | 260.00 | 8.0 | PVC | Open | | 7.00 | 0.04 | 2,778.88 | 2,778.88 | 0.00 | 0.00 |
| P-653 | 432.00 | 8.0 | PVC | Open | | 19.10 | 0.12 | 2,778.88 | 2,778.87 | 0.01 | 0.01 |
| P-654 | 153.00 | 8.0 | PVC | Open | | -12.11 | 0.08 | 2,778.88 | 2,778.88 | 0.01 | 0.00 |
| P-655 | 154.00 | 8.0 | PVC | Open | | 54.68 | 0.35 | 2,778.89 | 2,778.88 | 0.08 | 0.01 |
| P-656 | 96.00 | 8.0 | PVC | Open | | 102.40 | 0.65 | 2,778.91 | 2,778.89 | 0.24 | 0.02 |
| P-657 | 191.00 | 8.0 | PVC | Open | | 31.69 | 0.20 | 2,778.92 | 2,778.91 | 0.03 | 0.01 |
| P-658 | 46.00 | 8.0 | PVC | Open | | -56.04 | 0.36 | 2,778.91 | 2,778.92 | 0.08 | 0.00 |
| P-659 | 352.00 | 8.0 | PVC | Open | | 87.73 | 0.56 | 2,778.98 | 2,778.92 | 0.18 | 0.06 |
| P-660 | 566.00 | 8.0 | PVC | Open | | 70.71 | 0.45 | 2,778.98 | 2,778.91 | 0.12 | 0.07 |
| P-661 | 219.00 | 8.0 | PVC | Open | | 158.43 | 1.01 | 2,779.10 | 2,778.98 | 0.53 | 0.12 |
| P-662 | 175.00 | 8.0 | PVC | Open | | 3.89 | 0.02 | 2,778.91 | 2,778.91 | 0.00 | 0.00 |
| P-663 | 197.00 | 8.0 | PVC | Open | | 12.26 | 0.08 | 2,778.88 | 2,778.88 | 0.01 | 0.00 |
| P-664 | 259.00 | 8.0 | PVC | Open | | 39.93 | 0.25 | 2,778.89 | 2,778.88 | 0.04 | 0.01 |
| P-665 | 637.00 | 8.0 | PVC | Open | | -87.03 | 0.56 | 2,840.94 | 2,841.06 | 0.18 | 0.11 |
| P-666 | 120.00 | 8.0 | PVC | Open | | 106.73 | 0.68 | 2,840.94 | 2,840.91 | 0.25 | 0.03 |
| P-667 | 1,504.00 | 8.0 | PVC | Open | | 3.63 | 0.02 | 2,840.95 | 2,840.94 | 0.00 | 0.00 |
| P-668 | 167.00 | 6.0 | PVC | Open | | 4.86 | 0.06 | 2,840.95 | 2,840.95 | 0.00 | 0.00 |
| P-669 | 251.00 | 8.0 | PVC | Open | | 23.09 | 0.15 | 2,840.95 | 2,840.95 | 0.02 | 0.00 |
| P-670 | 104.00 | 6.0 | PVC | Open | | 3.89 | 0.04 | 2,840.95 | 2,840.95 | 0.00 | 0.00 |
| P-671 | 231.00 | 8.0 | PVC | Open | | 27.95 | 0.18 | 2,840.96 | 2,840.95 | 0.02 | 0.01 |
| P-672 | 341.00 | 8.0 | PVC | Open | | 32.60 | 0.21 | 2,840.96 | 2,840.94 | 0.03 | 0.01 |
| P-673 | 337.00 | 8.0 | PVC | Open | | 64.45 | 0.41 | 2,840.99 | 2,840.96 | 0.10 | 0.03 |
| P-674 | 285.00 | 8.0 | PVC | Open | | 5.84 | 0.04 | 2,840.99 | 2,840.99 | 0.00 | 0.00 |
| P-675 | 199.00 | 6.0 | PVC | Open | | 5.84 | 0.07 | 2,840.99 | 2,840.99 | 0.00 | 0.00 |
| P-676 | 283.00 | 8.0 | PVC | Open | | 74.18 | 0.47 | 2,841.03 | 2,840.99 | 0.13 | 0.04 |
| P-677 | 397.00 | 8.0 | PVC | Open | | 47.38 | 0.30 | 2,840.68 | 2,840.66 | 0.06 | 0.02 |
| P-678 | 865.00 | 8.0 | PVC | Open | | 34.04 | 0.22 | 2,840.71 | 2,840.68 | 0.03 | 0.03 |

Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-679 | 123.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,840.71 | 2,840.71 | 0.00 | 0.00 |
| P-680 | 231.00 | 8.0 | PVC | Open | | 46.68 | 0.30 | 2,840.72 | 2,840.71 | 0.06 | 0.01 |
| P-681 | 142.00 | 8.0 | PVC | Open | | 92.13 | 0.59 | 2,840.75 | 2,840.72 | 0.20 | 0.03 |
| P-682 | 1,166.00 | 8.0 | PVC | Open | | 35.72 | 0.23 | 2,840.72 | 2,840.68 | 0.04 | 0.04 |
| P-683 | 818.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,821.37 | 2,821.37 | 0.00 | 0.00 |
| P-684 | 325.00 | 12.0 | PVC | Open | | 1,561.04 | 4.43 | 2,807.21 | 2,805.49 | 5.28 | 1.71 |
| P-685 | 51.00 | 8.0 | PVC | Open | | 22.40 | 0.14 | 2,821.46 | 2,821.46 | 0.02 | 0.00 |
| P-686 | 53.00 | 8.0 | PVC | Open | | 22.40 | 0.14 | 2,821.45 | 2,821.45 | 0.01 | 0.00 |
| P-687 | 22.00 | 6.0 | PVC | Open | | 443.17 | 5.03 | 2,777.85 | 2,777.51 | 15.84 | 0.35 |
| P-688 | 146.00 | 12.0 | PVC | Open | | 475.33 | 1.35 | 2,777.85 | 2,777.77 | 0.55 | 0.08 |
| P-689 | 70.00 | 12.0 | PVC | Open | | 467.25 | 1.33 | 2,777.44 | 2,777.41 | 0.53 | 0.04 |
| P-691 | 524.00 | 8.0 | PVC | Open | | 147.21 | 0.94 | 2,777.51 | 2,777.26 | 0.46 | 0.24 |
| P-692 | 113.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,777.26 | 2,777.26 | 0.00 | 0.00 |
| P-693 | 166.00 | 6.0 | PVC | Open | | 0.55 | 0.01 | 2,777.77 | 2,777.77 | 0.00 | 0.00 |
| P-694 | 689.00 | 8.0 | PVC | Open | | 146.95 | 0.94 | 2,777.26 | 2,776.95 | 0.46 | 0.32 |
| P-695 | 356.00 | 12.0 | PVC | Open | | 747.76 | 2.12 | 2,777.41 | 2,776.95 | 1.29 | 0.46 |
| P-696 | 63.00 | 12.0 | PVC | Open | | 894.71 | 2.54 | 2,776.95 | 2,776.83 | 1.81 | 0.11 |
| P-697 | 126.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,776.83 | 2,776.83 | 0.00 | 0.00 |
| P-698 | 248.00 | 12.0 | PVC | Open | | 894.71 | 2.54 | 2,776.83 | 2,776.38 | 1.81 | 0.45 |
| P-699 | 173.00 | 8.0 | PVC | Open | | 15.48 | 0.10 | 2,776.38 | 2,776.38 | 0.01 | 0.00 |
| P-700 | 11.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,776.38 | 2,776.38 | 0.00 | 0.00 |
| P-701 | 280.00 | 8.0 | PVC | Open | | 15.48 | 0.10 | 2,776.38 | 2,776.38 | 0.01 | 0.00 |
| P-702 | 156.00 | 8.0 | PVC | Open | | 9.84 | 0.06 | 2,776.38 | 2,776.38 | 0.00 | 0.00 |
| P-703 | 299.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,776.38 | 2,776.38 | 0.00 | 0.00 |
| P-704 | 279.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,776.38 | 2,776.38 | 0.00 | 0.00 |
| P-705 | 582.00 | 12.0 | PVC | Open | | 879.22 | 2.49 | 2,776.38 | 2,775.36 | 1.75 | 1.02 |
| P-706 | 10.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,775.36 | 2,775.36 | 0.00 | 0.00 |
| P-707 | 1,401.00 | 12.0 | PVC | Open | | 876.36 | 2.49 | 2,775.36 | 2,772.93 | 1.74 | 2.44 |
| P-708 | 201.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,772.93 | 2,772.93 | 0.00 | 0.00 |
| P-709 | 14.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,772.93 | 2,772.93 | 0.00 | 0.00 |
| P-710 | 132.00 | 12.0 | PVC | Open | | 874.34 | 2.48 | 2,772.93 | 2,772.70 | 1.73 | 0.23 |
| P-711 | 335.00 | 12.0 | PVC | Open | | 614.75 | 1.74 | 2,771.90 | 2,771.60 | 0.89 | 0.30 |
| P-712 | 323.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,771.60 | 2,771.60 | 0.00 | 0.00 |
| P-713 | 228.00 | 12.0 | PVC | Open | | 614.75 | 1.74 | 2,771.60 | 2,771.40 | 0.89 | 0.20 |
| P-714 | 8.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,771.40 | 2,771.40 | 0.00 | 0.00 |
| P-715 | 163.00 | 12.0 | PVC | Open | | 614.75 | 1.74 | 2,771.40 | 2,771.25 | 0.89 | 0.14 |
| P-716 | 160.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,771.25 | 2,771.25 | 0.00 | 0.00 |
| P-718 | 620.00 | 8.0 | PVC | Open | | 200.89 | 1.28 | 2,770.81 | 2,770.31 | 0.82 | 0.51 |
| P-719 | 471.00 | 12.0 | PVC | Open | | -851.54 | 2.42 | 2,780.92 | 2,781.70 | 1.65 | 0.78 |
| P-720 | 153.00 | 12.0 | PVC | Open | | -851.54 | 2.42 | 2,781.70 | 2,781.95 | 1.65 | 0.25 |
| P-721 | 14.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,781.95 | 2,781.95 | 0.00 | 0.00 |
| P-723 | 141.00 | 12.0 | PVC | Open | | -875.06 | 2.48 | 2,783.77 | 2,784.02 | 1.74 | 0.24 |
| P-724 | 320.00 | 12.0 | PVC | Open | | -898.69 | 2.55 | 2,784.02 | 2,784.60 | 1.83 | 0.58 |
| P-725 | 502.00 | 12.0 | PVC | Open | | 23.52 | 0.07 | 2,784.02 | 2,784.02 | 0.00 | 0.00 |
| P-726 | 214.00 | 12.0 | PVC | Open | | 23.52 | 0.07 | 2,784.02 | 2,784.02 | 0.00 | 0.00 |
| P-727 | 372.00 | 8.0 | PVC | Open | | 77.20 | 0.49 | 2,774.68 | 2,774.62 | 0.14 | 0.05 |
| P-728 | 156.00 | 8.0 | PVC | Open | | 29.12 | 0.19 | 2,774.62 | 2,774.62 | 0.03 | 0.00 |
| P-729 | 708.00 | 8.0 | PVC | Open | | 34.46 | 0.22 | 2,774.62 | 2,774.60 | 0.03 | 0.02 |
| P-730 | 797.00 | 8.0 | PVC | Open | | 54.04 | 0.34 | 2,776.16 | 2,776.10 | 0.07 | 0.06 |
| P-731 | 160.00 | 8.0 | PVC | Open | | 132.59 | 0.85 | 2,776.22 | 2,776.16 | 0.38 | 0.06 |
| P-732 | 48.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,778.11 | 2,778.11 | 0.00 | 0.00 |

Title: INITIAL RUN

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01/17/07 12:45:19 BENTLEY Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA

Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|-------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-733 | 425.00 | 8.0 | PVC | Open | | 99.67 | 0.64 | 2,778.77 | 2,778.67 | 0.23 | 0.10 |
| P-735 | 62.00 | 12.0 | PVC | Open | | 0.01 | 0.00 | 2,779.00 | 2,779.00 | 0.00 | 0.00 |
| P-736 | 65.00 | 12.0 | PVC | Open | | 0.01 | 0.00 | 2,779.00 | 2,779.00 | 0.00 | 0.00 |
| P-737 | 33.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,779.00 | 2,779.00 | 0.00 | 0.00 |
| P-738 | 136.00 | 8.0 | PVC | Open | | -162.17 | 1.04 | 2,779.10 | 2,779.17 | 0.55 | 0.07 |
| P-739 | 392.00 | 12.0 | PVC | Open | | -51.28 | 0.15 | 2,779.34 | 2,779.34 | 0.01 | 0.00 |
| P-740 | 14.00 | 8.0 | PVC | Open | | 96.90 | 0.62 | 2,779.34 | 2,779.33 | 0.21 | 0.00 |
| P-741 | 414.00 | 12.0 | PVC | Open | | 45.63 | 0.13 | 2,779.34 | 2,779.34 | 0.01 | 0.00 |
| P-742 | 275.00 | 8.0 | PVC | Open | | 143.81 | 0.92 | 2,779.34 | 2,779.22 | 0.44 | 0.12 |
| P-743 | 120.00 | 8.0 | PVC | Open | | 72.95 | 0.47 | 2,778.78 | 2,778.77 | 0.13 | 0.02 |
| P-744 | 43.00 | 12.0 | PVC | Open | | 1,885.98 | 5.35 | 2,836.50 | 2,836.18 | 7.61 | 0.33 |
| P-745 | 171.00 | 12.0 | PVC | Open | | -898.69 | 2.55 | 2,784.60 | 2,784.92 | 1.83 | 0.31 |
| P-747 | 1,566.00 | 12.0 | PVC | Open | | 1,399.43 | 3.97 | 2,784.80 | 2,778.11 | 4.27 | 6.69 |
| P-749 | 50.00 | 96.0 | PVC | Open | | 1,063.22 | 0.05 | 2,422.00 | 2,422.00 | 0.00 | 0.00 |
| P-751 | 37.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,778.11 | 2,778.11 | 0.00 | 0.00 |
| P-752 | 42.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,778.11 | 2,778.11 | 0.00 | 0.00 |
| P-753 | 697.00 | 8.0 | PVC | Open | | 90.38 | 0.58 | 2,780.02 | 2,779.89 | 0.19 | 0.13 |
| P-754 | 420.00 | 6.0 | PVC | Open | | 11.42 | 0.13 | 2,778.81 | 2,778.80 | 0.02 | 0.01 |
| P-755 | 452.00 | 6.0 | PVC | Open | | 47.67 | 0.54 | 2,788.31 | 2,788.21 | 0.24 | 0.11 |
| P-756 | 895.00 | 8.0 | PVC | Open | | 0.30 | 0.00 | 2,854.16 | 2,854.16 | 0.00 | 0.00 |
| P-757 | 777.00 | 8.0 | PVC | Open | | 4.14 | 0.03 | 2,854.16 | 2,854.16 | 0.00 | 0.00 |
| P-758 | 967.00 | 8.0 | PVC | Open | | 10.93 | 0.07 | 2,854.16 | 2,854.15 | 0.00 | 0.00 |
| P-759 | 920.00 | 8.0 | PVC | Open | | 187.27 | 1.20 | 2,775.90 | 2,775.23 | 0.72 | 0.66 |
| P-760 | 2,830.00 | 12.0 | PVC | Open | | 136.75 | 0.39 | 2,779.33 | 2,779.18 | 0.06 | 0.16 |
| P-762 | 30.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,753.76 | 2,753.76 | 0.00 | 0.00 |
| P-763 | 833.00 | 12.0 | PVC | Open | | 1,334.02 | 3.78 | 2,784.88 | 2,781.63 | 3.90 | 3.25 |
| P-764 | 330.00 | 8.0 | PVC | Open | | 760.13 | 4.85 | 2,753.76 | 2,750.34 | 10.35 | 3.42 |
| P-765 | 140.00 | 6.0 | Steel | Open | | 435.36 | 4.94 | 2,543.00 | 2,541.14 | 13.29 | 1.86 |
| P-766 | 2.00 | 12.0 | PVC | Open | | 1,561.04 | 4.43 | 2,820.58 | 2,820.57 | 5.25 | 0.01 |
| P-767 | 356.00 | 8.0 | PVC | Open | | 760.75 | 4.86 | 2,757.45 | 2,753.76 | 10.37 | 3.69 |
| P-768 | 239.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,748.49 | 2,748.49 | 0.00 | 0.00 |
| P-769 | 2.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,786.00 | 2,786.00 | 0.00 | 0.00 |
| P-844 | 254.00 | 12.0 | PVC | Open | | 1,875.21 | 5.32 | 2,833.02 | 2,831.11 | 7.53 | 1.91 |
| P-845 | 230.00 | 12.0 | PVC | Open | | 1,876.58 | 5.32 | 2,834.76 | 2,833.02 | 7.54 | 1.73 |
| P-846 | 188.00 | 12.0 | PVC | Open | | 1,877.95 | 5.33 | 2,836.18 | 2,834.76 | 7.55 | 1.42 |
| P-847 | 383.00 | 8.0 | PVC | Open | | 2.04 | 0.01 | 2,831.11 | 2,831.11 | 0.00 | 0.00 |
| P-848 | 176.00 | 8.0 | PVC | Open | | 1.37 | 0.01 | 2,833.02 | 2,833.02 | 0.00 | 0.00 |
| P-849 | 168.00 | 8.0 | PVC | Open | | 1.37 | 0.01 | 2,834.76 | 2,834.76 | 0.00 | 0.00 |
| P-900 | 587.00 | 12.0 | PVC | Open | | 2,541.47 | 7.21 | 2,872.99 | 2,865.00 | 13.61 | 7.99 |
| P-901 | 2.00 | 8.0 | Steel | Open | | 370.25 | 2.36 | 2,779.63 | 2,779.63 | 2.32 | 0.00 |
| P-904 | 143.00 | 12.0 | PVC | Open | | 1,350.63 | 3.83 | 2,786.57 | 2,786.00 | 3.99 | 0.57 |
| P-906 | 60.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,774.59 | 2,774.59 | 0.00 | 0.00 |
| P-907 | 1,798.00 | 8.0 | PVC | Open | | 1,063.22 | 6.79 | 2,820.53 | 2,784.80 | 19.87 | 35.73 |
| P-950 | 171.00 | 8.0 | PVC | Open | | 70.13 | 0.45 | 2,778.87 | 2,778.85 | 0.12 | 0.02 |
| P-954 | 23.00 | 64.0 | PVC | Open | | -284.51 | 0.03 | 2,574.50 | 2,574.50 | 0.00 | 0.00 |
| P-958 | 76.00 | 8.0 | PVC | Open | | -36.50 | 0.23 | 2,775.23 | 2,775.24 | 0.04 | 0.00 |
| P-959 | 345.00 | 8.0 | PVC | Open | | 223.77 | 1.43 | 2,775.23 | 2,774.89 | 1.01 | 0.35 |
| P-960 | 37.00 | 8.0 | PVC | Open | | 219.88 | 1.40 | 2,774.89 | 2,774.85 | 0.98 | 0.04 |
| P-964 | 1,139.00 | 12.0 | PVC | Open | | 593.47 | 1.68 | 2,771.25 | 2,770.31 | 0.83 | 0.95 |
| P-965 | 21.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,777.16 | 2,777.16 | 0.00 | 0.00 |
| P-968 | 1,673.00 | 8.0 | PVC | Open | | 0.62 | 0.00 | 2,753.76 | 2,753.76 | 0.00 | 0.00 |

Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|--------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-971 | 601.00 | 6.0 | PVC | Open | | -26.76 | 0.30 | 2,779.65 | 2,779.70 | 0.09 | 0.05 |
| P-972 | 79.00 | 6.0 | PVC | Open | | 2.81 | 0.03 | 2,779.65 | 2,779.65 | 0.00 | 0.00 |
| P-973 | 180.00 | 8.0 | PVC | Open | | -23.95 | 0.15 | 2,779.64 | 2,779.65 | 0.02 | 0.00 |
| P-974 | 904.00 | 8.0 | PVC | Open | | 11.67 | 0.07 | 2,792.35 | 2,792.35 | 0.01 | 0.00 |
| P-975 | 179.00 | 6.0 | PVC | Open | | 11.67 | 0.13 | 2,792.35 | 2,792.34 | 0.02 | 0.00 |
| P-976 | 344.00 | 6.0 | PVC | Open | | 9.73 | 0.11 | 2,788.31 | 2,788.31 | 0.01 | 0.00 |
| P-977 | 178.00 | 6.0 | PVC | Open | | 9.73 | 0.11 | 2,788.31 | 2,788.31 | 0.02 | 0.00 |
| P-978 | 629.00 | 8.0 | PVC | Open | | 760.75 | 4.86 | 2,763.97 | 2,757.45 | 10.37 | 6.52 |
| P-979 | 592.00 | 8.0 | PVC | Open | | 773.07 | 4.93 | 2,770.31 | 2,763.97 | 10.70 | 6.33 |
| P-980 | 752.00 | 8.0 | PVC | Open | | 760.13 | 4.85 | 2,750.21 | 2,742.42 | 10.35 | 7.79 |
| P-981 | 7.00 | 8.0 | PVC | Open | | 2,541.47 | 16.22 | 2,742.42 | 2,741.65 | 109.97 | 0.77 |
| P-982 | 100.00 | 12.0 | PVC | Open | | 760.13 | 2.16 | 2,750.34 | 2,750.21 | 1.33 | 0.13 |
| P-984 | 126.00 | 12.0 | PVC | Open | | 358.11 | 1.02 | 2,777.45 | 2,777.41 | 0.32 | 0.04 |
| P-985 | 103.00 | 6.0 | PVC | Open | | 0.00 | 0.00 | 2,777.45 | 2,777.45 | 0.00 | 0.00 |
| P-986 | 207.00 | 8.0 | PVC | Open | | 0.58 | 0.00 | 2,777.50 | 2,777.50 | 0.00 | 0.00 |
| P-987 | 32.00 | 8.0 | PVC | Open | | 0.00 | 0.00 | 2,805.49 | 2,805.49 | 0.00 | 0.00 |
| P-988 | 415.00 | 8.0 | PVC | Open | | 57.91 | 0.37 | 2,777.53 | 2,777.50 | 0.08 | 0.03 |
| P-989 | 710.00 | 8.0 | PVC | Open | | 394.87 | 2.52 | 2,774.13 | 2,772.05 | 2.94 | 2.09 |
| P-990 | 846.00 | 12.0 | PVC | Open | | -480.94 | 1.36 | 2,777.64 | 2,778.11 | 0.56 | 0.47 |
| P-991 | 19.00 | 8.0 | PVC | Open | | 394.87 | 2.52 | 2,772.05 | 2,771.99 | 2.94 | 0.06 |
| P-992 | 269.00 | 12.0 | PVC | Open | | -193.79 | 0.55 | 2,777.61 | 2,777.64 | 0.10 | 0.03 |
| P-993 | 340.00 | 12.0 | PVC | Open | | -193.79 | 0.55 | 2,777.57 | 2,777.61 | 0.10 | 0.04 |
| P-994 | 67.00 | 12.0 | PVC | Open | | -193.79 | 0.55 | 2,777.57 | 2,777.57 | 0.10 | 0.01 |
| P-995 | 230.00 | 12.0 | PVC | Open | | -84.03 | 0.24 | 2,777.56 | 2,777.57 | 0.02 | 0.01 |
| P-996 | 172.00 | 12.0 | PVC | Open | | -84.03 | 0.24 | 2,777.56 | 2,777.56 | 0.02 | 0.00 |
| P-997 | 147.00 | 8.0 | PVC | Open | | 57.91 | 0.37 | 2,777.55 | 2,777.54 | 0.08 | 0.01 |
| P-998 | 54.00 | 8.0 | PVC | Open | | -12.49 | 0.08 | 2,777.55 | 2,777.55 | 0.00 | 0.00 |
| P-999 | 190.00 | 12.0 | PVC | Open | | -70.40 | 0.20 | 2,777.55 | 2,777.56 | 0.02 | 0.00 |
| P-1000 | 80.00 | 12.0 | PVC | Open | | 13.62 | 0.04 | 2,777.56 | 2,777.56 | 0.00 | 0.00 |
| P-1001 | 141.00 | 12.0 | PVC | Open | | 13.62 | 0.04 | 2,777.56 | 2,777.56 | 0.00 | 0.00 |
| P-1002 | 262.00 | 12.0 | PVC | Open | | 13.62 | 0.04 | 2,777.56 | 2,777.56 | 0.00 | 0.00 |
| P-1003 | 11.00 | 12.0 | PVC | Open | | 13.62 | 0.04 | 2,777.56 | 2,777.56 | 0.00 | 0.00 |
| P-1005 | 258.00 | 12.0 | PVC | Open | | 300.77 | 0.85 | 2,777.56 | 2,777.50 | 0.23 | 0.06 |
| P-1006 | 84.00 | 12.0 | PVC | Open | | 287.15 | 0.81 | 2,777.64 | 2,777.62 | 0.22 | 0.02 |
| P-1007 | 290.00 | 12.0 | PVC | Open | | 287.15 | 0.81 | 2,777.62 | 2,777.56 | 0.21 | 0.06 |
| P-1008 | 716.00 | 8.0 | PVC | Open | | 99.92 | 0.64 | 2,840.91 | 2,840.75 | 0.23 | 0.16 |
| P-1012 | 194.00 | 8.0 | PVC | Open | | 340.01 | 2.17 | 2,776.76 | 2,776.33 | 2.21 | 0.43 |
| P-1013 | 158.00 | 8.0 | PVC | Open | | 188.59 | 1.20 | 2,776.33 | 2,776.22 | 0.73 | 0.12 |
| P-1014 | 443.00 | 8.0 | PVC | Open | | 208.14 | 1.33 | 2,775.21 | 2,774.82 | 0.88 | 0.39 |
| P-1015 | 162.00 | 8.0 | PVC | Open | | 208.14 | 1.33 | 2,774.82 | 2,774.68 | 0.88 | 0.14 |
| P-1016 | 1,013.00 | 8.0 | PVC | Open | | 151.42 | 0.97 | 2,776.33 | 2,775.84 | 0.49 | 0.49 |
| P-1018 | 2,372.00 | 8.0 | PVC | Open | | 151.42 | 0.97 | 2,775.84 | 2,774.69 | 0.49 | 1.15 |
| P-1025 | 64.00 | 12.0 | PVC | Open | | 1,258.42 | 3.57 | 2,785.22 | 2,785.00 | 3.48 | 0.22 |
| P-1026 | 50.00 | 96.0 | PVC | Open | | -1,258.42 | 0.06 | 2,422.00 | 2,422.00 | 0.00 | 0.00 |
| P-1027 | 46.00 | 12.0 | PVC | Open | | -898.69 | 2.55 | 2,784.92 | 2,785.00 | 1.83 | 0.08 |
| P-1029 | 716.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,771.60 | 2,771.60 | 0.00 | 0.00 |
| P-1030 | 229.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,771.60 | 2,771.60 | 0.00 | 0.00 |
| P-1031 | 211.00 | 12.0 | PVC | Open | | 0.00 | 0.00 | 2,771.60 | 2,771.60 | 0.00 | 0.00 |
| P-1032 | 536.00 | 8.0 | PVC | Open | | -96.89 | 0.62 | 2,779.22 | 2,779.33 | 0.21 | 0.11 |
| P-1034 | 1,051.00 | 12.0 | PVC | Open | | -875.06 | 2.48 | 2,781.95 | 2,783.77 | 1.74 | 1.82 |
| P-1035 | 20.00 | 12.0 | PVC | Open | | 359.73 | 1.02 | 2,785.00 | 2,784.99 | 0.33 | 0.01 |

Title: INITIAL RUN

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Project Engineer: DMC

WaterCAD v7.0 [07.00.049.00]

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Scenario: 2026 WELL 6 OFF
Fire Flow Analysis
Pipe Report

| Label | Length (ft) | Dia (in) | Material | Control Status | Hazen-Williams C | Discharge (gpm) | Velocity (ft/s) | Upstream Structure Hydraulic Grade (ft) | Downstream Structure Hydraulic Grade (ft) | Headloss Gradient (ft/1000ft) | Pressure Pipe Headloss (ft) |
|--------|-------------|----------|----------|----------------|------------------|-----------------|-----------------|---|---|-------------------------------|-----------------------------|
| P-1036 | 1,271.00 | 14.0 | PVC | Open | | 359.73 | 0.75 | 2,784.99 | 2,784.80 | 0.15 | 0.19 |

Scenario: 2026 WELL 6 OFF

Fire Flow Analysis

Pump Report

| Label | Discharge (gpm) | Control Status | Elevation (ft) | Intake Pump Grade (ft) | Pump Head (ft) | Discharge Pump Grade (ft) | Calculated Water Power (Hp) |
|-----------|-----------------|----------------|----------------|------------------------|----------------|---------------------------|-----------------------------|
| PMP-1 | 370.25 | On | 2,534.00 | 2,534.00 | 245.63 | 2,779.63 | 22.96 |
| PMP-2 | 435.36 | On | 2,543.00 | 2,541.14 | 71.41 | 2,612.55 | 7.85 |
| PMP-2.1 | 130.07 | On | 2,610.00 | 2,610.99 | 169.17 | 2,780.17 | 5.56 |
| PMP-2.2 | 297.48 | On | 2,610.00 | 2,610.96 | 169.30 | 2,780.26 | 12.72 |
| PMP-2.3 | 0.00 | Off | 2,610.00 | 2,611.00 | 0.00 | 2,780.13 | 0.00 |
| PMP-3 | 284.51 | On | 2,624.50 | 2,574.50 | 211.69 | 2,786.19 | 15.21 |
| PMP-4 | 1,350.63 | On | 2,399.00 | 2,419.00 | 367.57 | 2,786.57 | 125.34 |
| PMP-6 | 0.00 | Off | 2,473.50 | 2,493.50 | 0.00 | 2,774.59 | 0.00 |
| PMP-7 | 1,063.22 | On | 2,372.00 | 2,422.00 | 398.53 | 2,820.53 | 106.98 |
| PMP-8 | 1,258.42 | On | 2,567.00 | 2,422.00 | 363.22 | 2,785.22 | 115.40 |
| PMP-Boost | 2,541.47 | On | 2,640.00 | 2,741.65 | 131.33 | 2,872.99 | 84.27 |

Scenario: 2026 WELL 6 OFF
Fire Flow Analysis
Tank Report

| Label | Base Elevation (ft) | Minimum Elevation (ft) | Initial HGL (ft) | Maximum Elevation (ft) | Inactive Volume (gal) | Tank Diameter (ft) | Inflow (gpm) | Current Status | Calculated Hydraulic Grade (ft) | Calculated Percent Full (%) |
|-------|---------------------|------------------------|------------------|------------------------|-----------------------|--------------------|--------------|----------------|---------------------------------|-----------------------------|
| T-1 | 2,610.00 | 2,610.50 | 2,611.00 | 2,618.00 | 0.00 | N/A | 7.81 | Filling | 2,611.00 | 6.7 |

Scenario: 2026 WELL 6 OFF
Fire Flow Analysis
Valve Report

| Label | Elevation (ft) | Diameter (in) | Control Status | Discharge (gpm) | From HGL (ft) | To HGL (ft) | Headloss (ft) | Calculated Pressure Setting (psi) |
|------------------------|----------------|---------------|----------------|-----------------|---------------|-------------|---------------|-----------------------------------|
| FCV-2-Hwy 55 | 2,602.00 | 12.0 | Closed | 0.00 | 2,821.49 | 2,748.49 | 0.00 | |
| FCV-5 Southhampton | 2,652.00 | 8.0 | Closed | 0.00 | 2,805.49 | 2,821.37 | 0.00 | |
| FCV-6 GREAT SKY Wy | 2,569.50 | 12.0 | Inactive | -0.00 | 2,777.16 | 2,777.16 | 0.00 | |
| TCV-3-Horse Shoe Bend | 2,620.00 | 8.0 | Throttling | 760.75 | 2,757.45 | 2,757.45 | 0.00 | |
| PSV-1 Floating Feather | 2,653.00 | 12.0 | Throttling | 1,561.04 | 2,820.57 | 2,807.21 | 13.37 | 72.50 |
| TCV-4-State at Well 4 | 2,565.00 | 12.0 | Closed | 0.00 | 2,778.86 | 2,786.00 | 0.00 | |
| PSV-Gladestone | 2,572.00 | 6.0 | Inactive | 394.87 | 2,772.05 | 2,772.05 | 0.00 | 62.83 |
| PSV-2 | 2,567.00 | 10.0 | Inactive | 359.73 | 2,784.99 | 2,784.99 | 0.00 | 65.00 |