

**District 17 Pressure Zone 1924
Reservoir and Transmission Water Line
DRAFT FEASIBILITY STUDY**



PREPARED BY



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**COUNTY OF VENTURA
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JANUARY 22, 2020

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Signature Page

DRAFT

This document is released for review under the authority of Reaz Ahmed, P.E. No. CH 6674, on January 22, 2020.

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Version History

VERSION DATE	REVISION NUMBER	BY	APPROVED	STATUS / COMMENTS
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ABBREVIATIONS AND ACRONYMS

AECOM	AECOM Technical Services, Inc.
Calleguas	Calleguas Municipal Water District
County	County of Ventura
DEM	Digital Elevation Model
District	Ventura County Waterworks District 17
gpm	Gallons per Minute
MDD	Maximum Day Demand
MG	Million Gallon
NE	Northeast
NED	National Elevation Dataset
NW	Northwest
PRV	Pressure Reducing Valve
tif	Tagged Image Format
tin	Triangulated Irregular Network
USGS	United States Geological Survey

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EXECUTIVE SUMMARY

AECOM Technical Services, Inc. (AECOM) prepared this draft feasibility study for construction of a new 1.7 million gallon (MG) reservoir in the Bell Canyon area of Ventura County, California. Four potential reservoir sites were evaluated based on cost and non-cost factors (hydraulic benefit, constructability, structural and geotechnical issues, and environmental and jurisdictional permitting). All reservoir sites are located within an existing property owned by Boeing.

Hydraulic modeling was conducted for the reservoir sites, and preliminary alignments were developed for the associated pipelines and access roads based on Bing™ Maps aerials. It is noted that as of the date of this draft report, a site visit needs to be scheduled by the County of Ventura (County) to confirm any constructability issues with the proposed sites. Also, input is required from the County's consultants for the geotechnical/geological evaluation and environmental and jurisdictional permitting evaluation for the sites.

The four potential reservoir sites include:

- Site 1 – The location is near the existing tanks. The estimated construction cost (\$3.9 million) is lowest, but the site has the lowest hydraulic benefit.
- Site 2 – This site provides the best hydraulic benefit and has the second lowest estimated construction cost (\$7.8 million).
- Site 3 – This site has less hydraulic benefit than site 2 but has a higher construction cost (\$10.3 million).
- Site 4- This site has less hydraulic benefit than site 2 but has the highest estimated construction cost (\$10.9 million).

AECOM recommends proceeding with 30% design for site 2, pending a site walk and geotechnical/geological and permitting input.

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1 INTRODUCTION

The Ventura County Waterworks District 17 (District) is planning to construct a new 1.7 MG reservoir and pipeline in the Bell Canyon area. This is based on the recommendation included in the Bell Canyon Area Water System Master Plan and Computer Model (2010 Master Plan, Penfield & Smith, July 2010).

The 2010 Master Plan recommended that the District maintain storage of 1.2 times the current Maximum Day Demand (MDD) at final buildout, plus a minimum required fire flow of 1,000 gallons per minute (gpm) for 2 hours. This equated to a total storage requirement of 4.7 MG. Bell Canyon has two existing reservoirs, one 1.0 MG (constructed in 1970) and the other 2.0 MG (constructed in 1989). Considering the existing 3.0 MG of storage, an additional 1.7 MG of storage was required. The 2010 Master Plan recommended that the new 1.7 MG water reservoir be installed in the Bell Canyon 1924 pressure zone.

The existing 1.0 MG and 2.0 MG reservoirs are installed adjacent to each other and are also located in the 1924 pressure zone. The base elevation of each tank is approximately 1,890 feet, and the maximum fill elevation is approximately 1,924 feet. There is concern that by having both reservoirs adjacently located, the reliability of services could be jeopardized if the pipelines and appurtenances into or out of these reservoirs are damaged or taken out of service. Therefore, it is important to evaluate alternative sites for the additional storage reservoir.

The Bell Canyon service area is supplied by a single pipeline from Calleguas Municipal Water District (Calleguas). There is a concern that a single source of water supply may experience a loss of service due to either pump station failure, a pipeline leak, or other issues causing a loss of Calleguas service.

The existing District distribution system is organized into nine independent pressure zones which are served by eight pressure reducing valve (PRV) stations. The system is vulnerable to a loss of service should any of the pipelines or PRVs suffer mechanical damage or leakage. By providing an additional source of supply and/or additional storage, the vulnerability of possible mechanical failures will be minimized.

AECOM was contracted by the County of Ventura (County) to prepare a feasibility study for evaluation of alternative reservoir sites, and to prepare 30% design documents for the selected site that will be used by the County to complete permitting for the project. This feasibility study documents AECOM's evaluation of alternatives for siting the 1.7 MG water reservoir. The feasibility study evaluates cost and non-cost factors (hydraulic benefit, constructability, structural and geotechnical issues, and environmental and jurisdictional permitting) and provides a recommended site.

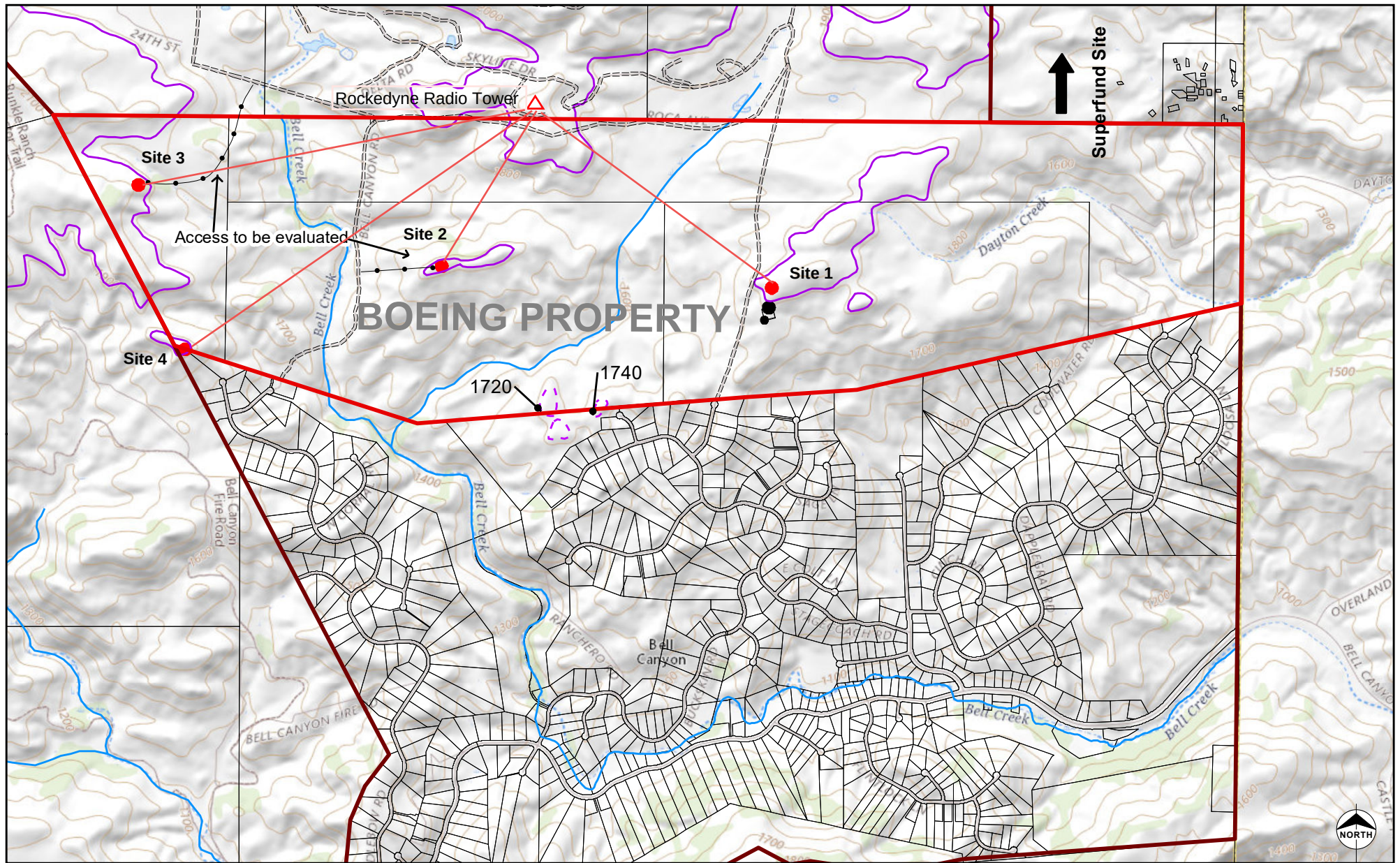
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2 POTENTIAL RESERVOIR SITES

On December 18, 2019, AECOM reviewed four possible sites with the County for the installation of the 1.7 MG reservoir. All four potential sites are within the Boeing property. No sites were available outside the Boeing property to install a reservoir to serve the 1924 pressure zone without a booster pump station. It was agreed that a booster pump station will not be used to supply water to the distribution network. Also, the reservoir will be constructed of steel, supplied from a high-pressure supply pipeline. The distribution of water from the reservoir to the network will be by gravity.

The four potential reservoir sites evaluated are shown in Figure 1, and all sites are within the 1920-foot contour.

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Legend

— Boeing Property Boundary

----- Roads

- - - - - Additional Topographic High Contours

Tanks

■ Existing

■ Proposed

— 1920' msl Contour

— Area Perimeter

□ Parcel

— River

0 2,000 4,000 ft

COUNTY OF VENTURA
DISTRICT 17 BELL CANYON RESERVOIR

Existing and Proposed
Tank Locations

Date: 1/15/2020

AECOM

Figure 1

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3 HYDRAULIC ANALYSIS

AECOM performed a hydraulic analysis and prepared a new model for the Bell Canyon potable water system using Bentley WaterCAD Connect Edition. The previous model developed by Penfield & Smith for the 2010 Master Plan was not available, but the report included documentation that was used to develop the new model. Distribution lines were laid out in accordance with previous hydraulic studies and the current piping plan provided by the District. All hydrants were added assuming 4-inch laterals and a meter was assigned to each house lot. MDD flow was assumed to be 3.33 gpm per connection as used in the previous 2010 Master Plan, as well as a minimum fire flow per hydrant of 1,000 gpm. Documentation from the 2010 model was also used for information regarding PRV initial configurations and settings.

General study area topography was obtained from U.S. Geological Survey (USGS) National Elevation Dataset (NED) 1/3 arc-second contour 1x1 degree digital elevation model (DEM) in the format of Tagged Image Format (tif) image files which were then converted into a AutoCAD Civil3D Triangulated Irregular Network (tin) file for final export to a .dxf contour file which can be used in WaterCAD along with other .dxf modeling layers such as parcel boundaries, existing pressure zone areas, and existing system maps. The DEM is only accurate to a 3-meter (10ft±) grid but is sufficient to site general locations along with determining approximate elevations of the existing hydrants, junctions, service lines, pressure reducing stations, and proposed reservoir locations.

Multiple scenarios were modeled in accordance with the alternatives being evaluated. In general, the additional scenarios included providing a new reservoir without a new source water pipe (float), discontinuing the use of the existing 10-inch steel pipe crossing Bell Creek and/or providing a replacement for this pipe. A summary of the modeling results is presented below.

Existing System

Evaluation of the existing system with the two existing reservoirs indicates twenty-five (25) fire hydrants as deficient with less than 1,000 gpm (588 gpm minimum) during Fire flow + MDD. This was found predominately in pressure zones 1550 and 1407, with some fire hydrants at the service area fringes (Northwest, NW, and Northeast, NE corners).

Reservoir Size

The hydraulic model confirmed the required new reservoir size of 1.7 MG. The required tank size to provide this minimum usable volume will be confirmed during the 30% design. Section 5 includes an estimated tank size that was used for the feasibility study cost estimates.

Pipe Size

The hydraulic model confirmed that 12-inch supply and distribution piping is required for each potential reservoir location.

Reservoir Site 1 Near Existing Reservoirs

Site 1 only provides additional storage but does not improve areas experiencing fire flow deficiencies nor does it provide a secondary source of water to the entire system.

This site relies on the existing 10-inch steel pipeline crossing Bell Creek. The existing pipeline has experienced corrosion and multiple breaks. This entire pipeline could be replaced as part of this project or another project, or at a minimum, the crossing of Bell Creek could be replaced. Cathodic protection should be considered for any new pipelines.

Reservoir Site 2

Site 2 would transfer 40% of the total demand to the new reservoir with levels typically fluctuating ± 1 ft between the three total reservoirs. This site also provides additional storage and provides an independent secondary source of water (the new reservoir can service the entire system alone). It also provides sufficient flow to the furthest NW Hydrant in zone 1924 but not to the other areas currently experiencing fire flow deficiencies to the NE corners as mentioned in the existing system analysis.

This site relies on the existing 10-inch steel pipeline crossing Bell Creek. As stated previously, the existing pipeline has experienced corrosion and multiple breaks, and could be replaced as part of this project or another project. At a minimum, the crossing of Bell Creek could be replaced and provided with future lifespan enhancing features such as cathodic protection.

Reservoir Site 3

Site 3 would transfer 36% of the total demand to the new reservoir with levels typically fluctuating ± 1 ft between the three total reservoirs. This site also provides additional storage and can provide an independent secondary source of water. It also provides sufficient flow to the furthest NW Hydrant in zone 1924 but not to the NE areas currently experiencing fire flow deficiencies as mentioned in the existing system analysis.

Removal of the existing 10-inch steel pipeline is feasible for this site but would result in a system that is not redundant and cannot be serviced by the proposed reservoir alone. Similar to reservoir sites 1 and 2, all or a portion of the existing 10-inch steel pipeline crossing Bell Creek could be replaced along the same alignment. As an alternative to replacing the existing 10-inch steel pipeline along the same alignment, and in order to service areas abandoned by the existing pipeline if it is removed and not replaced in the same location, a new 3-mile high pressure pipe would have to be run back to zone 1924 upstream of the Rancho PR Station.

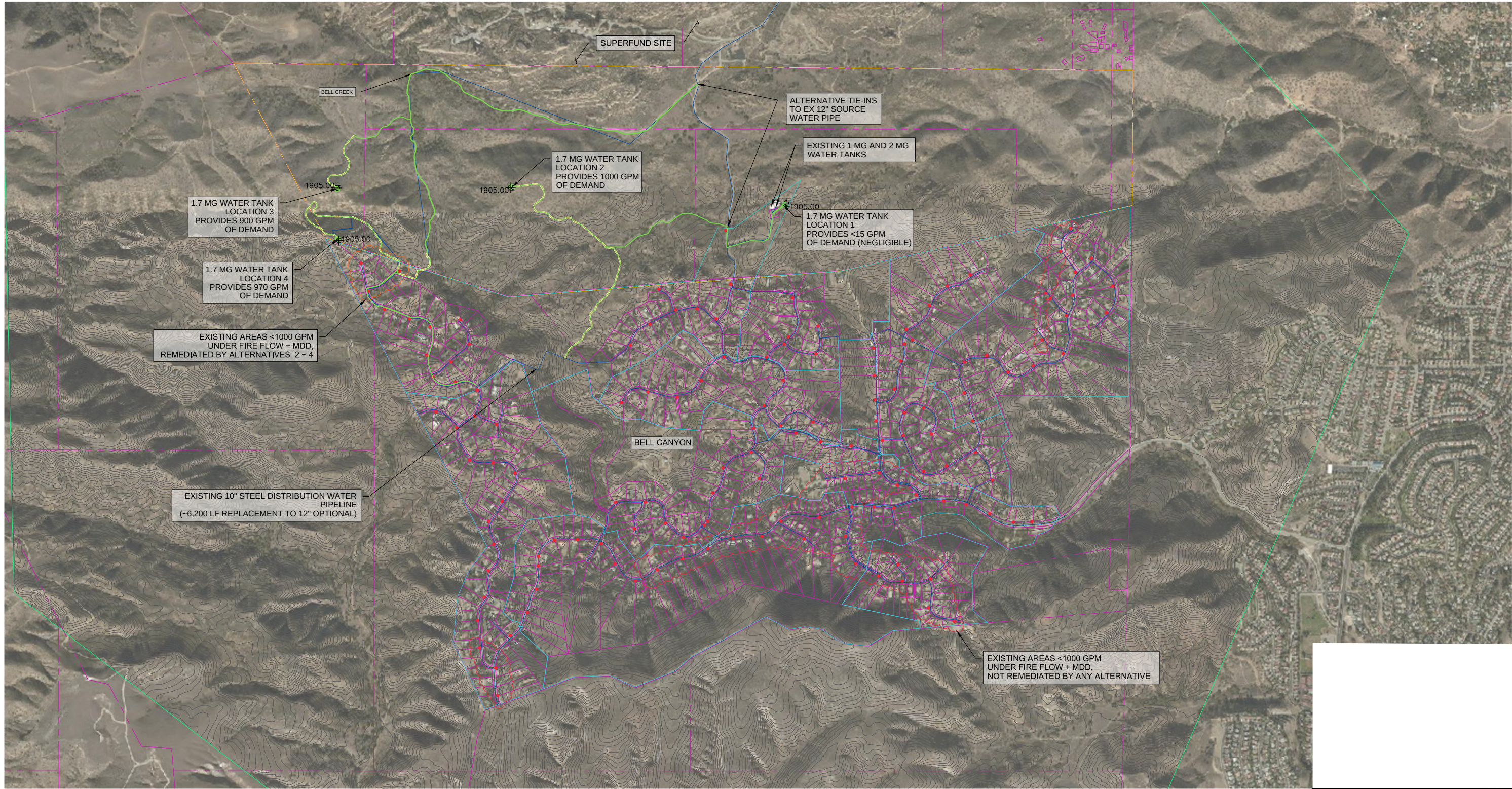
Reservoir Site 4

Site 4 has similar benefits to site 3, but it transfers 39% of the total demand to the new reservoir.

Use of site 4 is reliant upon the same conditions regarding the existing 10-inch steel pipeline crossing Bell Canyon as site 3.

Preliminary design model results are shown in Figure 2. Model output is included in Appendix A.

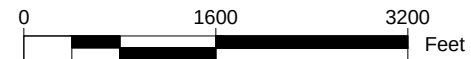
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LEGEND:

- BOEING PROPERTY BOUNDARY
- PARCEL BOUNDARY
- EXISTING WATER LINE
- EXISTING HYDRANT
- EXISTING PRESSURE ZONE BOUNDARY
- 25-FT CONTOUR
- PROPOSED TANK
- PROPOSED WATER LINE
- PROPOSED ACCESS ROAD

**PRELIMINARY DESIGN MODEL RESULTS
NEW RESERVOIR ALTERNATIVES AND SUPPLY LINES FEEDING
EXISTING SYSTEM**



AECOM		1220 AVENIDA ACASO CAMARILLO, CA 92401
VENTURA COUNTY WATER WORKS, DISTRICT 17		
PRELIMINARY DESIGN ALTERNATIVES MODEL RESULTS RESERVOIR LOCATIONS AND PIPELINE ALIGNMENTS		
Proj. No.: 60616160	Date: January 2020	
Project: BELL CANYON RESERVOIR	FIGURE - 2	

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4 NON-COST EVALUATION OF POTENTIAL RESERVOIR SITES

A non-cost evaluation was completed for the four potential reservoir sites, based on site and pipeline layout, constructability, geotechnical/geological evaluation, and environmental and jurisdictional permitting.

Access Road and Pipeline Layouts

Access road and pipeline alignments were determined using Bing™ Maps and are discussed below. Table 1 summarizes the length of supply pipe to the reservoir, pipe connection to the distribution network, and access road length for the four potential sites. Figures 3 through 6 illustrate the proposed access road and pipeline alignment for reservoir locations 1 through 4, respectively.

- Site 1: The new reservoir will be located near the existing reservoirs. Approximate coordinates for the proposed reservoir are 1902383.8827 N and 6354076.3035 E. This location will require installation of 1,700 feet of 12-inch supply pipeline to the reservoir and approximately 200 feet of 12-inch pipeline to the distribution network. The supply pipeline would be constructed along an existing dirt road. The connection to the distribution network will be on an existing paved road.
- Site 2: Approximate coordinates for the proposed reservoir are 1902676.5138 N and 6349598.6783 E. This location will require installation of 5,100 feet of 12-inch supply pipeline to the reservoir and approximately 5,100 feet of 12-inch pipeline to the distribution network. Approximately 2,350 feet of the supply pipeline would be constructed on an existing dirt road and 2,750 feet would be installed cross country. The pipeline connecting to the distribution network will be installed cross country. Approximately 5,100 feet of new access road will be needed to service the pipelines. There will also be a minor stream crossing.
- Site 3: Approximate coordinates for the proposed reservoir are 1902643.1824 N and 6346715.1304 E. This location will require installation of 8,450 feet of 12-inch supply pipeline to the reservoir and approximately 9,300 feet of 12-inch pipeline to the distribution network. Approximately 7,200 feet of the supply pipeline would be constructed along an existing dirt road and 1,250 feet would be installed cross country. Approximately 2,100 feet of the pipeline connecting to the distribution network will be installed cross country, 3,500 feet along an existing dirt road, and 3,700 feet would be within an existing paved road. Approximately 2,100 feet of new access road will be needed to service the pipelines. There will also be a stream crossing.
- Site 4: Approximate coordinates for the proposed reservoir are 1901813.7118 N and 6346723.3105 E. This location will require installation of 11,500 feet of 12-inch supply pipeline to the reservoir and approximately 6,200 feet of 12-inch pipeline to the distribution network. Approximately 8,800 feet of the supply pipeline would be constructed along an existing dirt road and 2,700 feet will be installed cross country. Approximately

2,500 feet of the pipeline connecting to the distribution network will be installed cross country, and 3,700 feet will be installed within an existing paved road. Approximately 3,350 feet of new access road will be needed to service the pipelines. There will also be a stream crossing.

Table 1. Summary of Reservoir Installation Conditions

Site	Coordinates	Supply Pipe to Reservoir (feet)		Pipe Connection to Distribution Network (feet)			New Access Road (feet)	Stream Crossing
		Cross Country	Dirt Road	Cross Country	Dirt Road	Paved Road		
Site 1	1902383.8827 N 6354076.3035 E	N/A	1,700	N/A	N/A	200	N/A	N/A
Site 2	1902676.5138 N 6349598.6783 E	2,750	2,350	5,100	N/A	N/A	5,100	Minor
Site 3	1902643.1824 N 6346715.1304 E	1,250	7,200	2,100	3,500	3,700	2,100	Yes
Site 4	1901813.7118 N 6346723.3105 E	2,700	8,800	2,500	N/A	3,700	3,350	Yes

Notes:

1. Coordinates are in: California Zone V, US FT (or use HARN/CA.CA-VF)
2. Pipeline lengths provided are preliminary and will be refined with further design.

Constructability

This section will be completed after the site walkthrough is scheduled by the District.

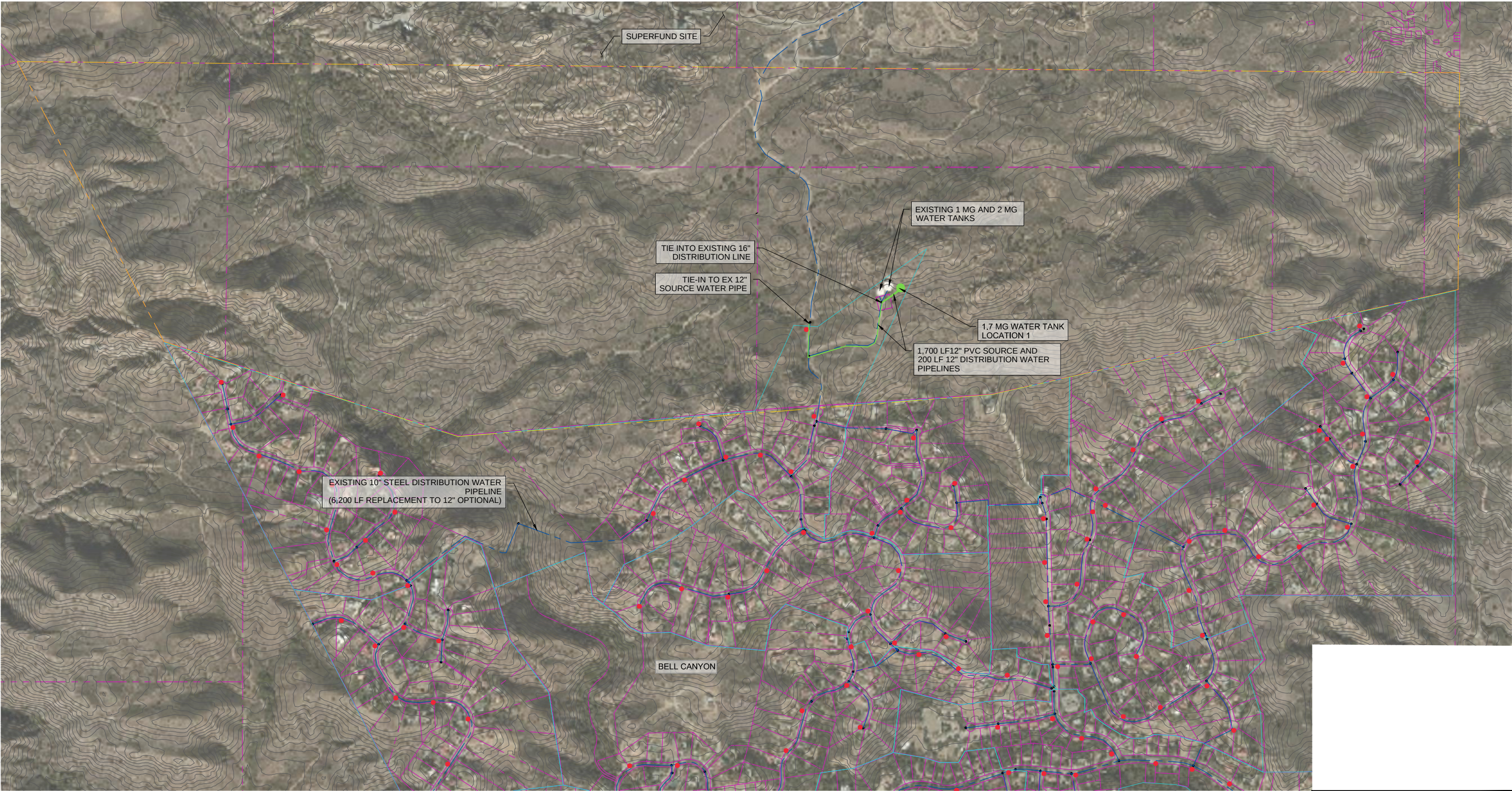
Geotechnical/Geological Evaluation

This section will be completed after receiving input by the County consultant.

Environmental and Jurisdictional Permitting

This section will be completed after receiving input by the County consultant.

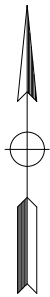
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LEGEND:

- BOEING PROPERTY BOUNDARY
- PARCEL BOUNDARY
- EXISTING WATER LINE
- EXISTING HYDRANT
- EXISTING PRESSURE ZONE BOUNDARY
- 25-FT CONTOUR
- PROPOSED TANK
- PROPOSED WATER LINE
- PROPOSED ACCESS ROAD

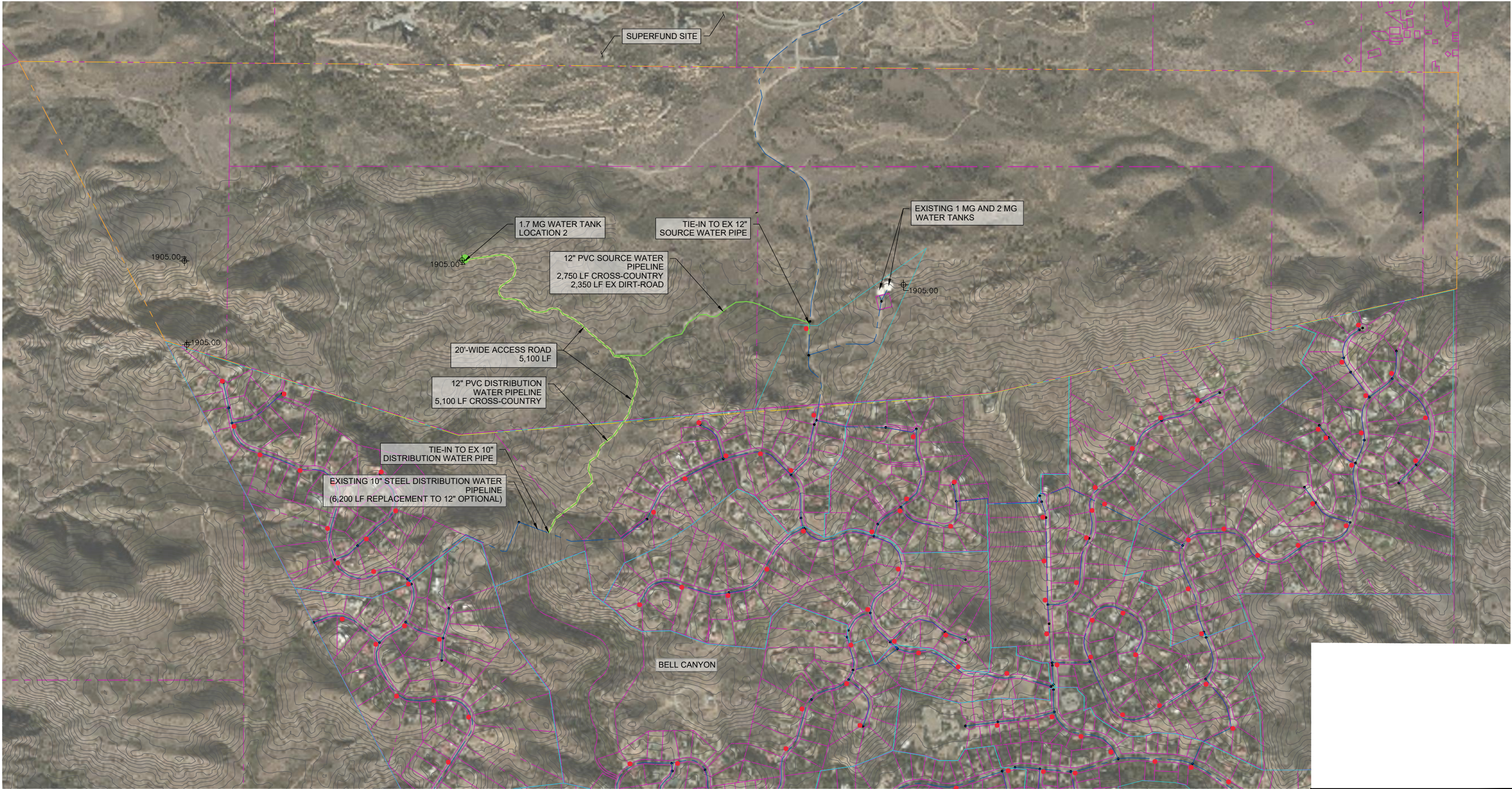
**PRELIMINARY DESIGN ALTERNATIVE 1
NEW TANK WITH INDEPENDENT SUPPLY LINE AT EXISTING TANK
LOCATION**



AECOM		1220 AVENIDA ACASO CAMARILLO, CA 92401
VENTURA COUNTY WATER WORKS, DISTRICT 17		
PRELIMINARY DESIGN ALTERNATIVE 1 RESERVOIR LOCATION AND PIPELINE ALIGNMENT		
Proj. No.: 60616160	Date: January 2020	
Project: BELL CANYON RESERVOIR	FIGURE - 3	

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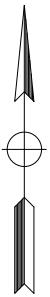
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LEGEND:

- BOEING PROPERTY BOUNDARY
- PARCEL BOUNDARY
- EXISTING WATER LINE
- EXISTING HYDRANT
- EXISTING PRESSURE ZONE BOUNDARY
- 25-FT CONTOUR
- PROPOSED TANK
- PROPOSED WATER LINE
- PROPOSED ACCESS ROAD

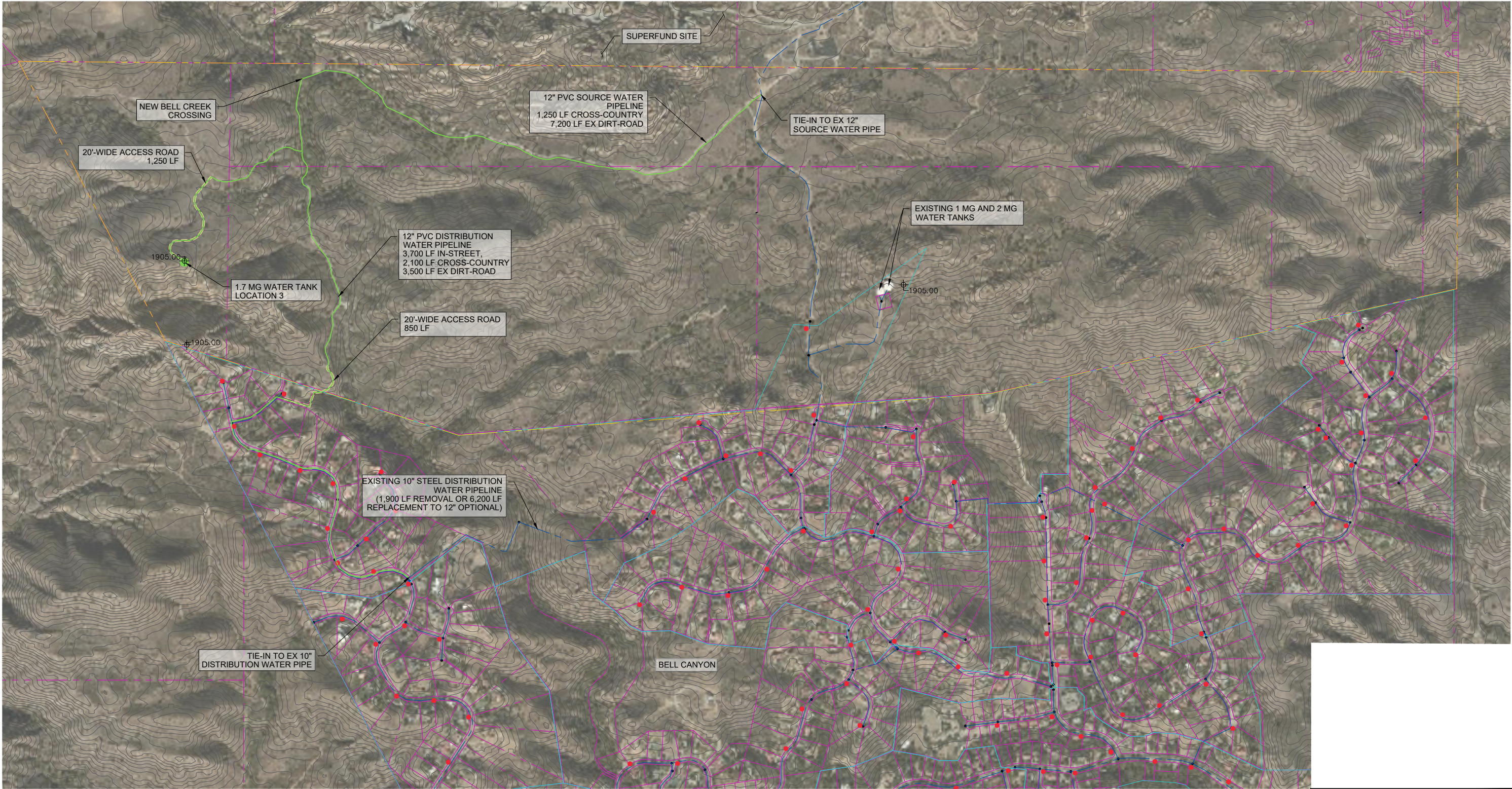
**PRELIMINARY DESIGN ALTERNATIVE 2
NEW RESERVOIR AND SUPPLY LINE FEEDING EXISTING
DISTRIBUTION LINE**



AECOM		1220 AVENIDA ACASO CAMARILLO, CA 92401
VENTURA COUNTY WATER WORKS, DISTRICT 17		
PRELIMINARY DESIGN ALTERNATIVE 2 RESERVOIR LOCATION AND PIPELINE ALIGNMENT		
Proj. No.: 60616160	Date: January 2020	
Project: BELL CANYON RESERVOIR	FIGURE - 4	

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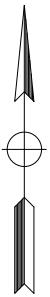
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LEGEND:

- BOEING PROPERTY BOUNDARY
- PARCEL BOUNDARY
- EXISTING WATER LINE
- EXISTING HYDRANT
- EXISTING PRESSURE ZONE BOUNDARY
- 25-FT CONTOUR
- PROPOSED TANK
- PROPOSED WATER LINE
- PROPOSED ACCESS ROAD

**PRELIMINARY DESIGN ALTERNATIVE 3
NEW RESERVOIR AND SUPPLY LINE FEEDING END OF EXISTING
DISTRIBUTION LINE**



AECOM 1220 AVENIDA ACASO CAMARILLO, CA 92401	
VENTURA COUNTY WATER WORKS, DISTRICT 17	
PRELIMINARY DESIGN ALTERNATIVE 3 RESERVOIR LOCATION AND PIPELINE ALIGNMENT	
Proj. No.: 60616160	Date: January 2020
Project: BELL CANYON RESERVOIR	FIGURE - 5

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5 COST EVALUATION OF POTENTIAL RESERVOIR SITES

A rough order-of-magnitude (ROM) construction cost estimate for installation of a 1.7 MG reservoir at four potential sites was prepared, as summarized in Table 2. Detailed cost estimates are included in Appendix B. The cost estimates include a 30% contingency. Engineering, legal, permitting, County administration, and construction administration costs are not included. Pipeline cost is based on installation of ductile iron pipe. The estimate is provided for site comparison purposes, and not all project costs are included. The estimate is performed without the benefit of a site visit and geotechnical/geological evaluation of the sites. The reservoir is estimated to be 120 feet in diameter with 32 feet of straight shell height to comply with the current California Seismic code, as shown in Figure 7. The required reservoir size will be confirmed during the 30% design. Tank design calculations provided by Hagen Engineering International on behalf of Pacific Tank and Construction Company, Inc., are included in Appendix C. Costs associated with pipeline crossing of streams is not included, and costs to replace the existing 10-inch steel pipeline are not included. Cost estimates should be updated after the site visit and evaluation by the geotechnical/geological consultant of the reservoir site and access roads.

Table 2. ROM Cost Summary

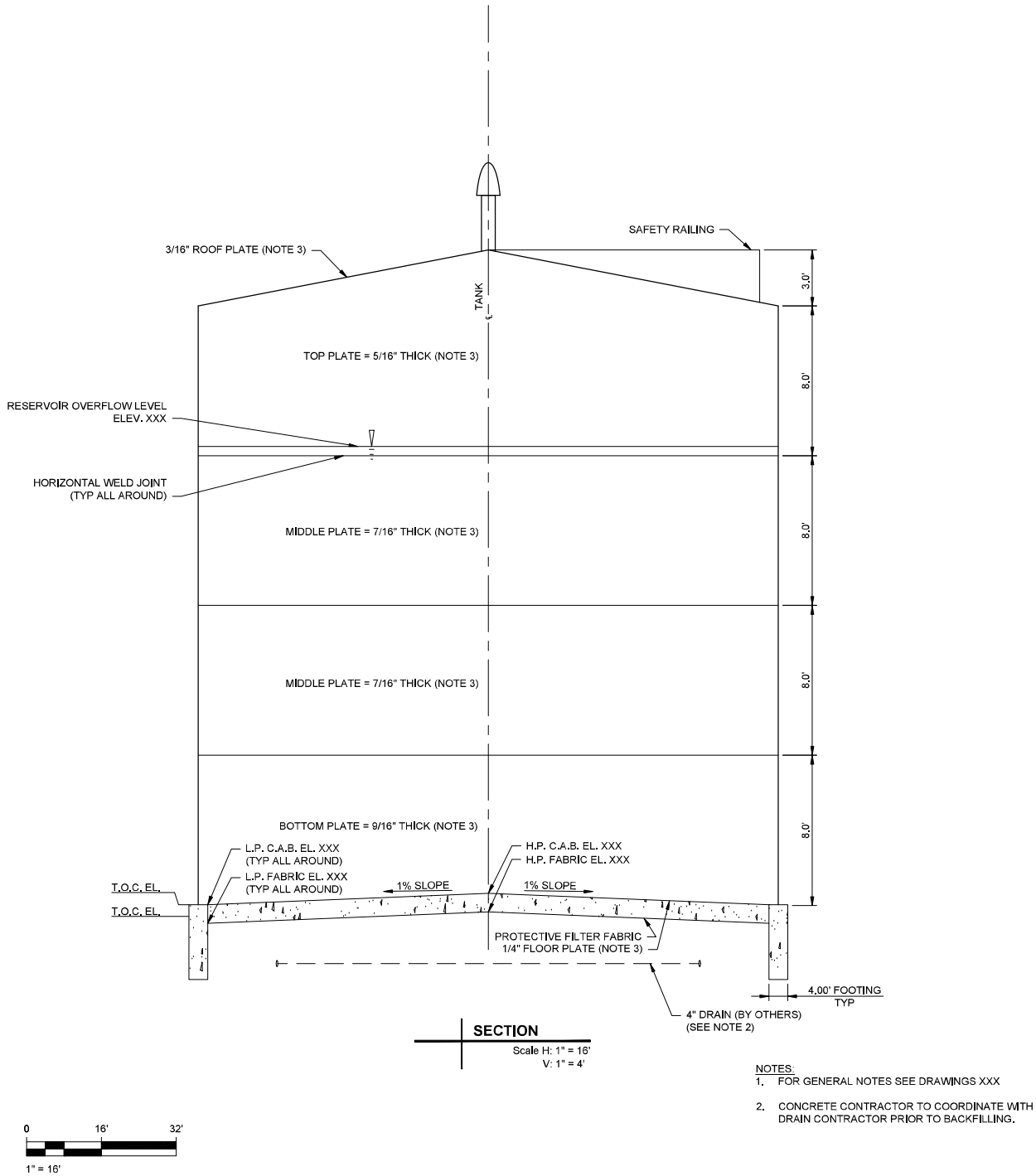
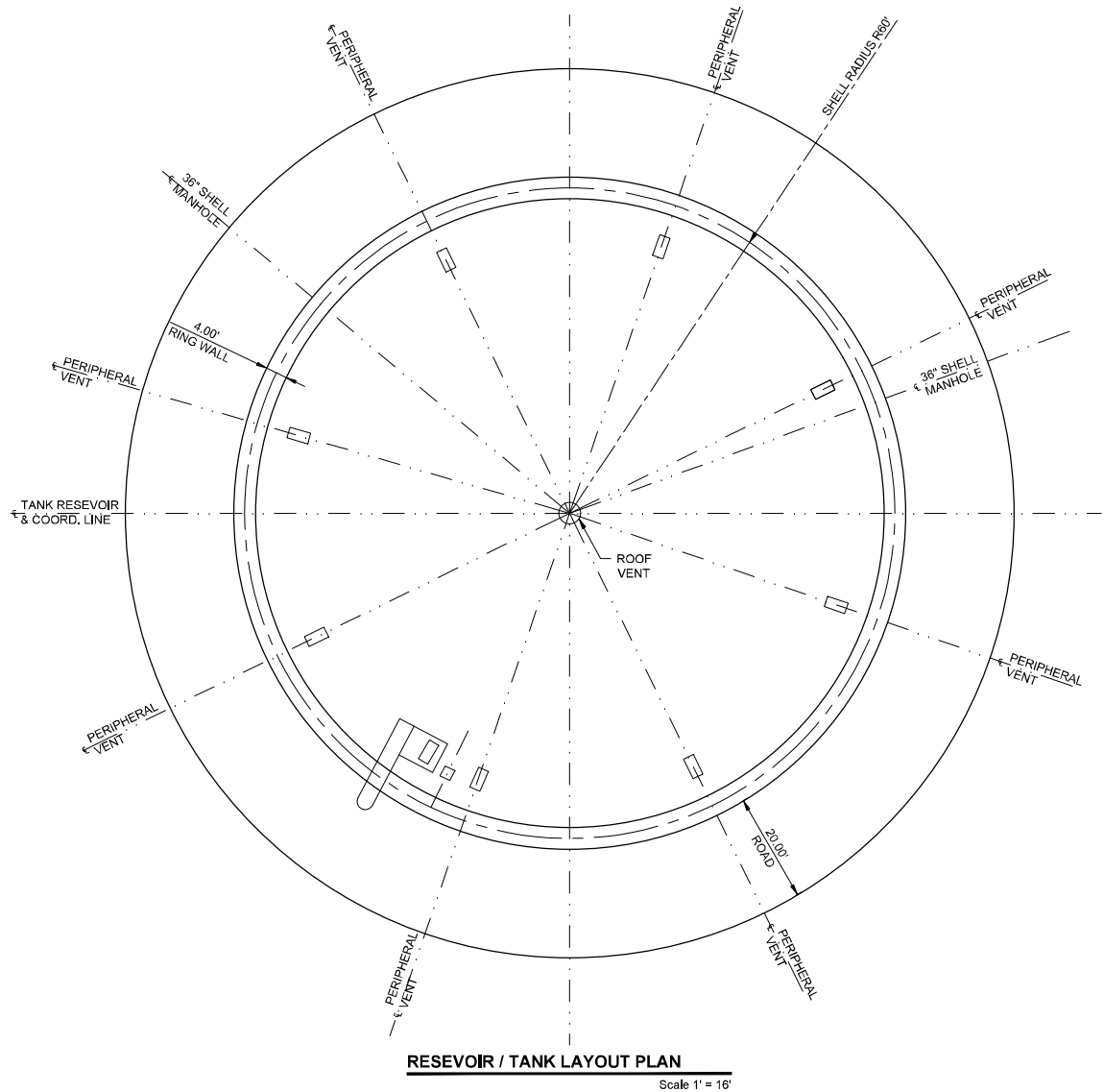
Cost Item	Site 1	Site 2	Site 3	Site 4
Steel Tank	\$1,723,000	\$1,723,000	\$1,723,000	\$1,723,000
Site grading, site drainage	\$163,000	\$163,000	\$163,000	\$163,000
Foundation	\$98,000	\$98,000	\$98,000	\$98,000
Site piping and accessories	\$325,000	\$325,000	\$325,000	\$325,000
New Access Road	\$31,000	\$1,220,000	\$950,000	\$1,470,000
Refurbishment of Existing dirt road	\$88,000	\$122,000	\$491,000	\$458,000
Supply pipe to Reservoir	\$409,000	\$1,191,000	\$2,016,000	\$2,730,000
Discharge Pipe from Reservoir to network	\$52,000	\$1,160,000	\$2,282,000	\$1,531,000
Solar Power-Cathodic Protection, Instrumentation, site security	\$149,000	\$149,000	\$149,000	\$149,000
Miscellaneous (fence, gate, bollards, erosion control)	\$66,000	\$66,000	\$66,000	\$66,000
Construction Cost Total	\$3,104,000	\$6,217,000	\$8,263,000	\$8,713,000
Contractor's P&OH, Bonds & Insurance, Division 1 costs @ 25% of Construction cost	\$775,000	\$1,554,000	\$2,065,000	\$2,177,000
TOTAL COST	\$3,879,000	\$7,771,000	\$10,328,000	\$10,890,000

Assumptions for cost estimates for the access roads:

- 1 Conceptual estimate based on 15% max vertical profile and utilizing USGS map data, limited area will have 20% max vertical profile to minimize earthwork. Roadway profile slope is preliminary and to be verify with geotechnical report findings and

recommendations

- 2 Cut sections assume a 1:1 slope in a rock through a rocky terrain
- 3 Fill sections assume a 2:1 slope
- 4 Excavation is assumed to be placed back as import borrow at 90% re-compaction and a 10% loss
- 5 Site 2 drainage feature includes, but is not limited to minor culvert crossings
- 6 Site 3 drainage feature includes, but is not limited to minor culvert crossings, new Bell Creek low-water crossings
- 7 Site 4 drainage feature includes, but is not limited to minor culvert crossings, new Bell Creek low-water crossings
- 8 Site 4 site condition is generally steep and resulted in excessive fill materials; retaining wall recommended to minimize fill heights
- 9 Alignment of Site 4 encroaches into property outside of Boeing
- 10 Fine grading assumes reconstruction of native dirt road with 6-inch over-excavation and 90% re-compaction
- 11 Re-grade existing dirt road to existing grade and maintain a 20 feet width



COUNTY OF VENTURA DISTRICT-17
BELL CANYON RESERVOIR

TANK PLAN AND SECTION

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6 ANALYSIS OF COSTS AND BENEFITS FOR EACH POTENTIAL RESERVOIR SITE

A comparison was made of the four potential reservoir sites, considering cost and non-cost factors. (Note: This section will be updated after completion of the site visit and receiving input from the County's consultants on geotechnical/geological conditions and environmental and jurisdictional permitting.)

Site 1: Installation of a new reservoir near the existing reservoirs is the least cost option at \$3.9 million. This option provides additional storage of 1.7 MG without much benefit to the hydraulic capacity of the system. This option relies on the existing 10-inch steel pipeline crossing the Bell Creek which is recommended to be replaced, as part of this project or another project.

Site 2: Installation of the reservoir at Site 2 would allow 40% of the total system demand served by the new reservoir and improve the system reliability. The cost of this option is \$7.8 million. The distribution pipe from the reservoir will be connected at the location of the 10-inch steel pipeline crossing Bell Creek. This option relies on the existing 10-inch steel pipe crossing Bell Creek which is reported to be in poor condition due to corrosion and leaks and is recommended to be replaced as part of this project or another project. This option provides sufficient flow to the furthest NW fire hydrant in zone 1924. However, the fire hydrants at the NE corner of 1550 and 1407 pressure zone will have an insufficient supply of water.

Site 3: This location would allow 36% of the total system demand to be served by the new reservoir. It provides additional storage and can provide an independent secondary source of water. The cost of this option is \$10.3 million. This option also provides sufficient flow to the furthest NW fire hydrant in zone 1924, but it does not supply enough water to the fire hydrants at the NE corner of 1550 and 1407 pressure zone. Removal of the existing 10-inch steel pipeline is feasible for this reservoir location. However, it would result in a system that is not redundant and cannot be serviced by the proposed reservoir alone. Similar to sites 1 and 2, all or a portion of the existing 10-inch steel pipeline crossing Bell Creek could be replaced along the same alignment as part of this project or another project. As an alternate to replacing the existing 10-inch steel pipeline along the same alignment, and in order to service areas abandoned by this pipeline, a new pipe about 16,000 feet in length will be required. This will drive the cost much higher from the current estimated cost of \$10.3 million.

Site 4: This location would allow 39% of the total system demand served by the new reservoir. It provides additional storage and can provide an independent secondary source of water. The cost of this option is \$10.9 million. This option also provides sufficient flow to furthest NW fire hydrant in zone 1924, but it does not supply enough water to the fire hydrants at the NE corner of 1550 and 1407 pressure zone. Removal of the existing 10-inch steel pipeline is feasible for this for this

reservoir location. However, it would result in a system that is not redundant and cannot be serviced by the proposed reservoir alone. Similar to sites 1 and 2, all or a portion of the existing 10-inch steel pipeline crossing Bell Creek could be replaced along the same alignment as part of this project or another project. As an alternate to replacing the existing 10-inch steel pipeline along the same alignment, and in order to service areas abandoned by this pipeline, a new pipe about 16,000 feet in length will be required. This will drive the cost up much higher from the current estimated cost of \$10.9 million.

7 CONCLUSIONS AND RECOMMENDATIONS

The construction costs for installation of a new 1.7 MG reservoir at sites 3 and 4 are higher than other options (\$10.3 million and \$10.9 million, respectively) without much benefit to the water system. Installation of the new tank near the existing tanks (site 1) has the least cost at \$3.9 million but would not improve the system reliability. Site 2 at a cost of \$7.8 million would provide the maximum benefit for the water system. The County may consider installation of the new reservoir at site 2 after verification of geotechnical/geological conditions and potential access road and pipeline conditions and alignments.

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8 STUDY LIMITATIONS

The findings, recommendations, and cost estimates described in this report are preliminary, and the following items should be noted:

- The access road and pipeline alignments were determined in Bing™ Maps. A field visit should be completed to review any constructability issues with any of the reservoir locations and pipeline and road alignments.
- The County consultants should provide input on the geotechnical/geological conditions at each site, and any environmental and jurisdictional permitting issues at each site. This information was not available for the draft report.
- Construction cost estimates provided are rough order-of-magnitude, and not all projects costs are included in the estimates. The cost estimates are provided for site comparison purposes and should be updated after completion of the site visit, and geotechnical/geological and permitting evaluations. A 30% contingency has been added to the cost estimates.

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9 REFERENCES

California Code of Regulations, 22 CCR §64554. New and Existing Source Capacity. 2019.

County of Ventura Public Works Agency. Waterworks Manual 2nd Edition – Minimum Standards for Water Systems. September 2014.

Penfield & Smith. Bell Canyon Area – Water System Master Plan and Computer Model. July 2010.

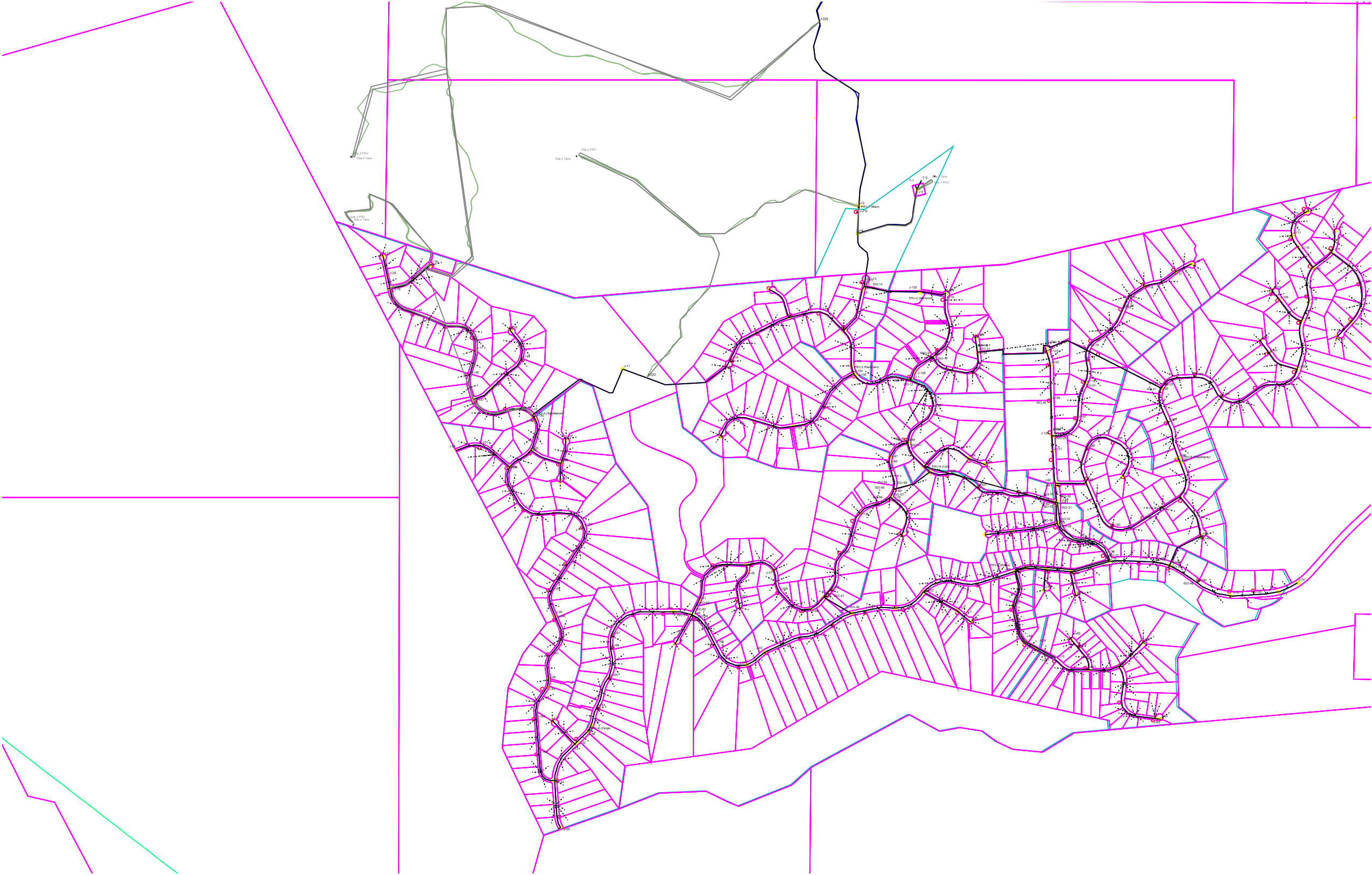
Public Utilities Commission of the State of California. Rules Governing Water Service, Including Minimum Standards for Operation, Maintenance, Design, and Construction. September 2009.

Weston Solutions. Preliminary Assessment/Site Inspection Report – Santa Susana Field Laboratory, Simi Valley, California. Prepared for U.S. EPA Region 9. November 2007.

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Appendix A – Hydraulic Model Output

Scenario: Existing Conditions



Hydraulic Model Inventory: Bell Canyon System - Existing with Meters.wtg

Title	
Engineer	
Company	
Date	12/2/2019
Notes	

Scenario Summary	
ID	1757
Label	Existing Conditions
Notes	
Active Topology	<I> Base Active Topology
Physical	<I> Base Physical
Demand	<I> MDD Demand
Initial Settings	<I> Base Initial Settings
Operational	<I> Base Operational
Age	<I> Base Age
Constituent	<I> Base Constituent
Trace	<I> Base Trace
Fire Flow	<I> Base Fire Flow
Energy Cost	<I> Base Energy Cost
Transient	<I> Base Transient
Pressure Dependent Demand	<I> Base Pressure Dependent Demand
Failure History	<I> Base Failure History
SCADA	<I> Base SCADA
User Data Extensions	<I> Base User Data Extensions
Steady State/EPS Solver Calculation Options	Fire Flow
Transient Solver Calculation Options	<I> Base Calculation Options

Network Inventory			
Pipes	379	Pumps	0
Laterals	0	Pump Stations	0
Junctions	217	Variable Speed Pump	0
		Batteries	
Hydrants	145	PRV's	8
Tanks	2	PSV's	0
-Circular	2	PBV's	0
-Non-Circular	0	FCV's	0
-Variable Area	0	TCV's	0
Reservoirs	1	GPV's	0
Customer Meters	761	Isolation Valves	51
Taps	0	Spot Elevations	0
SCADA Elements	0		

Transient Network Inventory			
Turbines	0	Rupture Disks	0
Periodic Head-Flows	0	Discharges to Atmosphere	0
Air Valves	0	Orifices Between Pipes	0
Hydropneumatic Tanks	0	Valves With Linear Area Change	0
Surge Valves	0	Surge Tanks	0
Check Valves	0		

Pressure Pipes Inventory			
4.0 (in)	9,043 ft	12.0 (in)	11,382 ft
6.0 (in)	15,630 ft	16.0 (in)	1,465 ft
8.0 (in)	46,949 ft	All Diameters	106,054 ft
10.0 (in)	21,584 ft		

FlexTable: Tank Table										
ID	Label	Zone	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Volume (Inactive) (MG)	Diameter (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)
40	T-1	1924	1,890.00	1,890.00	1,924.00	1,924.00	0.00	70.66	40	1,924.00
41	T-2	1924	1,890.00	1,890.00	1,924.00	1,924.00	0.00	100.00	26	1,924.00
1750	Site 1 Tank	1924	1,890.00	1,890.00	1,924.00	1,924.00	0.00	94.00	(N/A)	(N/A)
1765	Site 2 Tank	1924	1,890.00	1,890.00	1,924.00	1,924.00	0.00	94.00	(N/A)	(N/A)
1766	Site 3 Tank	1924	1,890.00	1,890.00	1,924.00	1,924.00	0.00	94.00	(N/A)	(N/A)
1792	Site 4 Tank	1924	1,890.00	1,890.00	1,924.00	1,924.00	0.00	94.00	(N/A)	(N/A)

FlexTable: PRV Table											
ID	Label	Zone	Elevation (ft)	Diameter (Valve) (in)	Minor Loss Coefficient (Local)	Hydraulic Grade Setting (Initial) (ft)	Pressure Setting (Initial) (psi)	Flow (gpm)	Hydraulic Grade (From) (ft)	Hydraulic Grade (To) (ft)	Headloss (ft)
30	PRV-1 (Main)	1924	1,703.00	6.0	1.000	1,924.81	96	2,468	1,937.06	1,924.88	12.18
31	PRV-2 (Marlboro)	1712 W	1,560.00	6.0	1.000	1,712.49	66	703	1,899.43	1,712.60	186.83
32	PRV-3 (Ranchero)	1722	1,605.00	6.0	1.000	1,722.00	51	593	1,888.51	1,722.08	166.43
33	PRV-4 (Saddlebow)	1677	1,540.00	6.0	1.000	1,677.00	59	946	1,859.34	1,677.10	182.25
34	PRV-5 (Colt)	1470	1,367.00	6.0	1.000	1,470.00	45	253	1,713.04	1,470.07	242.96
35	PRV-6 (Dapplegray)	1454	1,350.00	6.0	1.000	1,454.00	45	300	1,700.30	1,454.07	246.22
36	PRV-7 (Bridle)	1347	1,095.00	6.0	1.000	1,347.00	109	226	1,376.39	1,347.18	29.21
37	PRV-8 (Zanja)	1407	1,350.00	6.0	1.000	1,407.00	25	646	1,636.00	1,407.04	228.95
1797	Site 1 PRV	1924 Main	1,890.00	6.0	1.000	1,923.50	15	(N/A)	(N/A)	(N/A)	(N/A)
1767	Site 2 PRV	1924 Main	1,890.00	6.0	0.500	1,923.50	15	(N/A)	(N/A)	(N/A)	(N/A)
1768	Site 3 PRV	1924 Main	1,890.00	6.0	1.000	1,923.50	15	(N/A)	(N/A)	(N/A)	(N/A)
1793	Site 4 PRV	1924	1,890.00	6.0	1.000	1,923.50	15	(N/A)	(N/A)	(N/A)	(N/A)

FlexTable: Pipe Table														
ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1751	Site 1 Pipe	Site 1 Tank	J-3	False	12.0	Ductile Iron	130.0	False	(N/A)	(N/A)	1924	221	(N/A)	(N/A)
1769	Site 2 Feed Pipe	Site 2 PRV	Site 2 Tank	False	12.0	Ductile Iron	130.0	True	(N/A)	(N/A)	1924	40	(N/A)	(N/A)
1770	Site 3 Source Pipe	J-225	Site 3 PRV	False	12.0	Ductile Iron	130.0	False	(N/A)	(N/A)	1924 Main	7,945	(N/A)	(N/A)
1771	Site 3 Inlet Pipe	Site 3 PRV	Site 3 Tank	False	12.0	Ductile Iron	130.0	True	(N/A)	(N/A)	1924	29	(N/A)	(N/A)
1772	Site 3 Distribution Pipe	Site 3 Tank	J-12	False	12.0	Ductile Iron	130.0	False	(N/A)	(N/A)	1924	7,544	(N/A)	(N/A)
1774	Site 2 Source Pipe	J-2	Site 2 PRV	False	12.0	Ductile Iron	130.0	False	(N/A)	(N/A)	1924 Main	4,056	(N/A)	(N/A)
1776	Site 2 Distribution Pipe	Site 2 Tank	J-222	False	12.0	Ductile Iron	130.0	False	(N/A)	(N/A)	1924	4,134	(N/A)	(N/A)
1794	Site 4 Source Pipe	J-225	Site 4 PRV	False	12.0	Steel	140.0	False	(N/A)	(N/A)	1924 Main	11,093	(N/A)	(N/A)
1795	Site 4 Inlet Pipe	Site 4 PRV	Site 4 Tank	False	12.0	Steel	140.0	True	(N/A)	(N/A)	1924	64	(N/A)	(N/A)
1796	Site 4 Distribution Pipe	Site 4 Tank	J-12	False	12.0	Steel	140.0	False	(N/A)	(N/A)	1924	5,564	(N/A)	(N/A)
1798	Site 1 Source Pipe	J-2	Site 1 PRV	False	12.0	Steel	140.0	False	(N/A)	(N/A)	1924 Main	1,717	(N/A)	(N/A)
1799	Site 1 Inlet Pipe	Site 1 PRV	Site 1 Tank	False	12.0	Steel	140.0	True	(N/A)	(N/A)	1924	35	(N/A)	(N/A)
1829	P-87(1)(2)	J-227	J-175	False	8.0	Asbestos Cement	140.0	False	(N/A)	(N/A)	1550	40	(N/A)	(N/A)
438	P-187	R-2	J-139	True	12.0	Steel	140.0	False	2,489	7.06	1924 Main	237	0	96
227	P-9	T-2	J-3	True	12.0	Asbestos Cement	140.0	False	26	0.08	1924	130	14	15
226	P-8	J-3	T-1	True	12.0	Asbestos Cement	140.0	False	-40	0.11	1924	61	15	14
269	P-51	PRV-8 (Zanja)	J-37	True	8.0	Asbestos Cement	140.0	False	646	4.12	1407	38	25	25
1463	P-52(1)	J-37	J-164	True	8.0	Asbestos Cement	140.0	False	639	4.08	1407	232	25	31
1467	P-52(2)(1)	J-164	J-165	True	8.0	Asbestos Cement	140.0	False	626	4.00	1407	418	31	42
1465	P-211	H-51	J-164	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	29	31	31
396	P-177	J-86	J-87	True	6.0	Asbestos Cement	140.0	False	0	0.00	1722	70	38	35
397	P-178	J-86	H-17	True	4.0	Ductile Iron	140.0	False	0	0.00	1470	33	38	38
372	P-153	J-123	J-124	True	4.0	Asbestos Cement	140.0	False	0	0.00	1454	64	41	41
1590	P-255	H-137	J-101	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	21	42	44
1471	P-52(2)(2)(1)	J-165	J-166	True	8.0	Asbestos Cement	140.0	False	606	3.87	1407	381	42	53
262	P-44	J-35	H-7	True	4.0	Ductile Iron	140.0	False	0	0.00	1677	29	44	46
325	P-107	J-84	J-80	True	8.0	Asbestos Cement	140.0	False	203	1.30	1470	516	44	59
1638	P-108(1)(1)(1)	J-84	J-202	True	8.0	Asbestos Cement	140.0	False	47	0.30	1470	222	44	57
346	P-128	J-101	J-102	True	4.0	Asbestos Cement	140.0	False	10	0.26	1712 E	196	44	31
1469	P-212	H-52	J-165	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	25	45	42
403	P-184	PRV-5 (Colt)	J-84	True	8.0	Asbestos Cement	140.0	False	253	1.62	1470	19	45	44
340	P-122	J-97	J-95	True	8.0	Asbestos Cement	140.0	False	290	1.85	1454	460	45	72
341	P-123	PRV-6 (Dapplegray)	J-97	True	8.0	Asbestos Cement	140.0	False	300	1.91	1454	37	45	45
370	P-151	J-122	J-123	True	4.0	Asbestos Cement	140.0	False	0	0.00	1454	169	47	41
1666	P-285	J-122	H-147	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	31	47	48
359	P-140	J-112	H-23	True	4.0	Ductile Iron	140.0	False	0	0.00	1712 E	32	49	46
360	P-141	J-112	J-113	True	8.0	Asbestos Cement	140.0	False	7	0.04	1712 E	39	49	51
384	P-165	J-134	J-135	True	8.0	Asbestos Cement	140.0	False	506	3.23	1722	23	50	51
1711	P-163(1)	J-134	J-217	True	8.0	Asbestos Cement	140.0	False	80	0.51	1722	591	50	70
1640	P-273	H-99	J-202	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	14	50	57
385	P-166	J-135	J-1	True	8.0	Asbestos Cement	140.0	False	493	3.15	1722	769	51	85
381	P-162	PRV-3 (Ranchero)	J-134	True	8.0	Asbestos Cement	140.0	False	593	3.78	1722	28	51	50
1714	P-302	H-108	J-135	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	11	51	51
1475	P-52(2)(2)(2)(1)	J-166	J-167	True	8.0	Asbestos Cement	140.0	False	599	3.83	1407	160	53	57
1477	P-214	H-54	J-167	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	30	54	57
1454	P-42(1)	J-30	J-162	True	8.0	Asbestos Cement	140.0	False	736	4.70	1677	451	54	61
1473	P-213	H-53	J-166	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	32	54	53
1408	P-196	H-145	J-150	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	21	55	57
357	P-138	J-111	H-24	True	4.0	Ductile Iron	140.0	False	0	0.00	1712 E	30	55	56
358	P-139	J-111	J-112	True	8.0	Asbestos Cement	140.0	False	13	0.09	1712 E	362	55	49
1456	P-208	H-48	J-162	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	23	56	61
250	P-32	J-13	J-24	True	10.0	Asbestos Cement	140.0	False	939	3.84	1677	410	56	69
1416	P-198	H-39	J-152	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	15	57	57
252	P-34	J-23	J-22	True	4.0	Asbestos Cement	140.0	False	13	0.34	1677	315	57	44
253	P-35	J-23	J-27	True	4.0	Asbestos Cement	140.0	False	7	0.17	1677	230	57	50
1407	P-31(2)	J-150	J-13	True	10.0	Asbestos Cement	140.0	False	946	3.86	1677	12	57	56
1479	P-52(2)(2)(2)(2)(1)	J-167	J-168	True	8.0	Asbestos Cement	140.0	False	586	3.74	1407	407	57	68

ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1415	P-33(2)	J-152	J-23	True	6.0	Asbestos Cement	140.0	False	30	0.34	1677	27	57	57
1639	P-108(1)(1)(2)	J-202	J-201	True	8.0	Asbestos Cement	140.0	False	40	0.26	1470	448	57	84
1481	P-215	H-55	J-168	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	19	58	68
1406	P-31(1)	PRV-4 (Saddlebow)	J-150	True	10.0	Asbestos Cement	140.0	False	946	3.86	1677	31	59	57
324	P-106	J-80	J-79	True	8.0	Asbestos Cement	140.0	False	186	1.19	1470	109	59	67
398	P-179	J-80	J-86	True	6.0	Asbestos Cement	140.0	False	10	0.11	1470	348	59	38
377	P-158	J-117	H-22	True	4.0	Ductile Iron	140.0	False	0	0.00	1454	23	60	58
378	P-159	J-117	J-116	True	4.0	Asbestos Cement	140.0	False	10	0.26	1454	219	60	56
258	P-40	J-29	H-5	True	4.0	Ductile Iron	140.0	False	0	0.00	1677	26	60	58
259	P-41	J-29	J-30	True	8.0	Asbestos Cement	140.0	False	743	4.74	1677	89	60	54
1458	P-42(2)(1)	J-162	J-163	True	8.0	Asbestos Cement	140.0	False	723	4.61	1677	447	61	67
303	P-85	J-59	H-15	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	19	61	64
1828	P-87(1)(1)	J-59	J-227	True	8.0	Asbestos Cement	140.0	False	3	0.02	1550	244	61	45
1636	P-272	H-100	J-201	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	38	62	84
1460	P-209	H-49	J-163	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	24	63	67
1679	P-289	H-120	J-210	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	11	64	66
1677	P-169(1)(1)	J-129	J-210	True	10.0	Asbestos Cement	140.0	False	696	2.84	1712 W	86	64	66
1726	P-308	H-97	J-78	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	20	64	64
1713	P-301	H-107	J-217	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	23	66	70
391	P-172	PRV-2 (Marlboro)	J-129	True	10.0	Asbestos Cement	140.0	False	703	2.87	1712 W	48	66	64
1678	P-169(1)(2)	J-210	J-209	True	10.0	Asbestos Cement	140.0	False	683	2.79	1712 W	708	66	88
1452	P-207	H-47	J-161	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	21	67	67
1451	P-39(2)(2)	J-161	J-29	True	8.0	Asbestos Cement	140.0	False	749	4.78	1677	309	67	60
296	P-78	J-79	J-136	True	8.0	Asbestos Cement	140.0	False	157	1.00	1470	445	67	92
297	P-79	J-79	J-78	True	6.0	Asbestos Cement	140.0	False	20	0.23	1470	576	67	64
1459	P-42(2)(2)	J-163	J-34	True	8.0	Asbestos Cement	140.0	False	709	4.53	1677	450	67	74
1480	P-52(2)(2)(2)(2)(2)	J-168	J-38	True	8.0	Asbestos Cement	140.0	False	566	3.61	1407	516	68	82
1410	P-36(1)	J-24	J-151	True	10.0	Asbestos Cement	140.0	False	899	3.67	1677	40	69	69
1414	P-33(1)	J-24	J-152	True	6.0	Asbestos Cement	140.0	False	33	0.38	1677	392	69	57
1411	P-36(2)	J-151	J-25	True	10.0	Asbestos Cement	140.0	False	896	3.66	1677	304	69	70
1412	P-197	H-38	J-151	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	12	69	69
1719	P-305	H-150	J-21	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	26	69	70
1643	P-276	H-96	J-79	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	49	70	67
1424	P-200	H-40	J-154	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	25	70	70
1461	P-210	H-50	J-34	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	29	70	74
1422	P-38(1)	J-25	J-154	True	10.0	Asbestos Cement	140.0	False	869	3.55	1677	40	70	70
1737	P-37(1)	J-25	J-221	True	8.0	Asbestos Cement	140.0	False	17	0.11	1677	474	70	80
1426	P-38(2)(1)	J-154	J-155	True	10.0	Asbestos Cement	140.0	False	859	3.51	1677	565	70	72
1712	P-163(2)	J-217	J-131	True	8.0	Asbestos Cement	140.0	False	60	0.38	1722	478	70	87
1428	P-201	H-41	J-155	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	14	71	72
221	P-3	J-137	J-138	True	10.0	Asbestos Cement	140.0	False	21	0.09	1924 Main	1,518	71	115
1746	P-4(1)	J-137	J-225	True	12.0	Asbestos Cement	140.0	False	2,468	7.00	1924 Main	8,308	71	100
1721	P-306	H-117	J-125	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	25	71	70
339	P-121	J-95	J-94	True	8.0	Asbestos Cement	140.0	False	23	0.15	1454	580	72	112
1544	P-120(1)	J-95	J-182	True	8.0	Asbestos Cement	140.0	False	250	1.59	1454	551	72	92
1593	P-258	H-140	J-107	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	34	72	73
1430	P-38(2)(2)(1)	J-155	J-156	True	10.0	Asbestos Cement	140.0	False	843	3.44	1677	384	72	74
393	P-174	J-126	J-125	True	6.0	Asbestos Cement	140.0	False	7	0.08	1712 W	182	73	70
433	P-186	J-126	J-99	True	10.0	Steel	140.0	False	619	2.53	1712 W	2,647	73	120
302	P-84	J-58	J-59	True	8.0	Asbestos Cement	140.0	False	17	0.11	1407	165	74	61
1592	P-257	H-139	J-106	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	11	74	74
1434	P-38(2)(2)(2)(1)	J-156	J-157	True	10.0	Asbestos Cement	140.0	False	829	3.39	1677	468	74	76
351	P-132	J-106	J-107	True	4.0	Asbestos Cement	140.0	False	13	0.34	1712 E	158	74	73
261	P-43	J-34	J-35	True	8.0	Asbestos Cement	140.0	False	13	0.09	1677	609	74	44
263	P-45	J-34	J-33	True	8.0	Asbestos Cement	140.0	False	679	4.34	1677	546	74	108
1542	P-237	H-77	J-95	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	34	74	72
356	P-137	J-110	J-111	True	8.0	Asbestos Cement	140.0	False	30	0.19	1712 E	165	75	55

FlexTable: Pipe Table

ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
404	P-185	J-110	H-25	True	4.0	Ductile Iron	140.0	False	0	0.00	1712 E	19	75	74
1602	P-263	H-129	J-118	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	23	75	76
1438	P-38(2)(2)(2)(2)(1)	J-157	J-158	True	10.0	Asbestos Cement	140.0	False	809	3.31	1677	552	76	78
376	P-157	J-118	J-117	True	8.0	Asbestos Cement	140.0	False	20	0.13	1454	450	76	60
1589	P-254	H-136	J-100	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	51	77	78
345	P-127	J-100	J-101	True	6.0	Asbestos Cement	140.0	False	20	0.23	1712 E	427	78	44
347	P-129	J-100	J-105	True	8.0	Asbestos Cement	140.0	False	163	1.04	1712 E	625	78	87
1442	P-38(2)(2)(2)(2)(2)(1)	J-158	J-159	True	10.0	Asbestos Cement	140.0	False	786	3.21	1677	387	78	80
1669	P-173(2)	J-208	J-126	True	10.0	Asbestos Cement	140.0	False	633	2.58	1712 W	272	79	73
1448	P-206	H-46	J-160	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	18	79	80
1443	P-38(2)(2)(2)(2)(2)(2)	J-159	J-28	True	10.0	Asbestos Cement	140.0	False	776	3.17	1677	314	80	81
1450	P-39(2)(1)	J-160	J-161	True	8.0	Asbestos Cement	140.0	False	759	4.85	1677	528	80	67
1739	P-311	H-151	J-221	True	6.0	Ductile Iron	130.0	False	0	0.00	1677	13	80	80
1738	P-37(2)	J-221	J-26	True	8.0	Asbestos Cement	140.0	False	0	0.00	1677	305	80	87
1628	P-270	H-125	J-199	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	5	81	82
1446	P-39(1)	J-28	J-160	True	8.0	Asbestos Cement	140.0	False	769	4.91	1677	56	81	80
271	P-53	J-38	H-8	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	23	82	83
272	P-54	J-38	J-40	True	8.0	Asbestos Cement	140.0	False	553	3.53	1407	241	82	92
1627	P-150(2)(2)	J-199	J-122	True	8.0	Asbestos Cement	140.0	False	17	0.11	1454	450	82	47
1715	P-303	H-109	J-1	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	42	84	85
1635	P-108(1)(2)	J-201	J-200	True	8.0	Asbestos Cement	140.0	False	23	0.15	1470	544	84	116
386	P-167	J-1	J-128	True	8.0	Asbestos Cement	140.0	False	0	0.00	1712 W	131	85	87
1723	P-175(1)	J-1	J-218	True	8.0	Asbestos Cement	140.0	False	470	3.00	1722	502	85	110
230	P-12	J-6	J-7	True	10.0	Asbestos Cement	140.0	False	1,812	7.40	1924	591	85	96
229	P-11	J-5	J-6	True	10.0	Asbestos Cement	140.0	False	1,818	7.43	1924	49	85	85
389	P-170	J-5	J-130	True	10.0	Asbestos Cement	140.0	False	709	2.90	1924	718	85	125
1683	P-290	H-121	J-211	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	16	85	86
1682	P-10(2)	J-211	J-5	True	10.0	Asbestos Cement	140.0	False	2,531	10.34	1924	41	86	85
387	P-168	J-128	J-127	True	8.0	Asbestos Cement	140.0	False	0	0.00	1712 W	297	87	91
348	P-130	J-105	J-106	True	6.0	Asbestos Cement	140.0	False	20	0.23	1712 E	391	87	74
352	P-133	J-105	J-108	True	8.0	Asbestos Cement	140.0	False	127	0.81	1712 E	253	87	89
1591	P-256	H-138	J-105	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	38	87	87
1706	P-164(1)	J-131	J-216	True	6.0	Asbestos Cement	140.0	False	43	0.49	1722	495	87	93
1605	P-156(2)	J-193	J-118	True	8.0	Asbestos Cement	140.0	False	37	0.23	1454	424	88	76
1588	P-253	H-135	J-191	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	17	88	90
1674	P-169(2)	J-209	J-127	True	10.0	Asbestos Cement	140.0	False	669	2.73	1712 W	98	88	91
1709	P-300	H-106	J-131	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	17	88	87
1503	P-222	H-61	J-53	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	24	88	89
1606	P-264	H-128	J-193	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	5	88	88
1398	P-193	H-35	J-148	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	15	89	90
1670	P-286	H-116	J-208	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	17	89	79
247	P-29	J-20	J-21	True	6.0	Asbestos Cement	140.0	False	10	0.11	1924	265	89	70
293	P-75	J-53	J-54	True	4.0	Asbestos Cement	140.0	False	17	0.43	1407	224	89	76
353	P-134	J-108	H-26	True	4.0	Ductile Iron	140.0	False	0	0.00	1712 E	21	89	88
354	P-135	J-108	J-109	True	8.0	Asbestos Cement	140.0	False	117	0.74	1712 E	463	89	94
1397	P-20(2)	J-148	J-16	True	8.0	Asbestos Cement	140.0	False	13	0.09	1924	416	90	87
1399	P-194	H-36	J-16	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	29	90	87
1587	P-126(2)(2)(2)(2)	J-191	J-100	True	10.0	Asbestos Cement	140.0	False	210	0.86	1712 E	631	90	78
1675	P-288	H-118	J-209	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	19	91	88
323	P-105	J-81	J-82	True	8.0	Asbestos Cement	140.0	False	0	0.00	1347	39	91	144
1671	P-287	H-119	J-127	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	31	91	91
1668	P-173(1)	J-127	J-208	True	10.0	Asbestos Cement	140.0	False	653	2.67	1712 W	575	91	79
364	P-145	J-104	J-103	True	4.0	Asbestos Cement	140.0	False	10	0.26	1712 E	259	92	87
295	P-77	J-136	H-13	True	4.0	Ductile Iron	140.0	False	0	0.00	1470	30	92	92
1645	P-76(1)	J-136	J-203	True	8.0	Asbestos Cement	140.0	False	140	0.89	1470	591	92	118
1693	P-293	H-111	J-213	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	5	92	98
1695	P-295	H-113	J-9	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	16	92	93
1594	P-259	H-144	J-104	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	26	92	92
1432	P-202	H-42	J-156	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	14	92	74

FlexTable: Pipe Table														
ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1548	P-120(2)(1)	J-182	J-183	True	8.0	Asbestos Cement	140.0	False	233	1.49	1454	439	92	109
273	P-55	J-40	J-39	True	4.0	Asbestos Cement	140.0	False	13	0.34	1407	420	92	67
274	P-56	J-40	H-9	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	42	92	95
275	P-57	J-40	J-41	True	4.0	Asbestos Cement	140.0	False	0	0.00	1407	197	92	127
1483	P-62(1)	J-40	J-169	True	8.0	Asbestos Cement	140.0	False	526	3.36	1407	486	92	98
1708	P-299	H-105	J-216	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	7	92	93
1707	P-164(2)	J-216	J-132	True	6.0	Asbestos Cement	140.0	False	20	0.23	1722	559	93	99
239	P-21	J-15	H-1	True	4.0	Ductile Iron	140.0	False	0	0.00	1924	15	93	90
1396	P-20(1)	J-15	J-148	True	8.0	Asbestos Cement	140.0	False	33	0.21	1924	525	93	90
1596	P-260	H-146	J-109	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	15	94	94
355	P-136	J-109	J-110	True	8.0	Asbestos Cement	140.0	False	37	0.23	1712 E	320	94	75
361	P-142	J-109	J-115	True	8.0	Asbestos Cement	140.0	False	73	0.47	1712 E	304	94	112
1394	P-192	H-34	J-147	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	21	94	99
1444	P-205	H-45	J-159	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	28	94	80
1689	P-292	H-110	J-7	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	47	94	96
243	P-25	J-18	H-3	True	4.0	Ductile Iron	140.0	False	0	0.00	1924	26	95	95
244	P-26	J-18	J-19	True	6.0	Asbestos Cement	140.0	False	17	0.19	1924	612	95	126
245	P-27	J-18	J-20	True	6.0	Asbestos Cement	140.0	False	20	0.23	1924	158	95	89
225	P-7	J-4	J-3	True	16.0	Asbestos Cement	140.0	False	-66	0.11	1924	1,118	95	15
1681	P-10(1)	J-4	J-211	True	10.0	Asbestos Cement	140.0	False	2,534	10.35	1924	683	95	86
220	P-2	J-139	J-137	True	10.0	Asbestos Cement	140.0	False	2,489	10.17	1924 Main	2,889	96	71
1687	P-6(2)	J-212	J-4	True	16.0	Asbestos Cement	140.0	False	2,468	3.94	1924	267	96	95
1686	P-6(1)	PRV-1 (Main)	J-212	True	16.0	Asbestos Cement	140.0	False	2,468	3.94	1924	40	96	96
379	P-160	J-7	J-133	True	8.0	Asbestos Cement	140.0	False	603	3.85	1924	473	96	118
1691	P-13(1)	J-7	J-213	True	10.0	Asbestos Cement	140.0	False	1,189	4.86	1924	399	96	98
322	P-104	J-75	J-81	True	8.0	Asbestos Cement	140.0	False	3	0.02	1347	233	97	91
1552	P-102(1)	J-75	J-184	True	6.0	Asbestos Cement	140.0	False	53	0.60	1347	30	97	97
1553	P-102(2)	J-184	J-76	True	6.0	Asbestos Cement	140.0	False	40	0.45	1347	562	97	100
237	P-19	J-14	J-15	True	8.0	Asbestos Cement	140.0	False	43	0.28	1924	281	97	93
1388	P-22(1)	J-14	J-146	True	8.0	Asbestos Cement	140.0	False	93	0.60	1924	318	97	113
1554	P-240	H-85	J-184	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	25	97	97
1440	P-204	H-44	J-158	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	22	98	78
1487	P-62(2)(1)	J-169	J-170	True	8.0	Asbestos Cement	140.0	False	506	3.23	1407	427	98	103
1692	P-13(2)	J-213	J-8	True	10.0	Asbestos Cement	140.0	False	1,176	4.80	1924	395	98	100
1704	P-298	H-104	J-132	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	10	99	99
1393	P-18(2)	J-147	J-14	True	8.0	Asbestos Cement	140.0	False	143	0.91	1924	46	99	97
1556	P-242	H-81	J-96	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	12	99	99
1747	P-4(2)	J-225	J-2	True	12.0	Asbestos Cement	140.0	False	2,468	7.00	1924 Main	2,646	100	109
1584	P-252	H-134	J-190	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	36	100	101
321	P-103	J-76	J-77	True	4.0	Asbestos Cement	140.0	False	10	0.26	1347	335	100	101
1694	P-294	H-112	J-8	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	44	100	100
300	P-82	J-57	H-14	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	30	100	102
301	P-83	J-57	J-58	True	8.0	Asbestos Cement	140.0	False	33	0.21	1407	495	100	74
232	P-14	J-8	J-9	True	6.0	Asbestos Cement	140.0	False	0	0.00	1924	451	100	93
1697	P-15(1)	J-8	J-214	True	10.0	Asbestos Cement	140.0	False	1,159	4.73	1924	450	100	110
1586	P-126(2)(2)(2)(1)	J-190	J-191	True	10.0	Asbestos Cement	140.0	False	230	0.94	1712 E	515	101	90
1600	P-144(2)	J-192	J-104	True	6.0	Asbestos Cement	140.0	False	27	0.30	1712 E	527	101	92
1485	P-216	H-56	J-169	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	27	102	98
1567	P-247	H-87	J-76	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	22	102	100
1436	P-203	H-43	J-157	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	13	103	76
1488	P-62(2)(2)	J-170	J-42	True	8.0	Asbestos Cement	140.0	False	493	3.15	1407	99	103	104
1489	P-217	H-57	J-170	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	26	103	103
1501	P-220	H-60	J-173	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	27	103	106
282	P-64	J-43	H-10	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	19	104	103
1491	P-65(1)	J-43	J-171	True	8.0	Asbestos Cement	140.0	False	473	3.02	1407	479	104	104
1615	P-156(1)(2)(2)	J-196	J-193	True	8.0	Asbestos Cement	140.0	False	57	0.36	1454	583	104	88
1688	P-291	H-148	J-212	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	30	104	96
1493	P-218	H-58	J-171	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	27	104	104
1699	P-296	H-114	J-214	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	13	104	110

FlexTable: Pipe Table

ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1601	P-262	H-143	J-192	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	9	104	101
281	P-63	J-42	J-43	True	8.0	Asbestos Cement	140.0	False	490	3.12	1407	286	104	104
285	P-67	J-47	J-46	True	8.0	Asbestos Cement	140.0	False	53	0.34	1470	384	104	107
286	P-68	J-47	H-27	True	4.0	Ductile Iron	140.0	False	0	0.00	1470	20	104	104
1495	P-65(2)(1)	J-171	J-172	True	8.0	Asbestos Cement	140.0	False	450	2.87	1407	443	104	105
1664	P-284	H-90	J-46	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	62	104	107
1497	P-219	H-59	J-172	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	31	105	105
1496	P-65(2)(2)	J-172	J-50	True	8.0	Asbestos Cement	140.0	False	433	2.76	1407	293	105	106
1382	P-189	H-30	J-144	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	12	105	106
284	P-66	J-50	J-49	True	8.0	Asbestos Cement	140.0	False	0	0.00	1470	402	106	145
1499	P-71(1)	J-50	J-173	True	8.0	Asbestos Cement	140.0	False	430	2.74	1407	173	106	106
1546	P-238	H-78	J-182	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	11	106	92
1500	P-71(2)	J-173	J-51	True	8.0	Asbestos Cement	140.0	False	420	2.68	1407	384	106	106
1661	P-61(1)	J-45	J-207	True	6.0	Asbestos Cement	140.0	False	23	0.26	1470	401	106	112
1560	P-243	H-82	J-185	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	6	106	112
1381	P-24(2)	J-144	J-18	True	8.0	Asbestos Cement	140.0	False	43	0.28	1924	459	106	95
290	P-72	J-51	H-12	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	26	106	108
291	P-73	J-51	J-52	True	8.0	Asbestos Cement	140.0	False	403	2.57	1407	437	106	112
1733	P-101(2)(2)	J-220	J-75	True	8.0	Asbestos Cement	140.0	False	57	0.36	1347	379	106	97
314	P-96	J-56	J-67	True	8.0	Asbestos Cement	140.0	False	220	1.40	1347	256	107	110
277	P-59	J-46	J-45	True	6.0	Asbestos Cement	140.0	False	30	0.34	1470	81	107	106
1728	P-58(1)	J-46	J-219	True	8.0	Asbestos Cement	140.0	False	10	0.06	1470	425	107	116
1403	P-195	H-37	J-149	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	32	108	117
264	P-46	J-33	J-31	True	4.0	Asbestos Cement	140.0	False	13	0.34	1677	408	108	88
265	P-47	J-33	J-32	True	8.0	Asbestos Cement	140.0	False	653	4.17	1677	39	108	110
223	P-5	J-2	PRV-1 (Main)	True	16.0	Asbestos Cement	140.0	False	2,468	3.94	1924 Main	41	109	101
1549	P-120(2)(2)	J-183	J-93	True	8.0	Asbestos Cement	140.0	False	223	1.42	1454	671	109	134
1616	P-267	H-127	J-196	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	15	109	104
313	P-95	PRV-7 (Bridle)	J-56	True	8.0	Asbestos Cement	140.0	False	226	1.45	1347	76	109	107
1701	P-15(2)(1)	J-214	J-215	True	10.0	Asbestos Cement	140.0	False	1,139	4.65	1924	509	110	120
1724	P-175(2)	J-218	J-88	True	8.0	Asbestos Cement	140.0	False	453	2.89	1722	566	110	138
1582	P-126(2)(2)(1)	J-189	J-190	True	10.0	Asbestos Cement	140.0	False	250	1.02	1712 E	447	110	101
1614	P-156(1)(2)(1)	J-195	J-196	True	8.0	Asbestos Cement	140.0	False	80	0.51	1454	237	110	104
266	P-48	J-32	H-6	True	4.0	Ductile Iron	140.0	False	0	0.00	1677	33	110	110
267	P-49	J-32	J-36	True	8.0	Asbestos Cement	140.0	False	653	4.17	1677	187	110	122
315	P-97	J-67	J-66	True	4.0	Asbestos Cement	140.0	False	10	0.26	1347	255	110	107
316	P-98	J-67	J-68	True	8.0	Asbestos Cement	140.0	False	193	1.23	1347	320	110	115
1523	P-230	H-70	J-67	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	49	110	110
1725	P-307	H-103	J-218	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	7	110	110
1734	P-310	H-86	J-220	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	22	111	106
362	P-143	J-115	J-114	True	4.0	Asbestos Cement	140.0	False	10	0.26	1712 E	291	112	116
1599	P-144(1)	J-115	J-192	True	6.0	Asbestos Cement	140.0	False	47	0.53	1712 E	558	112	101
292	P-74	J-52	J-53	True	6.0	Asbestos Cement	140.0	False	40	0.45	1407	492	112	89
1505	P-80(1)	J-52	J-174	True	8.0	Asbestos Cement	140.0	False	336	2.15	1407	724	112	116
1502	P-221	H-62	J-52	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	72	112	112
1663	P-283	H-88	J-207	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	12	112	112
1662	P-61(2)	J-207	J-44	True	6.0	Asbestos Cement	140.0	False	10	0.11	1470	108	112	114
1559	P-146(2)	J-185	J-96	True	6.0	Asbestos Cement	140.0	False	17	0.19	1454	547	112	99
1597	P-261	H-142	J-115	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	43	112	112
1541	P-236	H-76	J-94	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	16	113	112
1632	P-271	H-101	J-200	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	29	113	116
1389	P-22(2)	J-146	J-17	True	8.0	Asbestos Cement	140.0	False	83	0.53	1924	320	113	130
1580	P-251	H-133	J-189	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	32	114	110
1612	P-266	H-126	J-195	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	36	114	110
1626	P-150(2)(1)	J-198	J-199	True	8.0	Asbestos Cement	140.0	False	27	0.17	1454	398	114	82
1524	P-231	H-71	J-68	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	54	114	115
1536	P-234	H-74	J-180	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	55	114	121
317	P-99	J-68	J-69	True	4.0	Asbestos Cement	140.0	False	20	0.51	1347	298	115	104
318	P-100	J-68	J-70	True	8.0	Asbestos Cement	140.0	False	163	1.04	1347	505	115	119

ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1624	P-269	H-124	J-198	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	5	115	114
1506	P-80(2)	J-174	J-55	True	8.0	Asbestos Cement	140.0	False	310	1.98	1407	505	116	118
1390	P-191	H-33	J-146	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	27	116	113
1729	P-58(2)	J-219	J-41	True	8.0	Asbestos Cement	140.0	False	0	0.00	1470	484	116	127
1385	P-24(1)(2)	J-145	J-144	True	8.0	Asbestos Cement	140.0	False	50	0.32	1924	443	116	106
1631	P-108(2)	J-200	J-82	True	8.0	Asbestos Cement	140.0	False	7	0.04	1470	466	116	144
1402	P-18(1)(2)	J-149	J-147	True	8.0	Asbestos Cement	140.0	False	153	0.98	1924	456	117	99
1732	P-101(2)(1)	J-178	J-220	True	8.0	Asbestos Cement	140.0	False	70	0.45	1347	400	117	106
1703	P-297	H-115	J-215	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	33	117	120
1507	P-223	H-63	J-174	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	27	118	116
380	P-161	J-133	PRV-3 (Ranchero)	True	8.0	Asbestos Cement	140.0	False	593	3.78	1924	76	118	123
1528	P-232	H-72	J-178	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	15	118	117
1618	P-154(1)	J-120	J-197	True	8.0	Asbestos Cement	140.0	False	110	0.70	1454	423	118	118
1622	P-150(1)	J-120	J-198	True	8.0	Asbestos Cement	140.0	False	27	0.17	1454	47	118	114
1578	P-126(2)(1)	J-188	J-189	True	10.0	Asbestos Cement	140.0	False	266	1.09	1712 E	390	118	110
1619	P-154(2)	J-197	J-119	True	8.0	Asbestos Cement	140.0	False	97	0.62	1454	492	118	118
1508	P-224	H-64	J-55	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	64	118	118
374	P-155	J-119	H-28	True	4.0	Ductile Iron	140.0	False	0	0.00	1454	24	118	115
1610	P-156(1)(1)	J-119	J-195	True	8.0	Asbestos Cement	140.0	False	80	0.51	1454	289	118	110
1649	P-76(2)(1)	J-203	J-204	True	8.0	Asbestos Cement	140.0	False	120	0.77	1470	476	118	139
1656	P-69(2)	J-205	J-47	True	8.0	Asbestos Cement	140.0	False	67	0.43	1470	286	118	104
299	P-81	J-55	J-57	True	8.0	Asbestos Cement	140.0	False	60	0.38	1407	453	118	100
312	P-94	J-55	PRV-7 (Bridle)	True	8.0	Asbestos Cement	140.0	False	226	1.45	1407	59	118	122
1526	P-101(1)	J-70	J-178	True	8.0	Asbestos Cement	140.0	False	87	0.55	1347	95	119	117
1530	P-109(1)	J-70	J-179	True	8.0	Asbestos Cement	140.0	False	67	0.43	1347	376	119	120
1576	P-250	H-132	J-188	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	27	119	118
1570	P-125(1)	J-99	J-187	True	8.0	Asbestos Cement	140.0	False	336	2.15	1712 E	459	120	133
1574	P-126(1)	J-99	J-188	True	10.0	Asbestos Cement	140.0	False	276	1.13	1712 E	81	120	118
1531	P-109(2)	J-179	J-71	True	8.0	Asbestos Cement	140.0	False	43	0.28	1347	393	120	120
1532	P-233	H-73	J-179	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	30	120	120
1540	P-235	H-75	J-181	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	48	120	123
1657	P-281	H-91	J-205	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	13	120	118
328	P-110	J-71	H-18	True	4.0	Ductile Iron	140.0	False	0	0.00	1347	38	120	122
329	P-111	J-71	J-94	True	8.0	Asbestos Cement	140.0	False	0	0.00	1454	582	120	112
1534	P-112(1)	J-71	J-180	True	8.0	Asbestos Cement	140.0	False	27	0.17	1347	421	120	121
1702	P-15(2)(2)	J-215	J-10	True	10.0	Asbestos Cement	140.0	False	1,126	4.60	1924	86	120	122
1535	P-112(2)	J-180	J-72	True	8.0	Asbestos Cement	140.0	False	23	0.15	1347	452	121	121
331	P-113	J-72	H-19	True	4.0	Ductile Iron	140.0	False	0	0.00	1347	30	121	122
1538	P-114(1)	J-72	J-181	True	8.0	Asbestos Cement	140.0	False	17	0.11	1347	300	121	123
268	P-50	J-36	PRV-8 (Zanja)	True	8.0	Asbestos Cement	140.0	False	646	4.12	1677	51	122	124
1741	P-16(1)	J-10	J-222	True	10.0	Steel	140.0	False	1,116	4.56	1924	1,092	122	202
1564	P-244	H-83	J-186	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	33	122	123
1563	P-146(1)(2)	J-186	J-185	True	6.0	Asbestos Cement	140.0	False	40	0.45	1454	423	123	112
1386	P-190	H-31	J-145	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	13	123	116
1539	P-114(2)	J-181	J-73	True	8.0	Asbestos Cement	140.0	False	7	0.04	1347	312	123	125
333	P-115	J-73	J-74	True	8.0	Asbestos Cement	140.0	False	0	0.00	1347	271	125	129
390	P-171	J-130	PRV-2 (Marlboro)	True	10.0	Asbestos Cement	140.0	False	703	2.87	1924	275	125	147
1730	P-309	H-89	J-219	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	25	125	116
1620	P-268	H-123	J-197	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	4	125	118
1522	P-229	H-69	J-177	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	10	126	137
367	P-148	J-121	H-20	True	4.0	Ductile Iron	140.0	False	0	0.00	1454	26	126	127
368	P-149	J-121	J-120	True	8.0	Asbestos Cement	140.0	False	140	0.89	1454	197	126	118
1518	P-228	H-68	J-62	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	55	127	128
1378	P-188	H-29	J-19	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	23	128	126
1572	P-249	H-131	J-187	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	15	128	133
308	P-90	J-62	J-65	True	4.0	Asbestos Cement	140.0	False	23	0.60	1550	431	128	120
1520	P-91(1)	J-62	J-177	True	8.0	Asbestos Cement	140.0	False	47	0.30	1550	470	128	137

ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1647	P-277	H-95	J-203	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	18	128	118
1550	P-239	H-79	J-183	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	30	129	109
241	P-23	J-17	H-2	True	4.0	Ductile Iron	140.0	False	0	0.00	1924	21	130	131
1384	P-24(1)(1)	J-17	J-145	True	8.0	Asbestos Cement	140.0	False	70	0.45	1924	592	130	116
248	P-30	J-12	PRV-4 (Saddlebow)	True	10.0	Asbestos Cement	140.0	False	946	3.86	1924	26	131	138
1401	P-18(1)(1)	J-12	J-149	True	8.0	Asbestos Cement	140.0	False	167	1.06	1924	364	131	117
1565	P-245	H-80	J-93	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	56	132	134
1571	P-125(2)	J-187	J-98	True	8.0	Asbestos Cement	140.0	False	313	2.00	1712 E	480	133	147
337	P-119	J-93	J-92	True	8.0	Asbestos Cement	140.0	False	157	1.00	1454	390	134	135
1562	P-146(1)(1)	J-93	J-186	True	6.0	Asbestos Cement	140.0	False	47	0.53	1454	448	134	123
1568	P-248	H-84	J-91	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	48	135	135
336	P-118	J-92	J-91	True	8.0	Asbestos Cement	140.0	False	3	0.02	1454	28	135	135
366	P-147	J-92	J-121	True	8.0	Asbestos Cement	140.0	False	143	0.91	1454	402	135	126
335	P-117	J-91	J-83	True	8.0	Asbestos Cement	140.0	False	3	0.02	1454	199	135	136
334	P-116	J-83	J-82	True	8.0	Asbestos Cement	140.0	False	0	0.00	1454	30	136	144
1521	P-91(2)	J-177	J-63	True	8.0	Asbestos Cement	140.0	False	17	0.11	1550	516	137	146
1717	P-304	H-149	J-88	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	44	138	138
395	P-176	J-88	J-87	True	6.0	Asbestos Cement	140.0	False	0	0.00	1722	307	138	35
399	P-180	J-88	J-85	True	8.0	Asbestos Cement	140.0	False	443	2.83	1722	374	138	147
1650	P-76(2)(2)	J-204	J-49	True	8.0	Asbestos Cement	140.0	False	107	0.68	1470	129	139	145
1653	P-280	H-92	J-48	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	117	140	142
1641	P-274	H-102	J-89	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	29	140	141
401	P-182	J-89	J-90	True	4.0	Asbestos Cement	140.0	False	10	0.26	1722	225	141	135
1517	P-227	H-67	J-176	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	37	142	144
1655	P-69(1)	J-48	J-205	True	8.0	Asbestos Cement	140.0	False	83	0.53	1470	481	142	118
1516	P-88(2)	J-176	J-60	True	4.0	Asbestos Cement	140.0	False	13	0.34	1550	141	144	140
1642	P-275	H-98	J-85	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	53	145	147
288	P-70	J-49	J-48	True	8.0	Asbestos Cement	140.0	False	100	0.64	1470	230	145	142
310	P-92	J-63	H-16	True	4.0	Ductile Iron	140.0	False	0	0.00	1550	37	146	145
311	P-93	J-63	J-64	True	8.0	Asbestos Cement	140.0	False	3	0.02	1550	68	146	148
1652	P-279	H-93	J-49	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	57	146	145
1651	P-278	H-94	J-204	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	32	147	139
400	P-181	J-85	J-89	True	6.0	Asbestos Cement	140.0	False	23	0.26	1722	687	147	141
402	P-183	J-85	PRV-5 (Colt)	True	8.0	Asbestos Cement	140.0	False	253	1.62	1722	82	147	150
1826	Flintlock Bypass	J-85	J-175	True	6.0	Ductile Iron	130.0	False	157	1.78	1550	5,495	147	183
1555	P-241	H-130	J-98	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	14	147	147
342	P-124	J-98	PRV-6 (Dapplegray)	True	8.0	Asbestos Cement	140.0	False	300	1.91	1712 E	24	147	152
1513	P-226	H-66	J-61	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	44	153	154
307	P-89	J-61	J-62	True	8.0	Asbestos Cement	140.0	False	93	0.60	1550	390	154	128
1515	P-88(1)	J-61	J-176	True	4.0	Asbestos Cement	140.0	False	30	0.77	1550	329	154	144
1511	P-87(2)	J-175	J-61	True	8.0	Asbestos Cement	140.0	False	147	0.94	1550	466	183	154
1512	P-225	H-65	J-175	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	13	185	183
1742	P-16(2)	J-222	J-11	True	10.0	Steel	140.0	False	1,116	4.56	1924	325	202	226
235	P-17	J-11	J-12	True	10.0	Steel	140.0	False	1,116	4.56	1924	1,534	226	131

ID	Label	Is Operable?	Diameter (Valve) (in)	Status (Initial)	Elevation (ft)	Referenced Pipe	Flow (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Velocity (ft/s)
1210	ISO-9	True	6.0	Closed	0.00	P-168	0	(N/A)	(N/A)	0.00
1211	ISO-10	True	6.0	Open	0.00	P-173(1)	653	1,710.04	740	7.41
1212	ISO-11	True	6.0	Open	0.00	P-166	493	1,718.57	744	5.59
1213	ISO-12	True	6.0	Open	0.00	P-175(1)	470	1,718.45	744	5.33
1214	ISO-13	True	6.0	Open	0.00	P-10(2)	2,531	1,902.61	823	28.72
1215	ISO-14	True	6.0	Open	0.00	P-170	709	1,902.21	823	8.05
1216	ISO-15	True	6.0	Open	0.00	P-11	1,818	1,902.07	823	20.63
1217	ISO-16	True	6.0	Open	0.00	P-174	7	1,708.05	739	0.08
1218	ISO-17	True	6.0	Open	0.00	P-186	619	1,708.02	739	7.03
1219	ISO-18	True	6.0	Open	0.00	P-186	619	1,706.10	738	7.03
1220	ISO-19	True	6.0	Open	0.00	P-156(1)(2)(1)	80	1,450.73	628	0.91
1221	ISO-20	True	6.0	Open	0.00	P-156(2)	37	1,450.67	628	0.42
1222	ISO-21	True	6.0	Open	0.00	P-125(1)	336	1,702.17	736	3.82
1223	ISO-22	True	6.0	Open	0.00	P-126(1)	276	1,702.19	736	3.14
1224	ISO-23	True	6.0	Open	0.00	P-186	619	1,702.23	736	7.03
1225	ISO-24	True	6.0	Open	0.00	P-154(2)	97	1,450.80	628	1.10
1226	ISO-25	True	6.0	Open	0.00	P-149	140	1,451.01	628	1.59
1227	ISO-26	True	6.0	Open	0.00	P-154(1)	110	1,451.01	628	1.25
1228	ISO-27	True	6.0	Open	0.00	P-150(1)	27	1,451.01	628	0.30
1229	ISO-28	True	6.0	Open	0.00	P-150(2)(1)	27	1,451.00	628	0.30
1230	ISO-29	True	6.0	Open	0.00	P-108(2)	7	1,470.01	636	0.08
1231	ISO-30	True	6.0	Open	0.00	P-117	3	1,451.27	628	0.04
1232	ISO-31	True	6.0	Open	0.00	P-104	3	1,346.24	582	0.04
1233	ISO-32	True	6.0	Closed	0.00	P-105	0	(N/A)	(N/A)	0.00
1234	ISO-33	True	6.0	Closed	0.00	P-116	0	(N/A)	(N/A)	0.00
1235	ISO-34	True	6.0	Open	0.00	P-104	3	1,346.24	582	0.04
1236	ISO-35	True	6.0	Open	0.00	P-101(2)(2)	57	1,346.24	582	0.64
1237	ISO-36	True	6.0	Open	0.00	P-102(1)	53	1,346.24	582	0.60
1238	ISO-37	True	6.0	Open	0.00	P-101(1)	87	1,346.33	583	0.98
1239	ISO-38	True	6.0	Open	0.00	P-109(1)	67	1,346.33	583	0.76
1240	ISO-39	True	6.0	Open	0.00	P-100	163	1,346.34	583	1.85
1241	ISO-40	True	6.0	Closed	0.00	P-176	0	(N/A)	(N/A)	0.00
1242	ISO-41	True	6.0	Open	0.00	P-180	443	1,714.37	742	5.03
1243	ISO-42	True	6.0	Open	0.00	P-111	0	(N/A)	(N/A)	0.00
1244	ISO-43	True	6.0	Open	0.00	P-109(2)	43	1,346.28	582	0.49
1245	ISO-44	True	6.0	Closed	0.00	P-111	0	(N/A)	(N/A)	0.00
1246	ISO-45	True	6.0	Open	0.00	P-112(1)	27	1,346.28	582	0.30
1247	ISO-46	True	6.0	Open	0.00	P-112(1)	27	1,346.27	582	0.30
1248	ISO-47	True	6.0	Open	0.00	P-66	0	(N/A)	(N/A)	0.00
1249	ISO-48	True	6.0	Closed	0.00	P-66	0	(N/A)	(N/A)	0.00
1250	ISO-49	True	6.0	Open	0.00	P-55	13	1,392.41	602	0.15
1251	ISO-50	True	6.0	Open	0.00	P-62(1)	526	1,392.31	602	5.97
1252	ISO-51	True	6.0	Open	0.00	P-54	553	1,392.52	602	6.27
1253	ISO-52	True	6.0	Open	0.00	P-57	0	(N/A)	(N/A)	0.00
1254	ISO-53	True	6.0	Closed	0.00	P-57	0	(N/A)	(N/A)	0.00
1255	ISO-54	True	6.0	Open	0.00	P-179	10	1,469.62	636	0.11
1256	ISO-55	True	6.0	Open	0.00	P-107	203	1,469.64	636	2.31
1257	ISO-56	True	6.0	Open	0.00	P-106	186	1,469.61	636	2.12
1258	ISO-57	True	6.0	Open	0.00	P-106	186	1,469.56	636	2.12
1259	ISO-58	True	6.0	Open	0.00	P-79	20	1,469.54	636	0.23
1260	ISO-59	True	6.0	Open	0.00	P-78	157	1,469.53	636	1.78

FlexTable: Hydrant Table

ID	Label	Hydrant Status	Include Hydrant Lateral Loss?	Emitter Coefficient (gpm/psi^ ⁿ)	Length (Hydrant Lateral) (ft)	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Satisfies Fire Flow Constraints?	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)
1299	H-67	Open	False	0.000	20	1,371.27	1550	<Collection: 0 items>	0	1,699.56	142	False	588	1,000
57	H-16	Open	False	0.000	20	1,363.99	1550	<Collection: 0 items>	0	1,699.69	145	False	611	1,000
1301	H-69	Open	False	0.000	20	1,408.00	1550	<Collection: 0 items>	0	1,699.69	126	False	611	1,000
1300	H-68	Open	False	0.000	20	1,407.32	1550	<Collection: 0 items>	0	1,699.72	127	False	611	1,000
1298	H-66	Open	False	0.000	20	1,345.71	1550	<Collection: 0 items>	0	1,699.79	153	False	615	1,000
1297	H-65	Open	False	0.000	20	1,273.44	1550	<Collection: 0 items>	0	1,700.00	185	False	622	1,000
56	H-15	Open	False	0.000	20	1,229.57	1407	<Collection: 0 items>	0	1,376.39	64	False	722	1,000
55	H-14	Open	False	0.000	20	1,141.15	1407	<Collection: 0 items>	0	1,376.41	102	False	746	1,000
1296	H-64	Open	False	0.000	20	1,103.57	1407	<Collection: 0 items>	0	1,376.45	118	False	765	1,000
48	H-7	Open	False	0.000	20	1,535.87	1677	<Collection: 0 items>	0	1,642.23	46	False	778	1,000
1295	H-63	Open	False	0.000	20	1,105.70	1407	<Collection: 0 items>	0	1,377.37	118	False	799	1,000
1369	H-137	Open	False	0.000	20	1,605.17	1712 E	<Collection: 0 items>	0	1,701.40	42	False	835	1,000
47	H-6	Open	False	0.000	20	1,384.44	1677	<Collection: 0 items>	0	1,637.71	110	False	841	1,000
1282	H-50	Open	False	0.000	20	1,480.51	1677	<Collection: 0 items>	0	1,642.24	70	False	841	1,000
1718	H-150	Open	False	0.000	20	1,698.18	1924	<Collection: 0 items>	0	1,858.77	69	False	857	1,000
1294	H-62	Open	False	0.000	20	1,119.88	1407	<Collection: 0 items>	0	1,378.90	112	False	857	1,000
1293	H-61	Open	False	0.000	20	1,174.96	1407	<Collection: 0 items>	0	1,378.82	88	False	858	1,000
53	H-12	Open	False	0.000	20	1,129.88	1407	<Collection: 0 items>	0	1,380.19	108	False	901	1,000
1372	H-140	Open	False	0.000	20	1,534.45	1712 E	<Collection: 0 items>	0	1,701.03	72	False	904	1,000
1319	H-87	Open	False	0.000	20	1,109.32	1347	<Collection: 0 items>	0	1,346.14	102	False	917	1,000
64	H-23	Open	False	0.000	20	1,595.52	1712 E	<Collection: 0 items>	0	1,700.83	46	False	918	1,000
1281	H-49	Open	False	0.000	20	1,500.72	1677	<Collection: 0 items>	0	1,646.03	63	False	930	1,000
1292	H-60	Open	False	0.000	20	1,142.35	1407	<Collection: 0 items>	0	1,381.42	103	False	945	1,000
1317	H-85	Open	False	0.000	20	1,121.44	1347	<Collection: 0 items>	0	1,346.23	97	False	968	1,000
1318	H-86	Open	False	0.000	20	1,090.62	1347	<Collection: 0 items>	0	1,346.27	111	False	986	1,000
1261	H-29	Open	False	0.000	20	1,563.14	1924	<Collection: 0 items>	0	1,858.76	128	True	1,002	1,000
44	H-3	Open	False	0.000	20	1,638.70	1924	<Collection: 0 items>	0	1,858.78	95	True	1,002	1,000
1304	H-72	Open	False	0.000	20	1,073.93	1347	<Collection: 0 items>	0	1,346.32	118	True	1,006	1,000
1291	H-59	Open	False	0.000	20	1,140.41	1407	<Collection: 0 items>	0	1,382.98	105	True	1,006	1,000
63	H-22	Open	False	0.000	20	1,317.31	1454	<Collection: 0 items>	0	1,450.65	58	True	1,009	1,000
1305	H-73	Open	False	0.000	20	1,069.21	1347	<Collection: 0 items>	0	1,346.29	120	True	1,011	1,000
59	H-18	Open	False	0.000	20	1,064.56	1347	<Collection: 0 items>	0	1,346.28	122	True	1,011	1,000
60	H-19	Open	False	0.000	20	1,063.68	1347	<Collection: 0 items>	0	1,346.26	122	True	1,011	1,000
1307	H-75	Open	False	0.000	20	1,069.02	1347	<Collection: 0 items>	0	1,346.26	120	True	1,011	1,000
1306	H-74	Open	False	0.000	20	1,081.76	1347	<Collection: 0 items>	0	1,346.27	114	True	1,011	1,000
65	H-24	Open	False	0.000	20	1,572.15	1712 E	<Collection: 0 items>	0	1,700.84	56	True	1,037	1,000
1262	H-30	Open	False	0.000	20	1,615.23	1924	<Collection: 0 items>	0	1,858.81	105	True	1,039	1,000
1280	H-48	Open	False	0.000	20	1,521.55	1677	<Collection: 0 items>	0	1,649.93	56	True	1,042	1,000
1303	H-71	Open	False	0.000	20	1,082.52	1347	<Collection: 0 items>	0	1,346.61	114	True	1,043	1,000
66	H-25	Open	False	0.000	20	1,528.95	1712 E	<Collection: 0 items>	0	1,700.84	74	True	1,057	1,000
1665	H-147	Open	False	0.000	20	1,340.35	1454	<Collection: 0 items>	0	1,451.00	48	True	1,061	1,000
1302	H-70	Open	False	0.000	20	1,091.91	1347	<Collection: 0 items>	0	1,346.86	110	True	1,066	1,000
1370	H-138	Open	False	0.000	20	1,499.38	1712 E	<Collection: 0 items>	0	1,701.08	87	True	1,066	1,000
1368	H-136	Open	False	0.000	20	1,523.76	1712 E	<Collection: 0 items>	0	1,701.42	77	True	1,066	1,000
67	H-26	Open	False	0.000	20	1,497.30	1712 E	<Collection: 0 items>	0	1,700.99	88	True	1,067	1,000
1375	H-143	Open	False	0.000	20	1,460.15	1712 E	<Collection: 0 items>	0	1,700.69	104	True	1,067	1,000
1374	H-142	Open	False	0.000	20	1,440.81	1712 E	<Collection: 0 items>	0	1,700.81	112	True	1,067	1,000
1595	H-146	Open	False	0.000	20	1,484.65	1712 E	<Collection: 0 items>	0	1,700.85	94	True	1,067	1,000
1376	H-144	Open	False	0.000	20	1,487.71	1712 E	<Collection: 0 items>	0	1,700.65	92	True	1,067	1,000
1371	H-139	Open	False	0.000	20	1,530.99	1712 E	<Collection: 0 items>	0	1,701.06	74	True	1,067	1,000
1290	H-58	Open	False	0.000	20	1,144.41	1407	<Collection: 0 items>	0	1,384.59	104	True	1,075	1,000
1263	H-31	Open	False	0.000	20	1,574.44	1924	<Collection: 0 items>	0	1,858.83	123	True	1,080	1,000
1361	H-129	Open	False	0.000	20	1,277.86	1454	<Collection: 0 items>	0	1,450.65	75	True	1,084	1,000
1367	H-135	Open	False	0.000	20	1,498.84	1712 E	<Collection: 0 items>	0	1,701.61	88	True	1,124	1,000
1360	H-128	Open	False	0.000	20	1,246.52	1454	<Collection: 0 items>	0	1,450.67	88	True	1,128	1,000
1357	H-125	Open	False	0.000	20	1,264.04	1454	<Collection: 0 items>	0	1,451.00	81	True	1,134	1,000
43	H-2	Open	False	0.000	20	1,557.21	1924	<Collection: 0 items>	0	1,858.90	131	True	1,145	1,000
51	H-10	Open	False	0.000	20	1,148.70	1407	<Collection: 0 items>	0	1,386.49	103	True	1,165	1,000

FlexTable: Hydrant Table

ID	Label	Hydrant Status	Include Hydrant Lateral Loss?	Emitter Coefficient (gpm/psi^n)	Length (Hydrant Lateral) (ft)	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Satisfies Fire Flow Constraints?	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)
1366	H-134	Open	False	0.000	20	1,470.69	1712 E	<Collection: 0 items>	0	1,701.79	100	True	1,179	1,000
1265	H-33	Open	False	0.000	20	1,590.74	1924	<Collection: 0 items>	0	1,858.95	116	True	1,186	1,000
1356	H-124	Open	False	0.000	20	1,184.83	1454	<Collection: 0 items>	0	1,451.01	115	True	1,201	1,000
1359	H-127	Open	False	0.000	20	1,198.95	1454	<Collection: 0 items>	0	1,450.71	109	True	1,202	1,000
78	H-28	Open	False	0.000	20	1,185.27	1454	<Collection: 0 items>	0	1,450.79	115	True	1,209	1,000
1358	H-126	Open	False	0.000	20	1,187.19	1454	<Collection: 0 items>	0	1,450.75	114	True	1,210	1,000
1355	H-123	Open	False	0.000	20	1,161.20	1454	<Collection: 0 items>	0	1,450.90	125	True	1,210	1,000
1268	H-36	Open	False	0.000	20	1,650.79	1924	<Collection: 0 items>	0	1,858.98	90	True	1,212	1,000
46	H-5	Open	False	0.000	20	1,520.50	1677	<Collection: 0 items>	0	1,654.82	58	True	1,229	1,000
1267	H-35	Open	False	0.000	20	1,654.33	1924	<Collection: 0 items>	0	1,858.99	89	True	1,233	1,000
42	H-1	Open	False	0.000	20	1,649.90	1924	<Collection: 0 items>	0	1,859.00	90	True	1,233	1,000
1365	H-133	Open	False	0.000	20	1,439.45	1712 E	<Collection: 0 items>	0	1,701.98	114	True	1,235	1,000
1266	H-34	Open	False	0.000	20	1,641.98	1924	<Collection: 0 items>	0	1,859.04	94	True	1,240	1,000
1289	H-57	Open	False	0.000	20	1,149.48	1407	<Collection: 0 items>	0	1,388.13	103	True	1,252	1,000
61	H-20	Open	False	0.000	20	1,157.23	1454	<Collection: 0 items>	0	1,451.09	127	True	1,255	1,000
1313	H-81	Open	False	0.000	20	1,222.00	1454	<Collection: 0 items>	0	1,451.28	99	True	1,264	1,000
1364	H-132	Open	False	0.000	20	1,426.61	1712 E	<Collection: 0 items>	0	1,702.16	119	True	1,290	1,000
1363	H-131	Open	False	0.000	20	1,404.57	1712 E	<Collection: 0 items>	0	1,701.23	128	True	1,302	1,000
1362	H-130	Open	False	0.000	20	1,359.51	1712 E	<Collection: 0 items>	0	1,700.34	147	True	1,302	1,000
1269	H-37	Open	False	0.000	20	1,610.55	1924	<Collection: 0 items>	0	1,859.26	108	True	1,324	1,000
1288	H-56	Open	False	0.000	20	1,153.45	1407	<Collection: 0 items>	0	1,390.06	102	True	1,328	1,000
1316	H-84	Open	False	0.000	20	1,140.00	1454	<Collection: 0 items>	0	1,451.27	135	True	1,362	1,000
58	H-17	Open	False	0.000	20	1,382.29	1470	<Collection: 0 items>	0	1,469.62	38	True	1,365	1,000
1279	H-47	Open	False	0.000	20	1,503.08	1677	<Collection: 0 items>	0	1,657.70	67	True	1,376	1,000
50	H-9	Open	False	0.000	20	1,173.00	1407	<Collection: 0 items>	0	1,392.42	95	True	1,387	1,000
1283	H-51	Open	False	0.000	20	1,332.87	1407	<Collection: 0 items>	0	1,405.16	31	True	1,415	1,000
1287	H-55	Open	False	0.000	20	1,261.84	1407	<Collection: 0 items>	0	1,396.56	58	True	1,418	1,000
49	H-8	Open	False	0.000	20	1,202.06	1407	<Collection: 0 items>	0	1,393.69	83	True	1,419	1,000
1286	H-54	Open	False	0.000	20	1,274.19	1407	<Collection: 0 items>	0	1,398.97	54	True	1,419	1,000
1285	H-53	Open	False	0.000	20	1,274.56	1407	<Collection: 0 items>	0	1,399.95	54	True	1,438	1,000
1284	H-52	Open	False	0.000	20	1,299.41	1407	<Collection: 0 items>	0	1,402.36	45	True	1,453	1,000
1314	H-82	Open	False	0.000	20	1,206.58	1454	<Collection: 0 items>	0	1,451.30	106	True	1,497	1,000
1312	H-80	Open	False	0.000	20	1,147.31	1454	<Collection: 0 items>	0	1,451.47	132	True	1,497	1,000
1315	H-83	Open	False	0.000	20	1,168.35	1454	<Collection: 0 items>	0	1,451.37	122	True	1,497	1,000
1278	H-46	Open	False	0.000	20	1,479.97	1677	<Collection: 0 items>	0	1,662.76	79	True	1,564	1,000
1336	H-104	Open	False	0.000	20	1,493.49	1722	<Collection: 0 items>	0	1,721.66	99	True	1,603	1,000
1329	H-97	Open	False	0.000	20	1,322.00	1470	<Collection: 0 items>	0	1,469.52	64	True	1,604	1,000
1277	H-45	Open	False	0.000	20	1,447.01	1677	<Collection: 0 items>	0	1,664.36	94	True	1,610	1,000
1322	H-90	Open	False	0.000	20	1,227.53	1470	<Collection: 0 items>	0	1,468.70	104	True	1,611	1,000
1271	H-39	Open	False	0.000	20	1,544.28	1677	<Collection: 0 items>	0	1,674.89	57	True	1,622	1,000
1320	H-88	Open	False	0.000	20	1,209.27	1470	<Collection: 0 items>	0	1,468.67	112	True	1,630	1,000
1276	H-44	Open	False	0.000	20	1,440.27	1677	<Collection: 0 items>	0	1,665.69	98	True	1,650	1,000
1275	H-43	Open	False	0.000	20	1,430.19	1677	<Collection: 0 items>	0	1,667.69	103	True	1,711	1,000
1334	H-102	Open	False	0.000	20	1,388.52	1722	<Collection: 0 items>	0	1,713.10	140	True	1,763	1,000
1274	H-42	Open	False	0.000	20	1,456.43	1677	<Collection: 0 items>	0	1,669.47	92	True	1,769	1,000
1324	H-92	Open	False	0.000	20	1,145.62	1470	<Collection: 0 items>	0	1,468.84	140	True	1,804	1,000
1273	H-41	Open	False	0.000	20	1,507.89	1677	<Collection: 0 items>	0	1,670.97	71	True	1,821	1,000
1345	H-113	Open	False	0.000	20	1,673.20	1924	<Collection: 0 items>	0	1,886.10	92	True	1,852	1,000
1311	H-79	Open	False	0.000	20	1,153.44	1454	<Collection: 0 items>	0	1,452.13	129	True	1,866	1,000
1272	H-40	Open	False	0.000	20	1,511.63	1677	<Collection: 0 items>	0	1,673.26	70	True	1,903	1,000
1735	H-151	Open	False	0.000	20	1,489.00	1677	<Collection: 0 items>	0	1,673.42	80	True	1,909	1,000
1321	H-89	Open	False	0.000	20	1,179.25	1470	<Collection: 0 items>	0	1,468.70	125	True	1,931	1,000
1270	H-38	Open	False	0.000	20	1,515.60	1677	<Collection: 0 items>	0	1,674.76	69	True	1,959	1,000
1404	H-145	Open	False	0.000	20	1,549.51	1677	<Collection: 0 items>	0	1,676.95	55	True	1,974	1,000
77	H-27	Open	False	0.000	20	1,228.30	1470	<Collection: 0 items>	0	1,468.73	104	True	1,978	1,000
1337	H-105	Open	False	0.000	20	1,508.05	1722	<Collection: 0 items>	0	1,721.69	92	True	2,070	1,000
1349	H-117	Open	False	0.000	20	1,544.32	1712 W	<Collection: 0 items>	0	1,708.05	71	True	2,132	1,000
1328	H-96	Open	False	0.000	20	1,308.29	1470	<Collection: 0 items>	0	1,469.54	70	True	2,170	1,000

FlexTable: Hydrant Table

ID	Label	Hydrant Status	Include Hydrant Lateral Loss?	Emitter Coefficient (gpm/psi^n)	Length (Hydrant Lateral) (ft)	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Satisfies Fire Flow Constraints?	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)
1347	H-115	Open	False	0.000	20	1,609.54	1924	<Collection: 0 items>	0	1,879.45	117	True	2,190	1,000
1330	H-98	Open	False	0.000	20	1,377.73	1722	<Collection: 0 items>	0	1,713.14	145	True	2,201	1,000
1310	H-78	Open	False	0.000	20	1,208.48	1454	<Collection: 0 items>	0	1,452.60	106	True	2,209	1,000
1344	H-112	Open	False	0.000	20	1,654.95	1924	<Collection: 0 items>	0	1,886.10	100	True	2,254	1,000
1332	H-100	Open	False	0.000	20	1,326.41	1470	<Collection: 0 items>	0	1,470.02	62	True	2,256	1,000
1323	H-91	Open	False	0.000	20	1,190.92	1470	<Collection: 0 items>	0	1,468.76	120	True	2,262	1,000
1325	H-93	Open	False	0.000	20	1,130.69	1470	<Collection: 0 items>	0	1,468.89	146	True	2,295	1,000
1341	H-109	Open	False	0.000	20	1,524.59	1722	<Collection: 0 items>	0	1,718.51	84	True	2,321	1,000
1716	H-149	Open	False	0.000	20	1,396.16	1722	<Collection: 0 items>	0	1,714.46	138	True	2,348	1,000
1342	H-110	Open	False	0.000	20	1,674.11	1924	<Collection: 0 items>	0	1,891.92	94	True	2,368	1,000
1309	H-77	Open	False	0.000	20	1,281.14	1454	<Collection: 0 items>	0	1,453.27	74	True	2,372	1,000
1326	H-94	Open	False	0.000	20	1,129.78	1470	<Collection: 0 items>	0	1,468.92	147	True	2,410	1,000
1327	H-95	Open	False	0.000	20	1,172.07	1470	<Collection: 0 items>	0	1,469.07	128	True	2,410	1,000
54	H-13	Open	False	0.000	20	1,257.19	1470	<Collection: 0 items>	0	1,469.32	92	True	2,410	1,000
1308	H-76	Open	False	0.000	20	1,192.64	1454	<Collection: 0 items>	0	1,453.26	113	True	2,417	1,000
1346	H-114	Open	False	0.000	20	1,642.55	1924	<Collection: 0 items>	0	1,882.93	104	True	2,440	1,000
1331	H-99	Open	False	0.000	20	1,353.73	1470	<Collection: 0 items>	0	1,470.04	50	True	2,470	1,000
1333	H-101	Open	False	0.000	20	1,208.54	1470	<Collection: 0 items>	0	1,470.01	113	True	2,507	1,000
1339	H-107	Open	False	0.000	20	1,570.38	1722	<Collection: 0 items>	0	1,721.83	66	True	2,521	1,000
1338	H-106	Open	False	0.000	20	1,518.04	1722	<Collection: 0 items>	0	1,721.79	88	True	2,646	1,000
1335	H-103	Open	False	0.000	20	1,461.38	1722	<Collection: 0 items>	0	1,716.53	110	True	2,763	1,000
1340	H-108	Open	False	0.000	20	1,603.64	1722	<Collection: 0 items>	0	1,721.81	51	True	2,918	1,000
1343	H-111	Open	False	0.000	20	1,676.18	1924	<Collection: 0 items>	0	1,888.97	92	True	3,064	1,000
1351	H-119	Open	False	0.000	20	1,499.93	1712 W	<Collection: 0 items>	0	1,710.08	91	True	3,263	1,000
1348	H-116	Open	False	0.000	20	1,504.01	1712 W	<Collection: 0 items>	0	1,708.68	89	True	3,429	1,000
1350	H-118	Open	False	0.000	20	1,500.87	1712 W	<Collection: 0 items>	0	1,710.33	91	True	3,500	1,000
1352	H-120	Open	False	0.000	20	1,564.95	1712 W	<Collection: 0 items>	0	1,712.20	64	True	3,500	1,000
1353	H-121	Open	False	0.000	20	1,706.00	1924	<Collection: 0 items>	0	1,903.48	85	True	3,500	1,000
1684	H-148	Open	False	0.000	20	1,685.05	1924	<Collection: 0 items>	0	1,924.77	104	True	3,500	1,000

FlexTable: Customer Meter Table

ID	Label	Associated Element	Demand (Base) (gpm)	Pattern (Demand)	Is Active?	Elevation (ft)	Zone	Hydraulic Grade (ft)	Pressure (psi)	Unit Demand
752	CU-313	P-18(1)(1)	3.33	Fixed	True	1,555.32	1924	(N/A)	(N/A)	<None>
753	CU-314	P-18(1)(1)	3.33	Fixed	True	1,542.86	1924	(N/A)	(N/A)	<None>
754	CU-315	P-18(1)(1)	3.33	Fixed	True	1,589.86	1924	(N/A)	(N/A)	<None>
755	CU-316	P-195	3.33	Fixed	True	1,642.34	1924	(N/A)	(N/A)	<None>
756	CU-317	P-18(1)(2)	3.33	Fixed	True	1,577.56	1924	(N/A)	(N/A)	<None>
757	CU-318	P-18(1)(2)	3.33	Fixed	True	1,603.75	1924	(N/A)	(N/A)	<None>
758	CU-319	P-18(1)(2)	3.33	Fixed	True	1,648.68	1924	(N/A)	(N/A)	<None>
759	CU-320	J-147	3.33	Fixed	True	1,658.06	1924	(N/A)	(N/A)	<None>
760	CU-321	P-19	3.33	Fixed	True	1,655.72	1924	(N/A)	(N/A)	<None>
761	CU-322	P-22(1)	3.33	Fixed	True	1,649.90	1924	(N/A)	(N/A)	<None>
762	CU-323	P-22(1)	3.33	Fixed	True	1,633.49	1924	(N/A)	(N/A)	<None>
763	CU-324	P-191	3.33	Fixed	True	1,609.53	1924	(N/A)	(N/A)	<None>
764	CU-325	P-22(2)	3.33	Fixed	True	1,574.85	1924	(N/A)	(N/A)	<None>
765	CU-326	P-22(2)	3.33	Fixed	True	1,599.32	1924	(N/A)	(N/A)	<None>
766	CU-327	P-20(1)	3.33	Fixed	True	1,623.23	1924	(N/A)	(N/A)	<None>
767	CU-328	P-20(1)	3.33	Fixed	True	1,676.57	1924	(N/A)	(N/A)	<None>
768	CU-329	P-20(1)	3.33	Fixed	True	1,679.06	1924	(N/A)	(N/A)	<None>
769	CU-330	P-193	3.33	Fixed	True	1,634.53	1924	(N/A)	(N/A)	<None>
770	CU-331	P-20(1)	3.33	Fixed	True	1,632.25	1924	(N/A)	(N/A)	<None>
771	CU-332	P-20(2)	3.33	Fixed	True	1,640.40	1924	(N/A)	(N/A)	<None>
772	CU-333	P-20(2)	3.33	Fixed	True	1,644.72	1924	(N/A)	(N/A)	<None>
773	CU-334	P-20(2)	3.33	Fixed	True	1,601.97	1924	(N/A)	(N/A)	<None>
774	CU-335	P-20(2)	3.33	Fixed	True	1,573.50	1924	(N/A)	(N/A)	<None>
775	CU-336	P-194	3.33	Fixed	True	1,580.16	1924	(N/A)	(N/A)	<None>
776	CU-337	P-194	3.33	Fixed	True	1,626.13	1924	(N/A)	(N/A)	<None>
777	CU-338	P-20(2)	3.33	Fixed	True	1,648.94	1924	(N/A)	(N/A)	<None>
778	CU-339	P-24(1)(1)	3.33	Fixed	True	1,578.45	1924	(N/A)	(N/A)	<None>
779	CU-340	P-23	3.33	Fixed	True	1,597.19	1924	(N/A)	(N/A)	<None>
780	CU-341	P-24(1)(1)	3.33	Fixed	True	1,563.29	1924	(N/A)	(N/A)	<None>
781	CU-342	P-24(1)(1)	3.33	Fixed	True	1,577.96	1924	(N/A)	(N/A)	<None>
782	CU-343	P-24(1)(1)	3.33	Fixed	True	1,545.38	1924	(N/A)	(N/A)	<None>
783	CU-344	P-24(1)(1)	3.33	Fixed	True	1,556.43	1924	(N/A)	(N/A)	<None>
784	CU-345	P-24(1)(1)	3.33	Fixed	True	1,575.28	1924	(N/A)	(N/A)	<None>
785	CU-346	P-24(1)(2)	3.33	Fixed	True	1,654.00	1924	(N/A)	(N/A)	<None>
786	CU-347	P-190	3.33	Fixed	True	1,587.11	1924	(N/A)	(N/A)	<None>
787	CU-348	P-24(1)(2)	3.33	Fixed	True	1,602.30	1924	(N/A)	(N/A)	<None>
788	CU-349	P-24(1)(2)	3.33	Fixed	True	1,609.38	1924	(N/A)	(N/A)	<None>
789	CU-350	P-24(2)	3.33	Fixed	True	1,620.11	1924	(N/A)	(N/A)	<None>
790	CU-351	P-24(2)	3.33	Fixed	True	1,630.10	1924	(N/A)	(N/A)	<None>
791	CU-352	P-26	3.33	Fixed	True	1,606.52	1924	(N/A)	(N/A)	<None>
792	CU-353	P-26	3.33	Fixed	True	1,592.87	1924	(N/A)	(N/A)	<None>
793	CU-354	P-26	3.33	Fixed	True	1,566.72	1924	(N/A)	(N/A)	<None>
794	CU-355	P-188	3.33	Fixed	True	1,558.08	1924	(N/A)	(N/A)	<None>
795	CU-356	P-26	3.33	Fixed	True	1,588.53	1924	(N/A)	(N/A)	<None>
796	CU-357	P-26	3.33	Fixed	True	1,584.46	1924	(N/A)	(N/A)	<None>
797	CU-358	P-27	3.33	Fixed	True	1,644.12	1924	(N/A)	(N/A)	<None>
798	CU-359	P-27	3.33	Fixed	True	1,651.02	1924	(N/A)	(N/A)	<None>
799	CU-360	P-29	3.33	Fixed	True	1,681.89	1924	(N/A)	(N/A)	<None>
800	CU-361	P-29	3.33	Fixed	True	1,669.46	1924	(N/A)	(N/A)	<None>
801	CU-362	P-305	3.33	Fixed	True	1,719.76	1924	(N/A)	(N/A)	<None>
802	CU-363	P-305	3.33	Fixed	True	1,706.33	1924	(N/A)	(N/A)	<None>
990	CU-551	J-10	3.33	Fixed	True	1,604.36	1924	(N/A)	(N/A)	<None>
991	CU-552	J-10	3.33	Fixed	True	1,603.37	1924	(N/A)	(N/A)	<None>
992	CU-553	J-10	3.33	Fixed	True	1,647.35	1924	(N/A)	(N/A)	<None>
993	CU-554	P-297	3.33	Fixed	True	1,634.81	1924	(N/A)	(N/A)	<None>
994	CU-555	P-15(2)(1)	3.33	Fixed	True	1,606.50	1924	(N/A)	(N/A)	<None>
995	CU-556	P-15(2)(1)	3.33	Fixed	True	1,608.73	1924	(N/A)	(N/A)	<None>
996	CU-557	P-15(2)(1)	3.33	Fixed	True	1,627.20	1924	(N/A)	(N/A)	<None>

FlexTable: Customer Meter Table

ID	Label	Associated Element	Demand (Base) (gpm)	Pattern (Demand)	Is Active?	Elevation (ft)	Zone	Hydraulic Grade (ft)	Pressure (psi)	Unit Demand
997	CU-558	P-15(2)(1)	3.33	Fixed	True	1,618.24	1924	(N/A)	(N/A)	<None>
998	CU-559	P-15(2)(1)	3.33	Fixed	True	1,624.10	1924	(N/A)	(N/A)	<None>
999	CU-560	P-15(2)(1)	3.33	Fixed	True	1,659.58	1924	(N/A)	(N/A)	<None>
1000	CU-561	J-214	3.33	Fixed	True	1,655.01	1924	(N/A)	(N/A)	<None>
1001	CU-562	P-15(1)	3.33	Fixed	True	1,662.31	1924	(N/A)	(N/A)	<None>
1002	CU-563	P-15(1)	3.33	Fixed	True	1,666.97	1924	(N/A)	(N/A)	<None>
1003	CU-564	P-15(1)	3.33	Fixed	True	1,689.85	1924	(N/A)	(N/A)	<None>
1004	CU-565	P-15(1)	3.33	Fixed	True	1,644.83	1924	(N/A)	(N/A)	<None>
1005	CU-566	P-15(1)	3.33	Fixed	True	1,651.61	1924	(N/A)	(N/A)	<None>
1006	CU-567	P-13(2)	3.33	Fixed	True	1,653.23	1924	(N/A)	(N/A)	<None>
1007	CU-568	P-13(2)	3.33	Fixed	True	1,657.53	1924	(N/A)	(N/A)	<None>
1008	CU-569	P-13(2)	3.33	Fixed	True	1,684.36	1924	(N/A)	(N/A)	<None>
1009	CU-570	P-13(2)	3.33	Fixed	True	1,687.89	1924	(N/A)	(N/A)	<None>
1010	CU-571	P-13(1)	3.33	Fixed	True	1,688.62	1924	(N/A)	(N/A)	<None>
1011	CU-572	P-13(1)	3.33	Fixed	True	1,700.88	1924	(N/A)	(N/A)	<None>
1012	CU-573	P-13(1)	3.33	Fixed	True	1,692.75	1924	(N/A)	(N/A)	<None>
1013	CU-574	P-292	3.33	Fixed	True	1,701.16	1924	(N/A)	(N/A)	<None>
1014	CU-575	P-160	3.33	Fixed	True	1,689.11	1924	(N/A)	(N/A)	<None>
1015	CU-576	P-160	3.33	Fixed	True	1,679.41	1924	(N/A)	(N/A)	<None>
1016	CU-577	P-160	3.33	Fixed	True	1,644.41	1924	(N/A)	(N/A)	<None>
1021	CU-582	J-133	3.33	Fixed	True	1,651.31	1924	(N/A)	(N/A)	<None>
1022	CU-583	P-160	3.33	Fixed	True	1,695.70	1924	(N/A)	(N/A)	<None>
1023	CU-584	P-160	3.33	Fixed	True	1,681.44	1924	(N/A)	(N/A)	<None>
1024	CU-585	P-12	3.33	Fixed	True	1,738.66	1924	(N/A)	(N/A)	<None>
1025	CU-586	P-12	3.33	Fixed	True	1,756.94	1924	(N/A)	(N/A)	<None>
1026	CU-587	P-170	3.33	Fixed	True	1,713.38	1924	(N/A)	(N/A)	<None>
1027	CU-588	P-12	3.33	Fixed	True	1,718.61	1924	(N/A)	(N/A)	<None>
1028	CU-589	P-290	3.33	Fixed	True	1,711.22	1924	(N/A)	(N/A)	<None>
1030	CU-591	P-171	3.33	Fixed	True	1,588.71	1924	(N/A)	(N/A)	<None>
1031	CU-592	P-171	3.33	Fixed	True	1,569.75	1924	(N/A)	(N/A)	<None>
863	CU-424	P-180	3.33	Fixed	True	1,366.44	1722	(N/A)	(N/A)	<None>
864	CU-425	P-180	3.33	Fixed	True	1,372.84	1722	(N/A)	(N/A)	<None>
865	CU-426	J-88	3.33	Fixed	True	1,403.57	1722	(N/A)	(N/A)	<None>
866	CU-427	J-88	3.33	Fixed	True	1,417.03	1722	(N/A)	(N/A)	<None>
867	CU-428	P-175(1)	3.33	Fixed	True	1,399.75	1722	(N/A)	(N/A)	<None>
868	CU-429	P-175(1)	3.33	Fixed	True	1,452.14	1722	(N/A)	(N/A)	<None>
869	CU-430	P-175(1)	3.33	Fixed	True	1,473.04	1722	(N/A)	(N/A)	<None>
870	CU-431	P-181	3.33	Fixed	True	1,402.89	1722	(N/A)	(N/A)	<None>
871	CU-432	P-175(1)	3.33	Fixed	True	1,428.72	1722	(N/A)	(N/A)	<None>
872	CU-433	P-181	3.33	Fixed	True	1,460.83	1722	(N/A)	(N/A)	<None>
873	CU-434	P-175(1)	3.33	Fixed	True	1,468.66	1722	(N/A)	(N/A)	<None>
874	CU-435	P-181	3.33	Fixed	True	1,397.03	1722	(N/A)	(N/A)	<None>
875	CU-436	P-181	3.33	Fixed	True	1,388.05	1722	(N/A)	(N/A)	<None>
923	CU-484	J-90	3.33	Fixed	True	1,366.15	1722	(N/A)	(N/A)	<None>
924	CU-485	J-90	3.33	Fixed	True	1,347.59	1722	(N/A)	(N/A)	<None>
925	CU-486	P-182	3.33	Fixed	True	1,374.61	1722	(N/A)	(N/A)	<None>
926	CU-487	P-181	3.33	Fixed	True	1,354.67	1722	(N/A)	(N/A)	<None>
927	CU-488	P-181	3.33	Fixed	True	1,389.45	1722	(N/A)	(N/A)	<None>
956	CU-517	P-175(1)	3.33	Fixed	True	1,468.84	1722	(N/A)	(N/A)	<None>
957	CU-518	P-175(1)	3.33	Fixed	True	1,476.83	1722	(N/A)	(N/A)	<None>
958	CU-519	P-175(1)	3.33	Fixed	True	1,506.82	1722	(N/A)	(N/A)	<None>
959	CU-520	P-175(1)	3.33	Fixed	True	1,509.53	1722	(N/A)	(N/A)	<None>
960	CU-521	P-166	3.33	Fixed	True	1,534.21	1722	(N/A)	(N/A)	<None>
961	CU-522	P-166	3.33	Fixed	True	1,538.25	1722	(N/A)	(N/A)	<None>
962	CU-523	P-166	3.33	Fixed	True	1,536.69	1722	(N/A)	(N/A)	<None>
963	CU-524	P-166	3.33	Fixed	True	1,588.54	1722	(N/A)	(N/A)	<None>
964	CU-525	P-163(1)	3.33	Fixed	True	1,584.66	1722	(N/A)	(N/A)	<None>
965	CU-526	P-301	3.33	Fixed	True	1,605.39	1722	(N/A)	(N/A)	<None>

FlexTable: Customer Meter Table

ID	Label	Associated Element	Demand (Base) (gpm)	Pattern (Demand)	Is Active?	Elevation (ft)	Zone	Hydraulic Grade (ft)	Pressure (psi)	Unit Demand
966	CU-527	P-163(2)	3.33	Fixed	True	1,611.68	1722	(N/A)	(N/A)	<None>
967	CU-528	P-163(2)	3.33	Fixed	True	1,585.99	1722	(N/A)	(N/A)	<None>
968	CU-529	P-163(2)	3.33	Fixed	True	1,570.49	1722	(N/A)	(N/A)	<None>
969	CU-530	P-163(2)	3.33	Fixed	True	1,550.58	1722	(N/A)	(N/A)	<None>
970	CU-531	P-164(1)	3.33	Fixed	True	1,517.68	1722	(N/A)	(N/A)	<None>
971	CU-532	P-164(1)	3.33	Fixed	True	1,531.52	1722	(N/A)	(N/A)	<None>
972	CU-533	P-164(1)	3.33	Fixed	True	1,511.67	1722	(N/A)	(N/A)	<None>
973	CU-534	P-163(1)	3.33	Fixed	True	1,635.58	1722	(N/A)	(N/A)	<None>
974	CU-535	P-163(1)	3.33	Fixed	True	1,596.47	1722	(N/A)	(N/A)	<None>
975	CU-536	P-163(1)	3.33	Fixed	True	1,582.32	1722	(N/A)	(N/A)	<None>
976	CU-537	P-163(2)	3.33	Fixed	True	1,587.75	1722	(N/A)	(N/A)	<None>
977	CU-538	P-163(2)	3.33	Fixed	True	1,552.70	1722	(N/A)	(N/A)	<None>
978	CU-539	P-164(1)	3.33	Fixed	True	1,517.77	1722	(N/A)	(N/A)	<None>
979	CU-540	P-164(1)	3.33	Fixed	True	1,515.46	1722	(N/A)	(N/A)	<None>
980	CU-541	P-164(1)	3.33	Fixed	True	1,516.24	1722	(N/A)	(N/A)	<None>
981	CU-542	P-164(2)	3.33	Fixed	True	1,530.39	1722	(N/A)	(N/A)	<None>
982	CU-543	P-164(2)	3.33	Fixed	True	1,523.55	1722	(N/A)	(N/A)	<None>
983	CU-544	P-164(2)	3.33	Fixed	True	1,530.85	1722	(N/A)	(N/A)	<None>
984	CU-545	P-298	3.33	Fixed	True	1,487.47	1722	(N/A)	(N/A)	<None>
985	CU-546	J-132	3.33	Fixed	True	1,476.24	1722	(N/A)	(N/A)	<None>
986	CU-547	J-132	3.33	Fixed	True	1,498.97	1722	(N/A)	(N/A)	<None>
987	CU-548	P-164(2)	3.33	Fixed	True	1,518.05	1722	(N/A)	(N/A)	<None>
988	CU-549	P-164(2)	3.33	Fixed	True	1,528.96	1722	(N/A)	(N/A)	<None>
989	CU-550	P-164(2)	3.33	Fixed	True	1,528.22	1722	(N/A)	(N/A)	<None>
1017	CU-578	P-166	3.33	Fixed	True	1,637.68	1722	(N/A)	(N/A)	<None>
1018	CU-579	P-166	3.33	Fixed	True	1,597.53	1722	(N/A)	(N/A)	<None>
1019	CU-580	P-166	3.33	Fixed	True	1,565.84	1722	(N/A)	(N/A)	<None>
1020	CU-581	J-127	3.33	Fixed	True	1,558.61	1712 W	(N/A)	(N/A)	<None>
1029	CU-590	P-169(1)(2)	3.33	Fixed	True	1,554.55	1712 W	(N/A)	(N/A)	<None>
1032	CU-593	J-129	3.33	Fixed	True	1,542.11	1712 W	(N/A)	(N/A)	<None>
1033	CU-594	J-129	3.33	Fixed	True	1,505.45	1712 W	(N/A)	(N/A)	<None>
1034	CU-595	J-210	3.33	Fixed	True	1,526.58	1712 W	(N/A)	(N/A)	<None>
1035	CU-596	P-169(1)(2)	3.33	Fixed	True	1,562.01	1712 W	(N/A)	(N/A)	<None>
1036	CU-597	P-169(1)(2)	3.33	Fixed	True	1,555.36	1712 W	(N/A)	(N/A)	<None>
1037	CU-598	J-125	3.33	Fixed	True	1,531.99	1712 W	(N/A)	(N/A)	<None>
1038	CU-599	P-174	3.33	Fixed	True	1,512.90	1712 W	(N/A)	(N/A)	<None>
1039	CU-600	P-173(1)	3.33	Fixed	True	1,513.54	1712 W	(N/A)	(N/A)	<None>
1040	CU-601	P-169(1)(2)	3.33	Fixed	True	1,497.39	1712 W	(N/A)	(N/A)	<None>
1041	CU-602	P-169(1)(2)	3.33	Fixed	True	1,516.98	1712 W	(N/A)	(N/A)	<None>
1042	CU-603	P-169(1)(2)	3.33	Fixed	True	1,531.92	1712 W	(N/A)	(N/A)	<None>
1043	CU-604	P-288	3.33	Fixed	True	1,513.07	1712 W	(N/A)	(N/A)	<None>
1044	CU-605	J-125	3.33	Fixed	True	1,468.17	1712 W	(N/A)	(N/A)	<None>
1045	CU-606	P-174	3.33	Fixed	True	1,483.82	1712 W	(N/A)	(N/A)	<None>
1046	CU-607	P-173(2)	3.33	Fixed	True	1,509.83	1712 W	(N/A)	(N/A)	<None>
1047	CU-608	P-173(2)	3.33	Fixed	True	1,492.52	1712 W	(N/A)	(N/A)	<None>
1048	CU-609	P-286	3.33	Fixed	True	1,481.39	1712 W	(N/A)	(N/A)	<None>
1049	CU-610	P-286	3.33	Fixed	True	1,459.02	1712 W	(N/A)	(N/A)	<None>
1050	CU-611	P-173(1)	3.33	Fixed	True	1,450.52	1712 W	(N/A)	(N/A)	<None>
1051	CU-612	P-173(1)	3.33	Fixed	True	1,487.06	1712 W	(N/A)	(N/A)	<None>
1052	CU-613	P-173(1)	3.33	Fixed	True	1,495.93	1712 W	(N/A)	(N/A)	<None>
1053	CU-614	J-127	3.33	Fixed	True	1,504.19	1712 W	(N/A)	(N/A)	<None>
1054	CU-615	J-127	3.33	Fixed	True	1,531.42	1712 W	(N/A)	(N/A)	<None>
1105	CU-666	P-125(2)	3.33	Fixed	True	1,370.35	1712 E	(N/A)	(N/A)	<None>
1106	CU-667	P-125(2)	3.33	Fixed	True	1,369.91	1712 E	(N/A)	(N/A)	<None>
1107	CU-668	P-125(2)	3.33	Fixed	True	1,337.45	1712 E	(N/A)	(N/A)	<None>
1108	CU-669	P-125(2)	3.33	Fixed	True	1,340.69	1712 E	(N/A)	(N/A)	<None>
1109	CU-670	P-125(2)	3.33	Fixed	True	1,377.66	1712 E	(N/A)	(N/A)	<None>
1110	CU-671	P-125(2)	3.33	Fixed	True	1,402.21	1712 E	(N/A)	(N/A)	<None>

FlexTable: Customer Meter Table

ID	Label	Associated Element	Demand (Base) (gpm)	Pattern (Demand)	Is Active?	Elevation (ft)	Zone	Hydraulic Grade (ft)	Pressure (psi)	Unit Demand
1111	CU-672	J-187	3.33	Fixed	True	1,384.53	1712 E	(N/A)	(N/A)	<None>
1112	CU-673	P-125(1)	3.33	Fixed	True	1,354.95	1712 E	(N/A)	(N/A)	<None>
1113	CU-674	P-125(1)	3.33	Fixed	True	1,391.01	1712 E	(N/A)	(N/A)	<None>
1114	CU-675	P-125(1)	3.33	Fixed	True	1,369.63	1712 E	(N/A)	(N/A)	<None>
1115	CU-676	P-125(1)	3.33	Fixed	True	1,426.14	1712 E	(N/A)	(N/A)	<None>
1116	CU-677	P-125(1)	3.33	Fixed	True	1,389.35	1712 E	(N/A)	(N/A)	<None>
1117	CU-678	P-125(1)	3.33	Fixed	True	1,419.47	1712 E	(N/A)	(N/A)	<None>
1118	CU-679	P-126(1)	3.33	Fixed	True	1,371.75	1712 E	(N/A)	(N/A)	<None>
1119	CU-680	P-126(2)(1)	3.33	Fixed	True	1,409.36	1712 E	(N/A)	(N/A)	<None>
1120	CU-681	P-126(2)(1)	3.33	Fixed	True	1,466.46	1712 E	(N/A)	(N/A)	<None>
1121	CU-682	P-126(2)(1)	3.33	Fixed	True	1,432.65	1712 E	(N/A)	(N/A)	<None>
1122	CU-683	P-251	3.33	Fixed	True	1,444.07	1712 E	(N/A)	(N/A)	<None>
1123	CU-684	P-251	3.33	Fixed	True	1,451.09	1712 E	(N/A)	(N/A)	<None>
1124	CU-685	P-126(2)(2)(1)	3.33	Fixed	True	1,434.77	1712 E	(N/A)	(N/A)	<None>
1125	CU-686	P-126(2)(2)(1)	3.33	Fixed	True	1,464.57	1712 E	(N/A)	(N/A)	<None>
1126	CU-687	P-126(2)(2)(1)	3.33	Fixed	True	1,477.75	1712 E	(N/A)	(N/A)	<None>
1127	CU-688	P-252	3.33	Fixed	True	1,515.46	1712 E	(N/A)	(N/A)	<None>
1128	CU-689	P-126(2)(2)(1)	3.33	Fixed	True	1,427.61	1712 E	(N/A)	(N/A)	<None>
1129	CU-690	J-190	3.33	Fixed	True	1,463.10	1712 E	(N/A)	(N/A)	<None>
1130	CU-691	P-126(2)(2)(2)(1)	3.33	Fixed	True	1,448.30	1712 E	(N/A)	(N/A)	<None>
1131	CU-692	P-126(2)(2)(2)(1)	3.33	Fixed	True	1,434.18	1712 E	(N/A)	(N/A)	<None>
1132	CU-693	P-126(2)(2)(2)(1)	3.33	Fixed	True	1,506.85	1712 E	(N/A)	(N/A)	<None>
1133	CU-694	P-126(2)(2)(2)(1)	3.33	Fixed	True	1,435.93	1712 E	(N/A)	(N/A)	<None>
1134	CU-695	P-126(2)(2)(2)(1)	3.33	Fixed	True	1,462.50	1712 E	(N/A)	(N/A)	<None>
1135	CU-696	P-126(2)(2)(2)(2)	3.33	Fixed	True	1,489.11	1712 E	(N/A)	(N/A)	<None>
1136	CU-697	P-126(2)(2)(2)(2)	3.33	Fixed	True	1,535.69	1712 E	(N/A)	(N/A)	<None>
1137	CU-698	P-126(2)(2)(2)(2)	3.33	Fixed	True	1,505.16	1712 E	(N/A)	(N/A)	<None>
1138	CU-699	P-126(2)(2)(2)(2)	3.33	Fixed	True	1,510.99	1712 E	(N/A)	(N/A)	<None>
1139	CU-700	P-126(2)(2)(2)(2)	3.33	Fixed	True	1,507.97	1712 E	(N/A)	(N/A)	<None>
1140	CU-701	P-126(2)(2)(2)(2)	3.33	Fixed	True	1,500.16	1712 E	(N/A)	(N/A)	<None>
1141	CU-702	P-129	3.33	Fixed	True	1,489.08	1712 E	(N/A)	(N/A)	<None>
1142	CU-703	P-127	3.33	Fixed	True	1,540.53	1712 E	(N/A)	(N/A)	<None>
1143	CU-704	P-129	3.33	Fixed	True	1,534.97	1712 E	(N/A)	(N/A)	<None>
1144	CU-705	P-129	3.33	Fixed	True	1,487.06	1712 E	(N/A)	(N/A)	<None>
1145	CU-706	P-127	3.33	Fixed	True	1,596.02	1712 E	(N/A)	(N/A)	<None>
1146	CU-707	J-101	3.33	Fixed	True	1,588.91	1712 E	(N/A)	(N/A)	<None>
1147	CU-708	P-255	3.33	Fixed	True	1,616.03	1712 E	(N/A)	(N/A)	<None>
1148	CU-709	J-102	3.33	Fixed	True	1,603.41	1712 E	(N/A)	(N/A)	<None>
1149	CU-710	J-102	3.33	Fixed	True	1,640.00	1712 E	(N/A)	(N/A)	<None>
1150	CU-711	J-102	3.33	Fixed	True	1,620.65	1712 E	(N/A)	(N/A)	<None>
1151	CU-712	P-129	3.33	Fixed	True	1,528.61	1712 E	(N/A)	(N/A)	<None>
1152	CU-713	P-129	3.33	Fixed	True	1,477.29	1712 E	(N/A)	(N/A)	<None>
1153	CU-714	P-129	3.33	Fixed	True	1,483.31	1712 E	(N/A)	(N/A)	<None>
1154	CU-715	P-130	3.33	Fixed	True	1,528.03	1712 E	(N/A)	(N/A)	<None>
1155	CU-716	P-133	3.33	Fixed	True	1,514.18	1712 E	(N/A)	(N/A)	<None>
1156	CU-717	P-130	3.33	Fixed	True	1,525.57	1712 E	(N/A)	(N/A)	<None>
1157	CU-718	P-130	3.33	Fixed	True	1,549.77	1712 E	(N/A)	(N/A)	<None>
1158	CU-719	P-132	3.33	Fixed	True	1,532.07	1712 E	(N/A)	(N/A)	<None>

FlexTable: Customer Meter Table

ID	Label	Associated Element	Demand (Base) (gpm)	Pattern (Demand)	Is Active?	Elevation (ft)	Zone	Hydraulic Grade (ft)	Pressure (psi)	Unit Demand
1159	CU-720	P-258	3.33	Fixed	True	1,546.75	1712 E	(N/A)	(N/A)	<None>
1160	CU-721	J-107	3.33	Fixed	True	1,542.86	1712 E	(N/A)	(N/A)	<None>
1161	CU-722	J-107	3.33	Fixed	True	1,529.00	1712 E	(N/A)	(N/A)	<None>
1162	CU-723	J-107	3.33	Fixed	True	1,552.00	1712 E	(N/A)	(N/A)	<None>
1163	CU-724	P-135	3.33	Fixed	True	1,512.69	1712 E	(N/A)	(N/A)	<None>
1164	CU-725	P-133	3.33	Fixed	True	1,509.71	1712 E	(N/A)	(N/A)	<None>
1165	CU-726	P-135	3.33	Fixed	True	1,486.90	1712 E	(N/A)	(N/A)	<None>
1166	CU-727	P-135	3.33	Fixed	True	1,485.62	1712 E	(N/A)	(N/A)	<None>
1167	CU-728	P-135	3.33	Fixed	True	1,489.91	1712 E	(N/A)	(N/A)	<None>
1168	CU-729	P-136	3.33	Fixed	True	1,491.54	1712 E	(N/A)	(N/A)	<None>
1169	CU-730	P-136	3.33	Fixed	True	1,492.39	1712 E	(N/A)	(N/A)	<None>
1170	CU-731	P-137	3.33	Fixed	True	1,501.15	1712 E	(N/A)	(N/A)	<None>
1171	CU-732	P-139	3.33	Fixed	True	1,565.78	1712 E	(N/A)	(N/A)	<None>
1172	CU-733	P-138	3.33	Fixed	True	1,524.56	1712 E	(N/A)	(N/A)	<None>
1173	CU-734	P-139	3.33	Fixed	True	1,589.01	1712 E	(N/A)	(N/A)	<None>
1174	CU-735	P-139	3.33	Fixed	True	1,548.69	1712 E	(N/A)	(N/A)	<None>
1175	CU-736	P-139	3.33	Fixed	True	1,589.44	1712 E	(N/A)	(N/A)	<None>
1176	CU-737	P-139	3.33	Fixed	True	1,608.79	1712 E	(N/A)	(N/A)	<None>
1177	CU-738	J-113	3.33	Fixed	True	1,526.35	1712 E	(N/A)	(N/A)	<None>
1178	CU-739	J-113	3.33	Fixed	True	1,563.55	1712 E	(N/A)	(N/A)	<None>
1179	CU-740	P-261	3.33	Fixed	True	1,465.00	1712 E	(N/A)	(N/A)	<None>
1180	CU-741	P-143	3.33	Fixed	True	1,465.29	1712 E	(N/A)	(N/A)	<None>
1181	CU-742	J-114	3.33	Fixed	True	1,459.97	1712 E	(N/A)	(N/A)	<None>
1182	CU-743	P-143	3.33	Fixed	True	1,409.78	1712 E	(N/A)	(N/A)	<None>
1183	CU-744	P-143	3.33	Fixed	True	1,415.85	1712 E	(N/A)	(N/A)	<None>
1184	CU-745	P-142	3.33	Fixed	True	1,455.62	1712 E	(N/A)	(N/A)	<None>
1185	CU-746	P-144(1)	3.33	Fixed	True	1,458.12	1712 E	(N/A)	(N/A)	<None>
1186	CU-747	P-144(1)	3.33	Fixed	True	1,444.18	1712 E	(N/A)	(N/A)	<None>
1187	CU-748	P-144(2)	3.33	Fixed	True	1,496.13	1712 E	(N/A)	(N/A)	<None>
1188	CU-749	P-144(2)	3.33	Fixed	True	1,491.16	1712 E	(N/A)	(N/A)	<None>
1189	CU-750	P-145	3.33	Fixed	True	1,498.86	1712 E	(N/A)	(N/A)	<None>
1190	CU-751	P-145	3.33	Fixed	True	1,507.08	1712 E	(N/A)	(N/A)	<None>
1191	CU-752	J-103	3.33	Fixed	True	1,486.64	1712 E	(N/A)	(N/A)	<None>
1192	CU-753	J-103	3.33	Fixed	True	1,441.60	1712 E	(N/A)	(N/A)	<None>
1193	CU-754	P-145	3.33	Fixed	True	1,493.62	1712 E	(N/A)	(N/A)	<None>
1194	CU-755	P-144(2)	3.33	Fixed	True	1,489.05	1712 E	(N/A)	(N/A)	<None>
1195	CU-756	P-144(2)	3.33	Fixed	True	1,476.62	1712 E	(N/A)	(N/A)	<None>
1196	CU-757	P-144(2)	3.33	Fixed	True	1,466.73	1712 E	(N/A)	(N/A)	<None>
1197	CU-758	P-144(2)	3.33	Fixed	True	1,471.29	1712 E	(N/A)	(N/A)	<None>
1198	CU-759	P-144(1)	3.33	Fixed	True	1,462.38	1712 E	(N/A)	(N/A)	<None>
1199	CU-760	P-144(1)	3.33	Fixed	True	1,444.12	1712 E	(N/A)	(N/A)	<None>
1200	CU-761	P-144(1)	3.33	Fixed	True	1,439.66	1712 E	(N/A)	(N/A)	<None>
646	CU-207	P-50	3.33	Fixed	True	1,360.84	1677	(N/A)	(N/A)	<None>
647	CU-208	P-49	3.33	Fixed	True	1,393.78	1677	(N/A)	(N/A)	<None>
648	CU-209	J-33	3.33	Fixed	True	1,424.16	1677	(N/A)	(N/A)	<None>
649	CU-210	P-45	3.33	Fixed	True	1,435.03	1677	(N/A)	(N/A)	<None>
650	CU-211	P-45	3.33	Fixed	True	1,459.25	1677	(N/A)	(N/A)	<None>
651	CU-212	P-210	3.33	Fixed	True	1,508.42	1677	(N/A)	(N/A)	<None>
652	CU-213	P-43	3.33	Fixed	True	1,540.55	1677	(N/A)	(N/A)	<None>
653	CU-214	P-43	3.33	Fixed	True	1,569.02	1677	(N/A)	(N/A)	<None>
654	CU-215	P-43	3.33	Fixed	True	1,578.44	1677	(N/A)	(N/A)	<None>
655	CU-216	P-43	3.33	Fixed	True	1,541.35	1677	(N/A)	(N/A)	<None>
656	CU-217	P-43	3.33	Fixed	True	1,527.22	1677	(N/A)	(N/A)	<None>
657	CU-218	P-43	3.33	Fixed	True	1,510.49	1677	(N/A)	(N/A)	<None>
658	CU-219	P-42(2)(2)	3.33	Fixed	True	1,482.52	1677	(N/A)	(N/A)	<None>
659	CU-220	P-42(2)(2)	3.33	Fixed	True	1,500.38	1677	(N/A)	(N/A)	<None>
660	CU-221	P-42(2)(2)	3.33	Fixed	True	1,453.09	1677	(N/A)	(N/A)	<None>
661	CU-222	P-42(2)(2)	3.33	Fixed	True	1,515.48	1677	(N/A)	(N/A)	<None>

FlexTable: Customer Meter Table

ID	Label	Associated Element	Demand (Base) (gpm)	Pattern (Demand)	Is Active?	Elevation (ft)	Zone	Hydraulic Grade (ft)	Pressure (psi)	Unit Demand
662	CU-223	P-42(2)(1)	3.33	Fixed	True	1,527.72	1677	(N/A)	(N/A)	<None>
663	CU-224	P-45	3.33	Fixed	True	1,412.33	1677	(N/A)	(N/A)	<None>
664	CU-225	P-46	3.33	Fixed	True	1,424.62	1677	(N/A)	(N/A)	<None>
665	CU-226	J-31	3.33	Fixed	True	1,447.48	1677	(N/A)	(N/A)	<None>
666	CU-227	J-31	3.33	Fixed	True	1,459.70	1677	(N/A)	(N/A)	<None>
667	CU-228	P-46	3.33	Fixed	True	1,441.48	1677	(N/A)	(N/A)	<None>
668	CU-229	P-46	3.33	Fixed	True	1,405.14	1677	(N/A)	(N/A)	<None>
685	CU-246	P-42(2)(1)	3.33	Fixed	True	1,536.22	1677	(N/A)	(N/A)	<None>
686	CU-247	P-208	3.33	Fixed	True	1,540.66	1677	(N/A)	(N/A)	<None>
687	CU-248	P-42(1)	3.33	Fixed	True	1,545.96	1677	(N/A)	(N/A)	<None>
688	CU-249	P-42(1)	3.33	Fixed	True	1,547.78	1677	(N/A)	(N/A)	<None>
689	CU-250	P-42(1)	3.33	Fixed	True	1,541.25	1677	(N/A)	(N/A)	<None>
690	CU-251	P-42(1)	3.33	Fixed	True	1,525.00	1677	(N/A)	(N/A)	<None>
691	CU-252	P-40	3.33	Fixed	True	1,543.43	1677	(N/A)	(N/A)	<None>
692	CU-253	P-39(2)(2)	3.33	Fixed	True	1,455.20	1677	(N/A)	(N/A)	<None>
693	CU-254	P-207	3.33	Fixed	True	1,542.10	1677	(N/A)	(N/A)	<None>
694	CU-255	P-39(2)(1)	3.33	Fixed	True	1,533.14	1677	(N/A)	(N/A)	<None>
695	CU-256	P-39(2)(1)	3.33	Fixed	True	1,469.83	1677	(N/A)	(N/A)	<None>
696	CU-257	P-39(2)(1)	3.33	Fixed	True	1,529.41	1677	(N/A)	(N/A)	<None>
697	CU-258	P-39(2)(1)	3.33	Fixed	True	1,438.30	1677	(N/A)	(N/A)	<None>
698	CU-259	P-39(2)(1)	3.33	Fixed	True	1,418.86	1677	(N/A)	(N/A)	<None>
699	CU-260	P-38(2)(2)(2)(2)(2)(2)	3.33	Fixed	True	1,475.06	1677	(N/A)	(N/A)	<None>
700	CU-261	P-38(2)(2)(2)(2)(2)(2)	3.33	Fixed	True	1,420.70	1677	(N/A)	(N/A)	<None>
701	CU-262	P-205	3.33	Fixed	True	1,426.55	1677	(N/A)	(N/A)	<None>
702	CU-263	P-38(2)(2)(2)(2)(2)(1)	3.33	Fixed	True	1,440.29	1677	(N/A)	(N/A)	<None>
703	CU-264	P-38(2)(2)(2)(2)(2)(1)	3.33	Fixed	True	1,439.11	1677	(N/A)	(N/A)	<None>
704	CU-265	P-38(2)(2)(2)(2)(2)(1)	3.33	Fixed	True	1,449.67	1677	(N/A)	(N/A)	<None>
705	CU-266	P-38(2)(2)(2)(2)(2)(1)	3.33	Fixed	True	1,455.73	1677	(N/A)	(N/A)	<None>
706	CU-267	P-204	3.33	Fixed	True	1,446.06	1677	(N/A)	(N/A)	<None>
707	CU-268	P-38(2)(2)(2)(2)(1)	3.33	Fixed	True	1,464.28	1677	(N/A)	(N/A)	<None>
708	CU-269	P-38(2)(2)(2)(2)(1)	3.33	Fixed	True	1,442.79	1677	(N/A)	(N/A)	<None>
709	CU-270	P-38(2)(2)(2)(2)(1)	3.33	Fixed	True	1,439.90	1677	(N/A)	(N/A)	<None>
710	CU-271	P-38(2)(2)(2)(2)(1)	3.33	Fixed	True	1,442.19	1677	(N/A)	(N/A)	<None>
711	CU-272	P-38(2)(2)(2)(2)(1)	3.33	Fixed	True	1,459.84	1677	(N/A)	(N/A)	<None>
712	CU-273	P-203	3.33	Fixed	True	1,439.08	1677	(N/A)	(N/A)	<None>
713	CU-274	P-38(2)(2)(2)(2)(1)	3.33	Fixed	True	1,443.44	1677	(N/A)	(N/A)	<None>
714	CU-275	P-38(2)(2)(2)(2)(1)	3.33	Fixed	True	1,416.89	1677	(N/A)	(N/A)	<None>
715	CU-276	P-38(2)(2)(2)(1)	3.33	Fixed	True	1,428.46	1677	(N/A)	(N/A)	<None>
716	CU-277	P-38(2)(2)(2)(1)	3.33	Fixed	True	1,434.96	1677	(N/A)	(N/A)	<None>
717	CU-278	P-38(2)(2)(2)(1)	3.33	Fixed	True	1,449.84	1677	(N/A)	(N/A)	<None>
718	CU-279	P-38(2)(2)(1)	3.33	Fixed	True	1,506.51	1677	(N/A)	(N/A)	<None>
719	CU-280	P-38(2)(2)(2)(1)	3.33	Fixed	True	1,476.79	1677	(N/A)	(N/A)	<None>
720	CU-281	P-38(2)(2)(1)	3.33	Fixed	True	1,504.07	1677	(N/A)	(N/A)	<None>
721	CU-282	P-38(2)(2)(1)	3.33	Fixed	True	1,508.66	1677	(N/A)	(N/A)	<None>
722	CU-283	P-38(2)(2)(1)	3.33	Fixed	True	1,521.45	1677	(N/A)	(N/A)	<None>
723	CU-284	P-38(2)(1)	3.33	Fixed	True	1,529.32	1677	(N/A)	(N/A)	<None>
724	CU-285	P-38(2)(1)	3.33	Fixed	True	1,568.72	1677	(N/A)	(N/A)	<None>

FlexTable: Customer Meter Table										
ID	Label	Associated Element	Demand (Base) (gpm)	Pattern (Demand)	Is Active?	Elevation (ft)	Zone	Hydraulic Grade (ft)	Pressure (psi)	Unit Demand
725	CU-286	P-38(2)(1)	3.33	Fixed	True	1,542.43	1677	(N/A)	(N/A)	<None>
726	CU-287	P-38(2)(1)	3.33	Fixed	True	1,539.53	1677	(N/A)	(N/A)	<None>
727	CU-288	P-38(2)(1)	3.33	Fixed	True	1,552.18	1677	(N/A)	(N/A)	<None>
728	CU-289	P-38(2)(1)	3.33	Fixed	True	1,512.88	1677	(N/A)	(N/A)	<None>
729	CU-290	P-37(1)	3.33	Fixed	True	1,508.40	1677	(N/A)	(N/A)	<None>
730	CU-291	P-37(1)	3.33	Fixed	True	1,520.70	1677	(N/A)	(N/A)	<None>
731	CU-292	P-37(1)	3.33	Fixed	True	1,510.93	1677	(N/A)	(N/A)	<None>
732	CU-293	P-37(1)	3.33	Fixed	True	1,494.98	1677	(N/A)	(N/A)	<None>
733	CU-294	P-37(1)	3.33	Fixed	True	1,515.92	1677	(N/A)	(N/A)	<None>
734	CU-295	P-37(1)	3.33	Fixed	True	1,513.16	1677	(N/A)	(N/A)	<None>
735	CU-296	P-37(1)	3.33	Fixed	True	1,536.81	1677	(N/A)	(N/A)	<None>
736	CU-297	P-36(2)	3.33	Fixed	True	1,512.99	1677	(N/A)	(N/A)	<None>
737	CU-298	P-32	3.33	Fixed	True	1,520.53	1677	(N/A)	(N/A)	<None>
738	CU-299	P-36(2)	3.33	Fixed	True	1,521.63	1677	(N/A)	(N/A)	<None>
739	CU-300	P-33(1)	3.33	Fixed	True	1,544.43	1677	(N/A)	(N/A)	<None>
740	CU-301	J-27	3.33	Fixed	True	1,540.21	1677	(N/A)	(N/A)	<None>
741	CU-302	P-35	3.33	Fixed	True	1,530.55	1677	(N/A)	(N/A)	<None>
742	CU-303	P-35	3.33	Fixed	True	1,532.05	1677	(N/A)	(N/A)	<None>
743	CU-304	P-34	3.33	Fixed	True	1,583.12	1677	(N/A)	(N/A)	<None>
744	CU-305	P-34	3.33	Fixed	True	1,602.84	1677	(N/A)	(N/A)	<None>
745	CU-306	J-22	3.33	Fixed	True	1,601.89	1677	(N/A)	(N/A)	<None>
746	CU-307	J-22	3.33	Fixed	True	1,541.75	1677	(N/A)	(N/A)	<None>
747	CU-308	J-22	3.33	Fixed	True	1,560.36	1677	(N/A)	(N/A)	<None>
748	CU-309	P-34	3.33	Fixed	True	1,558.55	1677	(N/A)	(N/A)	<None>
749	CU-310	P-32	3.33	Fixed	True	1,532.65	1677	(N/A)	(N/A)	<None>
750	CU-311	P-32	3.33	Fixed	True	1,536.76	1677	(N/A)	(N/A)	<None>
751	CU-312	P-32	3.33	Fixed	True	1,538.00	1677	(N/A)	(N/A)	<None>
441	CU-2	P-87(2)	3.33	Fixed	True	1,335.40	1550	(N/A)	(N/A)	<None>
442	CU-3	P-89	3.33	Fixed	True	1,351.55	1550	(N/A)	(N/A)	<None>
443	CU-4	P-89	3.33	Fixed	True	1,374.00	1550	(N/A)	(N/A)	<None>
444	CU-5	P-89	3.33	Fixed	True	1,406.03	1550	(N/A)	(N/A)	<None>
445	CU-6	P-91(1)	3.33	Fixed	True	1,408.00	1550	(N/A)	(N/A)	<None>
446	CU-7	P-91(1)	3.33	Fixed	True	1,408.00	1550	(N/A)	(N/A)	<None>
447	CU-8	P-91(2)	3.33	Fixed	True	1,409.15	1550	(N/A)	(N/A)	<None>
448	CU-9	P-91(2)	3.33	Fixed	True	1,408.49	1550	(N/A)	(N/A)	<None>
449	CU-10	P-91(2)	3.33	Fixed	True	1,403.96	1550	(N/A)	(N/A)	<None>
450	CU-11	P-91(2)	3.33	Fixed	True	1,393.98	1550	(N/A)	(N/A)	<None>
451	CU-12	P-91(2)	3.33	Fixed	True	1,376.74	1550	(N/A)	(N/A)	<None>
452	CU-13	J-64	3.33	Fixed	True	1,326.18	1550	(N/A)	(N/A)	<None>
453	CU-14	P-92	3.33	Fixed	True	1,338.84	1550	(N/A)	(N/A)	<None>
454	CU-15	P-92	3.33	Fixed	True	1,326.08	1550	(N/A)	(N/A)	<None>
455	CU-16	P-91(2)	3.33	Fixed	True	1,387.36	1550	(N/A)	(N/A)	<None>
456	CU-17	P-91(2)	3.33	Fixed	True	1,408.32	1550	(N/A)	(N/A)	<None>
457	CU-18	P-91(1)	3.33	Fixed	True	1,413.63	1550	(N/A)	(N/A)	<None>
458	CU-19	P-91(1)	3.33	Fixed	True	1,411.10	1550	(N/A)	(N/A)	<None>
459	CU-20	P-91(1)	3.33	Fixed	True	1,407.52	1550	(N/A)	(N/A)	<None>
460	CU-21	P-91(1)	3.33	Fixed	True	1,406.56	1550	(N/A)	(N/A)	<None>
461	CU-22	P-90	3.33	Fixed	True	1,418.33	1550	(N/A)	(N/A)	<None>
462	CU-23	P-90	3.33	Fixed	True	1,421.16	1550	(N/A)	(N/A)	<None>
463	CU-24	P-90	3.33	Fixed	True	1,422.00	1550	(N/A)	(N/A)	<None>
464	CU-25	J-65	3.33	Fixed	True	1,422.00	1550	(N/A)	(N/A)	<None>
465	CU-26	J-65	3.33	Fixed	True	1,379.93	1550	(N/A)	(N/A)	<None>
466	CU-27	J-65	3.33	Fixed	True	1,400.90	1550	(N/A)	(N/A)	<None>
467	CU-28	P-90	3.33	Fixed	True	1,419.83	1550	(N/A)	(N/A)	<None>
468	CU-29	P-90	3.33	Fixed	True	1,416.45	1550	(N/A)	(N/A)	<None>
469	CU-30	P-90	3.33	Fixed	True	1,420.14	1550	(N/A)	(N/A)	<None>
470	CU-31	P-90	3.33	Fixed	True	1,410.18	1550	(N/A)	(N/A)	<None>
471	CU-32	P-89	3.33	Fixed	True	1,399.07	1550	(N/A)	(N/A)	<None>

FlexTable: Customer Meter Table

ID	Label	Associated Element	Demand (Base) (gpm)	Pattern (Demand)	Is Active?	Elevation (ft)	Zone	Hydraulic Grade (ft)	Pressure (psi)	Unit Demand
472	CU-33	P-89	3.33	Fixed	True	1,374.52	1550	(N/A)	(N/A)	<None>
473	CU-34	P-88(1)	3.33	Fixed	True	1,357.38	1550	(N/A)	(N/A)	<None>
474	CU-35	P-88(1)	3.33	Fixed	True	1,358.65	1550	(N/A)	(N/A)	<None>
475	CU-36	P-227	3.33	Fixed	True	1,362.78	1550	(N/A)	(N/A)	<None>
476	CU-37	P-227	3.33	Fixed	True	1,350.99	1550	(N/A)	(N/A)	<None>
477	CU-38	J-60	3.33	Fixed	True	1,325.90	1550	(N/A)	(N/A)	<None>
478	CU-39	J-60	3.33	Fixed	True	1,351.70	1550	(N/A)	(N/A)	<None>
479	CU-40	J-60	3.33	Fixed	True	1,380.00	1550	(N/A)	(N/A)	<None>
480	CU-41	P-88(2)	3.33	Fixed	True	1,367.52	1550	(N/A)	(N/A)	<None>
481	CU-42	P-88(2)	3.33	Fixed	True	1,357.23	1550	(N/A)	(N/A)	<None>
482	CU-43	P-88(1)	3.33	Fixed	True	1,361.36	1550	(N/A)	(N/A)	<None>
483	CU-44	P-87(2)	3.33	Fixed	True	1,351.51	1550	(N/A)	(N/A)	<None>
484	CU-45	P-87(2)	3.33	Fixed	True	1,322.88	1550	(N/A)	(N/A)	<None>
485	CU-46	P-87(2)	3.33	Fixed	True	1,313.38	1550	(N/A)	(N/A)	<None>
486	CU-47	P-87(2)	3.33	Fixed	True	1,302.72	1550	(N/A)	(N/A)	<None>
487	CU-48	P-87(2)	3.33	Fixed	True	1,293.65	1550	(N/A)	(N/A)	<None>
488	CU-49	P-87(1)(1)	3.33	Fixed	True	1,288.77	1550	(N/A)	(N/A)	<None>
489	CU-50	P-87(1)(1)	3.33	Fixed	True	1,271.73	1550	(N/A)	(N/A)	<None>
490	CU-51	P-87(1)(1)	3.33	Fixed	True	1,271.32	1550	(N/A)	(N/A)	<None>
620	CU-181	J-48	3.33	Fixed	True	1,128.49	1470	(N/A)	(N/A)	<None>
621	CU-182	P-280	3.33	Fixed	True	1,131.44	1470	(N/A)	(N/A)	<None>
622	CU-183	P-69(1)	3.33	Fixed	True	1,137.27	1470	(N/A)	(N/A)	<None>
623	CU-184	P-69(1)	3.33	Fixed	True	1,166.40	1470	(N/A)	(N/A)	<None>
624	CU-185	P-281	3.33	Fixed	True	1,187.21	1470	(N/A)	(N/A)	<None>
625	CU-186	P-69(2)	3.33	Fixed	True	1,203.56	1470	(N/A)	(N/A)	<None>
803	CU-364	P-61(1)	3.33	Fixed	True	1,214.53	1470	(N/A)	(N/A)	<None>
804	CU-365	P-283	3.33	Fixed	True	1,208.25	1470	(N/A)	(N/A)	<None>
805	CU-366	J-44	3.33	Fixed	True	1,197.74	1470	(N/A)	(N/A)	<None>
806	CU-367	J-44	3.33	Fixed	True	1,190.01	1470	(N/A)	(N/A)	<None>
807	CU-368	J-44	3.33	Fixed	True	1,191.23	1470	(N/A)	(N/A)	<None>
808	CU-369	P-61(2)	3.33	Fixed	True	1,189.57	1470	(N/A)	(N/A)	<None>
809	CU-370	P-61(1)	3.33	Fixed	True	1,202.44	1470	(N/A)	(N/A)	<None>
810	CU-371	P-61(1)	3.33	Fixed	True	1,218.67	1470	(N/A)	(N/A)	<None>
811	CU-372	P-61(1)	3.33	Fixed	True	1,224.00	1470	(N/A)	(N/A)	<None>
812	CU-373	P-58(1)	3.33	Fixed	True	1,175.51	1470	(N/A)	(N/A)	<None>
813	CU-374	P-69(2)	3.33	Fixed	True	1,197.81	1470	(N/A)	(N/A)	<None>
819	CU-380	P-69(1)	3.33	Fixed	True	1,188.74	1470	(N/A)	(N/A)	<None>
820	CU-381	P-69(1)	3.33	Fixed	True	1,164.20	1470	(N/A)	(N/A)	<None>
821	CU-382	P-69(1)	3.33	Fixed	True	1,162.10	1470	(N/A)	(N/A)	<None>
822	CU-383	P-70	3.33	Fixed	True	1,165.54	1470	(N/A)	(N/A)	<None>
823	CU-384	P-76(2)(2)	3.33	Fixed	True	1,149.11	1470	(N/A)	(N/A)	<None>
824	CU-385	P-76(2)(1)	3.33	Fixed	True	1,154.35	1470	(N/A)	(N/A)	<None>
825	CU-386	P-76(2)(2)	3.33	Fixed	True	1,125.71	1470	(N/A)	(N/A)	<None>
826	CU-387	P-278	3.33	Fixed	True	1,125.59	1470	(N/A)	(N/A)	<None>
827	CU-388	P-76(2)(1)	3.33	Fixed	True	1,127.28	1470	(N/A)	(N/A)	<None>
828	CU-389	P-76(2)(1)	3.33	Fixed	True	1,154.22	1470	(N/A)	(N/A)	<None>
829	CU-390	P-76(2)(1)	3.33	Fixed	True	1,154.10	1470	(N/A)	(N/A)	<None>
830	CU-391	P-76(2)(1)	3.33	Fixed	True	1,154.76	1470	(N/A)	(N/A)	<None>
831	CU-392	P-277	3.33	Fixed	True	1,202.20	1470	(N/A)	(N/A)	<None>
832	CU-393	P-76(1)	3.33	Fixed	True	1,184.30	1470	(N/A)	(N/A)	<None>
833	CU-394	P-76(1)	3.33	Fixed	True	1,227.40	1470	(N/A)	(N/A)	<None>
834	CU-395	P-76(1)	3.33	Fixed	True	1,203.12	1470	(N/A)	(N/A)	<None>
835	CU-396	P-76(1)	3.33	Fixed	True	1,221.02	1470	(N/A)	(N/A)	<None>
836	CU-397	P-76(1)	3.33	Fixed	True	1,271.83	1470	(N/A)	(N/A)	<None>
837	CU-398	P-78	3.33	Fixed	True	1,259.62	1470	(N/A)	(N/A)	<None>
838	CU-399	P-77	3.33	Fixed	True	1,264.75	1470	(N/A)	(N/A)	<None>
839	CU-400	P-78	3.33	Fixed	True	1,281.38	1470	(N/A)	(N/A)	<None>
840	CU-401	P-276	3.33	Fixed	True	1,312.55	1470	(N/A)	(N/A)	<None>

FlexTable: Customer Meter Table

ID	Label	Associated Element	Demand (Base) (gpm)	Pattern (Demand)	Is Active?	Elevation (ft)	Zone	Hydraulic Grade (ft)	Pressure (psi)	Unit Demand
841	CU-402	P-78	3.33	Fixed	True	1,316.49	1470	(N/A)	(N/A)	<None>
842	CU-403	P-179	3.33	Fixed	True	1,368.71	1470	(N/A)	(N/A)	<None>
843	CU-404	P-68	3.33	Fixed	True	1,231.45	1470	(N/A)	(N/A)	<None>
844	CU-405	P-67	3.33	Fixed	True	1,259.49	1470	(N/A)	(N/A)	<None>
845	CU-406	P-67	3.33	Fixed	True	1,231.88	1470	(N/A)	(N/A)	<None>
846	CU-407	P-58(1)	3.33	Fixed	True	1,230.45	1470	(N/A)	(N/A)	<None>
847	CU-408	P-58(1)	3.33	Fixed	True	1,231.80	1470	(N/A)	(N/A)	<None>
848	CU-409	P-58(1)	3.33	Fixed	True	1,231.58	1470	(N/A)	(N/A)	<None>
849	CU-410	P-58(1)	3.33	Fixed	True	1,180.28	1470	(N/A)	(N/A)	<None>
850	CU-411	P-58(1)	3.33	Fixed	True	1,178.33	1470	(N/A)	(N/A)	<None>
851	CU-412	P-69(2)	3.33	Fixed	True	1,228.60	1470	(N/A)	(N/A)	<None>
852	CU-413	P-179	3.33	Fixed	True	1,345.37	1470	(N/A)	(N/A)	<None>
853	CU-414	P-107	3.33	Fixed	True	1,347.26	1470	(N/A)	(N/A)	<None>
854	CU-415	P-79	3.33	Fixed	True	1,334.38	1470	(N/A)	(N/A)	<None>
855	CU-416	P-79	3.33	Fixed	True	1,313.36	1470	(N/A)	(N/A)	<None>
856	CU-417	P-79	3.33	Fixed	True	1,277.11	1470	(N/A)	(N/A)	<None>
857	CU-418	P-79	3.33	Fixed	True	1,281.68	1470	(N/A)	(N/A)	<None>
858	CU-419	J-78	3.33	Fixed	True	1,267.65	1470	(N/A)	(N/A)	<None>
859	CU-420	J-78	3.33	Fixed	True	1,279.76	1470	(N/A)	(N/A)	<None>
860	CU-421	J-78	3.33	Fixed	True	1,270.41	1470	(N/A)	(N/A)	<None>
861	CU-422	P-178	3.33	Fixed	True	1,384.75	1470	(N/A)	(N/A)	<None>
862	CU-423	P-178	3.33	Fixed	True	1,393.92	1470	(N/A)	(N/A)	<None>
876	CU-437	P-108(1)(1)(2)	3.33	Fixed	True	1,370.82	1470	(N/A)	(N/A)	<None>
877	CU-438	P-107	3.33	Fixed	True	1,364.77	1470	(N/A)	(N/A)	<None>
878	CU-439	P-108(1)(1)(1)	3.33	Fixed	True	1,333.87	1470	(N/A)	(N/A)	<None>
879	CU-440	P-273	3.33	Fixed	True	1,320.67	1470	(N/A)	(N/A)	<None>
880	CU-441	P-108(1)(1)(2)	3.33	Fixed	True	1,302.39	1470	(N/A)	(N/A)	<None>
881	CU-442	P-108(1)(2)	3.33	Fixed	True	1,257.67	1470	(N/A)	(N/A)	<None>
882	CU-443	P-108(1)(2)	3.33	Fixed	True	1,237.58	1470	(N/A)	(N/A)	<None>
883	CU-444	P-108(1)(2)	3.33	Fixed	True	1,232.72	1470	(N/A)	(N/A)	<None>
884	CU-445	P-108(1)(2)	3.33	Fixed	True	1,213.73	1470	(N/A)	(N/A)	<None>
885	CU-446	P-108(2)	3.33	Fixed	True	1,164.57	1470	(N/A)	(N/A)	<None>
886	CU-447	P-108(2)	3.33	Fixed	True	1,146.38	1470	(N/A)	(N/A)	<None>
918	CU-479	P-108(2)	3.33	Fixed	True	1,143.01	1470	(N/A)	(N/A)	<None>
919	CU-480	P-108(2)	3.33	Fixed	True	1,179.40	1470	(N/A)	(N/A)	<None>
921	CU-482	P-271	3.33	Fixed	True	1,256.64	1470	(N/A)	(N/A)	<None>
922	CU-483	P-272	3.33	Fixed	True	1,380.29	1470	(N/A)	(N/A)	<None>
907	CU-468	P-117	3.33	Fixed	True	1,139.18	1454	(N/A)	(N/A)	<None>
908	CU-469	P-119	3.33	Fixed	True	1,139.85	1454	(N/A)	(N/A)	<None>
909	CU-470	P-120(2)(2)	3.33	Fixed	True	1,126.86	1454	(N/A)	(N/A)	<None>
910	CU-471	P-120(2)(2)	3.33	Fixed	True	1,110.99	1454	(N/A)	(N/A)	<None>
911	CU-472	P-120(2)(2)	3.33	Fixed	True	1,114.12	1454	(N/A)	(N/A)	<None>
912	CU-473	P-120(2)(1)	3.33	Fixed	True	1,144.48	1454	(N/A)	(N/A)	<None>
913	CU-474	P-120(2)(1)	3.33	Fixed	True	1,166.45	1454	(N/A)	(N/A)	<None>
914	CU-475	P-120(1)	3.33	Fixed	True	1,217.18	1454	(N/A)	(N/A)	<None>
915	CU-476	P-120(1)	3.33	Fixed	True	1,246.13	1454	(N/A)	(N/A)	<None>
916	CU-477	P-120(2)(1)	3.33	Fixed	True	1,190.91	1454	(N/A)	(N/A)	<None>
917	CU-478	P-239	3.33	Fixed	True	1,159.74	1454	(N/A)	(N/A)	<None>
920	CU-481	P-147	3.33	Fixed	True	1,149.73	1454	(N/A)	(N/A)	<None>
928	CU-489	P-147	3.33	Fixed	True	1,138.54	1454	(N/A)	(N/A)	<None>
929	CU-490	P-146(1)(1)	3.33	Fixed	True	1,143.74	1454	(N/A)	(N/A)	<None>
930	CU-491	P-146(1)(1)	3.33	Fixed	True	1,162.31	1454	(N/A)	(N/A)	<None>
931	CU-492	P-149	3.33	Fixed	True	1,159.17	1454	(N/A)	(N/A)	<None>
932	CU-493	P-154(1)	3.33	Fixed	True	1,162.62	1454	(N/A)	(N/A)	<None>
933	CU-494	P-120(2)(2)	3.33	Fixed	True	1,163.19	1454	(N/A)	(N/A)	<None>
934	CU-495	J-96	3.33	Fixed	True	1,213.49	1454	(N/A)	(N/A)	<None>
935	CU-496	P-120(2)(2)	3.33	Fixed	True	1,163.31	1454	(N/A)	(N/A)	<None>
936	CU-497	P-146(2)	3.33	Fixed	True	1,204.48	1454	(N/A)	(N/A)	<None>

FlexTable: Customer Meter Table										
ID	Label	Associated Element	Demand (Base) (gpm)	Pattern (Demand)	Is Active?	Elevation (ft)	Zone	Hydraulic Grade (ft)	Pressure (psi)	Unit Demand
937	CU-498	P-245	3.33	Fixed	True	1,160.44	1454	(N/A)	(N/A)	<None>
938	CU-499	P-146(1)(1)	3.33	Fixed	True	1,160.70	1454	(N/A)	(N/A)	<None>
939	CU-500	P-146(1)(2)	3.33	Fixed	True	1,185.80	1454	(N/A)	(N/A)	<None>
940	CU-501	P-146(2)	3.33	Fixed	True	1,203.94	1454	(N/A)	(N/A)	<None>
941	CU-502	P-242	3.33	Fixed	True	1,203.19	1454	(N/A)	(N/A)	<None>
942	CU-503	P-146(2)	3.33	Fixed	True	1,206.13	1454	(N/A)	(N/A)	<None>
943	CU-504	P-146(2)	3.33	Fixed	True	1,239.19	1454	(N/A)	(N/A)	<None>
944	CU-505	P-146(2)	3.33	Fixed	True	1,242.22	1454	(N/A)	(N/A)	<None>
945	CU-506	P-146(2)	3.33	Fixed	True	1,240.82	1454	(N/A)	(N/A)	<None>
946	CU-507	P-146(2)	3.33	Fixed	True	1,247.32	1454	(N/A)	(N/A)	<None>
947	CU-508	P-146(1)(2)	3.33	Fixed	True	1,219.07	1454	(N/A)	(N/A)	<None>
948	CU-509	P-146(1)(2)	3.33	Fixed	True	1,199.38	1454	(N/A)	(N/A)	<None>
949	CU-510	J-197	3.33	Fixed	True	1,170.55	1454	(N/A)	(N/A)	<None>
950	CU-511	P-154(2)	3.33	Fixed	True	1,193.28	1454	(N/A)	(N/A)	<None>
951	CU-512	P-150(2)(1)	3.33	Fixed	True	1,213.39	1454	(N/A)	(N/A)	<None>
952	CU-513	P-154(1)	3.33	Fixed	True	1,193.82	1454	(N/A)	(N/A)	<None>
953	CU-514	P-154(2)	3.33	Fixed	True	1,222.81	1454	(N/A)	(N/A)	<None>
954	CU-515	P-154(2)	3.33	Fixed	True	1,199.33	1454	(N/A)	(N/A)	<None>
955	CU-516	P-150(2)(2)	3.33	Fixed	True	1,278.52	1454	(N/A)	(N/A)	<None>
1055	CU-616	P-151	3.33	Fixed	True	1,278.97	1454	(N/A)	(N/A)	<None>
1056	CU-617	P-151	3.33	Fixed	True	1,300.04	1454	(N/A)	(N/A)	<None>
1057	CU-618	P-150(2)(2)	3.33	Fixed	True	1,326.96	1454	(N/A)	(N/A)	<None>
1058	CU-619	P-285	3.33	Fixed	True	1,272.25	1454	(N/A)	(N/A)	<None>
1059	CU-620	P-150(2)(2)	3.33	Fixed	True	1,246.25	1454	(N/A)	(N/A)	<None>
1060	CU-621	P-150(2)(2)	3.33	Fixed	True	1,216.94	1454	(N/A)	(N/A)	<None>
1061	CU-622	P-154(2)	3.33	Fixed	True	1,184.52	1454	(N/A)	(N/A)	<None>
1062	CU-623	P-156(1)(1)	3.33	Fixed	True	1,229.73	1454	(N/A)	(N/A)	<None>
1063	CU-624	P-156(1)(1)	3.33	Fixed	True	1,210.72	1454	(N/A)	(N/A)	<None>
1064	CU-625	P-156(1)(1)	3.33	Fixed	True	1,216.54	1454	(N/A)	(N/A)	<None>
1065	CU-626	P-156(1)(2)(1)	3.33	Fixed	True	1,223.95	1454	(N/A)	(N/A)	<None>
1066	CU-627	P-156(1)(2)(1)	3.33	Fixed	True	1,200.47	1454	(N/A)	(N/A)	<None>
1067	CU-628	P-156(1)(2)(1)	3.33	Fixed	True	1,211.85	1454	(N/A)	(N/A)	<None>
1068	CU-629	P-156(1)(2)(2)	3.33	Fixed	True	1,197.67	1454	(N/A)	(N/A)	<None>
1069	CU-630	P-156(1)(2)(2)	3.33	Fixed	True	1,205.32	1454	(N/A)	(N/A)	<None>
1070	CU-631	P-156(1)(2)(2)	3.33	Fixed	True	1,245.24	1454	(N/A)	(N/A)	<None>
1071	CU-632	P-156(1)(2)(2)	3.33	Fixed	True	1,217.63	1454	(N/A)	(N/A)	<None>
1072	CU-633	P-156(1)(2)(2)	3.33	Fixed	True	1,225.42	1454	(N/A)	(N/A)	<None>
1073	CU-634	P-156(1)(2)(2)	3.33	Fixed	True	1,266.82	1454	(N/A)	(N/A)	<None>
1074	CU-635	P-156(1)(2)(2)	3.33	Fixed	True	1,225.24	1454	(N/A)	(N/A)	<None>
1075	CU-636	P-156(2)	3.33	Fixed	True	1,238.49	1454	(N/A)	(N/A)	<None>
1076	CU-637	P-156(2)	3.33	Fixed	True	1,277.72	1454	(N/A)	(N/A)	<None>
1077	CU-638	P-156(2)	3.33	Fixed	True	1,291.32	1454	(N/A)	(N/A)	<None>
1078	CU-639	P-156(2)	3.33	Fixed	True	1,249.72	1454	(N/A)	(N/A)	<None>
1079	CU-640	P-263	3.33	Fixed	True	1,305.52	1454	(N/A)	(N/A)	<None>
1080	CU-641	P-157	3.33	Fixed	True	1,255.01	1454	(N/A)	(N/A)	<None>
1081	CU-642	P-263	3.33	Fixed	True	1,324.23	1454	(N/A)	(N/A)	<None>
1082	CU-643	P-157	3.33	Fixed	True	1,341.53	1454	(N/A)	(N/A)	<None>
1083	CU-644	P-157	3.33	Fixed	True	1,272.68	1454	(N/A)	(N/A)	<None>
1084	CU-645	P-157	3.33	Fixed	True	1,276.35	1454	(N/A)	(N/A)	<None>
1085	CU-646	P-158	3.33	Fixed	True	1,366.32	1454	(N/A)	(N/A)	<None>
1086	CU-647	P-159	3.33	Fixed	True	1,287.49	1454	(N/A)	(N/A)	<None>
1087	CU-648	J-116	3.33	Fixed	True	1,289.95	1454	(N/A)	(N/A)	<None>
1088	CU-649	P-159	3.33	Fixed	True	1,371.66	1454	(N/A)	(N/A)	<None>
1089	CU-650	P-120(1)	3.33	Fixed	True	1,256.95	1454	(N/A)	(N/A)	<None>
1090	CU-651	P-121	3.33	Fixed	True	1,219.52	1454	(N/A)	(N/A)	<None>
1091	CU-652	P-121	3.33	Fixed	True	1,154.39	1454	(N/A)	(N/A)	<None>
1092	CU-653	J-94	3.33	Fixed	True	1,160.15	1454	(N/A)	(N/A)	<None>
1093	CU-654	P-236	3.33	Fixed	True	1,181.94	1454	(N/A)	(N/A)	<None>

FlexTable: Customer Meter Table

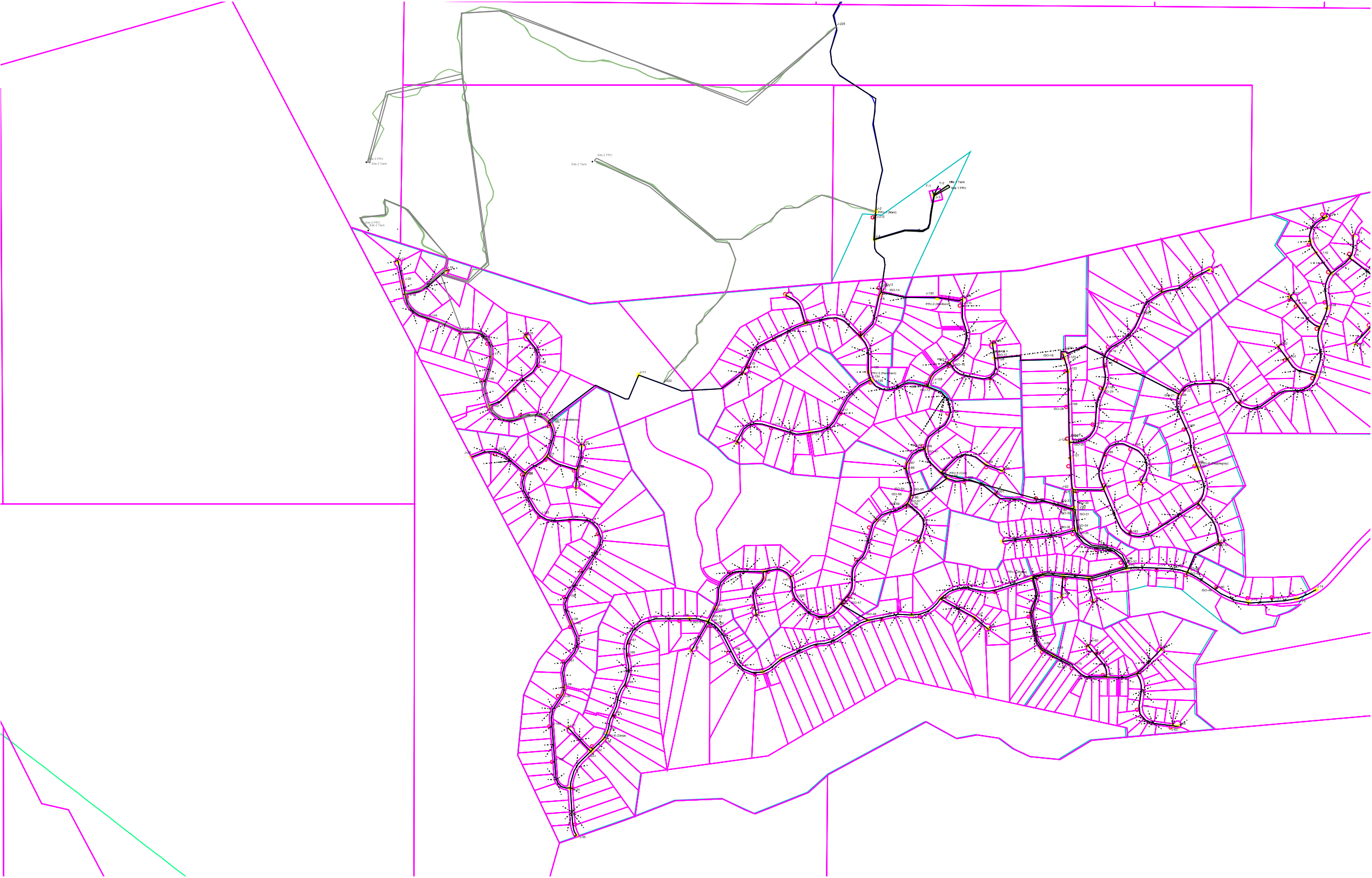
ID	Label	Associated Element	Demand (Base) (gpm)	Pattern (Demand)	Is Active?	Elevation (ft)	Zone	Hydraulic Grade (ft)	Pressure (psi)	Unit Demand
1094	CU-655	P-236	3.33	Fixed	True	1,151.39	1454	(N/A)	(N/A)	<None>
1095	CU-656	P-121	3.33	Fixed	True	1,201.94	1454	(N/A)	(N/A)	<None>
1096	CU-657	P-121	3.33	Fixed	True	1,235.48	1454	(N/A)	(N/A)	<None>
1097	CU-658	P-121	3.33	Fixed	True	1,291.89	1454	(N/A)	(N/A)	<None>
1098	CU-659	P-122	3.33	Fixed	True	1,308.44	1454	(N/A)	(N/A)	<None>
1099	CU-660	P-122	3.33	Fixed	True	1,328.00	1454	(N/A)	(N/A)	<None>
1100	CU-661	P-120(1)	3.33	Fixed	True	1,290.98	1454	(N/A)	(N/A)	<None>
1101	CU-662	P-120(1)	3.33	Fixed	True	1,257.16	1454	(N/A)	(N/A)	<None>
1102	CU-663	P-122	3.33	Fixed	True	1,307.50	1454	(N/A)	(N/A)	<None>
1103	CU-664	P-122	3.33	Fixed	True	1,309.95	1454	(N/A)	(N/A)	<None>
1104	CU-665	P-122	3.33	Fixed	True	1,310.41	1454	(N/A)	(N/A)	<None>
491	CU-52	P-84	3.33	Fixed	True	1,282.81	1407	(N/A)	(N/A)	<None>
492	CU-53	P-85	3.33	Fixed	True	1,234.05	1407	(N/A)	(N/A)	<None>
493	CU-54	P-84	3.33	Fixed	True	1,236.53	1407	(N/A)	(N/A)	<None>
494	CU-55	P-83	3.33	Fixed	True	1,215.11	1407	(N/A)	(N/A)	<None>
495	CU-56	P-83	3.33	Fixed	True	1,221.70	1407	(N/A)	(N/A)	<None>
496	CU-57	P-83	3.33	Fixed	True	1,196.69	1407	(N/A)	(N/A)	<None>
497	CU-58	P-83	3.33	Fixed	True	1,195.11	1407	(N/A)	(N/A)	<None>
498	CU-59	P-83	3.33	Fixed	True	1,188.00	1407	(N/A)	(N/A)	<None>
499	CU-60	P-83	3.33	Fixed	True	1,189.34	1407	(N/A)	(N/A)	<None>
500	CU-61	P-83	3.33	Fixed	True	1,175.97	1407	(N/A)	(N/A)	<None>
501	CU-62	P-83	3.33	Fixed	True	1,164.63	1407	(N/A)	(N/A)	<None>
502	CU-63	P-82	3.33	Fixed	True	1,166.82	1407	(N/A)	(N/A)	<None>
503	CU-64	P-81	3.33	Fixed	True	1,136.12	1407	(N/A)	(N/A)	<None>
504	CU-65	P-81	3.33	Fixed	True	1,138.06	1407	(N/A)	(N/A)	<None>
505	CU-66	P-81	3.33	Fixed	True	1,119.30	1407	(N/A)	(N/A)	<None>
506	CU-67	P-81	3.33	Fixed	True	1,120.39	1407	(N/A)	(N/A)	<None>
507	CU-68	P-224	3.33	Fixed	True	1,108.33	1407	(N/A)	(N/A)	<None>
508	CU-69	P-80(2)	3.33	Fixed	True	1,107.56	1407	(N/A)	(N/A)	<None>
556	CU-117	P-94	3.33	Fixed	True	1,092.05	1407	(N/A)	(N/A)	<None>
557	CU-118	P-80(2)	3.33	Fixed	True	1,090.67	1407	(N/A)	(N/A)	<None>
558	CU-119	P-80(2)	3.33	Fixed	True	1,090.65	1407	(N/A)	(N/A)	<None>
559	CU-120	P-80(2)	3.33	Fixed	True	1,097.65	1407	(N/A)	(N/A)	<None>
560	CU-121	P-80(2)	3.33	Fixed	True	1,095.56	1407	(N/A)	(N/A)	<None>
561	CU-122	P-80(2)	3.33	Fixed	True	1,098.59	1407	(N/A)	(N/A)	<None>
562	CU-123	P-80(2)	3.33	Fixed	True	1,113.68	1407	(N/A)	(N/A)	<None>
563	CU-124	P-223	3.33	Fixed	True	1,111.01	1407	(N/A)	(N/A)	<None>
564	CU-125	P-80(1)	3.33	Fixed	True	1,118.91	1407	(N/A)	(N/A)	<None>
565	CU-126	J-54	3.33	Fixed	True	1,186.39	1407	(N/A)	(N/A)	<None>
566	CU-127	P-75	3.33	Fixed	True	1,168.92	1407	(N/A)	(N/A)	<None>
567	CU-128	P-75	3.33	Fixed	True	1,161.41	1407	(N/A)	(N/A)	<None>
568	CU-129	P-74	3.33	Fixed	True	1,172.00	1407	(N/A)	(N/A)	<None>
569	CU-130	P-74	3.33	Fixed	True	1,163.43	1407	(N/A)	(N/A)	<None>
570	CU-131	P-74	3.33	Fixed	True	1,147.00	1407	(N/A)	(N/A)	<None>
571	CU-132	P-74	3.33	Fixed	True	1,132.53	1407	(N/A)	(N/A)	<None>
572	CU-133	P-80(1)	3.33	Fixed	True	1,094.20	1407	(N/A)	(N/A)	<None>
573	CU-134	P-80(1)	3.33	Fixed	True	1,094.47	1407	(N/A)	(N/A)	<None>
574	CU-135	P-80(1)	3.33	Fixed	True	1,099.14	1407	(N/A)	(N/A)	<None>
575	CU-136	P-80(1)	3.33	Fixed	True	1,098.45	1407	(N/A)	(N/A)	<None>
576	CU-137	P-80(1)	3.33	Fixed	True	1,104.25	1407	(N/A)	(N/A)	<None>
577	CU-138	P-80(1)	3.33	Fixed	True	1,108.35	1407	(N/A)	(N/A)	<None>
578	CU-139	P-80(1)	3.33	Fixed	True	1,106.21	1407	(N/A)	(N/A)	<None>
579	CU-140	P-73	3.33	Fixed	True	1,108.16	1407	(N/A)	(N/A)	<None>
580	CU-141	P-74	3.33	Fixed	True	1,138.11	1407	(N/A)	(N/A)	<None>
581	CU-142	P-74	3.33	Fixed	True	1,162.08	1407	(N/A)	(N/A)	<None>
582	CU-143	P-74	3.33	Fixed	True	1,170.06	1407	(N/A)	(N/A)	<None>
583	CU-144	P-74	3.33	Fixed	True	1,178.15	1407	(N/A)	(N/A)	<None>
584	CU-145	P-75	3.33	Fixed	True	1,183.96	1407	(N/A)	(N/A)	<None>

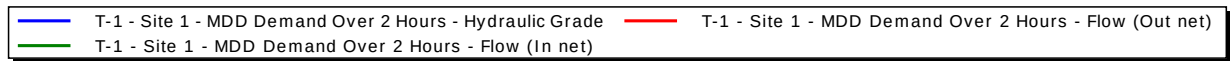
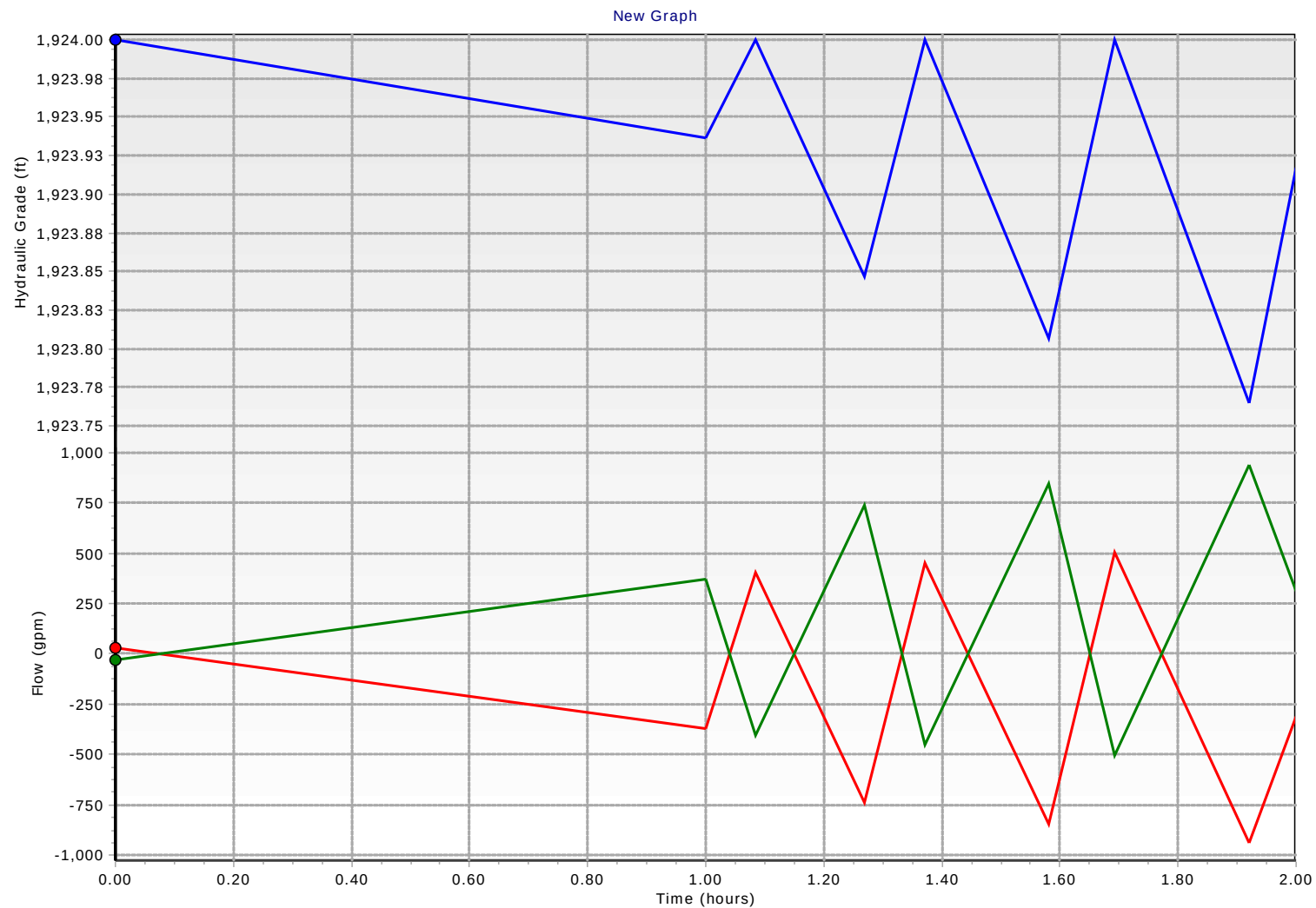
FlexTable: Customer Meter Table										
ID	Label	Associated Element	Demand (Base) (gpm)	Pattern (Demand)	Is Active?	Elevation (ft)	Zone	Hydraulic Grade (ft)	Pressure (psi)	Unit Demand
585	CU-146	P-75	3.33	Fixed	True	1,204.85	1407	(N/A)	(N/A)	<None>
586	CU-147	J-54	3.33	Fixed	True	1,222.13	1407	(N/A)	(N/A)	<None>
587	CU-148	J-54	3.33	Fixed	True	1,216.13	1407	(N/A)	(N/A)	<None>
588	CU-149	P-73	3.33	Fixed	True	1,148.61	1407	(N/A)	(N/A)	<None>
589	CU-150	P-73	3.33	Fixed	True	1,149.83	1407	(N/A)	(N/A)	<None>
590	CU-151	P-73	3.33	Fixed	True	1,167.80	1407	(N/A)	(N/A)	<None>
591	CU-152	P-71(2)	3.33	Fixed	True	1,170.66	1407	(N/A)	(N/A)	<None>
592	CU-153	P-71(2)	3.33	Fixed	True	1,118.28	1407	(N/A)	(N/A)	<None>
593	CU-154	P-71(2)	3.33	Fixed	True	1,130.17	1407	(N/A)	(N/A)	<None>
594	CU-155	P-71(2)	3.33	Fixed	True	1,168.31	1407	(N/A)	(N/A)	<None>
595	CU-156	P-220	3.33	Fixed	True	1,173.54	1407	(N/A)	(N/A)	<None>
596	CU-157	P-65(2)(2)	3.33	Fixed	True	1,168.38	1407	(N/A)	(N/A)	<None>
597	CU-158	P-219	3.33	Fixed	True	1,177.22	1407	(N/A)	(N/A)	<None>
598	CU-159	P-65(2)(1)	3.33	Fixed	True	1,162.32	1407	(N/A)	(N/A)	<None>
599	CU-160	P-65(2)(1)	3.33	Fixed	True	1,167.68	1407	(N/A)	(N/A)	<None>
600	CU-161	P-65(2)(1)	3.33	Fixed	True	1,163.39	1407	(N/A)	(N/A)	<None>
601	CU-162	P-65(1)	3.33	Fixed	True	1,169.29	1407	(N/A)	(N/A)	<None>
602	CU-163	P-65(1)	3.33	Fixed	True	1,175.33	1407	(N/A)	(N/A)	<None>
603	CU-164	P-65(1)	3.33	Fixed	True	1,167.61	1407	(N/A)	(N/A)	<None>
604	CU-165	P-63	3.33	Fixed	True	1,157.95	1407	(N/A)	(N/A)	<None>
605	CU-166	P-63	3.33	Fixed	True	1,165.89	1407	(N/A)	(N/A)	<None>
606	CU-167	P-217	3.33	Fixed	True	1,163.77	1407	(N/A)	(N/A)	<None>
607	CU-168	P-62(2)(1)	3.33	Fixed	True	1,182.78	1407	(N/A)	(N/A)	<None>
608	CU-169	P-62(2)(1)	3.33	Fixed	True	1,168.64	1407	(N/A)	(N/A)	<None>
609	CU-170	P-62(2)(1)	3.33	Fixed	True	1,146.39	1407	(N/A)	(N/A)	<None>
610	CU-171	P-62(2)(1)	3.33	Fixed	True	1,141.20	1407	(N/A)	(N/A)	<None>
611	CU-172	P-63	3.33	Fixed	True	1,142.08	1407	(N/A)	(N/A)	<None>
612	CU-173	P-65(1)	3.33	Fixed	True	1,140.16	1407	(N/A)	(N/A)	<None>
613	CU-174	P-65(1)	3.33	Fixed	True	1,142.80	1407	(N/A)	(N/A)	<None>
614	CU-175	P-65(1)	3.33	Fixed	True	1,139.68	1407	(N/A)	(N/A)	<None>
615	CU-176	P-65(1)	3.33	Fixed	True	1,135.54	1407	(N/A)	(N/A)	<None>
616	CU-177	P-65(2)(1)	3.33	Fixed	True	1,136.27	1407	(N/A)	(N/A)	<None>
617	CU-178	P-65(2)(1)	3.33	Fixed	True	1,124.54	1407	(N/A)	(N/A)	<None>
618	CU-179	J-172	3.33	Fixed	True	1,119.60	1407	(N/A)	(N/A)	<None>
619	CU-180	P-65(2)(2)	3.33	Fixed	True	1,116.69	1407	(N/A)	(N/A)	<None>
626	CU-187	P-62(2)(1)	3.33	Fixed	True	1,168.63	1407	(N/A)	(N/A)	<None>
627	CU-188	P-216	3.33	Fixed	True	1,166.84	1407	(N/A)	(N/A)	<None>
628	CU-189	P-62(1)	3.33	Fixed	True	1,171.49	1407	(N/A)	(N/A)	<None>
629	CU-190	P-55	3.33	Fixed	True	1,216.89	1407	(N/A)	(N/A)	<None>
630	CU-191	J-39	3.33	Fixed	True	1,239.82	1407	(N/A)	(N/A)	<None>
631	CU-192	J-39	3.33	Fixed	True	1,252.23	1407	(N/A)	(N/A)	<None>
632	CU-193	P-55	3.33	Fixed	True	1,238.00	1407	(N/A)	(N/A)	<None>
633	CU-194	P-53	3.33	Fixed	True	1,202.53	1407	(N/A)	(N/A)	<None>
634	CU-195	P-52(2)(2)(2)(2)	3.33	Fixed	True	1,236.38	1407	(N/A)	(N/A)	<None>
635	CU-196	P-52(2)(2)(2)(2)	3.33	Fixed	True	1,254.94	1407	(N/A)	(N/A)	<None>
636	CU-197	P-52(2)(2)(2)(2)	3.33	Fixed	True	1,259.37	1407	(N/A)	(N/A)	<None>
637	CU-198	P-214	3.33	Fixed	True	1,261.31	1407	(N/A)	(N/A)	<None>
638	CU-199	P-52(2)(2)(1)	3.33	Fixed	True	1,265.33	1407	(N/A)	(N/A)	<None>
639	CU-200	P-52(2)(2)(1)	3.33	Fixed	True	1,291.61	1407	(N/A)	(N/A)	<None>
640	CU-201	P-52(2)(2)(1)	3.33	Fixed	True	1,305.38	1407	(N/A)	(N/A)	<None>
641	CU-202	P-212	3.33	Fixed	True	1,346.06	1407	(N/A)	(N/A)	<None>
642	CU-203	P-52(2)(1)	3.33	Fixed	True	1,372.23	1407	(N/A)	(N/A)	<None>
643	CU-204	P-211	3.33	Fixed	True	1,359.74	1407	(N/A)	(N/A)	<None>
644	CU-205	P-211	3.33	Fixed	True	1,392.34	1407	(N/A)	(N/A)	<None>
645	CU-206	P-52(1)	3.33	Fixed	True	1,389.33	1407	(N/A)	(N/A)	<None>

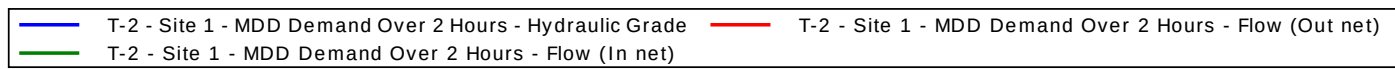
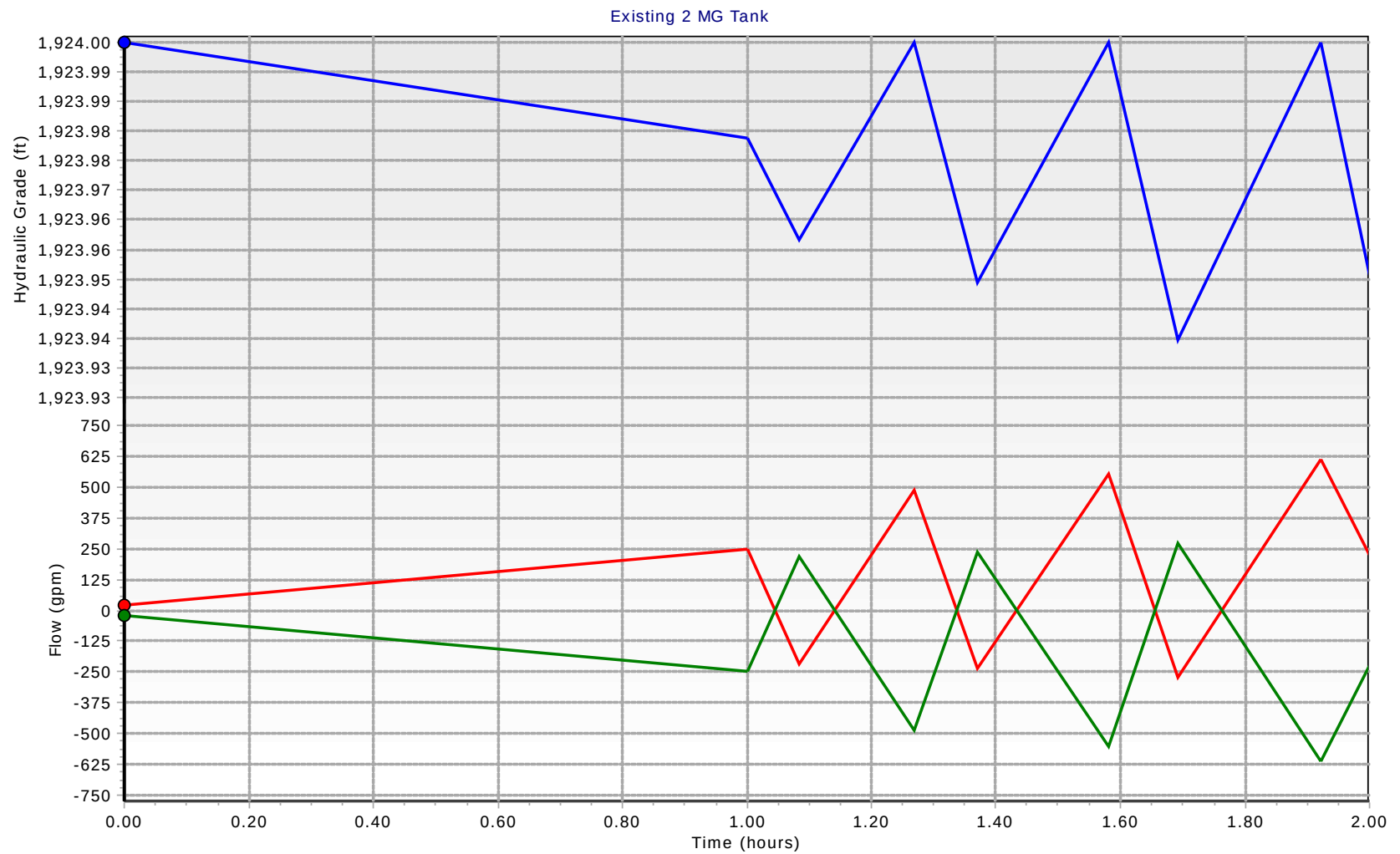
FlexTable: Customer Meter Table										
ID	Label	Associated Element	Demand (Base) (gpm)	Pattern (Demand)	Is Active?	Elevation (ft)	Zone	Hydraulic Grade (ft)	Pressure (psi)	Unit Demand
669	CU-230	P-52(1)	3.33	Fixed	True	1,345.89	1407	(N/A)	(N/A)	<None>
670	CU-231	P-52(2)(1)	3.33	Fixed	True	1,356.79	1407	(N/A)	(N/A)	<None>
671	CU-232	P-52(2)(1)	3.33	Fixed	True	1,332.45	1407	(N/A)	(N/A)	<None>
672	CU-233	P-52(2)(1)	3.33	Fixed	True	1,317.70	1407	(N/A)	(N/A)	<None>
673	CU-234	P-52(2)(2)(1)	3.33	Fixed	True	1,295.79	1407	(N/A)	(N/A)	<None>
674	CU-235	P-52(2)(2)(1)	3.33	Fixed	True	1,302.62	1407	(N/A)	(N/A)	<None>
675	CU-236	P-52(2)(2)(2)(1)	3.33	Fixed	True	1,298.58	1407	(N/A)	(N/A)	<None>
676	CU-237	P-52(2)(2)(2)(2)(1)	3.33	Fixed	True	1,293.77	1407	(N/A)	(N/A)	<None>
677	CU-238	P-52(2)(2)(2)(2)(1)	3.33	Fixed	True	1,284.82	1407	(N/A)	(N/A)	<None>
678	CU-239	P-52(2)(2)(2)(2)(1)	3.33	Fixed	True	1,272.57	1407	(N/A)	(N/A)	<None>
679	CU-240	P-52(2)(2)(2)(2)(1)	3.33	Fixed	True	1,265.68	1407	(N/A)	(N/A)	<None>
680	CU-241	P-52(2)(2)(2)(2)(2)	3.33	Fixed	True	1,251.50	1407	(N/A)	(N/A)	<None>
681	CU-242	P-52(2)(2)(2)(2)(2)	3.33	Fixed	True	1,244.15	1407	(N/A)	(N/A)	<None>
682	CU-243	P-52(2)(2)(2)(2)(2)	3.33	Fixed	True	1,228.49	1407	(N/A)	(N/A)	<None>
683	CU-244	P-54	3.33	Fixed	True	1,201.62	1407	(N/A)	(N/A)	<None>
684	CU-245	P-54	3.33	Fixed	True	1,165.68	1407	(N/A)	(N/A)	<None>
814	CU-375	P-62(2)(1)	3.33	Fixed	True	1,143.85	1407	(N/A)	(N/A)	<None>
815	CU-376	P-62(1)	3.33	Fixed	True	1,141.33	1407	(N/A)	(N/A)	<None>
816	CU-377	P-62(1)	3.33	Fixed	True	1,143.43	1407	(N/A)	(N/A)	<None>
817	CU-378	P-62(1)	3.33	Fixed	True	1,149.79	1407	(N/A)	(N/A)	<None>
818	CU-379	P-62(1)	3.33	Fixed	True	1,149.90	1407	(N/A)	(N/A)	<None>
509	CU-70	P-97	3.33	Fixed	True	1,101.58	1347	(N/A)	(N/A)	<None>
510	CU-71	P-97	3.33	Fixed	True	1,092.07	1347	(N/A)	(N/A)	<None>
511	CU-72	J-66	3.33	Fixed	True	1,107.82	1347	(N/A)	(N/A)	<None>
512	CU-73	P-97	3.33	Fixed	True	1,096.65	1347	(N/A)	(N/A)	<None>
513	CU-74	J-66	3.33	Fixed	True	1,135.11	1347	(N/A)	(N/A)	<None>
514	CU-75	P-99	3.33	Fixed	True	1,087.22	1347	(N/A)	(N/A)	<None>
515	CU-76	P-99	3.33	Fixed	True	1,094.49	1347	(N/A)	(N/A)	<None>
516	CU-77	J-69	3.33	Fixed	True	1,125.46	1347	(N/A)	(N/A)	<None>
517	CU-78	J-69	3.33	Fixed	True	1,137.19	1347	(N/A)	(N/A)	<None>
518	CU-79	J-69	3.33	Fixed	True	1,161.40	1347	(N/A)	(N/A)	<None>
519	CU-80	J-69	3.33	Fixed	True	1,133.13	1347	(N/A)	(N/A)	<None>
520	CU-81	P-99	3.33	Fixed	True	1,090.30	1347	(N/A)	(N/A)	<None>
521	CU-82	P-100	3.33	Fixed	True	1,082.58	1347	(N/A)	(N/A)	<None>
522	CU-83	P-100	3.33	Fixed	True	1,072.11	1347	(N/A)	(N/A)	<None>
523	CU-84	P-109(1)	3.33	Fixed	True	1,059.11	1347	(N/A)	(N/A)	<None>
524	CU-85	P-109(1)	3.33	Fixed	True	1,059.70	1347	(N/A)	(N/A)	<None>
525	CU-86	P-109(2)	3.33	Fixed	True	1,068.15	1347	(N/A)	(N/A)	<None>
526	CU-87	P-109(2)	3.33	Fixed	True	1,057.23	1347	(N/A)	(N/A)	<None>
527	CU-88	P-110	3.33	Fixed	True	1,050.22	1347	(N/A)	(N/A)	<None>
528	CU-89	P-112(2)	3.33	Fixed	True	1,044.49	1347	(N/A)	(N/A)	<None>
529	CU-90	P-114(1)	3.33	Fixed	True	1,047.53	1347	(N/A)	(N/A)	<None>
530	CU-91	P-114(2)	3.33	Fixed	True	1,072.36	1347	(N/A)	(N/A)	<None>
531	CU-92	P-114(2)	3.33	Fixed	True	1,092.53	1347	(N/A)	(N/A)	<None>
532	CU-93	P-114(1)	3.33	Fixed	True	1,121.03	1347	(N/A)	(N/A)	<None>
533	CU-94	P-112(2)	3.33	Fixed	True	1,088.02	1347	(N/A)	(N/A)	<None>
534	CU-95	P-112(2)	3.33	Fixed	True	1,095.24	1347	(N/A)	(N/A)	<None>
535	CU-96	P-112(1)	3.33	Fixed	True	1,098.50	1347	(N/A)	(N/A)	<None>
536	CU-97	P-112(1)	3.33	Fixed	True	1,099.16	1347	(N/A)	(N/A)	<None>
537	CU-98	P-109(2)	3.33	Fixed	True	1,096.30	1347	(N/A)	(N/A)	<None>
538	CU-99	P-109(2)	3.33	Fixed	True	1,103.63	1347	(N/A)	(N/A)	<None>
539	CU-100	P-109(2)	3.33	Fixed	True	1,095.19	1347	(N/A)	(N/A)	<None>

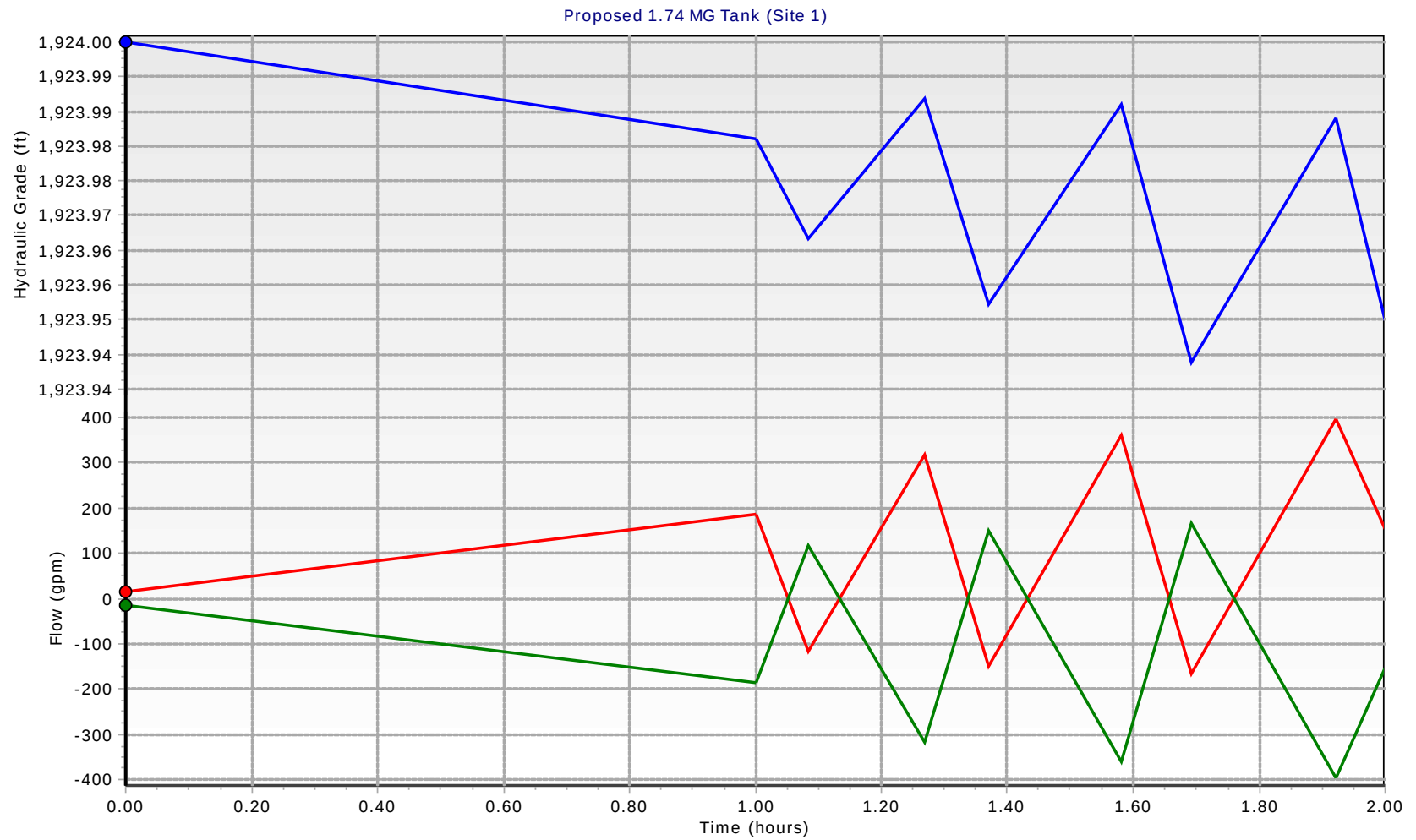
ID	Label	Associated Element	Demand (Base) (gpm)	Pattern (Demand)	Is Active?	Elevation (ft)	Zone	Hydraulic Grade (ft)	Pressure (psi)	Unit Demand
540	CU-101	P-109(2)	3.33	Fixed	True	1,095.86	1347	(N/A)	(N/A)	<None>
541	CU-102	P-109(1)	3.33	Fixed	True	1,088.52	1347	(N/A)	(N/A)	<None>
542	CU-103	P-109(1)	3.33	Fixed	True	1,080.56	1347	(N/A)	(N/A)	<None>
543	CU-104	P-101(1)	3.33	Fixed	True	1,075.46	1347	(N/A)	(N/A)	<None>
544	CU-105	P-101(2)(1)	3.33	Fixed	True	1,081.10	1347	(N/A)	(N/A)	<None>
545	CU-106	P-100	3.33	Fixed	True	1,060.29	1347	(N/A)	(N/A)	<None>
546	CU-107	P-101(2)(1)	3.33	Fixed	True	1,078.36	1347	(N/A)	(N/A)	<None>
547	CU-108	P-101(2)(1)	3.33	Fixed	True	1,084.71	1347	(N/A)	(N/A)	<None>
548	CU-109	P-101(2)(1)	3.33	Fixed	True	1,093.91	1347	(N/A)	(N/A)	<None>
549	CU-110	P-98	3.33	Fixed	True	1,080.31	1347	(N/A)	(N/A)	<None>
550	CU-111	P-101(2)(1)	3.33	Fixed	True	1,086.86	1347	(N/A)	(N/A)	<None>
551	CU-112	P-98	3.33	Fixed	True	1,083.06	1347	(N/A)	(N/A)	<None>
552	CU-113	P-98	3.33	Fixed	True	1,084.61	1347	(N/A)	(N/A)	<None>
553	CU-114	P-96	3.33	Fixed	True	1,089.26	1347	(N/A)	(N/A)	<None>
554	CU-115	P-96	3.33	Fixed	True	1,092.54	1347	(N/A)	(N/A)	<None>
555	CU-116	J-56	3.33	Fixed	True	1,087.98	1347	(N/A)	(N/A)	<None>
887	CU-448	P-102(2)	3.33	Fixed	True	1,128.32	1347	(N/A)	(N/A)	<None>
888	CU-449	P-102(2)	3.33	Fixed	True	1,117.75	1347	(N/A)	(N/A)	<None>
889	CU-450	P-102(2)	3.33	Fixed	True	1,118.04	1347	(N/A)	(N/A)	<None>
890	CU-451	P-102(2)	3.33	Fixed	True	1,124.71	1347	(N/A)	(N/A)	<None>
891	CU-452	P-103	3.33	Fixed	True	1,145.13	1347	(N/A)	(N/A)	<None>
892	CU-453	P-103	3.33	Fixed	True	1,146.35	1347	(N/A)	(N/A)	<None>
893	CU-454	P-103	3.33	Fixed	True	1,128.57	1347	(N/A)	(N/A)	<None>
894	CU-455	P-103	3.33	Fixed	True	1,130.31	1347	(N/A)	(N/A)	<None>
895	CU-456	P-103	3.33	Fixed	True	1,103.09	1347	(N/A)	(N/A)	<None>
896	CU-457	P-103	3.33	Fixed	True	1,104.36	1347	(N/A)	(N/A)	<None>
897	CU-458	P-247	3.33	Fixed	True	1,104.91	1347	(N/A)	(N/A)	<None>
898	CU-459	P-247	3.33	Fixed	True	1,086.21	1347	(N/A)	(N/A)	<None>
899	CU-460	P-102(2)	3.33	Fixed	True	1,092.98	1347	(N/A)	(N/A)	<None>
900	CU-461	P-102(2)	3.33	Fixed	True	1,090.20	1347	(N/A)	(N/A)	<None>
901	CU-462	P-102(2)	3.33	Fixed	True	1,100.65	1347	(N/A)	(N/A)	<None>
902	CU-463	P-102(2)	3.33	Fixed	True	1,111.73	1347	(N/A)	(N/A)	<None>
903	CU-464	P-101(2)(1)	3.33	Fixed	True	1,095.80	1347	(N/A)	(N/A)	<None>
904	CU-465	P-101(2)(1)	3.33	Fixed	True	1,080.62	1347	(N/A)	(N/A)	<None>
905	CU-466	P-101(2)(1)	3.33	Fixed	True	1,124.10	1347	(N/A)	(N/A)	<None>
906	CU-467	P-104	3.33	Fixed	True	1,138.00	1347	(N/A)	(N/A)	<None>
1201	CU-762	P-115	3.33	Fixed	True	1,090.56	1347	(N/A)	(N/A)	<None>

Scenario: Site 1 - MDD Demand Over 2 Hours



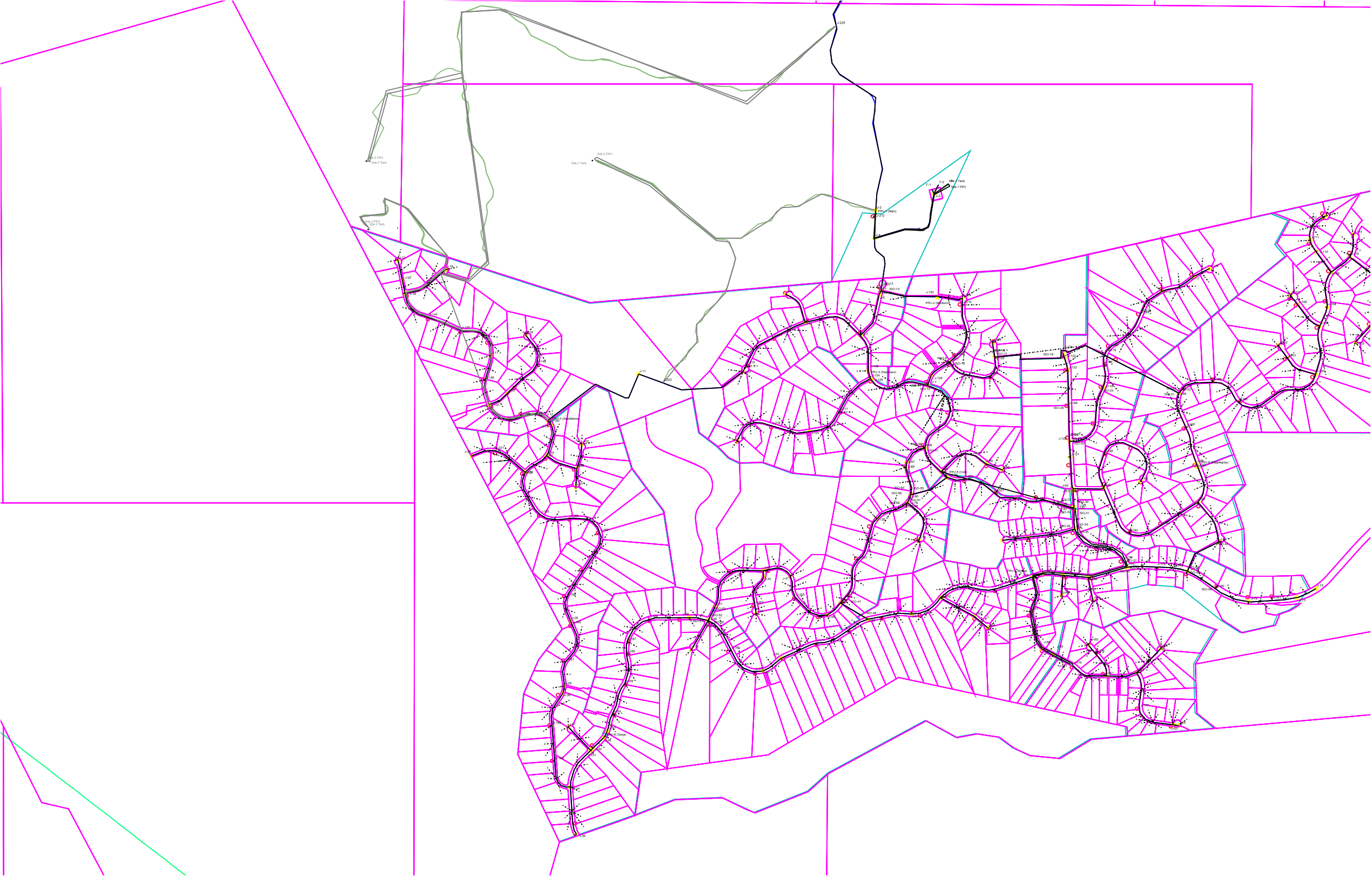






- Site 1 Tank - Site 1 - MDD Demand Over 2 Hours - Hydraulic Grade
- Site 1 Tank - Site 1 - MDD Demand Over 2 Hours - Flow (Out net)
- Site 1 Tank - Site 1 - MDD Demand Over 2 Hours - Flow (In net)

Scenario: Site 1 - New Tank at Existing Location (MDD + FF)



FlexTable: Pipe Table
Current Time: 0.00 hours

ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1769	Site 2 Feed Pipe	Site 2 PRV	Site 2 Tank	False	12.0	Ductile Iron	130.0	True	(N/A)	(N/A)	1924	40	(N/A)	(N/A)
1770	Site 3 Source Pipe	J-225	Site 3 PRV	False	12.0	Ductile Iron	130.0	False	(N/A)	(N/A)	1924 Main	7,945	(N/A)	(N/A)
1771	Site 3 Inlet Pipe	Site 3 PRV	Site 3 Tank	False	12.0	Ductile Iron	130.0	True	(N/A)	(N/A)	1924	29	(N/A)	(N/A)
1772	Site 3 Distribution Pipe	Site 3 Tank	J-12	False	12.0	Ductile Iron	130.0	False	(N/A)	(N/A)	1924	7,544	(N/A)	(N/A)
1774	Site 2 Source Pipe	J-2	Site 2 PRV	False	12.0	Ductile Iron	130.0	False	(N/A)	(N/A)	1924 Main	4,056	(N/A)	(N/A)
1776	Site 2 Distribution Pipe	Site 2 Tank	J-222	False	12.0	Ductile Iron	130.0	False	(N/A)	(N/A)	1924	4,134	(N/A)	(N/A)
1794	Site 4 Source Pipe	J-225	Site 4 PRV	False	12.0	Steel	140.0	False	(N/A)	(N/A)	1924 Main	11,093	(N/A)	(N/A)
1795	Site 4 Inlet Pipe	Site 4 PRV	Site 4 Tank	False	12.0	Steel	140.0	True	(N/A)	(N/A)	1924	64	(N/A)	(N/A)
1796	Site 4 Distribution Pipe	Site 4 Tank	J-12	False	12.0	Steel	140.0	False	(N/A)	(N/A)	1924	5,564	(N/A)	(N/A)
1829	P-87(1)(2)	J-227	J-175	False	8.0	Asbestos Cement	140.0	False	(N/A)	(N/A)	1550	40	(N/A)	(N/A)
438	P-187	R-2	J-139	True	12.0	Steel	140.0	False	2,489	7.06	1924 Main	237	0	96
227	P-9	T-2	J-3	True	12.0	Asbestos Cement	140.0	False	20	0.06	1924	130	14	15
1751	Site 1 Pipe	Site 1 Tank	J-3	True	12.0	Ductile Iron	130.0	False	15	0.04	1924	221	15	15
226	P-8	J-3	T-1	True	12.0	Asbestos Cement	140.0	False	-31	0.09	1924	61	15	14
1799	Site 1 Inlet Pipe	Site 1 PRV	Site 1 Tank	True	12.0	Steel	140.0	True	0	0.00	1924	35	18	15
269	P-51	PRV-8 (Zanja)	J-37	True	8.0	Asbestos Cement	140.0	False	646	4.12	1407	38	25	25
1463	P-52(1)	J-37	J-164	True	8.0	Asbestos Cement	140.0	False	639	4.08	1407	232	25	31
1467	P-52(2)(1)	J-164	J-165	True	8.0	Asbestos Cement	140.0	False	626	4.00	1407	418	31	42
1465	P-211	H-51	J-164	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	29	31	31
396	P-177	J-86	J-87	True	6.0	Asbestos Cement	140.0	False	0	0.00	1722	70	38	35
397	P-178	J-86	H-17	True	4.0	Ductile Iron	140.0	False	0	0.00	1470	33	38	38
372	P-153	J-123	J-124	True	4.0	Asbestos Cement	140.0	False	0	0.00	1454	64	41	41
1590	P-255	H-137	J-101	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	21	42	44
1471	P-52(2)(2)(1)	J-165	J-166	True	8.0	Asbestos Cement	140.0	False	606	3.87	1407	381	42	53
262	P-44	J-35	H-7	True	4.0	Ductile Iron	140.0	False	0	0.00	1677	29	44	46
325	P-107	J-84	J-80	True	8.0	Asbestos Cement	140.0	False	203	1.30	1470	516	44	59
1638	P-108(1)(1)(1)	J-84	J-202	True	8.0	Asbestos Cement	140.0	False	47	0.30	1470	222	44	57
346	P-128	J-101	J-102	True	4.0	Asbestos Cement	140.0	False	10	0.26	1712 E	196	44	31
1469	P-212	H-52	J-165	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	25	45	42
403	P-184	PRV-5 (Colt)	J-84	True	8.0	Asbestos Cement	140.0	False	253	1.62	1470	19	45	44
340	P-122	J-97	J-95	True	8.0	Asbestos Cement	140.0	False	290	1.85	1454	460	45	72
341	P-123	PRV-6 (Dapplegray)	J-97	True	8.0	Asbestos Cement	140.0	False	300	1.91	1454	37	45	45
370	P-151	J-122	J-123	True	4.0	Asbestos Cement	140.0	False	0	0.00	1454	169	47	41
1666	P-285	J-122	H-147	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	31	47	48
359	P-140	J-112	H-23	True	4.0	Ductile Iron	140.0	False	0	0.00	1712 E	32	49	46
360	P-141	J-112	J-113	True	8.0	Asbestos Cement	140.0	False	7	0.04	1712 E	39	49	51
384	P-165	J-134	J-135	True	8.0	Asbestos Cement	140.0	False	506	3.23	1722	23	50	51
1711	P-163(1)	J-134	J-217	True	8.0	Asbestos Cement	140.0	False	80	0.51	1722	591	50	70
1640	P-273	H-99	J-202	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	14	50	57
385	P-166	J-135	J-1	True	8.0	Asbestos Cement	140.0	False	493	3.15	1722	769	51	85
381	P-162	PRV-3 (Ranchero)	J-134	True	8.0	Asbestos Cement	140.0	False	593	3.78	1722	28	51	50
1714	P-302	H-108	J-135	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	11	51	51
1475	P-52(2)(2)(2)(1)	J-166	J-167	True	8.0	Asbestos Cement	140.0	False	599	3.83	1407	160	53	57
1477	P-214	H-54	J-167	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	30	54	57
1454	P-42(1)	J-30	J-162	True	8.0	Asbestos Cement	140.0	False	736	4.70	1677	451	54	61
1473	P-213	H-53	J-166	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	32	54	53
1408	P-196	H-145	J-150	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	21	55	57
357	P-138	J-111	H-24	True	4.0	Ductile Iron	140.0	False	0	0.00	1712 E	30	55	56
358	P-139	J-111	J-112	True	8.0	Asbestos Cement	140.0	False	13	0.09	1712 E	362	55	49
1456	P-208	H-48	J-162	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	23	56	61
250	P-32	J-13	J-24	True	10.0	Asbestos Cement	140.0	False	939	3.84	1677	410	56	69
1416	P-198	H-39	J-152	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	15	57	57
252	P-34	J-23	J-22	True	4.0	Asbestos Cement	140.0	False	13	0.34	1677	315	57	44
253	P-35	J-23	J-27	True	4.0	Asbestos Cement	140.0	False	7	0.17	1677	230	57	50
1407	P-31(2)	J-150	J-13	True	10.0	Asbestos Cement	140.0	False	946	3.86	1677	12	57	56

FlexTable: Pipe Table
Current Time: 0.00 hours

ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1479	P-52(2)(2)(2)(2)(1)	J-167	J-168	True	8.0	Asbestos Cement	140.0	False	586	3.74	1407	407	57	68
1415	P-33(2)	J-152	J-23	True	6.0	Asbestos Cement	140.0	False	30	0.34	1677	27	57	57
1639	P-108(1)(1)(2)	J-202	J-201	True	8.0	Asbestos Cement	140.0	False	40	0.26	1470	448	57	84
1481	P-215	H-55	J-168	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	19	58	68
1406	P-31(1)	PRV-4 (Saddlebow)	J-150	True	10.0	Asbestos Cement	140.0	False	946	3.86	1677	31	59	57
324	P-106	J-80	J-79	True	8.0	Asbestos Cement	140.0	False	186	1.19	1470	109	59	67
398	P-179	J-80	J-86	True	6.0	Asbestos Cement	140.0	False	10	0.11	1470	348	59	38
377	P-158	J-117	H-22	True	4.0	Ductile Iron	140.0	False	0	0.00	1454	23	60	58
378	P-159	J-117	J-116	True	4.0	Asbestos Cement	140.0	False	10	0.26	1454	219	60	56
258	P-40	J-29	H-5	True	4.0	Ductile Iron	140.0	False	0	0.00	1677	26	60	58
259	P-41	J-29	J-30	True	8.0	Asbestos Cement	140.0	False	743	4.74	1677	89	60	54
1458	P-42(2)(1)	J-162	J-163	True	8.0	Asbestos Cement	140.0	False	723	4.61	1677	447	61	67
303	P-85	J-59	H-15	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	19	61	64
1828	P-87(1)(1)	J-59	J-227	True	8.0	Asbestos Cement	140.0	False	3	0.02	1550	244	61	45
1636	P-272	H-100	J-201	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	38	62	84
1460	P-209	H-49	J-163	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	24	63	67
1679	P-289	H-120	J-210	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	11	64	66
1677	P-169(1)(1)	J-129	J-210	True	10.0	Asbestos Cement	140.0	False	696	2.84	1712 W	86	64	66
1726	P-308	H-97	J-78	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	20	64	64
1713	P-301	H-107	J-217	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	23	66	70
391	P-172	PRV-2 (Marlboro)	J-129	True	10.0	Asbestos Cement	140.0	False	703	2.87	1712 W	48	66	64
1678	P-169(1)(2)	J-210	J-209	True	10.0	Asbestos Cement	140.0	False	683	2.79	1712 W	708	66	88
1452	P-207	H-47	J-161	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	21	67	67
1451	P-39(2)(2)	J-161	J-29	True	8.0	Asbestos Cement	140.0	False	749	4.78	1677	309	67	60
296	P-78	J-79	J-136	True	8.0	Asbestos Cement	140.0	False	157	1.00	1470	445	67	92
297	P-79	J-79	J-78	True	6.0	Asbestos Cement	140.0	False	20	0.23	1470	576	67	64
1459	P-42(2)(2)	J-163	J-34	True	8.0	Asbestos Cement	140.0	False	709	4.53	1677	450	67	74
1480	P-52(2)(2)(2)(2)(2)	J-168	J-38	True	8.0	Asbestos Cement	140.0	False	566	3.61	1407	516	68	82
1410	P-36(1)	J-24	J-151	True	10.0	Asbestos Cement	140.0	False	899	3.67	1677	40	69	69
1414	P-33(1)	J-24	J-152	True	6.0	Asbestos Cement	140.0	False	33	0.38	1677	392	69	57
1411	P-36(2)	J-151	J-25	True	10.0	Asbestos Cement	140.0	False	896	3.66	1677	304	69	70
1412	P-197	H-38	J-151	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	12	69	69
1719	P-305	H-150	J-21	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	26	69	70
1643	P-276	H-96	J-79	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	49	70	67
1424	P-200	H-40	J-154	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	25	70	70
1461	P-210	H-50	J-34	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	29	70	74
1422	P-38(1)	J-25	J-154	True	10.0	Asbestos Cement	140.0	False	869	3.55	1677	40	70	70
1737	P-37(1)	J-25	J-221	True	8.0	Asbestos Cement	140.0	False	17	0.11	1677	474	70	80
1426	P-38(2)(1)	J-154	J-155	True	10.0	Asbestos Cement	140.0	False	859	3.51	1677	565	70	72
1712	P-163(2)	J-217	J-131	True	8.0	Asbestos Cement	140.0	False	60	0.38	1722	478	70	87
1428	P-201	H-41	J-155	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	14	71	72
221	P-3	J-137	J-138	True	10.0	Asbestos Cement	140.0	False	21	0.09	1924 Main	1,518	71	115
1746	P-4(1)	J-137	J-225	True	12.0	Asbestos Cement	140.0	False	2,468	7.00	1924 Main	8,308	71	100
1721	P-306	H-117	J-125	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	25	71	70
339	P-121	J-94	J-94	True	8.0	Asbestos Cement	140.0	False	23	0.15	1454	580	72	112
1544	P-120(1)	J-95	J-182	True	8.0	Asbestos Cement	140.0	False	250	1.59	1454	551	72	92
1593	P-258	H-140	J-107	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	34	72	73
1430	P-38(2)(2)(1)	J-155	J-156	True	10.0	Asbestos Cement	140.0	False	843	3.44	1677	384	72	74
393	P-174	J-126	J-125	True	6.0	Asbestos Cement	140.0	False	7	0.08	1712 W	182	73	70
433	P-186	J-126	J-99	True	10.0	Steel	140.0	False	619	2.53	1712 W	2,647	73	120
302	P-84	J-58	J-59	True	8.0	Asbestos Cement	140.0	False	17	0.11	1407	165	74	61
1592	P-257	H-139	J-106	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	11	74	74
1434	P-38(2)(2)(2)(1)	J-156	J-157	True	10.0	Asbestos Cement	140.0	False	829	3.39	1677	468	74	76
351	P-132	J-106	J-107	True	4.0	Asbestos Cement	140.0	False	13	0.34	1712 E	158	74	73
261	P-43	J-34	J-35	True	8.0	Asbestos Cement	140.0	False	13	0.09	1677	609	74	44

FlexTable: Pipe Table
Current Time: 0.00 hours

ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
263	P-45	J-34	J-33	True	8.0	Asbestos Cement	140.0	False	679	4.34	1677	546	74	108
1542	P-237	H-77	J-95	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	34	74	72
356	P-137	J-110	J-111	True	8.0	Asbestos Cement	140.0	False	30	0.19	1712 E	165	75	55
404	P-185	J-110	H-25	True	4.0	Ductile Iron	140.0	False	0	0.00	1712 E	19	75	74
1602	P-263	H-129	J-118	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	23	75	76
1438	P-38(2)(2)(2)(2)(1)	J-157	J-158	True	10.0	Asbestos Cement	140.0	False	809	3.31	1677	552	76	78
376	P-157	J-118	J-117	True	8.0	Asbestos Cement	140.0	False	20	0.13	1454	450	76	60
1589	P-254	H-136	J-100	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	51	77	78
345	P-127	J-100	J-101	True	6.0	Asbestos Cement	140.0	False	20	0.23	1712 E	427	78	44
347	P-129	J-100	J-105	True	8.0	Asbestos Cement	140.0	False	163	1.04	1712 E	625	78	87
1442	P-38(2)(2)(2)(2)(2)(1)	J-158	J-159	True	10.0	Asbestos Cement	140.0	False	786	3.21	1677	387	78	80
1669	P-173(2)	J-208	J-126	True	10.0	Asbestos Cement	140.0	False	633	2.58	1712 W	272	79	73
1448	P-206	H-46	J-160	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	18	79	80
1443	P-38(2)(2)(2)(2)(2)(2)	J-159	J-28	True	10.0	Asbestos Cement	140.0	False	776	3.17	1677	314	80	81
1450	P-39(2)(1)	J-160	J-161	True	8.0	Asbestos Cement	140.0	False	759	4.85	1677	528	80	67
1739	P-311	H-151	J-221	True	6.0	Ductile Iron	130.0	False	0	0.00	1677	13	80	80
1738	P-37(2)	J-221	J-26	True	8.0	Asbestos Cement	140.0	False	0	0.00	1677	305	80	87
1628	P-270	H-125	J-199	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	5	81	82
1446	P-39(1)	J-28	J-160	True	8.0	Asbestos Cement	140.0	False	769	4.91	1677	56	81	80
271	P-53	J-38	H-8	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	23	82	83
272	P-54	J-38	J-40	True	8.0	Asbestos Cement	140.0	False	553	3.53	1407	241	82	92
1627	P-150(2)(2)	J-199	J-122	True	8.0	Asbestos Cement	140.0	False	17	0.11	1454	450	82	47
1715	P-303	H-109	J-1	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	42	84	85
1635	P-108(1)(2)	J-201	J-200	True	8.0	Asbestos Cement	140.0	False	23	0.15	1470	544	84	116
386	P-167	J-1	J-128	True	8.0	Asbestos Cement	140.0	False	0	0.00	1712 W	131	85	87
1723	P-175(1)	J-1	J-218	True	8.0	Asbestos Cement	140.0	False	470	3.00	1722	502	85	110
230	P-12	J-6	J-7	True	10.0	Asbestos Cement	140.0	False	1,812	7.40	1924	591	85	96
229	P-11	J-5	J-6	True	10.0	Asbestos Cement	140.0	False	1,818	7.43	1924	49	85	85
389	P-170	J-5	J-130	True	10.0	Asbestos Cement	140.0	False	709	2.90	1924	718	85	125
1683	P-290	H-121	J-211	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	16	85	86
1682	P-10(2)	J-211	J-5	True	10.0	Asbestos Cement	140.0	False	2,531	10.34	1924	41	86	85
387	P-168	J-128	J-127	True	8.0	Asbestos Cement	140.0	False	0	0.00	1712 W	297	87	91
348	P-130	J-105	J-106	True	6.0	Asbestos Cement	140.0	False	20	0.23	1712 E	391	87	74
352	P-133	J-105	J-108	True	8.0	Asbestos Cement	140.0	False	127	0.81	1712 E	253	87	89
1591	P-256	H-138	J-105	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	38	87	87
1706	P-164(1)	J-131	J-216	True	6.0	Asbestos Cement	140.0	False	43	0.49	1722	495	87	93
1605	P-156(2)	J-193	J-118	True	8.0	Asbestos Cement	140.0	False	37	0.23	1454	424	88	76
1588	P-253	H-135	J-191	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	17	88	90
1674	P-169(2)	J-209	J-127	True	10.0	Asbestos Cement	140.0	False	669	2.73	1712 W	98	88	91
1709	P-300	H-106	J-131	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	17	88	87
1503	P-222	H-61	J-53	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	24	88	89
1606	P-264	H-128	J-193	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	5	88	88
1398	P-193	H-35	J-148	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	15	89	90
1670	P-286	H-116	J-208	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	17	89	79
247	P-29	J-20	J-21	True	6.0	Asbestos Cement	140.0	False	10	0.11	1924	265	89	70
293	P-75	J-53	J-54	True	4.0	Asbestos Cement	140.0	False	17	0.43	1407	224	89	76
353	P-134	J-108	H-26	True	4.0	Ductile Iron	140.0	False	0	0.00	1712 E	21	89	88
354	P-135	J-108	J-109	True	8.0	Asbestos Cement	140.0	False	117	0.74	1712 E	463	89	94
1397	P-20(2)	J-148	J-16	True	8.0	Asbestos Cement	140.0	False	13	0.09	1924	416	90	87
1399	P-194	H-36	J-16	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	29	90	87
1587	P-126(2)(2)(2)(2)	J-191	J-100	True	10.0	Asbestos Cement	140.0	False	210	0.86	1712 E	631	90	78
1675	P-288	H-118	J-209	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	19	91	88
323	P-105	J-81	J-82	True	8.0	Asbestos Cement	140.0	False	0	0.00	1347	39	91	144
1671	P-287	H-119	J-127	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	31	91	91
1668	P-173(1)	J-127	J-208	True	10.0	Asbestos Cement	140.0	False	653	2.67	1712 W	575	91	79
364	P-145	J-104	J-103	True	4.0	Asbestos Cement	140.0	False	10	0.26	1712 E	259	92	88
295	P-77	J-136	H-13	True	4.0	Ductile Iron	140.0	False	0	0.00	1470	30	92	92

FlexTable: Pipe Table
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ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1645	P-76(1)	J-136	J-203	True	8.0	Asbestos Cement	140.0	False	140	0.89	1470	591	92	118
1693	P-293	H-111	J-213	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	5	92	98
1695	P-295	H-113	J-9	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	16	92	93
1594	P-259	H-144	J-104	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	26	92	92
1432	P-202	H-42	J-156	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	14	92	74
1548	P-120(2)(1)	J-182	J-183	True	8.0	Asbestos Cement	140.0	False	233	1.49	1454	439	92	109
273	P-55	J-40	J-39	True	4.0	Asbestos Cement	140.0	False	13	0.34	1407	420	92	67
274	P-56	J-40	H-9	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	42	92	95
275	P-57	J-40	J-41	True	4.0	Asbestos Cement	140.0	False	0	0.00	1407	197	92	127
1483	P-62(1)	J-40	J-169	True	8.0	Asbestos Cement	140.0	False	526	3.36	1407	486	92	98
1708	P-299	H-105	J-216	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	7	92	93
1707	P-164(2)	J-216	J-132	True	6.0	Asbestos Cement	140.0	False	20	0.23	1722	559	93	99
239	P-21	J-15	H-1	True	4.0	Ductile Iron	140.0	False	0	0.00	1924	15	93	90
1396	P-20(1)	J-15	J-148	True	8.0	Asbestos Cement	140.0	False	33	0.21	1924	525	93	90
1596	P-260	H-146	J-109	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	15	94	94
1394	P-192	H-34	J-147	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	21	94	99
355	P-136	J-109	J-110	True	8.0	Asbestos Cement	140.0	False	37	0.23	1712 E	320	94	75
361	P-142	J-109	J-115	True	8.0	Asbestos Cement	140.0	False	73	0.47	1712 E	304	94	112
1444	P-205	H-45	J-159	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	28	94	80
1689	P-292	H-110	J-7	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	47	94	96
243	P-25	J-18	H-3	True	4.0	Ductile Iron	140.0	False	0	0.00	1924	26	95	95
244	P-26	J-18	J-19	True	6.0	Asbestos Cement	140.0	False	17	0.19	1924	612	95	126
245	P-27	J-18	J-20	True	6.0	Asbestos Cement	140.0	False	20	0.23	1924	158	95	89
225	P-7	J-4	J-3	True	16.0	Asbestos Cement	140.0	False	-66	0.11	1924	1,118	95	15
1681	P-10(1)	J-4	J-211	True	10.0	Asbestos Cement	140.0	False	2,534	10.35	1924	683	95	86
220	P-2	J-139	J-137	True	10.0	Asbestos Cement	140.0	False	2,489	10.17	1924 Main	2,889	96	71
1687	P-6(2)	J-212	J-4	True	16.0	Asbestos Cement	140.0	False	2,468	3.94	1924	267	96	95
1686	P-6(1)	PRV-1 (Main)	J-212	True	16.0	Asbestos Cement	140.0	False	2,468	3.94	1924	40	96	96
379	P-160	J-7	J-133	True	8.0	Asbestos Cement	140.0	False	603	3.85	1924	473	96	118
1691	P-13(1)	J-7	J-213	True	10.0	Asbestos Cement	140.0	False	1,189	4.86	1924	399	96	98
322	P-104	J-75	J-81	True	8.0	Asbestos Cement	140.0	False	3	0.02	1347	233	97	91
1552	P-102(1)	J-75	J-184	True	6.0	Asbestos Cement	140.0	False	53	0.60	1347	30	97	97
1553	P-102(2)	J-184	J-76	True	6.0	Asbestos Cement	140.0	False	40	0.45	1347	562	97	100
237	P-19	J-14	J-15	True	8.0	Asbestos Cement	140.0	False	43	0.28	1924	281	97	93
1388	P-22(1)	J-14	J-146	True	8.0	Asbestos Cement	140.0	False	93	0.60	1924	318	97	113
1554	P-240	H-85	J-184	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	25	97	97
1440	P-204	H-44	J-158	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	22	98	78
1487	P-62(2)(1)	J-169	J-170	True	8.0	Asbestos Cement	140.0	False	506	3.23	1407	427	98	103
1692	P-13(2)	J-213	J-8	True	10.0	Asbestos Cement	140.0	False	1,176	4.80	1924	395	98	100
1704	P-298	H-104	J-132	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	10	99	99
1393	P-18(2)	J-147	J-14	True	8.0	Asbestos Cement	140.0	False	143	0.91	1924	46	99	97
1556	P-242	H-81	J-96	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	12	99	99
1747	P-4(2)	J-225	J-2	True	12.0	Asbestos Cement	140.0	False	2,468	7.00	1924 Main	2,646	100	109
1584	P-252	H-134	J-190	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	36	100	101
321	P-103	J-76	J-77	True	4.0	Asbestos Cement	140.0	False	10	0.26	1347	335	100	101
1694	P-294	H-112	J-8	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	44	100	100
300	P-82	J-57	H-14	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	30	100	102
301	P-83	J-57	J-58	True	8.0	Asbestos Cement	140.0	False	33	0.21	1407	495	100	74
232	P-14	J-8	J-9	True	6.0	Asbestos Cement	140.0	False	0	0.00	1924	451	100	93
1697	P-15(1)	J-8	J-214	True	10.0	Asbestos Cement	140.0	False	1,159	4.73	1924	450	100	110
1586	P-126(2)(2)(2)(1)	J-190	J-191	True	10.0	Asbestos Cement	140.0	False	230	0.94	1712 E	515	101	90
1600	P-144(2)	J-192	J-104	True	6.0	Asbestos Cement	140.0	False	27	0.30	1712 E	527	101	92
1485	P-216	H-56	J-169	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	27	102	98
1567	P-247	H-87	J-76	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	22	102	100
1436	P-203	H-43	J-157	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	13	103	76
1488	P-62(2)(2)	J-170	J-42	True	8.0	Asbestos Cement	140.0	False	493	3.15	1407	99	103	104
1489	P-217	H-57	J-170	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	26	103	103

FlexTable: Pipe Table
Current Time: 0.00 hours

ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1501	P-220	H-60	J-173	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	27	103	106
282	P-64	J-43	H-10	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	19	104	103
1491	P-65(1)	J-43	J-171	True	8.0	Asbestos Cement	140.0	False	473	3.02	1407	479	104	104
1615	P-156(1)(2)(2)	J-196	J-193	True	8.0	Asbestos Cement	140.0	False	57	0.36	1454	583	104	88
1688	P-291	H-148	J-212	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	30	104	96
1493	P-218	H-58	J-171	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	27	104	104
1699	P-296	H-114	J-214	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	13	104	110
1601	P-262	H-143	J-192	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	9	104	101
281	P-63	J-42	J-43	True	8.0	Asbestos Cement	140.0	False	490	3.12	1407	286	104	104
285	P-67	J-47	J-46	True	8.0	Asbestos Cement	140.0	False	53	0.34	1470	384	104	107
286	P-68	J-47	H-27	True	4.0	Ductile Iron	140.0	False	0	0.00	1470	20	104	104
1495	P-65(2)(1)	J-171	J-172	True	8.0	Asbestos Cement	140.0	False	450	2.87	1407	443	104	105
1664	P-284	H-90	J-46	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	62	104	107
1497	P-219	H-59	J-172	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	31	105	105
1496	P-65(2)(2)	J-172	J-50	True	8.0	Asbestos Cement	140.0	False	433	2.76	1407	293	105	106
1382	P-189	H-30	J-144	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	12	105	106
284	P-66	J-50	J-49	True	8.0	Asbestos Cement	140.0	False	0	0.00	1470	402	106	145
1499	P-71(1)	J-50	J-173	True	8.0	Asbestos Cement	140.0	False	430	2.74	1407	173	106	106
1546	P-238	H-78	J-182	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	11	106	92
1500	P-71(2)	J-173	J-51	True	8.0	Asbestos Cement	140.0	False	420	2.68	1407	384	106	106
1661	P-61(1)	J-45	J-207	True	6.0	Asbestos Cement	140.0	False	23	0.26	1470	401	106	112
1560	P-243	H-82	J-185	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	6	106	112
1381	P-24(2)	J-144	J-18	True	8.0	Asbestos Cement	140.0	False	43	0.28	1924	459	106	95
290	P-72	J-51	H-12	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	26	106	108
291	P-73	J-51	J-52	True	8.0	Asbestos Cement	140.0	False	403	2.57	1407	437	106	112
1733	P-101(2)(2)	J-220	J-75	True	8.0	Asbestos Cement	140.0	False	57	0.36	1347	379	106	97
314	P-96	J-56	J-67	True	8.0	Asbestos Cement	140.0	False	220	1.40	1347	256	107	110
277	P-59	J-46	J-45	True	6.0	Asbestos Cement	140.0	False	30	0.34	1470	81	107	106
1728	P-58(1)	J-46	J-219	True	8.0	Asbestos Cement	140.0	False	10	0.06	1470	425	107	116
1403	P-195	H-37	J-149	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	32	108	117
264	P-46	J-33	J-31	True	4.0	Asbestos Cement	140.0	False	13	0.34	1677	408	108	88
265	P-47	J-33	J-32	True	8.0	Asbestos Cement	140.0	False	653	4.17	1677	39	108	110
223	P-5	J-2	PRV-1 (Main)	True	16.0	Asbestos Cement	140.0	False	2,468	3.94	1924 Main	41	109	101
1798	Site 1 Source Pipe	J-2	Site 1 PRV	True	12.0	Steel	140.0	False	0	0.00	1924 Main	1,717	109	20
1549	P-120(2)(2)	J-183	J-93	True	8.0	Asbestos Cement	140.0	False	223	1.42	1454	671	109	134
1616	P-267	H-127	J-196	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	15	109	104
313	P-95	PRV-7 (Bridle)	J-56	True	8.0	Asbestos Cement	140.0	False	226	1.45	1347	76	109	107
1701	P-15(2)(1)	J-214	J-215	True	10.0	Asbestos Cement	140.0	False	1,139	4.65	1924	509	110	120
1724	P-175(2)	J-218	J-88	True	8.0	Asbestos Cement	140.0	False	453	2.89	1722	566	110	138
1582	P-126(2)(2)(1)	J-189	J-190	True	10.0	Asbestos Cement	140.0	False	250	1.02	1712 E	447	110	101
1614	P-156(1)(2)(1)	J-195	J-196	True	8.0	Asbestos Cement	140.0	False	80	0.51	1454	237	110	104
266	P-48	J-32	H-6	True	4.0	Ductile Iron	140.0	False	0	0.00	1677	33	110	110
267	P-49	J-32	J-36	True	8.0	Asbestos Cement	140.0	False	653	4.17	1677	187	110	122
315	P-97	J-67	J-66	True	4.0	Asbestos Cement	140.0	False	10	0.26	1347	255	110	107
316	P-98	J-67	J-68	True	8.0	Asbestos Cement	140.0	False	193	1.23	1347	320	110	115
1523	P-230	H-70	J-67	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	49	110	110
1725	P-307	H-103	J-218	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	7	110	110
1734	P-310	H-86	J-220	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	22	111	106
362	P-143	J-115	J-114	True	4.0	Asbestos Cement	140.0	False	10	0.26	1712 E	291	112	116
1599	P-144(1)	J-115	J-192	True	6.0	Asbestos Cement	140.0	False	47	0.53	1712 E	558	112	101
292	P-74	J-52	J-53	True	6.0	Asbestos Cement	140.0	False	40	0.45	1407	492	112	89
1505	P-80(1)	J-52	J-174	True	8.0	Asbestos Cement	140.0	False	336	2.15	1407	724	112	116
1502	P-221	H-62	J-52	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	72	112	112
1663	P-283	H-88	J-207	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	12	112	112
1662	P-61(2)	J-207	J-44	True	6.0	Asbestos Cement	140.0	False	10	0.11	1470	108	112	114
1559	P-146(2)	J-185	J-96	True	6.0	Asbestos Cement	140.0	False	17	0.19	1454	547	112	99
1597	P-261	H-142	J-115	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	43	113	112

FlexTable: Pipe Table
Current Time: 0.00 hours

ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1541	P-236	H-76	J-94	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	16	113	112
1632	P-271	H-101	J-200	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	29	113	116
1389	P-22(2)	J-146	J-17	True	8.0	Asbestos Cement	140.0	False	83	0.53	1924	320	113	130
1580	P-251	H-133	J-189	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	32	114	110
1612	P-266	H-126	J-195	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	36	114	110
1626	P-150(2)(1)	J-198	J-199	True	8.0	Asbestos Cement	140.0	False	27	0.17	1454	398	114	82
1524	P-231	H-71	J-68	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	54	114	115
1536	P-234	H-74	J-180	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	55	114	121
317	P-99	J-68	J-69	True	4.0	Asbestos Cement	140.0	False	20	0.51	1347	298	115	104
318	P-100	J-68	J-70	True	8.0	Asbestos Cement	140.0	False	163	1.04	1347	505	115	119
1624	P-269	H-124	J-198	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	5	115	114
1506	P-80(2)	J-174	J-55	True	8.0	Asbestos Cement	140.0	False	310	1.98	1407	505	116	118
1390	P-191	H-33	J-146	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	27	116	113
1729	P-58(2)	J-219	J-41	True	8.0	Asbestos Cement	140.0	False	0	0.00	1470	484	116	127
1385	P-24(1)(2)	J-145	J-144	True	8.0	Asbestos Cement	140.0	False	50	0.32	1924	443	116	106
1631	P-108(2)	J-200	J-82	True	8.0	Asbestos Cement	140.0	False	7	0.04	1470	466	116	144
1402	P-18(1)(2)	J-149	J-147	True	8.0	Asbestos Cement	140.0	False	153	0.98	1924	456	117	99
1732	P-101(2)(1)	J-178	J-220	True	8.0	Asbestos Cement	140.0	False	70	0.45	1347	400	117	106
1703	P-297	H-115	J-215	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	33	117	120
1507	P-223	H-63	J-174	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	27	118	116
380	P-161	J-133	PRV-3 (Ranchero)	True	8.0	Asbestos Cement	140.0	False	593	3.78	1924	76	118	123
1528	P-232	H-72	J-178	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	15	118	117
1618	P-154(1)	J-120	J-197	True	8.0	Asbestos Cement	140.0	False	110	0.70	1454	423	118	118
1622	P-150(1)	J-120	J-198	True	8.0	Asbestos Cement	140.0	False	27	0.17	1454	47	118	114
1578	P-126(2)(1)	J-188	J-189	True	10.0	Asbestos Cement	140.0	False	266	1.09	1712 E	390	118	110
1619	P-154(2)	J-197	J-119	True	8.0	Asbestos Cement	140.0	False	97	0.62	1454	492	118	118
1508	P-224	H-64	J-55	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	64	118	118
374	P-155	J-119	H-28	True	4.0	Ductile Iron	140.0	False	0	0.00	1454	24	118	115
1610	P-156(1)(1)	J-119	J-195	True	8.0	Asbestos Cement	140.0	False	80	0.51	1454	289	118	110
1649	P-76(2)(1)	J-203	J-204	True	8.0	Asbestos Cement	140.0	False	120	0.77	1470	476	118	139
1656	P-69(2)	J-205	J-47	True	8.0	Asbestos Cement	140.0	False	67	0.43	1470	286	118	104
299	P-81	J-55	J-57	True	8.0	Asbestos Cement	140.0	False	60	0.38	1407	453	118	100
312	P-94	J-55	PRV-7 (Bridle)	True	8.0	Asbestos Cement	140.0	False	226	1.45	1407	59	118	122
1526	P-101(1)	J-70	J-178	True	8.0	Asbestos Cement	140.0	False	87	0.55	1347	95	119	117
1530	P-109(1)	J-70	J-179	True	8.0	Asbestos Cement	140.0	False	67	0.43	1347	376	119	120
1576	P-250	H-132	J-188	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	27	119	118
1570	P-125(1)	J-99	J-187	True	8.0	Asbestos Cement	140.0	False	336	2.15	1712 E	459	120	133
1574	P-126(1)	J-99	J-188	True	10.0	Asbestos Cement	140.0	False	276	1.13	1712 E	81	120	118
1531	P-109(2)	J-179	J-71	True	8.0	Asbestos Cement	140.0	False	43	0.28	1347	393	120	120
1532	P-233	H-73	J-179	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	30	120	120
1540	P-235	H-75	J-181	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	48	120	123
1657	P-281	H-91	J-205	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	13	120	118
328	P-110	J-71	H-18	True	4.0	Ductile Iron	140.0	False	0	0.00	1347	38	120	122
329	P-111	J-71	J-94	True	8.0	Asbestos Cement	140.0	False	0	0.00	1454	582	120	112
1534	P-112(1)	J-71	J-180	True	8.0	Asbestos Cement	140.0	False	27	0.17	1347	421	120	121
1702	P-15(2)(2)	J-215	J-10	True	10.0	Asbestos Cement	140.0	False	1,126	4.60	1924	86	120	122
1535	P-112(2)	J-180	J-72	True	8.0	Asbestos Cement	140.0	False	23	0.15	1347	452	121	121
331	P-113	J-72	H-19	True	4.0	Ductile Iron	140.0	False	0	0.00	1347	30	121	122
1538	P-114(1)	J-72	J-181	True	8.0	Asbestos Cement	140.0	False	17	0.11	1347	300	121	123
268	P-50	J-36	PRV-8 (Zanja)	True	8.0	Asbestos Cement	140.0	False	646	4.12	1677	51	122	124
1741	P-16(1)	J-10	J-222	True	10.0	Steel	140.0	False	1,116	4.56	1924	1,092	122	202
1564	P-244	H-83	J-186	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	33	122	123
1563	P-146(1)(2)	J-186	J-185	True	6.0	Asbestos Cement	140.0	False	40	0.45	1454	423	123	112
1386	P-190	H-31	J-145	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	13	123	116
1539	P-114(2)	J-181	J-73	True	8.0	Asbestos Cement	140.0	False	7	0.04	1347	312	123	125
333	P-115	J-73	J-74	True	8.0	Asbestos Cement	140.0	False	0	0.00	1347	271	125	129

FlexTable: Pipe Table
Current Time: 0.00 hours

ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
390	P-171	J-130	PRV-2 (Marlboro)	True	10.0	Asbestos Cement	140.0	False	703	2.87	1924	275	125	147
1730	P-309	H-89	J-219	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	25	125	116
1620	P-268	H-123	J-197	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	4	125	118
1522	P-229	H-69	J-177	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	10	126	137
367	P-148	J-121	H-20	True	4.0	Ductile Iron	140.0	False	0	0.00	1454	26	126	127
368	P-149	J-121	J-120	True	8.0	Asbestos Cement	140.0	False	140	0.89	1454	197	126	118
1518	P-228	H-68	J-62	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	55	127	128
1378	P-188	H-29	J-19	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	23	128	126
1572	P-249	H-131	J-187	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	15	128	133
308	P-90	J-62	J-65	True	4.0	Asbestos Cement	140.0	False	23	0.60	1550	431	128	120
1520	P-91(1)	J-62	J-177	True	8.0	Asbestos Cement	140.0	False	47	0.30	1550	470	128	137
1647	P-277	H-95	J-203	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	18	128	118
1550	P-239	H-79	J-183	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	30	129	109
241	P-23	J-17	H-2	True	4.0	Ductile Iron	140.0	False	0	0.00	1924	21	130	131
1384	P-24(1)(1)	J-17	J-145	True	8.0	Asbestos Cement	140.0	False	70	0.45	1924	592	130	116
248	P-30	J-12	PRV-4 (Saddlebow)	True	10.0	Asbestos Cement	140.0	False	946	3.86	1924	26	131	138
1401	P-18(1)(1)	J-12	J-149	True	8.0	Asbestos Cement	140.0	False	167	1.06	1924	364	131	117
1565	P-245	H-80	J-93	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	56	132	134
1571	P-125(2)	J-187	J-98	True	8.0	Asbestos Cement	140.0	False	313	2.00	1712 E	480	133	147
337	P-119	J-93	J-92	True	8.0	Asbestos Cement	140.0	False	157	1.00	1454	390	134	135
1562	P-146(1)(1)	J-93	J-186	True	6.0	Asbestos Cement	140.0	False	47	0.53	1454	448	134	123
1568	P-248	H-84	J-91	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	48	135	135
336	P-118	J-92	J-91	True	8.0	Asbestos Cement	140.0	False	3	0.02	1454	28	135	135
366	P-147	J-92	J-121	True	8.0	Asbestos Cement	140.0	False	143	0.91	1454	402	135	126
335	P-117	J-91	J-83	True	8.0	Asbestos Cement	140.0	False	3	0.02	1454	199	135	136
334	P-116	J-83	J-82	True	8.0	Asbestos Cement	140.0	False	0	0.00	1454	30	136	144
1521	P-91(2)	J-177	J-63	True	8.0	Asbestos Cement	140.0	False	17	0.11	1550	516	137	146
1717	P-304	H-149	J-88	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	44	138	138
395	P-176	J-88	J-87	True	6.0	Asbestos Cement	140.0	False	0	0.00	1722	307	138	35
399	P-180	J-88	J-85	True	8.0	Asbestos Cement	140.0	False	443	2.83	1722	374	138	147
1650	P-76(2)(2)	J-204	J-49	True	8.0	Asbestos Cement	140.0	False	107	0.68	1470	129	139	145
1653	P-280	H-92	J-48	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	117	140	142
1641	P-274	H-102	J-89	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	29	140	141
401	P-182	J-89	J-90	True	4.0	Asbestos Cement	140.0	False	10	0.26	1722	225	141	135
1517	P-227	H-67	J-176	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	37	142	144
1655	P-69(1)	J-48	J-205	True	8.0	Asbestos Cement	140.0	False	83	0.53	1470	481	142	118
1516	P-88(2)	J-176	J-60	True	4.0	Asbestos Cement	140.0	False	13	0.34	1550	141	144	140
1642	P-275	H-98	J-85	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	53	145	147
288	P-70	J-49	J-48	True	8.0	Asbestos Cement	140.0	False	100	0.64	1470	230	145	142
310	P-92	J-63	H-16	True	4.0	Ductile Iron	140.0	False	0	0.00	1550	37	146	145
311	P-93	J-63	J-64	True	8.0	Asbestos Cement	140.0	False	3	0.02	1550	68	146	148
1652	P-279	H-93	J-49	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	57	146	145
1651	P-278	H-94	J-204	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	32	147	139
400	P-181	J-85	J-89	True	6.0	Asbestos Cement	140.0	False	23	0.26	1722	687	147	141
402	P-183	J-85	PRV-5 (Colt)	True	8.0	Asbestos Cement	140.0	False	253	1.62	1722	82	147	150
1826	Flintlock Bypass	J-85	J-175	True	6.0	Ductile Iron	130.0	False	157	1.78	1550	5,495	147	183
1555	P-241	H-130	J-98	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	14	147	147
342	P-124	J-98	PRV-6 (Dapplegray)	True	8.0	Asbestos Cement	140.0	False	300	1.91	1712 E	24	147	152
1513	P-226	H-66	J-61	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	44	153	154
307	P-89	J-61	J-62	True	8.0	Asbestos Cement	140.0	False	93	0.60	1550	390	154	128
1515	P-88(1)	J-61	J-176	True	4.0	Asbestos Cement	140.0	False	30	0.77	1550	329	154	144
1511	P-87(2)	J-175	J-61	True	8.0	Asbestos Cement	140.0	False	147	0.94	1550	466	183	154
1512	P-225	H-65	J-175	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	13	185	183
1742	P-16(2)	J-222	J-11	True	10.0	Steel	140.0	False	1,116	4.56	1924	325	202	226

FlexTable: Pipe Table
Current Time: 0.00 hours

ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
235	P-17	J-11	J-12	True	10.0	Steel	140.0	False	1,116	4.56	1924	1,534	226	131

ID	Label	Hydrant Status	Include Hydrant Lateral Loss?	Emitter Coefficient (gpm/psi^ n)	Length (Hydrant Lateral) (ft)	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Satisfies Fire Flow Constraints?	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)
1299	H-67	Open	False	0.000	20	1,371.27	1550	<Collection: 0 items>	0	1,699.56	142	False	588	1,000
57	H-16	Open	False	0.000	20	1,363.99	1550	<Collection: 0 items>	0	1,699.69	145	False	611	1,000
1301	H-69	Open	False	0.000	20	1,408.00	1550	<Collection: 0 items>	0	1,699.69	126	False	611	1,000
1300	H-68	Open	False	0.000	20	1,407.32	1550	<Collection: 0 items>	0	1,699.72	127	False	611	1,000
1298	H-66	Open	False	0.000	20	1,345.71	1550	<Collection: 0 items>	0	1,699.79	153	False	615	1,000
1297	H-65	Open	False	0.000	20	1,273.44	1550	<Collection: 0 items>	0	1,700.00	185	False	621	1,000
56	H-15	Open	False	0.000	20	1,229.57	1407	<Collection: 0 items>	0	1,376.39	64	False	722	1,000
55	H-14	Open	False	0.000	20	1,141.15	1407	<Collection: 0 items>	0	1,376.41	102	False	746	1,000
1296	H-64	Open	False	0.000	20	1,103.57	1407	<Collection: 0 items>	0	1,376.45	118	False	765	1,000
48	H-7	Open	False	0.000	20	1,535.87	1677	<Collection: 0 items>	0	1,642.23	46	False	778	1,000
1295	H-63	Open	False	0.000	20	1,105.70	1407	<Collection: 0 items>	0	1,377.37	118	False	799	1,000
1369	H-137	Open	False	0.000	20	1,605.17	1712 E	<Collection: 0 items>	0	1,701.43	42	False	836	1,000
47	H-6	Open	False	0.000	20	1,384.44	1677	<Collection: 0 items>	0	1,637.71	110	False	841	1,000
1282	H-50	Open	False	0.000	20	1,480.51	1677	<Collection: 0 items>	0	1,642.24	70	False	841	1,000
1718	H-150	Open	False	0.000	20	1,698.18	1924	<Collection: 0 items>	0	1,858.77	69	False	857	1,000
1294	H-62	Open	False	0.000	20	1,119.88	1407	<Collection: 0 items>	0	1,378.90	112	False	857	1,000
1293	H-61	Open	False	0.000	20	1,174.96	1407	<Collection: 0 items>	0	1,378.82	88	False	858	1,000
53	H-12	Open	False	0.000	20	1,129.88	1407	<Collection: 0 items>	0	1,380.19	108	False	901	1,000
1372	H-140	Open	False	0.000	20	1,534.45	1712 E	<Collection: 0 items>	0	1,701.06	72	False	904	1,000
1319	H-87	Open	False	0.000	20	1,109.32	1347	<Collection: 0 items>	0	1,346.14	102	False	917	1,000
64	H-23	Open	False	0.000	20	1,595.52	1712 E	<Collection: 0 items>	0	1,700.86	46	False	919	1,000
1281	H-49	Open	False	0.000	20	1,500.72	1677	<Collection: 0 items>	0	1,646.03	63	False	930	1,000
1292	H-60	Open	False	0.000	20	1,142.35	1407	<Collection: 0 items>	0	1,381.42	103	False	945	1,000
1317	H-85	Open	False	0.000	20	1,121.44	1347	<Collection: 0 items>	0	1,346.23	97	False	968	1,000
1318	H-86	Open	False	0.000	20	1,090.62	1347	<Collection: 0 items>	0	1,346.27	111	False	986	1,000
1261	H-29	Open	False	0.000	20	1,563.14	1924	<Collection: 0 items>	0	1,858.76	128	True	1,002	1,000
44	H-3	Open	False	0.000	20	1,638.70	1924	<Collection: 0 items>	0	1,858.78	95	True	1,002	1,000
1304	H-72	Open	False	0.000	20	1,073.93	1347	<Collection: 0 items>	0	1,346.32	118	True	1,006	1,000
1291	H-59	Open	False	0.000	20	1,140.41	1407	<Collection: 0 items>	0	1,382.98	105	True	1,006	1,000
63	H-22	Open	False	0.000	20	1,317.31	1454	<Collection: 0 items>	0	1,450.65	58	True	1,009	1,000
1305	H-73	Open	False	0.000	20	1,069.21	1347	<Collection: 0 items>	0	1,346.29	120	True	1,011	1,000
59	H-18	Open	False	0.000	20	1,064.56	1347	<Collection: 0 items>	0	1,346.28	122	True	1,011	1,000
60	H-19	Open	False	0.000	20	1,063.68	1347	<Collection: 0 items>	0	1,346.26	122	True	1,011	1,000
1307	H-75	Open	False	0.000	20	1,069.02	1347	<Collection: 0 items>	0	1,346.26	120	True	1,011	1,000
1306	H-74	Open	False	0.000	20	1,081.76	1347	<Collection: 0 items>	0	1,346.27	114	True	1,011	1,000
65	H-24	Open	False	0.000	20	1,572.15	1712 E	<Collection: 0 items>	0	1,700.86	56	True	1,038	1,000
1262	H-30	Open	False	0.000	20	1,615.23	1924	<Collection: 0 items>	0	1,858.81	105	True	1,039	1,000
1280	H-48	Open	False	0.000	20	1,521.55	1677	<Collection: 0 items>	0	1,649.93	56	True	1,042	1,000
1303	H-71	Open	False	0.000	20	1,082.52	1347	<Collection: 0 items>	0	1,346.61	114	True	1,043	1,000
66	H-25	Open	False	0.000	20	1,528.95	1712 E	<Collection: 0 items>	0	1,700.87	74	True	1,058	1,000
1665	H-147	Open	False	0.000	20	1,340.35	1454	<Collection: 0 items>	0	1,451.00	48	True	1,061	1,000
1302	H-70	Open	False	0.000	20	1,091.91	1347	<Collection: 0 items>	0	1,346.86	110	True	1,066	1,000
1370	H-138	Open	False	0.000	20	1,499.38	1712 E	<Collection: 0 items>	0	1,701.10	87	True	1,068	1,000
1368	H-136	Open	False	0.000	20	1,523.76	1712 E	<Collection: 0 items>	0	1,701.45	77	True	1,068	1,000
67	H-26	Open	False	0.000	20	1,497.30	1712 E	<Collection: 0 items>	0	1,701.02	88	True	1,068	1,000
1375	H-143	Open	False	0.000	20	1,460.15	1712 E	<Collection: 0 items>	0	1,700.72	104	True	1,068	1,000
1595	H-146	Open	False	0.000	20	1,484.65	1712 E	<Collection: 0 items>	0	1,700.88	94	True	1,068	1,000
1374	H-142	Open	False	0.000	20	1,440.81	1712 E	<Collection: 0 items>	0	1,700.84	113	True	1,068	1,000
1376	H-144	Open	False	0.000	20	1,487.71	1712 E	<Collection: 0 items>	0	1,700.67	92	True	1,068	1,000
1371	H-139	Open	False	0.000	20	1,530.99	1712 E	<Collection: 0 items>	0	1,701.09	74	True	1,068	1,000
1290	H-58	Open	False	0.000	20	1,144.41	1407	<Collection: 0 items>	0	1,384.59	104	True	1,075	1,000
1263	H-31	Open	False	0.000	20	1,574.44	1924	<Collection: 0 items>	0	1,858.83	123	True	1,080	1,000
1361	H-129	Open	False	0.000	20	1,277.86	1454	<Collection: 0 items>	0	1,450.65	75	True	1,084	1,000
1367	H-135	Open	False	0.000	20	1,498.84	1712 E	<Collection: 0 items>	0	1,701.64	88	True	1,126	1,000
1360	H-128	Open	False	0.000	20	1,246.52	1454	<Collection: 0 items>	0	1,450.67	88	True	1,128	1,000
1357	H-125	Open	False	0.000	20	1,264.04	1454	<Collection: 0 items>	0	1,451.00	81	True	1,134	1,000
43	H-2	Open	False	0.000	20	1,557.21	1924	<Collection: 0 items>	0	1,858.90	131	True	1,145	1,000
51	H-10	Open	False	0.000	20	1,148.70	1407	<Collection: 0 items>	0	1,386.49	103	True	1,165	1,000

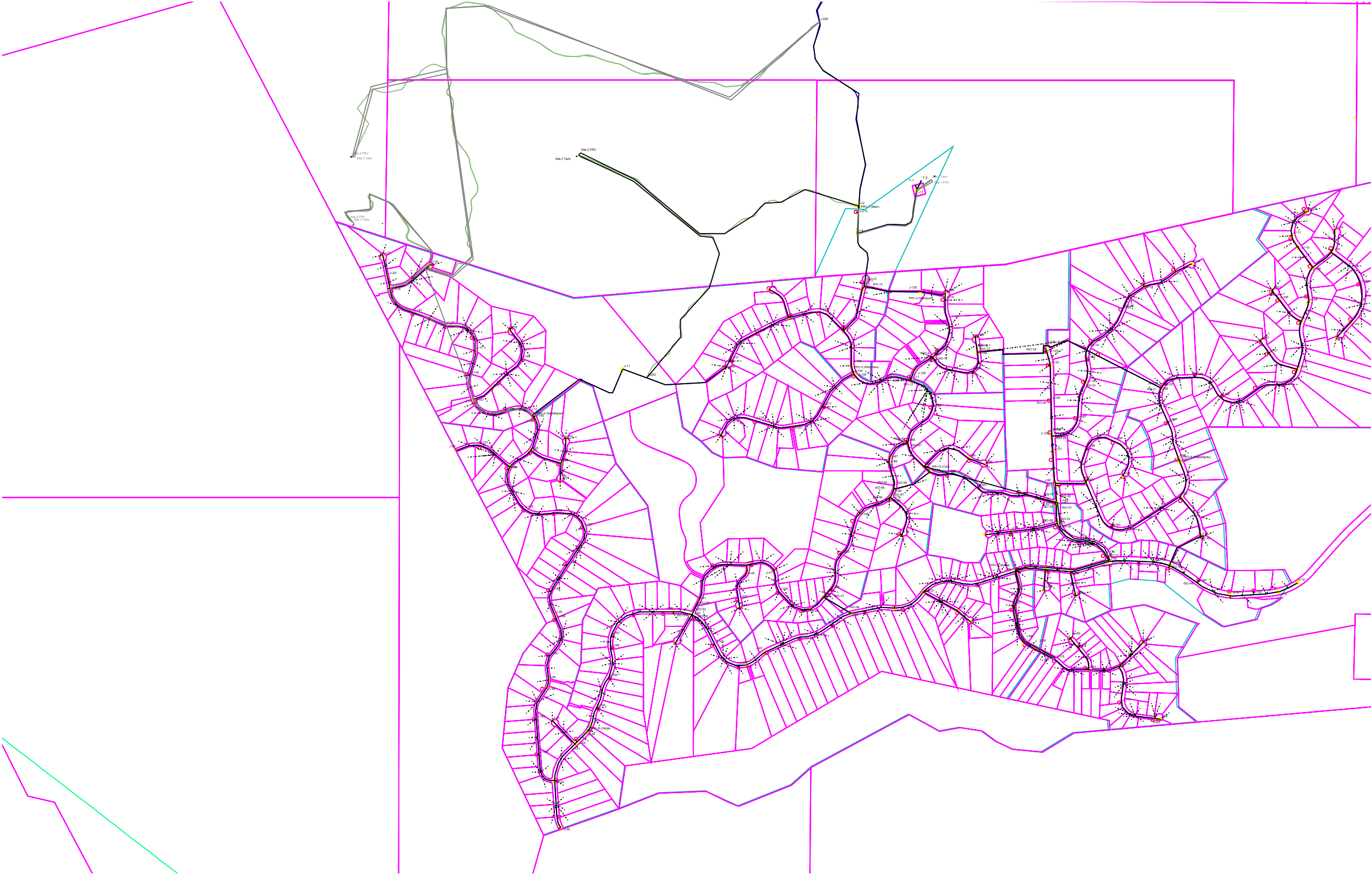
FlexTable: Hydrant Table

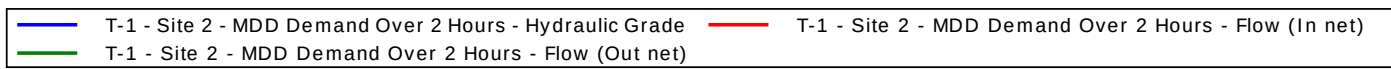
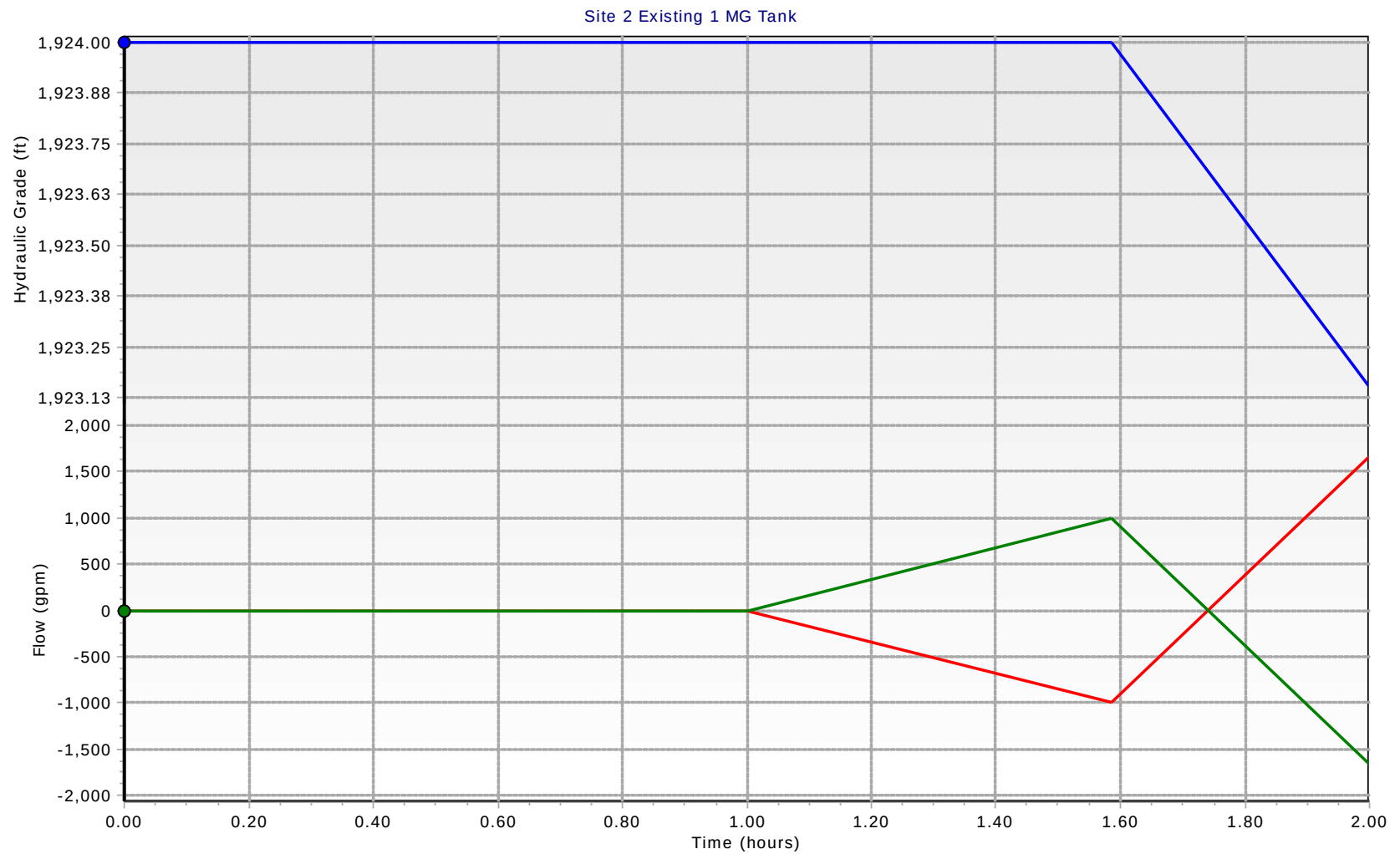
ID	Label	Hydrant Status	Include Hydrant Lateral Loss?	Emitter Coefficient (gpm/psi^n)	Length (Hydrant Lateral) (ft)	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Satisfies Fire Flow Constraints?	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)
1366	H-134	Open	False	0.000	20	1,470.69	1712 E	<Collection: 0 items>	0	1,701.82	100	True	1,181	1,000
1265	H-33	Open	False	0.000	20	1,590.74	1924	<Collection: 0 items>	0	1,858.95	116	True	1,186	1,000
1356	H-124	Open	False	0.000	20	1,184.83	1454	<Collection: 0 items>	0	1,451.01	115	True	1,201	1,000
1359	H-127	Open	False	0.000	20	1,198.95	1454	<Collection: 0 items>	0	1,450.71	109	True	1,202	1,000
1355	H-123	Open	False	0.000	20	1,161.20	1454	<Collection: 0 items>	0	1,450.90	125	True	1,209	1,000
78	H-28	Open	False	0.000	20	1,185.27	1454	<Collection: 0 items>	0	1,450.79	115	True	1,209	1,000
1358	H-126	Open	False	0.000	20	1,187.19	1454	<Collection: 0 items>	0	1,450.75	114	True	1,210	1,000
1268	H-36	Open	False	0.000	20	1,650.79	1924	<Collection: 0 items>	0	1,858.98	90	True	1,212	1,000
46	H-5	Open	False	0.000	20	1,520.50	1677	<Collection: 0 items>	0	1,654.82	58	True	1,229	1,000
42	H-1	Open	False	0.000	20	1,649.90	1924	<Collection: 0 items>	0	1,859.00	90	True	1,232	1,000
1267	H-35	Open	False	0.000	20	1,654.33	1924	<Collection: 0 items>	0	1,858.99	89	True	1,233	1,000
1365	H-133	Open	False	0.000	20	1,439.45	1712 E	<Collection: 0 items>	0	1,702.00	114	True	1,237	1,000
1266	H-34	Open	False	0.000	20	1,641.98	1924	<Collection: 0 items>	0	1,859.03	94	True	1,240	1,000
1289	H-57	Open	False	0.000	20	1,149.48	1407	<Collection: 0 items>	0	1,388.13	103	True	1,252	1,000
61	H-20	Open	False	0.000	20	1,157.23	1454	<Collection: 0 items>	0	1,451.09	127	True	1,255	1,000
1313	H-81	Open	False	0.000	20	1,222.00	1454	<Collection: 0 items>	0	1,451.28	99	True	1,264	1,000
1364	H-132	Open	False	0.000	20	1,426.61	1712 E	<Collection: 0 items>	0	1,702.18	119	True	1,292	1,000
1363	H-131	Open	False	0.000	20	1,404.57	1712 E	<Collection: 0 items>	0	1,701.25	128	True	1,304	1,000
1362	H-130	Open	False	0.000	20	1,359.51	1712 E	<Collection: 0 items>	0	1,700.36	147	True	1,304	1,000
1269	H-37	Open	False	0.000	20	1,610.55	1924	<Collection: 0 items>	0	1,859.26	108	True	1,324	1,000
1288	H-56	Open	False	0.000	20	1,153.45	1407	<Collection: 0 items>	0	1,390.06	102	True	1,328	1,000
1316	H-84	Open	False	0.000	20	1,140.00	1454	<Collection: 0 items>	0	1,451.27	135	True	1,362	1,000
58	H-17	Open	False	0.000	20	1,382.29	1470	<Collection: 0 items>	0	1,469.62	38	True	1,365	1,000
1279	H-47	Open	False	0.000	20	1,503.08	1677	<Collection: 0 items>	0	1,657.70	67	True	1,376	1,000
50	H-9	Open	False	0.000	20	1,173.00	1407	<Collection: 0 items>	0	1,392.42	95	True	1,387	1,000
1283	H-51	Open	False	0.000	20	1,332.87	1407	<Collection: 0 items>	0	1,405.16	31	True	1,415	1,000
1287	H-55	Open	False	0.000	20	1,261.84	1407	<Collection: 0 items>	0	1,396.56	58	True	1,418	1,000
49	H-8	Open	False	0.000	20	1,202.06	1407	<Collection: 0 items>	0	1,393.69	83	True	1,419	1,000
1286	H-54	Open	False	0.000	20	1,274.19	1407	<Collection: 0 items>	0	1,398.97	54	True	1,419	1,000
1285	H-53	Open	False	0.000	20	1,274.56	1407	<Collection: 0 items>	0	1,399.95	54	True	1,438	1,000
1284	H-52	Open	False	0.000	20	1,299.41	1407	<Collection: 0 items>	0	1,402.36	45	True	1,453	1,000
1314	H-82	Open	False	0.000	20	1,206.58	1454	<Collection: 0 items>	0	1,451.30	106	True	1,497	1,000
1312	H-80	Open	False	0.000	20	1,147.31	1454	<Collection: 0 items>	0	1,451.47	132	True	1,497	1,000
1315	H-83	Open	False	0.000	20	1,168.35	1454	<Collection: 0 items>	0	1,451.37	122	True	1,497	1,000
1278	H-46	Open	False	0.000	20	1,479.97	1677	<Collection: 0 items>	0	1,662.76	79	True	1,563	1,000
1336	H-104	Open	False	0.000	20	1,493.49	1722	<Collection: 0 items>	0	1,721.66	99	True	1,603	1,000
1329	H-97	Open	False	0.000	20	1,322.00	1470	<Collection: 0 items>	0	1,469.52	64	True	1,604	1,000
1277	H-45	Open	False	0.000	20	1,447.01	1677	<Collection: 0 items>	0	1,664.36	94	True	1,610	1,000
1322	H-90	Open	False	0.000	20	1,227.53	1470	<Collection: 0 items>	0	1,468.70	104	True	1,611	1,000
1271	H-39	Open	False	0.000	20	1,544.28	1677	<Collection: 0 items>	0	1,674.89	57	True	1,622	1,000
1320	H-88	Open	False	0.000	20	1,209.27	1470	<Collection: 0 items>	0	1,468.67	112	True	1,630	1,000
1276	H-44	Open	False	0.000	20	1,440.27	1677	<Collection: 0 items>	0	1,665.69	98	True	1,650	1,000
1275	H-43	Open	False	0.000	20	1,430.19	1677	<Collection: 0 items>	0	1,667.69	103	True	1,711	1,000
1334	H-102	Open	False	0.000	20	1,388.52	1722	<Collection: 0 items>	0	1,713.10	140	True	1,763	1,000
1274	H-42	Open	False	0.000	20	1,456.43	1677	<Collection: 0 items>	0	1,669.47	92	True	1,769	1,000
1324	H-92	Open	False	0.000	20	1,145.62	1470	<Collection: 0 items>	0	1,468.84	140	True	1,804	1,000
1273	H-41	Open	False	0.000	20	1,507.89	1677	<Collection: 0 items>	0	1,670.97	71	True	1,820	1,000
1345	H-113	Open	False	0.000	20	1,673.20	1924	<Collection: 0 items>	0	1,886.10	92	True	1,852	1,000
1311	H-79	Open	False	0.000	20	1,153.44	1454	<Collection: 0 items>	0	1,452.13	129	True	1,866	1,000
1272	H-40	Open	False	0.000	20	1,511.63	1677	<Collection: 0 items>	0	1,673.26	70	True	1,903	1,000
1735	H-151	Open	False	0.000	20	1,489.00	1677	<Collection: 0 items>	0	1,673.42	80	True	1,909	1,000
1321	H-89	Open	False	0.000	20	1,179.25	1470	<Collection: 0 items>	0	1,468.70	125	True	1,931	1,000
1270	H-38	Open	False	0.000	20	1,515.60	1677	<Collection: 0 items>	0	1,674.76	69	True	1,959	1,000
1404	H-145	Open	False	0.000	20	1,549.51	1677	<Collection: 0 items>	0	1,676.95	55	True	1,974	1,000
77	H-27	Open	False	0.000	20	1,228.30	1470	<Collection: 0 items>	0	1,468.73	104	True	1,978	1,000
1337	H-105	Open	False	0.000	20	1,508.05	1722	<Collection: 0 items>	0	1,721.69	92	True	2,070	1,000
1349	H-117	Open	False	0.000	20	1,544.32	1712 W	<Collection: 0 items>	0	1,708.08	71	True	2,134	1,000
1328	H-96	Open	False	0.000	20	1,308.29	1470	<Collection: 0 items>	0	1,469.54	70	True	2,170	1,000

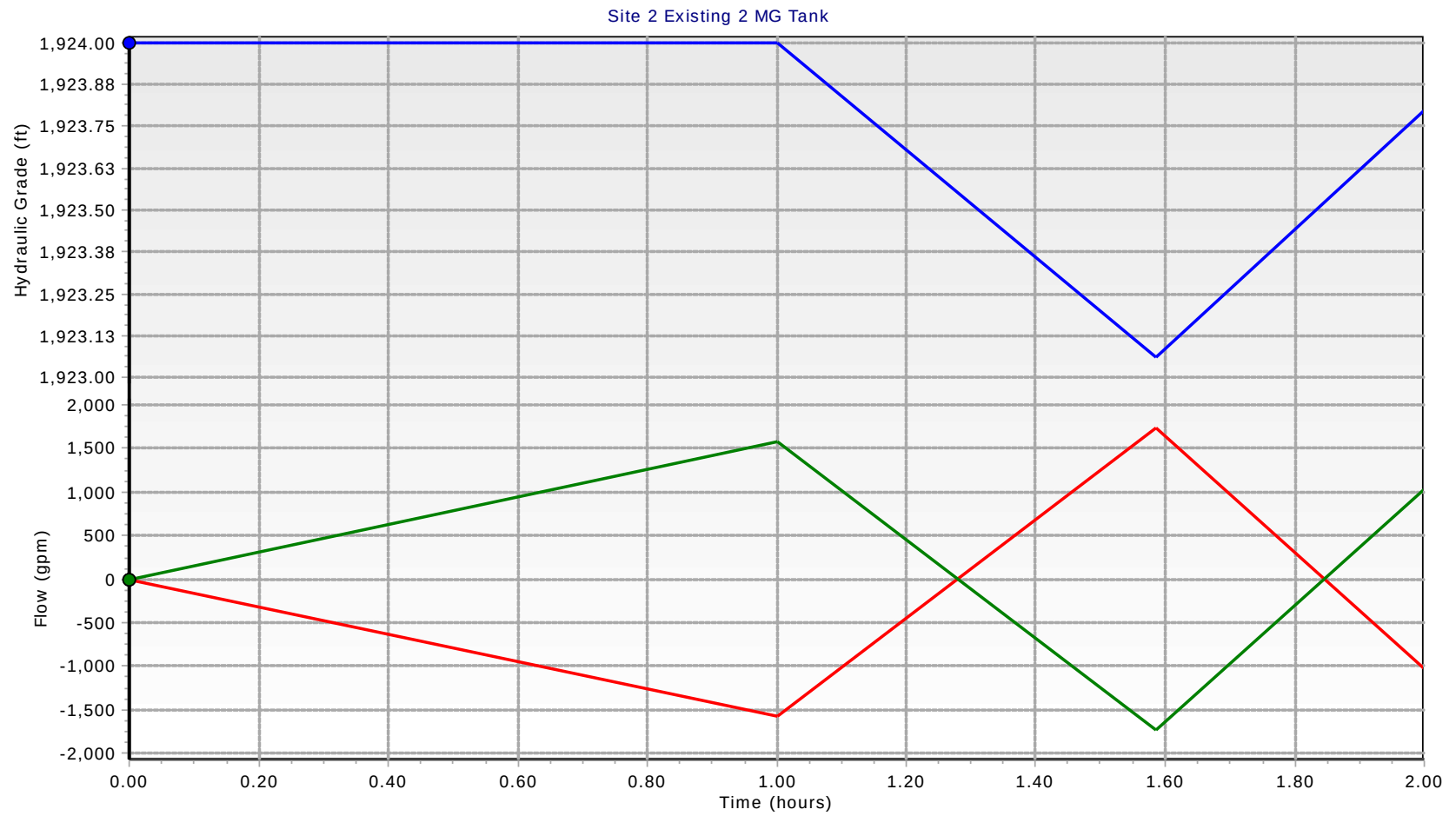
FlexTable: Hydrant Table

ID	Label	Hydrant Status	Include Hydrant Lateral Loss?	Emitter Coefficient (gpm/psi^n)	Length (Hydrant Lateral) (ft)	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Satisfies Fire Flow Constraints?	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)
1347	H-115	Open	False	0.000	20	1,609.54	1924	<Collection: 0 items>	0	1,879.45	117	True	2,190	1,000
1330	H-98	Open	False	0.000	20	1,377.73	1722	<Collection: 0 items>	0	1,713.14	145	True	2,201	1,000
1310	H-78	Open	False	0.000	20	1,208.48	1454	<Collection: 0 items>	0	1,452.60	106	True	2,210	1,000
1344	H-112	Open	False	0.000	20	1,654.95	1924	<Collection: 0 items>	0	1,886.10	100	True	2,255	1,000
1332	H-100	Open	False	0.000	20	1,326.41	1470	<Collection: 0 items>	0	1,470.02	62	True	2,256	1,000
1323	H-91	Open	False	0.000	20	1,190.92	1470	<Collection: 0 items>	0	1,468.76	120	True	2,262	1,000
1325	H-93	Open	False	0.000	20	1,130.69	1470	<Collection: 0 items>	0	1,468.89	146	True	2,295	1,000
1341	H-109	Open	False	0.000	20	1,524.59	1722	<Collection: 0 items>	0	1,718.51	84	True	2,321	1,000
1716	H-149	Open	False	0.000	20	1,396.16	1722	<Collection: 0 items>	0	1,714.46	138	True	2,348	1,000
1342	H-110	Open	False	0.000	20	1,674.11	1924	<Collection: 0 items>	0	1,891.92	94	True	2,369	1,000
1309	H-77	Open	False	0.000	20	1,281.14	1454	<Collection: 0 items>	0	1,453.27	74	True	2,373	1,000
54	H-13	Open	False	0.000	20	1,257.19	1470	<Collection: 0 items>	0	1,469.32	92	True	2,410	1,000
1326	H-94	Open	False	0.000	20	1,129.78	1470	<Collection: 0 items>	0	1,468.92	147	True	2,410	1,000
1327	H-95	Open	False	0.000	20	1,172.07	1470	<Collection: 0 items>	0	1,469.07	128	True	2,411	1,000
1308	H-76	Open	False	0.000	20	1,192.64	1454	<Collection: 0 items>	0	1,453.26	113	True	2,419	1,000
1346	H-114	Open	False	0.000	20	1,642.55	1924	<Collection: 0 items>	0	1,882.93	104	True	2,441	1,000
1331	H-99	Open	False	0.000	20	1,353.73	1470	<Collection: 0 items>	0	1,470.04	50	True	2,470	1,000
1333	H-101	Open	False	0.000	20	1,208.54	1470	<Collection: 0 items>	0	1,470.01	113	True	2,508	1,000
1339	H-107	Open	False	0.000	20	1,570.38	1722	<Collection: 0 items>	0	1,721.83	66	True	2,522	1,000
1338	H-106	Open	False	0.000	20	1,518.04	1722	<Collection: 0 items>	0	1,721.79	88	True	2,646	1,000
1335	H-103	Open	False	0.000	20	1,461.38	1722	<Collection: 0 items>	0	1,716.53	110	True	2,764	1,000
1340	H-108	Open	False	0.000	20	1,603.64	1722	<Collection: 0 items>	0	1,721.81	51	True	2,919	1,000
1343	H-111	Open	False	0.000	20	1,676.18	1924	<Collection: 0 items>	0	1,888.96	92	True	3,066	1,000
1351	H-119	Open	False	0.000	20	1,499.93	1712 W	<Collection: 0 items>	0	1,710.11	91	True	3,269	1,000
1348	H-116	Open	False	0.000	20	1,504.01	1712 W	<Collection: 0 items>	0	1,708.70	89	True	3,434	1,000
1350	H-118	Open	False	0.000	20	1,500.87	1712 W	<Collection: 0 items>	0	1,710.36	91	True	3,500	1,000
1352	H-120	Open	False	0.000	20	1,564.95	1712 W	<Collection: 0 items>	0	1,712.23	64	True	3,500	1,000
1353	H-121	Open	False	0.000	20	1,706.00	1924	<Collection: 0 items>	0	1,903.48	85	True	3,500	1,000
1684	H-148	Open	False	0.000	20	1,685.05	1924	<Collection: 0 items>	0	1,924.77	104	True	3,500	1,000

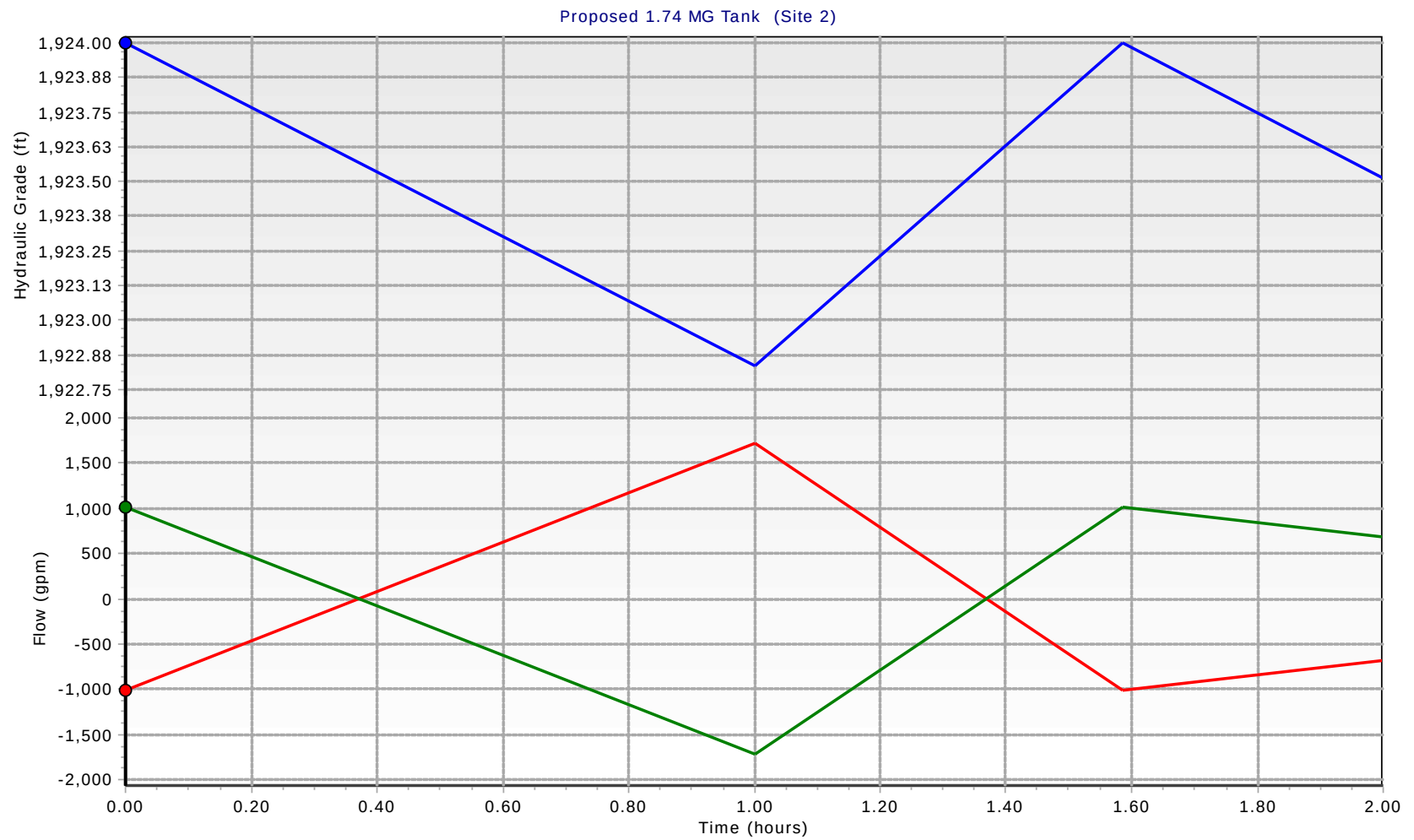
Scenario: Site 2 - MDD Demand Over 2 Hours





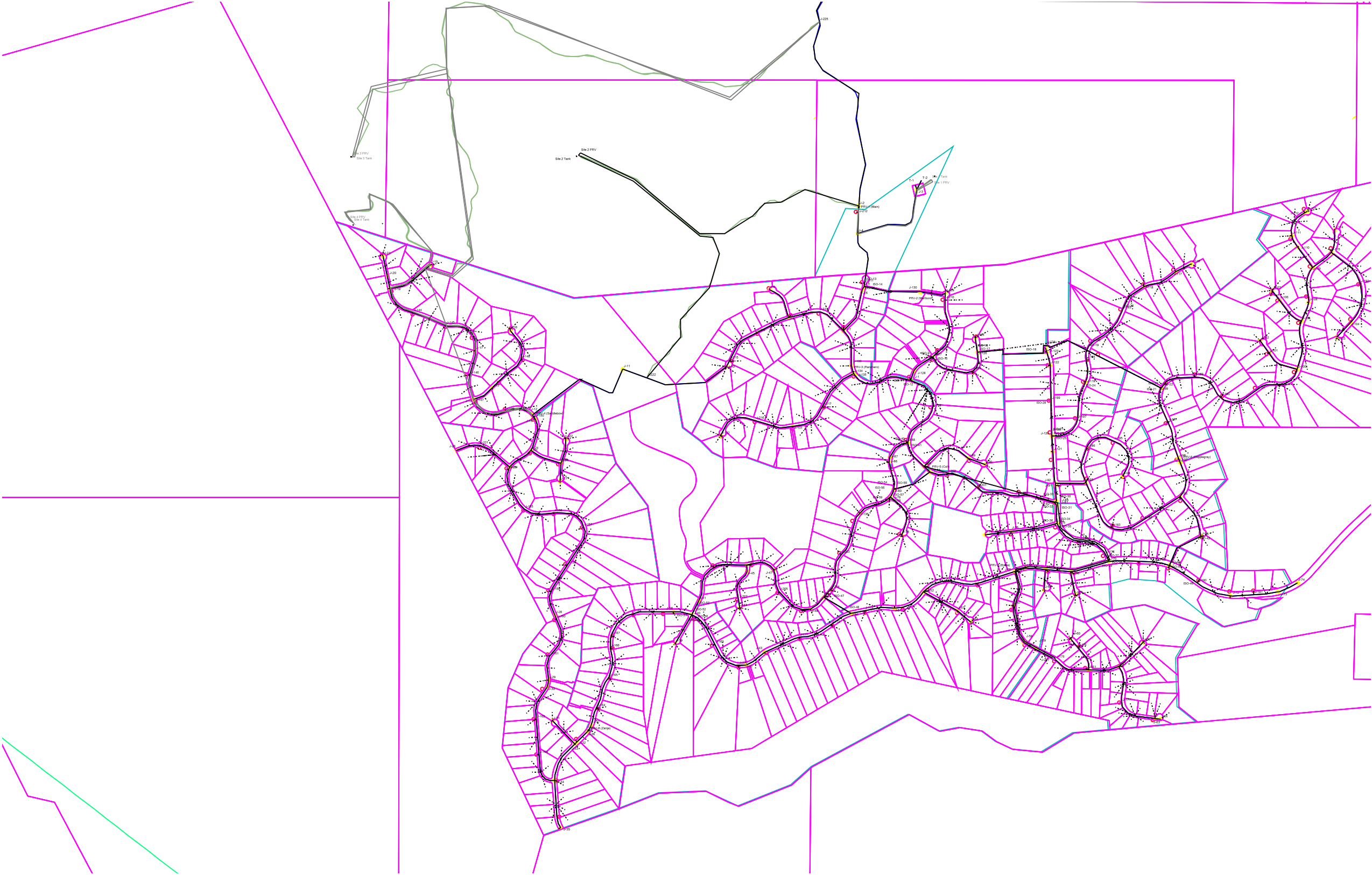


T-2 - Site 2 - MDD Demand Over 2 Hours - Hydraulic Grade T-2 - Site 2 - MDD Demand Over 2 Hours - Flow (In net)
T-2 - Site 2 - MDD Demand Over 2 Hours - Flow (Out net)



- Site 2 Tank - Site 2 - MDD Demand Over 2 Hours - Hydraulic Grade
- Site 2 Tank - Site 2 - MDD Demand Over 2 Hours - Flow (In net)
- Site 2 Tank - Site 2 - MDD Demand Over 2 Hours - Flow (Out net)

Scenario: Site 2 - New Tank at Middle - Source + Gravity Pipe (MDD + FF)



FlexTable: Pipe Table

ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1751	Site 1 Pipe	Site 1 Tank	J-3	False	12.0	Ductile Iron	130.0	False	(N/A)	(N/A)	1924	221	(N/A)	(N/A)
1770	Site 3 Source Pipe	J-225	Site 3 PRV	False	12.0	Ductile Iron	130.0	False	(N/A)	(N/A)	1924 Main	7,945	(N/A)	(N/A)
1771	Site 3 Inlet Pipe	Site 3 PRV	Site 3 Tank	False	12.0	Ductile Iron	130.0	True	(N/A)	(N/A)	1924	29	(N/A)	(N/A)
1772	Site 3 Distribution Pipe	Site 3 Tank	J-12	False	12.0	Ductile Iron	130.0	False	(N/A)	(N/A)	1924	7,544	(N/A)	(N/A)
1794	Site 4 Source Pipe	J-225	Site 4 PRV	False	12.0	Steel	140.0	False	(N/A)	(N/A)	1924 Main	11,093	(N/A)	(N/A)
1795	Site 4 Inlet Pipe	Site 4 PRV	Site 4 Tank	False	12.0	Steel	140.0	True	(N/A)	(N/A)	1924	64	(N/A)	(N/A)
1796	Site 4 Distribution Pipe	Site 4 Tank	J-12	False	12.0	Steel	140.0	False	(N/A)	(N/A)	1924	5,564	(N/A)	(N/A)
1798	Site 1 Source Pipe	J-2	Site 1 PRV	False	12.0	Steel	140.0	False	(N/A)	(N/A)	1924 Main	1,717	(N/A)	(N/A)
1799	Site 1 Inlet Pipe	Site 1 PRV	Site 1 Tank	False	12.0	Steel	140.0	True	(N/A)	(N/A)	1924	35	(N/A)	(N/A)
1829	P-87(1)(2)	J-227	J-175	False	8.0	Asbestos Cement	140.0	False	(N/A)	(N/A)	1550	40	(N/A)	(N/A)
438	P-187	R-2	J-139	True	12.0	Steel	140.0	False	1,548	4.39	1924 Main	237	0	97
227	P-9	T-2	J-3	True	12.0	Asbestos Cement	140.0	False	0	0.00	1924	130	14	15
226	P-8	J-3	T-1	True	12.0	Asbestos Cement	140.0	False	0	0.00	1924	61	15	14
269	P-51	PRV-8 (Zanja)	J-37	True	8.0	Asbestos Cement	140.0	False	646	4.12	1407	38	25	25
1463	P-52(1)	J-37	J-164	True	8.0	Asbestos Cement	140.0	False	639	4.08	1407	232	25	31
1467	P-52(2)(1)	J-164	J-165	True	8.0	Asbestos Cement	140.0	False	626	4.00	1407	418	31	42
1465	P-211	H-51	J-164	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	29	31	31
396	P-177	J-86	J-87	True	6.0	Asbestos Cement	140.0	False	0	0.00	1722	70	38	35
397	P-178	J-86	H-17	True	4.0	Ductile Iron	140.0	False	0	0.00	1470	33	38	38
372	P-153	J-123	J-124	True	4.0	Asbestos Cement	140.0	False	0	0.00	1454	64	41	41
1590	P-255	H-137	J-101	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	21	42	44
1471	P-52(2)(2)(1)	J-165	J-166	True	8.0	Asbestos Cement	140.0	False	606	3.87	1407	381	42	53
262	P-44	J-35	H-7	True	4.0	Ductile Iron	140.0	False	0	0.00	1677	29	44	46
325	P-107	J-84	J-80	True	8.0	Asbestos Cement	140.0	False	203	1.30	1470	516	44	59
1638	P-108(1)(1)(1)	J-84	J-202	True	8.0	Asbestos Cement	140.0	False	47	0.30	1470	222	44	57
346	P-128	J-101	J-102	True	4.0	Asbestos Cement	140.0	False	10	0.26	1712 E	196	44	31
1469	P-212	H-52	J-165	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	25	45	42
403	P-184	PRV-5 (Colt)	J-84	True	8.0	Asbestos Cement	140.0	False	253	1.62	1470	19	45	44
340	P-122	J-97	J-95	True	8.0	Asbestos Cement	140.0	False	290	1.85	1454	460	45	72
1769	Site 2 Feed Pipe	Site 2 PRV	Site 2 Tank	True	12.0	Ductile Iron	130.0	True	0	0.00	1924	40	45	832
341	P-123	PRV-6 (Dapplegray)	J-97	True	8.0	Asbestos Cement	140.0	False	300	1.91	1454	37	45	45
370	P-151	J-122	J-123	True	4.0	Asbestos Cement	140.0	False	0	0.00	1454	169	47	41
1666	P-285	J-122	H-147	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	31	47	48
359	P-140	J-112	H-23	True	4.0	Ductile Iron	140.0	False	0	0.00	1712 E	32	49	46
360	P-141	J-112	J-113	True	8.0	Asbestos Cement	140.0	False	7	0.04	1712 E	39	49	51
384	P-165	J-134	J-135	True	8.0	Asbestos Cement	140.0	False	506	3.23	1722	23	50	51
1711	P-163(1)	J-134	J-217	True	8.0	Asbestos Cement	140.0	False	80	0.51	1722	591	50	70
1640	P-273	H-99	J-202	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	14	50	57
385	P-166	J-135	J-1	True	8.0	Asbestos Cement	140.0	False	493	3.15	1722	769	51	85
381	P-162	PRV-3 (Ranchero)	J-134	True	8.0	Asbestos Cement	140.0	False	593	3.78	1722	28	51	50
1714	P-302	H-108	J-135	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	11	51	51
1475	P-52(2)(2)(2)(1)	J-166	J-167	True	8.0	Asbestos Cement	140.0	False	599	3.83	1407	160	53	57
1477	P-214	H-54	J-167	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	30	54	57
1454	P-42(1)	J-30	J-162	True	8.0	Asbestos Cement	140.0	False	736	4.70	1677	451	54	61
1473	P-213	H-53	J-166	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	32	54	53
1408	P-196	H-145	J-150	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	21	55	57
357	P-138	J-111	H-24	True	4.0	Ductile Iron	140.0	False	0	0.00	1712 E	30	55	56
358	P-139	J-111	J-112	True	8.0	Asbestos Cement	140.0	False	13	0.09	1712 E	362	55	49
1456	P-208	H-48	J-162	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	23	56	61
250	P-32	J-13	J-24	True	10.0	Asbestos Cement	140.0	False	939	3.84	1677	410	56	69
1416	P-198	H-39	J-152	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	15	57	57
252	P-34	J-23	J-22	True	4.0	Asbestos Cement	140.0	False	13	0.34	1677	315	57	44
253	P-35	J-23	J-27	True	4.0	Asbestos Cement	140.0	False	7	0.17	1677	230	57	50
1407	P-31(2)	J-150	J-13	True	10.0	Asbestos Cement	140.0	False	946	3.86	1677	12	57	56
1479	P-52(2)(2)(2)(2)(1)	J-167	J-168	True	8.0	Asbestos Cement	140.0	False	586	3.74	1407	407	57	68
1415	P-33(2)	J-152	J-23	True	6.0	Asbestos Cement	140.0	False	30	0.34	1677	27	57	57
1639	P-108(1)(1)(2)	J-202	J-201	True	8.0	Asbestos Cement	140.0	False	40	0.26	1470	448	57	84

FlexTable: Pipe Table														
ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1481	P-215	H-55	J-168	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	19	58	68
1406	P-31(1)	PRV-4 (Saddlebow)	J-150	True	10.0	Asbestos Cement	140.0	False	946	3.86	1677	31	59	57
324	P-106	J-80	J-79	True	8.0	Asbestos Cement	140.0	False	186	1.19	1470	109	59	67
398	P-179	J-80	J-86	True	6.0	Asbestos Cement	140.0	False	10	0.11	1470	348	59	38
377	P-158	J-117	H-22	True	4.0	Ductile Iron	140.0	False	0	0.00	1454	23	60	58
378	P-159	J-117	J-116	True	4.0	Asbestos Cement	140.0	False	10	0.26	1454	219	60	56
258	P-40	J-29	H-5	True	4.0	Ductile Iron	140.0	False	0	0.00	1677	26	60	58
259	P-41	J-29	J-30	True	8.0	Asbestos Cement	140.0	False	743	4.74	1677	89	60	54
1458	P-42(2)(1)	J-162	J-163	True	8.0	Asbestos Cement	140.0	False	723	4.61	1677	447	61	67
303	P-85	J-59	H-15	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	19	61	64
1828	P-87(1)(1)	J-59	J-227	True	8.0	Asbestos Cement	140.0	False	3	0.02	1550	244	61	45
1636	P-272	H-100	J-201	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	38	62	84
1460	P-209	H-49	J-163	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	24	63	67
1679	P-289	H-120	J-210	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	11	64	66
1677	P-169(1)(1)	J-129	J-210	True	10.0	Asbestos Cement	140.0	False	696	2.84	1712 W	86	64	66
1726	P-308	H-97	J-78	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	20	64	64
1713	P-301	H-107	J-217	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	23	66	70
391	P-172	PRV-2 (Marlboro)	J-129	True	10.0	Asbestos Cement	140.0	False	703	2.87	1712 W	48	66	64
1678	P-169(1)(2)	J-210	J-209	True	10.0	Asbestos Cement	140.0	False	683	2.79	1712 W	708	66	88
1452	P-207	H-47	J-161	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	21	67	67
1451	P-39(2)(2)	J-161	J-29	True	8.0	Asbestos Cement	140.0	False	749	4.78	1677	309	67	60
296	P-78	J-79	J-136	True	8.0	Asbestos Cement	140.0	False	157	1.00	1470	445	67	92
297	P-79	J-79	J-78	True	6.0	Asbestos Cement	140.0	False	20	0.23	1470	576	67	64
1459	P-42(2)(2)	J-163	J-34	True	8.0	Asbestos Cement	140.0	False	709	4.53	1677	450	67	74
1480	P-52(2)(2)(2)(2)	J-168	J-38	True	8.0	Asbestos Cement	140.0	False	566	3.61	1407	516	68	82
1410	P-36(1)	J-24	J-151	True	10.0	Asbestos Cement	140.0	False	899	3.67	1677	40	69	69
1414	P-33(1)	J-24	J-152	True	6.0	Asbestos Cement	140.0	False	33	0.38	1677	392	69	57
1411	P-36(2)	J-151	J-25	True	10.0	Asbestos Cement	140.0	False	896	3.66	1677	304	69	70
1412	P-197	H-38	J-151	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	12	69	69
1643	P-276	H-96	J-79	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	49	70	67
1424	P-200	H-40	J-154	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	25	70	70
1461	P-210	H-50	J-34	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	29	70	74
1422	P-38(1)	J-25	J-154	True	10.0	Asbestos Cement	140.0	False	869	3.55	1677	40	70	70
1737	P-37(1)	J-25	J-221	True	8.0	Asbestos Cement	140.0	False	17	0.11	1677	474	70	80
1426	P-38(2)(1)	J-154	J-155	True	10.0	Asbestos Cement	140.0	False	859	3.51	1677	565	70	72
1712	P-163(2)	J-217	J-131	True	8.0	Asbestos Cement	140.0	False	60	0.38	1722	478	70	87
1428	P-201	H-41	J-155	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	14	71	72
1721	P-306	H-117	J-125	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	25	71	70
339	P-121	J-95	J-94	True	8.0	Asbestos Cement	140.0	False	23	0.15	1454	580	72	112
1544	P-120(1)	J-95	J-182	True	8.0	Asbestos Cement	140.0	False	250	1.59	1454	551	72	92
1593	P-258	H-140	J-107	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	34	72	73
1430	P-38(2)(2)(1)	J-155	J-156	True	10.0	Asbestos Cement	140.0	False	843	3.44	1677	384	72	74
393	P-174	J-126	J-125	True	6.0	Asbestos Cement	140.0	False	7	0.08	1712 W	182	73	70
433	P-186	J-126	J-99	True	10.0	Steel	140.0	False	619	2.53	1712 W	2,647	73	120
302	P-84	J-58	J-59	True	8.0	Asbestos Cement	140.0	False	17	0.11	1407	165	74	61
1592	P-257	H-139	J-106	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	11	74	74
1434	P-38(2)(2)(2)(1)	J-156	J-157	True	10.0	Asbestos Cement	140.0	False	829	3.39	1677	468	74	76
351	P-132	J-106	J-107	True	4.0	Asbestos Cement	140.0	False	13	0.34	1712 E	158	74	73
261	P-43	J-34	J-35	True	8.0	Asbestos Cement	140.0	False	13	0.09	1677	609	74	44
263	P-45	J-34	J-33	True	8.0	Asbestos Cement	140.0	False	679	4.34	1677	546	74	108
1542	P-237	H-77	J-95	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	34	74	72
356	P-137	J-110	J-111	True	8.0	Asbestos Cement	140.0	False	30	0.19	1712 E	165	75	55
404	P-185	J-110	H-25	True	4.0	Ductile Iron	140.0	False	0	0.00	1712 E	19	75	74
1602	P-263	H-129	J-118	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	23	75	76
1438	P-38(2)(2)(2)(2)(1)	J-157	J-158	True	10.0	Asbestos Cement	140.0	False	809	3.31	1677	552	76	78
376	P-157	J-118	J-117	True	8.0	Asbestos Cement	140.0	False	20	0.13	1454	450	76	60
1589	P-254	H-136	J-100	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	51	77	78

FlexTable: Pipe Table

ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
345	P-127	J-100	J-101	True	6.0	Asbestos Cement	140.0	False	20	0.23	1712 E	427	78	44
347	P-129	J-100	J-105	True	8.0	Asbestos Cement	140.0	False	163	1.04	1712 E	625	78	87
1442	P-38(2)(2)(2)(2)(1)	J-158	J-159	True	10.0	Asbestos Cement	140.0	False	786	3.21	1677	387	78	80
1669	P-173(2)	J-208	J-126	True	10.0	Asbestos Cement	140.0	False	633	2.58	1712 W	272	79	73
1448	P-206	H-46	J-160	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	18	79	80
1443	P-38(2)(2)(2)(2)(2)	J-159	J-28	True	10.0	Asbestos Cement	140.0	False	776	3.17	1677	314	80	81
1450	P-39(2)(1)	J-160	J-161	True	8.0	Asbestos Cement	140.0	False	759	4.85	1677	528	80	67
1739	P-311	H-151	J-221	True	6.0	Ductile Iron	130.0	False	0	0.00	1677	13	80	80
1738	P-37(2)	J-221	J-26	True	8.0	Asbestos Cement	140.0	False	0	0.00	1677	305	80	87
1628	P-270	H-125	J-199	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	5	81	82
1446	P-39(1)	J-28	J-160	True	8.0	Asbestos Cement	140.0	False	769	4.91	1677	56	81	80
271	P-53	J-38	H-8	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	23	82	83
272	P-54	J-38	J-40	True	8.0	Asbestos Cement	140.0	False	553	3.53	1407	241	82	92
1627	P-150(2)(2)	J-199	J-122	True	8.0	Asbestos Cement	140.0	False	17	0.11	1454	450	82	47
1715	P-303	H-109	J-1	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	42	84	85
1635	P-108(1)(2)	J-201	J-200	True	8.0	Asbestos Cement	140.0	False	23	0.15	1470	544	84	116
386	P-167	J-1	J-128	True	8.0	Asbestos Cement	140.0	False	0	0.00	1712 W	131	85	87
1723	P-175(1)	J-1	J-218	True	8.0	Asbestos Cement	140.0	False	470	3.00	1722	502	85	110
387	P-168	J-128	J-127	True	8.0	Asbestos Cement	140.0	False	0	0.00	1712 W	297	87	91
348	P-130	J-105	J-106	True	6.0	Asbestos Cement	140.0	False	20	0.23	1712 E	391	87	74
352	P-133	J-105	J-108	True	8.0	Asbestos Cement	140.0	False	127	0.81	1712 E	253	87	89
1591	P-256	H-138	J-105	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	38	87	87
1706	P-164(1)	J-131	J-216	True	6.0	Asbestos Cement	140.0	False	43	0.49	1722	495	87	93
1719	P-305	H-150	J-21	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	26	88	88
1605	P-156(2)	J-193	J-118	True	8.0	Asbestos Cement	140.0	False	37	0.23	1454	424	88	76
1588	P-253	H-135	J-191	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	17	88	90
1674	P-169(2)	J-209	J-127	True	10.0	Asbestos Cement	140.0	False	669	2.73	1712 W	98	88	91
1709	P-300	H-106	J-131	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	17	88	87
1503	P-222	H-61	J-53	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	24	88	89
1606	P-264	H-128	J-193	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	5	88	88
1670	P-286	H-116	J-208	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	17	89	79
293	P-75	J-53	J-54	True	4.0	Asbestos Cement	140.0	False	17	0.43	1407	224	89	76
353	P-134	J-108	H-26	True	4.0	Ductile Iron	140.0	False	0	0.00	1712 E	21	89	88
354	P-135	J-108	J-109	True	8.0	Asbestos Cement	140.0	False	117	0.74	1712 E	463	89	94
1587	P-126(2)(2)(2)(2)	J-191	J-100	True	10.0	Asbestos Cement	140.0	False	210	0.86	1712 E	631	90	78
1675	P-288	H-118	J-209	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	19	91	88
323	P-105	J-81	J-82	True	8.0	Asbestos Cement	140.0	False	0	0.00	1347	39	91	144
1671	P-287	H-119	J-127	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	31	91	91
229	P-11	J-5	J-6	True	10.0	Asbestos Cement	140.0	False	811	3.31	1924	49	91	91
389	P-170	J-5	J-130	True	10.0	Asbestos Cement	140.0	False	709	2.90	1924	718	91	131
1668	P-173(1)	J-127	J-208	True	10.0	Asbestos Cement	140.0	False	653	2.67	1712 W	575	91	79
1683	P-290	H-121	J-211	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	16	91	91
230	P-12	J-6	J-7	True	10.0	Asbestos Cement	140.0	False	804	3.29	1924	591	91	106
1682	P-10(2)	J-211	J-5	True	10.0	Asbestos Cement	140.0	False	1,524	6.22	1924	41	91	91
364	P-145	J-104	J-103	True	4.0	Asbestos Cement	140.0	False	10	0.26	1712 E	259	92	88
295	P-77	J-136	H-13	True	4.0	Ductile Iron	140.0	False	0	0.00	1470	30	92	92
1645	P-76(1)	J-136	J-203	True	8.0	Asbestos Cement	140.0	False	140	0.89	1470	591	92	118
1594	P-259	H-144	J-104	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	26	92	92
1432	P-202	H-42	J-156	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	14	92	74
1548	P-120(2)(1)	J-182	J-183	True	8.0	Asbestos Cement	140.0	False	233	1.49	1454	439	92	109
273	P-55	J-40	J-39	True	4.0	Asbestos Cement	140.0	False	13	0.34	1407	420	92	67
274	P-56	J-40	H-9	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	42	92	95
275	P-57	J-40	J-41	True	4.0	Asbestos Cement	140.0	False	0	0.00	1407	197	92	127
1483	P-62(1)	J-40	J-169	True	8.0	Asbestos Cement	140.0	False	526	3.36	1407	486	92	98
1708	P-299	H-105	J-216	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	7	92	93
1707	P-164(2)	J-216	J-132	True	6.0	Asbestos Cement	140.0	False	20	0.23	1722	559	93	99
221	P-3	J-137	J-138	True	10.0	Asbestos Cement	140.0	False	21	0.09	1924 Main	1,518	93	137
1746	P-4(1)	J-137	J-225	True	12.0	Asbestos Cement	140.0	False	1,527	4.33	1924 Main	8,308	93	146
1596	P-260	H-146	J-109	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	15	94	94

FlexTable: Pipe Table														
ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
355	P-136	J-109	J-110	True	8.0	Asbestos Cement	140.0	False	37	0.23	1712 E	320	94	75
361	P-142	J-109	J-115	True	8.0	Asbestos Cement	140.0	False	73	0.47	1712 E	304	94	112
1444	P-205	H-45	J-159	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	28	94	80
225	P-7	J-4	J-3	True	16.0	Asbestos Cement	140.0	False	0	0.00	1924	1,118	96	15
1681	P-10(1)	J-4	J-211	True	10.0	Asbestos Cement	140.0	False	1,527	6.24	1924	683	96	91
1687	P-6(2)	J-212	J-4	True	16.0	Asbestos Cement	140.0	False	1,527	2.44	1924	267	96	96
1686	P-6(1)	PRV-1 (Main)	J-212	True	16.0	Asbestos Cement	140.0	False	1,527	2.44	1924	40	96	96
220	P-2	J-139	J-137	True	10.0	Asbestos Cement	140.0	False	1,548	6.32	1924 Main	2,889	97	93
322	P-104	J-75	J-81	True	8.0	Asbestos Cement	140.0	False	3	0.02	1347	233	97	91
1552	P-102(1)	J-75	J-184	True	6.0	Asbestos Cement	140.0	False	53	0.60	1347	30	97	97
1553	P-102(2)	J-184	J-76	True	6.0	Asbestos Cement	140.0	False	40	0.45	1347	562	97	100
1554	P-240	H-85	J-184	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	25	97	97
1440	P-204	H-44	J-158	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	22	98	78
1487	P-62(2)(1)	J-169	J-170	True	8.0	Asbestos Cement	140.0	False	506	3.23	1407	427	98	103
1704	P-298	H-104	J-132	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	10	99	99
1556	P-242	H-81	J-96	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	12	99	99
1584	P-252	H-134	J-190	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	36	100	101
321	P-103	J-76	J-77	True	4.0	Asbestos Cement	140.0	False	10	0.26	1347	335	100	101
300	P-82	J-57	H-14	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	30	100	102
301	P-83	J-57	J-58	True	8.0	Asbestos Cement	140.0	False	33	0.21	1407	495	100	74
1586	P-126(2)(2)(2)(1)	J-190	J-191	True	10.0	Asbestos Cement	140.0	False	230	0.94	1712 E	515	101	90
1600	P-144(2)	J-192	J-104	True	6.0	Asbestos Cement	140.0	False	27	0.30	1712 E	527	101	92
1485	P-216	H-56	J-169	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	27	102	98
1567	P-247	H-87	J-76	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	22	102	100
1436	P-203	H-43	J-157	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	13	103	76
1693	P-293	H-111	J-213	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	5	103	109
1488	P-62(2)(2)	J-170	J-42	True	8.0	Asbestos Cement	140.0	False	493	3.15	1407	99	103	104
1489	P-217	H-57	J-170	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	26	103	103
1501	P-220	H-60	J-173	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	27	103	106
282	P-64	J-43	H-10	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	19	104	103
1491	P-65(1)	J-43	J-171	True	8.0	Asbestos Cement	140.0	False	473	3.02	1407	479	104	104
1615	P-156(1)(2)(2)	J-196	J-193	True	8.0	Asbestos Cement	140.0	False	57	0.36	1454	583	104	88
1689	P-292	H-110	J-7	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	47	104	106
1688	P-291	H-148	J-212	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	30	104	96
1493	P-218	H-58	J-171	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	27	104	104
1695	P-295	H-113	J-9	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	16	104	105
1601	P-262	H-143	J-192	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	9	104	101
281	P-63	J-42	J-43	True	8.0	Asbestos Cement	140.0	False	490	3.12	1407	286	104	104
285	P-67	J-47	J-46	True	8.0	Asbestos Cement	140.0	False	53	0.34	1470	384	104	107
286	P-68	J-47	H-27	True	4.0	Ductile Iron	140.0	False	0	0.00	1470	20	104	104
1495	P-65(2)(1)	J-171	J-172	True	8.0	Asbestos Cement	140.0	False	450	2.87	1407	443	104	105
1664	P-284	H-90	J-46	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	62	104	107
1497	P-219	H-59	J-172	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	31	105	105
1496	P-65(2)(2)	J-172	J-50	True	8.0	Asbestos Cement	140.0	False	433	2.76	1407	293	105	106
284	P-66	J-50	J-49	True	8.0	Asbestos Cement	140.0	False	0	0.00	1470	402	106	145
1499	P-71(1)	J-50	J-173	True	8.0	Asbestos Cement	140.0	False	430	2.74	1407	173	106	106
1546	P-238	H-78	J-182	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	11	106	92
379	P-160	J-7	J-133	True	8.0	Asbestos Cement	140.0	False	603	3.85	1924	473	106	127
1691	P-13(1)	J-7	J-213	True	10.0	Asbestos Cement	140.0	False	182	0.74	1924	399	106	109
1500	P-71(2)	J-173	J-51	True	8.0	Asbestos Cement	140.0	False	420	2.68	1407	384	106	106
1661	P-61(1)	J-45	J-207	True	6.0	Asbestos Cement	140.0	False	23	0.26	1470	401	106	112
1560	P-243	H-82	J-185	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	6	106	112
290	P-72	J-51	H-12	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	26	106	108
291	P-73	J-51	J-52	True	8.0	Asbestos Cement	140.0	False	403	2.57	1407	437	106	112
1733	P-101(2)(2)	J-220	J-75	True	8.0	Asbestos Cement	140.0	False	57	0.36	1347	379	106	97
1398	P-193	H-35	J-148	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	15	107	108
314	P-96	J-56	J-67	True	8.0	Asbestos Cement	140.0	False	220	1.40	1347	256	107	110
247	P-29	J-20	J-21	True	6.0	Asbestos Cement	140.0	False	10	0.11	1924	265	107	88
277	P-59	J-46	J-45	True	6.0	Asbestos Cement	140.0	False	30	0.34	1470	81	107	106

FlexTable: Pipe Table														
ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1728	P-58(1)	J-46	J-219	True	8.0	Asbestos Cement	140.0	False	10	0.06	1470	425	107	116
1397	P-20(2)	J-148	J-16	True	8.0	Asbestos Cement	140.0	False	13	0.09	1924	416	108	105
1399	P-194	H-36	J-16	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	29	108	105
264	P-46	J-33	J-31	True	4.0	Asbestos Cement	140.0	False	13	0.34	1677	408	108	88
265	P-47	J-33	J-32	True	8.0	Asbestos Cement	140.0	False	653	4.17	1677	39	108	110
1549	P-120(2)(2)	J-183	J-93	True	8.0	Asbestos Cement	140.0	False	223	1.42	1454	671	109	134
1616	P-267	H-127	J-196	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	15	109	104
1692	P-13(2)	J-213	J-8	True	10.0	Asbestos Cement	140.0	False	168	0.69	1924	395	109	112
313	P-95	PRV-7 (Bridle)	J-56	True	8.0	Asbestos Cement	140.0	False	226	1.45	1347	76	109	107
1724	P-175(2)	J-218	J-88	True	8.0	Asbestos Cement	140.0	False	453	2.89	1722	566	110	138
1582	P-126(2)(2)(1)	J-189	J-190	True	10.0	Asbestos Cement	140.0	False	250	1.02	1712 E	447	110	101
1614	P-156(1)(2)(1)	J-195	J-196	True	8.0	Asbestos Cement	140.0	False	80	0.51	1454	237	110	104
266	P-48	J-32	H-6	True	4.0	Ductile Iron	140.0	False	0	0.00	1677	33	110	110
267	P-49	J-32	J-36	True	8.0	Asbestos Cement	140.0	False	653	4.17	1677	187	110	122
315	P-97	J-67	J-66	True	4.0	Asbestos Cement	140.0	False	10	0.26	1347	255	110	107
316	P-98	J-67	J-68	True	8.0	Asbestos Cement	140.0	False	193	1.23	1347	320	110	115
1523	P-230	H-70	J-67	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	49	110	110
1725	P-307	H-103	J-218	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	7	110	110
1734	P-310	H-86	J-220	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	22	111	106
239	P-21	J-15	H-1	True	4.0	Ductile Iron	140.0	False	0	0.00	1924	15	111	109
1396	P-20(1)	J-15	J-148	True	8.0	Asbestos Cement	140.0	False	33	0.21	1924	525	111	108
362	P-143	J-115	J-114	True	4.0	Asbestos Cement	140.0	False	10	0.26	1712 E	291	112	116
1599	P-144(1)	J-115	J-192	True	6.0	Asbestos Cement	140.0	False	47	0.53	1712 E	558	112	101
1694	P-294	H-112	J-8	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	44	112	112
1394	P-192	H-34	J-147	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	21	112	117
292	P-74	J-52	J-53	True	6.0	Asbestos Cement	140.0	False	40	0.45	1407	492	112	89
1505	P-80(1)	J-52	J-174	True	8.0	Asbestos Cement	140.0	False	336	2.15	1407	724	112	116
1502	P-221	H-62	J-52	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	72	112	112
1663	P-283	H-88	J-207	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	12	112	112
1662	P-61(2)	J-207	J-44	True	6.0	Asbestos Cement	140.0	False	10	0.11	1470	108	112	114
232	P-14	J-8	J-9	True	6.0	Asbestos Cement	140.0	False	0	0.00	1924	451	112	105
1697	P-15(1)	J-8	J-214	True	10.0	Asbestos Cement	140.0	False	152	0.62	1924	450	112	123
1559	P-146(2)	J-185	J-96	True	6.0	Asbestos Cement	140.0	False	17	0.19	1454	547	112	99
1597	P-261	H-142	J-115	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	43	113	112
1541	P-236	H-76	J-94	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	16	113	112
1632	P-271	H-101	J-200	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	29	113	116
243	P-25	J-18	H-3	True	4.0	Ductile Iron	140.0	False	0	0.00	1924	26	113	113
244	P-26	J-18	J-19	True	6.0	Asbestos Cement	140.0	False	17	0.19	1924	612	113	145
245	P-27	J-18	J-20	True	6.0	Asbestos Cement	140.0	False	20	0.23	1924	158	113	107
1580	P-251	H-133	J-189	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	32	114	110
1612	P-266	H-126	J-195	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	36	114	110
1626	P-150(2)(1)	J-198	J-199	True	8.0	Asbestos Cement	140.0	False	27	0.17	1454	398	114	82
1524	P-231	H-71	J-68	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	54	114	115
1536	P-234	H-74	J-180	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	55	114	121
317	P-99	J-68	J-69	True	4.0	Asbestos Cement	140.0	False	20	0.51	1347	298	115	104
318	P-100	J-68	J-70	True	8.0	Asbestos Cement	140.0	False	163	1.04	1347	505	115	119
237	P-19	J-14	J-15	True	8.0	Asbestos Cement	140.0	False	43	0.28	1924	281	115	111
1388	P-22(1)	J-14	J-146	True	8.0	Asbestos Cement	140.0	False	93	0.60	1924	318	115	131
1624	P-269	H-124	J-198	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	5	115	114
1506	P-80(2)	J-174	J-55	True	8.0	Asbestos Cement	140.0	False	310	1.98	1407	505	116	118
1729	P-58(2)	J-219	J-41	True	8.0	Asbestos Cement	140.0	False	0	0.00	1470	484	116	127
1631	P-108(2)	J-200	J-82	True	8.0	Asbestos Cement	140.0	False	7	0.04	1470	466	116	144
1732	P-101(2)(1)	J-178	J-220	True	8.0	Asbestos Cement	140.0	False	70	0.45	1347	400	117	106
1393	P-18(2)	J-147	J-14	True	8.0	Asbestos Cement	140.0	False	143	0.91	1924	46	117	115
1699	P-296	H-114	J-214	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	13	117	123
1507	P-223	H-63	J-174	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	27	118	116
1528	P-232	H-72	J-178	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	15	118	117
1618	P-154(1)	J-120	J-197	True	8.0	Asbestos Cement	140.0	False	110	0.70	1454	423	118	118
1622	P-150(1)	J-120	J-198	True	8.0	Asbestos Cement	140.0	False	27	0.17	1454	47	118	114

FlexTable: Pipe Table														
ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1578	P-126(2)(1)	J-188	J-189	True	10.0	Asbestos Cement	140.0	False	266	1.09	1712 E	390	118	110
1619	P-154(2)	J-197	J-119	True	8.0	Asbestos Cement	140.0	False	97	0.62	1454	492	118	118
1508	P-224	H-64	J-55	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	64	118	118
374	P-155	J-119	H-28	True	4.0	Ductile Iron	140.0	False	0	0.00	1454	24	118	115
1610	P-156(1)(1)	J-119	J-195	True	8.0	Asbestos Cement	140.0	False	80	0.51	1454	289	118	110
1649	P-76(2)(1)	J-203	J-204	True	8.0	Asbestos Cement	140.0	False	120	0.77	1470	476	118	139
1656	P-69(2)	J-205	J-47	True	8.0	Asbestos Cement	140.0	False	67	0.43	1470	286	118	104
299	P-81	J-55	J-57	True	8.0	Asbestos Cement	140.0	False	60	0.38	1407	453	118	100
312	P-94	J-55	PRV-7 (Bridle)	True	8.0	Asbestos Cement	140.0	False	226	1.45	1407	59	118	122
1526	P-101(1)	J-70	J-178	True	8.0	Asbestos Cement	140.0	False	87	0.55	1347	95	119	117
1530	P-109(1)	J-70	J-179	True	8.0	Asbestos Cement	140.0	False	67	0.43	1347	376	119	120
1576	P-250	H-132	J-188	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	27	119	118
1570	P-125(1)	J-99	J-187	True	8.0	Asbestos Cement	140.0	False	336	2.15	1712 E	459	120	133
1574	P-126(1)	J-99	J-188	True	10.0	Asbestos Cement	140.0	False	276	1.13	1712 E	81	120	118
1531	P-109(2)	J-179	J-71	True	8.0	Asbestos Cement	140.0	False	43	0.28	1347	393	120	120
1532	P-233	H-73	J-179	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	30	120	120
1540	P-235	H-75	J-181	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	48	120	123
1657	P-281	H-91	J-205	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	13	120	118
328	P-110	J-71	H-18	True	4.0	Ductile Iron	140.0	False	0	0.00	1347	38	120	122
329	P-111	J-71	J-94	True	8.0	Asbestos Cement	140.0	False	0	0.00	1454	582	120	112
1534	P-112(1)	J-71	J-180	True	8.0	Asbestos Cement	140.0	False	27	0.17	1347	421	120	121
1535	P-112(2)	J-180	J-72	True	8.0	Asbestos Cement	140.0	False	23	0.15	1347	452	121	121
331	P-113	J-72	H-19	True	4.0	Ductile Iron	140.0	False	0	0.00	1347	30	121	122
1538	P-114(1)	J-72	J-181	True	8.0	Asbestos Cement	140.0	False	17	0.11	1347	300	121	123
268	P-50	J-36	PRV-8 (Zanja)	True	8.0	Asbestos Cement	140.0	False	646	4.12	1677	51	122	124
1564	P-244	H-83	J-186	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	33	122	123
1701	P-15(2)(1)	J-214	J-215	True	10.0	Asbestos Cement	140.0	False	132	0.54	1924	509	123	135
1563	P-146(1)(2)	J-186	J-185	True	6.0	Asbestos Cement	140.0	False	40	0.45	1454	423	123	112
1539	P-114(2)	J-181	J-73	True	8.0	Asbestos Cement	140.0	False	7	0.04	1347	312	123	125
1382	P-189	H-30	J-144	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	12	123	124
1381	P-24(2)	J-144	J-18	True	8.0	Asbestos Cement	140.0	False	43	0.28	1924	459	124	113
333	P-115	J-73	J-74	True	8.0	Asbestos Cement	140.0	False	0	0.00	1347	271	125	129
1730	P-309	H-89	J-219	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	25	125	116
1620	P-268	H-123	J-197	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	4	125	118
1403	P-195	H-37	J-149	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	32	126	135
1522	P-229	H-69	J-177	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	10	126	137
367	P-148	J-121	H-20	True	4.0	Ductile Iron	140.0	False	0	0.00	1454	26	126	127
368	P-149	J-121	J-120	True	8.0	Asbestos Cement	140.0	False	140	0.89	1454	197	126	118
1518	P-228	H-68	J-62	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	55	127	128
380	P-161	J-133	PRV-3 (Ranchero)	True	8.0	Asbestos Cement	140.0	False	593	3.78	1924	76	127	132
1572	P-249	H-131	J-187	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	15	128	133
308	P-90	J-62	J-65	True	4.0	Asbestos Cement	140.0	False	23	0.60	1550	431	128	120
1520	P-91(1)	J-62	J-177	True	8.0	Asbestos Cement	140.0	False	47	0.30	1550	470	128	137
1647	P-277	H-95	J-203	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	18	128	118
1550	P-239	H-79	J-183	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	30	129	109
390	P-171	J-130	PRV-2 (Marlboro)	True	10.0	Asbestos Cement	140.0	False	703	2.87	1924	275	131	153
1389	P-22(2)	J-146	J-17	True	8.0	Asbestos Cement	140.0	False	83	0.53	1924	320	131	148
1703	P-297	H-115	J-215	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	33	132	135
1565	P-245	H-80	J-93	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	56	132	134
1571	P-125(2)	J-187	J-98	True	8.0	Asbestos Cement	140.0	False	313	2.00	1712 E	480	133	147
1390	P-191	H-33	J-146	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	27	134	131
337	P-119	J-93	J-92	True	8.0	Asbestos Cement	140.0	False	157	1.00	1454	390	134	135
1562	P-146(1)(1)	J-93	J-186	True	6.0	Asbestos Cement	140.0	False	47	0.53	1454	448	134	123
1385	P-24(1)(2)	J-145	J-144	True	8.0	Asbestos Cement	140.0	False	50	0.32	1924	443	134	124
1568	P-248	H-84	J-91	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	48	135	135
1402	P-18(1)(2)	J-149	J-147	True	8.0	Asbestos Cement	140.0	False	153	0.98	1924	456	135	117
336	P-118	J-92	J-91	True	8.0	Asbestos Cement	140.0	False	3	0.02	1454	28	135	135

ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
366	P-147	J-92	J-121	True	8.0	Asbestos Cement	140.0	False	143	0.91	1454	402	135	126
335	P-117	J-91	J-83	True	8.0	Asbestos Cement	140.0	False	3	0.02	1454	199	135	136
1702	P-15(2)(2)	J-215	J-10	True	10.0	Asbestos Cement	140.0	False	118	0.48	1924	86	135	137
334	P-116	J-83	J-82	True	8.0	Asbestos Cement	140.0	False	0	0.00	1454	30	136	144
1521	P-91(2)	J-177	J-63	True	8.0	Asbestos Cement	140.0	False	17	0.11	1550	516	137	146
1741	P-16(1)	J-10	J-222	True	10.0	Steel	140.0	False	108	0.44	1924	1,092	137	220
1717	P-304	H-149	J-88	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	44	138	138
395	P-176	J-88	J-87	True	6.0	Asbestos Cement	140.0	False	0	0.00	1722	307	138	35
399	P-180	J-88	J-85	True	8.0	Asbestos Cement	140.0	False	443	2.83	1722	374	138	147
1650	P-76(2)(2)	J-204	J-49	True	8.0	Asbestos Cement	140.0	False	107	0.68	1470	129	139	145
1653	P-280	H-92	J-48	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	117	140	142
1641	P-274	H-102	J-89	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	29	140	141
401	P-182	J-89	J-90	True	4.0	Asbestos Cement	140.0	False	10	0.26	1722	225	141	135
1386	P-190	H-31	J-145	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	13	141	134
1517	P-227	H-67	J-176	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	37	142	144
1655	P-69(1)	J-48	J-205	True	8.0	Asbestos Cement	140.0	False	83	0.53	1470	481	142	118
1516	P-88(2)	J-176	J-60	True	4.0	Asbestos Cement	140.0	False	13	0.34	1550	141	144	140
1642	P-275	H-98	J-85	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	53	145	147
288	P-70	J-49	J-48	True	8.0	Asbestos Cement	140.0	False	100	0.64	1470	230	145	142
1378	P-188	H-29	J-19	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	23	146	145
310	P-92	J-63	H-16	True	4.0	Ductile Iron	140.0	False	0	0.00	1550	37	146	145
311	P-93	J-63	J-64	True	8.0	Asbestos Cement	140.0	False	3	0.02	1550	68	146	148
1652	P-279	H-93	J-49	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	57	146	145
1747	P-4(2)	J-225	J-2	True	12.0	Asbestos Cement	140.0	False	1,527	4.33	1924 Main	2,646	146	164
1651	P-278	H-94	J-204	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	32	147	139
400	P-181	J-85	J-89	True	6.0	Asbestos Cement	140.0	False	23	0.26	1722	687	147	141
402	P-183	J-85	PRV-5 (Colt)	True	8.0	Asbestos Cement	140.0	False	253	1.62	1722	82	147	150
1826	Flintlock Bypass	J-85	J-175	True	6.0	Ductile Iron	130.0	False	157	1.78	1550	5,495	147	183
1555	P-241	H-130	J-98	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	14	147	147
342	P-124	J-98	PRV-6 (Dapplegray)	True	8.0	Asbestos Cement	140.0	False	300	1.91	1712 E	24	147	152
241	P-23	J-17	H-2	True	4.0	Ductile Iron	140.0	False	0	0.00	1924	21	148	149
1384	P-24(1)(1)	J-17	J-145	True	8.0	Asbestos Cement	140.0	False	70	0.45	1924	592	148	134
248	P-30	J-12	PRV-4 (Saddlebow)	True	10.0	Asbestos Cement	140.0	False	946	3.86	1924	26	149	156
1401	P-18(1)(1)	J-12	J-149	True	8.0	Asbestos Cement	140.0	False	167	1.06	1924	364	149	135
1513	P-226	H-66	J-61	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	44	153	154
307	P-89	J-61	J-62	True	8.0	Asbestos Cement	140.0	False	93	0.60	1550	390	154	128
1515	P-88(1)	J-61	J-176	True	4.0	Asbestos Cement	140.0	False	30	0.77	1550	329	154	144
223	P-5	J-2	PRV-1 (Main)	True	16.0	Asbestos Cement	140.0	False	1,527	2.44	1924 Main	41	164	156
1774	Site 2 Source Pipe	J-2	Site 2 PRV	True	12.0	Ductile Iron	130.0	False	0	0.00	1924 Main	4,056	164	75
1511	P-87(2)	J-175	J-61	True	8.0	Asbestos Cement	140.0	False	147	0.94	1550	466	183	154
1512	P-225	H-65	J-175	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	13	185	183
1742	P-16(2)	J-222	J-11	True	10.0	Steel	140.0	False	1,116	4.56	1924	325	220	244
235	P-17	J-11	J-12	True	10.0	Steel	140.0	False	1,116	4.56	1924	1,534	244	149
1776	Site 2 Distribution Pipe	Site 2 Tank	J-222	True	12.0	Ductile Iron	130.0	False	1,007	2.86	1924	4,134	832	220

FlexTable: Hydrant Table

ID	Label	Hydrant Status	Include Hydrant Lateral Loss?	Emitter Coefficient (gpm/psi^ ⁿ)	Length (Hydrant Lateral) (ft)	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Satisfies Fire Flow Constraints?	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)
1299	H-67	Open	False	0.000	20	1,371.27	1550	<Collection: 0 items>	0	1,699.56	142	False	588	1,000
57	H-16	Open	False	0.000	20	1,363.99	1550	<Collection: 0 items>	0	1,699.69	145	False	611	1,000
1301	H-69	Open	False	0.000	20	1,408.00	1550	<Collection: 0 items>	0	1,699.69	126	False	611	1,000
1300	H-68	Open	False	0.000	20	1,407.32	1550	<Collection: 0 items>	0	1,699.72	127	False	611	1,000
1298	H-66	Open	False	0.000	20	1,345.71	1550	<Collection: 0 items>	0	1,699.79	153	False	615	1,000
1297	H-65	Open	False	0.000	20	1,273.44	1550	<Collection: 0 items>	0	1,700.00	185	False	622	1,000
56	H-15	Open	False	0.000	20	1,229.57	1407	<Collection: 0 items>	0	1,376.39	64	False	722	1,000
55	H-14	Open	False	0.000	20	1,141.15	1407	<Collection: 0 items>	0	1,376.41	102	False	746	1,000
1296	H-64	Open	False	0.000	20	1,103.57	1407	<Collection: 0 items>	0	1,376.45	118	False	765	1,000
48	H-7	Open	False	0.000	20	1,535.87	1677	<Collection: 0 items>	0	1,642.23	46	False	778	1,000
1295	H-63	Open	False	0.000	20	1,105.70	1407	<Collection: 0 items>	0	1,377.37	118	False	799	1,000
1369	H-137	Open	False	0.000	20	1,605.17	1712 E	<Collection: 0 items>	0	1,701.43	42	False	836	1,000
47	H-6	Open	False	0.000	20	1,384.44	1677	<Collection: 0 items>	0	1,637.71	110	False	841	1,000
1282	H-50	Open	False	0.000	20	1,480.51	1677	<Collection: 0 items>	0	1,642.24	70	False	841	1,000
1294	H-62	Open	False	0.000	20	1,119.88	1407	<Collection: 0 items>	0	1,378.90	112	False	857	1,000
1293	H-61	Open	False	0.000	20	1,174.96	1407	<Collection: 0 items>	0	1,378.82	88	False	858	1,000
53	H-12	Open	False	0.000	20	1,129.88	1407	<Collection: 0 items>	0	1,380.19	108	False	901	1,000
1372	H-140	Open	False	0.000	20	1,534.45	1712 E	<Collection: 0 items>	0	1,701.06	72	False	904	1,000
1319	H-87	Open	False	0.000	20	1,109.32	1347	<Collection: 0 items>	0	1,346.14	102	False	917	1,000
64	H-23	Open	False	0.000	20	1,595.52	1712 E	<Collection: 0 items>	0	1,700.86	46	False	919	1,000
1281	H-49	Open	False	0.000	20	1,500.72	1677	<Collection: 0 items>	0	1,646.03	63	False	930	1,000
1292	H-60	Open	False	0.000	20	1,142.35	1407	<Collection: 0 items>	0	1,381.42	103	False	945	1,000
1317	H-85	Open	False	0.000	20	1,121.44	1347	<Collection: 0 items>	0	1,346.23	97	False	968	1,000
1318	H-86	Open	False	0.000	20	1,090.62	1347	<Collection: 0 items>	0	1,346.27	111	False	986	1,000
1304	H-72	Open	False	0.000	20	1,073.93	1347	<Collection: 0 items>	0	1,346.32	118	True	1,006	1,000
1291	H-59	Open	False	0.000	20	1,140.41	1407	<Collection: 0 items>	0	1,382.98	105	True	1,006	1,000
63	H-22	Open	False	0.000	20	1,317.31	1454	<Collection: 0 items>	0	1,450.65	58	True	1,009	1,000
1305	H-73	Open	False	0.000	20	1,069.21	1347	<Collection: 0 items>	0	1,346.29	120	True	1,011	1,000
59	H-18	Open	False	0.000	20	1,064.56	1347	<Collection: 0 items>	0	1,346.28	122	True	1,011	1,000
60	H-19	Open	False	0.000	20	1,063.68	1347	<Collection: 0 items>	0	1,346.26	122	True	1,011	1,000
1307	H-75	Open	False	0.000	20	1,069.02	1347	<Collection: 0 items>	0	1,346.26	120	True	1,011	1,000
1306	H-74	Open	False	0.000	20	1,081.76	1347	<Collection: 0 items>	0	1,346.27	114	True	1,011	1,000
65	H-24	Open	False	0.000	20	1,572.15	1712 E	<Collection: 0 items>	0	1,700.86	56	True	1,038	1,000
1280	H-48	Open	False	0.000	20	1,521.55	1677	<Collection: 0 items>	0	1,649.93	56	True	1,042	1,000
1303	H-71	Open	False	0.000	20	1,082.52	1347	<Collection: 0 items>	0	1,346.61	114	True	1,043	1,000
66	H-25	Open	False	0.000	20	1,528.95	1712 E	<Collection: 0 items>	0	1,700.87	74	True	1,058	1,000
1665	H-147	Open	False	0.000	20	1,340.35	1454	<Collection: 0 items>	0	1,451.00	48	True	1,061	1,000
1302	H-70	Open	False	0.000	20	1,091.91	1347	<Collection: 0 items>	0	1,346.86	110	True	1,066	1,000
1370	H-138	Open	False	0.000	20	1,499.38	1712 E	<Collection: 0 items>	0	1,701.10	87	True	1,068	1,000
1368	H-136	Open	False	0.000	20	1,523.76	1712 E	<Collection: 0 items>	0	1,701.45	77	True	1,068	1,000
67	H-26	Open	False	0.000	20	1,497.30	1712 E	<Collection: 0 items>	0	1,701.02	88	True	1,068	1,000
1375	H-143	Open	False	0.000	20	1,460.15	1712 E	<Collection: 0 items>	0	1,700.72	104	True	1,068	1,000
1374	H-142	Open	False	0.000	20	1,440.81	1712 E	<Collection: 0 items>	0	1,700.84	113	True	1,068	1,000
1595	H-146	Open	False	0.000	20	1,484.65	1712 E	<Collection: 0 items>	0	1,700.88	94	True	1,068	1,000
1376	H-144	Open	False	0.000	20	1,487.71	1712 E	<Collection: 0 items>	0	1,700.67	92	True	1,068	1,000
1371	H-139	Open	False	0.000	20	1,530.99	1712 E	<Collection: 0 items>	0	1,701.09	74	True	1,068	1,000
1290	H-58	Open	False	0.000	20	1,144.41	1407	<Collection: 0 items>	0	1,384.59	104	True	1,075	1,000
1361	H-129	Open	False	0.000	20	1,277.86	1454	<Collection: 0 items>	0	1,450.65	75	True	1,084	1,000
1367	H-135	Open	False	0.000	20	1,498.84	1712 E	<Collection: 0 items>	0	1,701.64	88	True	1,126	1,000
1360	H-128	Open	False	0.000	20	1,246.52	1454	<Collection: 0 items>	0	1,450.67	88	True	1,128	1,000
1357	H-125	Open	False	0.000	20	1,264.04	1454	<Collection: 0 items>	0	1,451.00	81	True	1,134	1,000
51	H-10	Open	False	0.000	20	1,148.70	1407	<Collection: 0 items>	0	1,386.49	103	True	1,165	1,000
1366	H-134	Open	False	0.000	20	1,470.69	1712 E	<Collection: 0 items>	0	1,701.82	100	True	1,181	1,000
1356	H-124	Open	False	0.000	20	1,184.83	1454	<Collection: 0 items>	0	1,451.01	115	True	1,201	1,000
1359	H-127	Open	False	0.000	20	1,198.95	1454	<Collection: 0 items>	0	1,450.71	109	True	1,202	1,000
78	H-28	Open	False	0.000	20	1,185.27	1454	<Collection: 0 items>	0	1,450.79	115	True	1,209	1,000
1358	H-126	Open	False	0.000	20	1,187.19	1454	<Collection: 0 items>	0	1,450.75	114	True	1,210	1,000
1355	H-123	Open	False	0.000	20	1,161.20	1454	<Collection: 0 items>	0	1,450.90	125	True	1,210	1,000

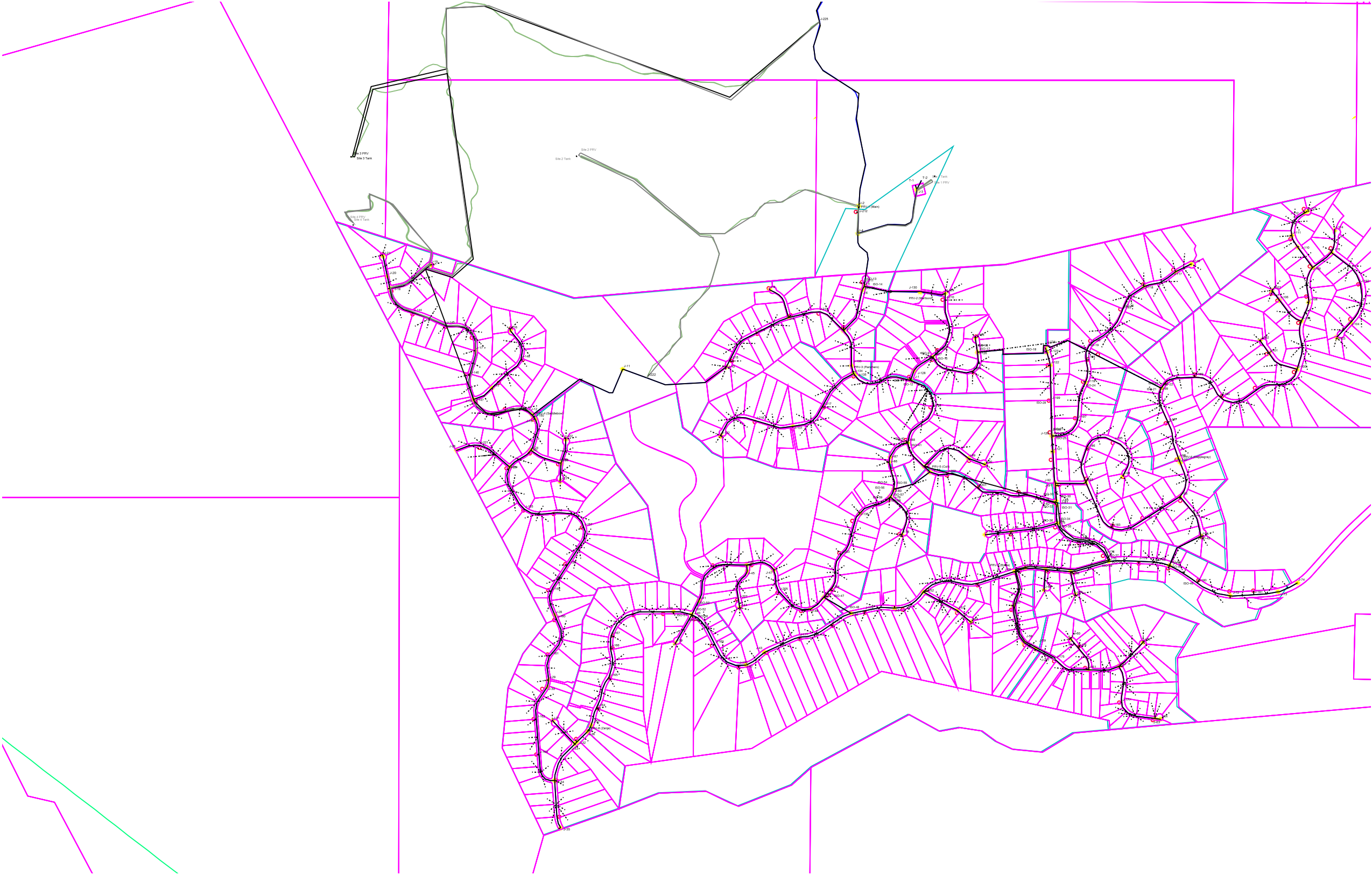
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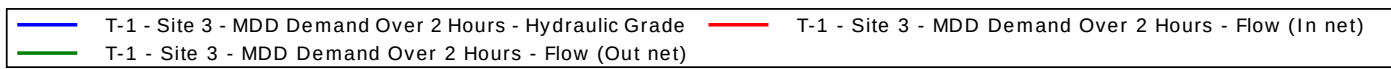
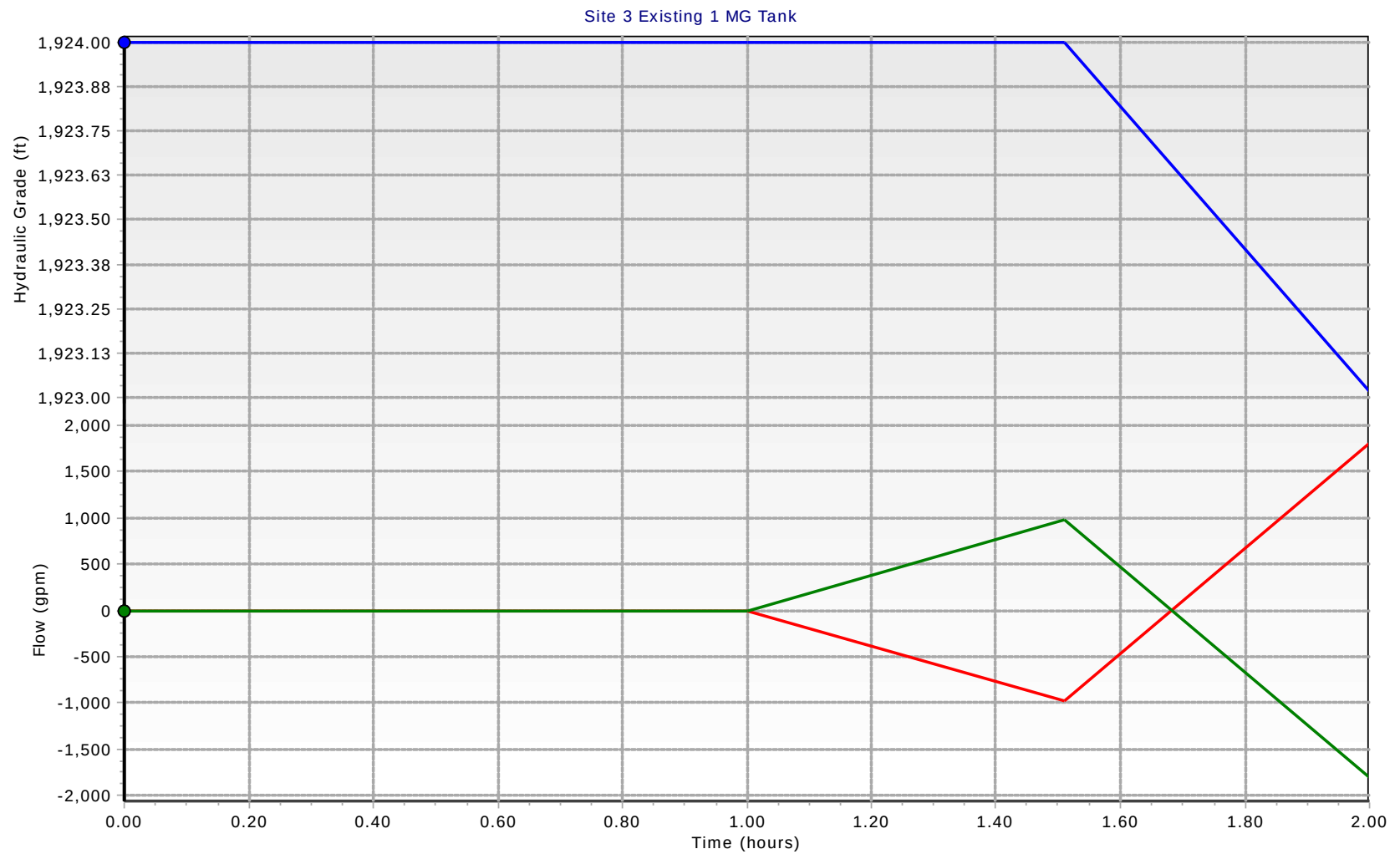
ID	Label	Hydrant Status	Include Hydrant Lateral Loss?	Emitter Coefficient (gpm/psi^n)	Length (Hydrant Lateral) (ft)	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Satisfies Fire Flow Constraints?	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)
46	H-5	Open	False	0.000	20	1,520.50	1677	<Collection: 0 items>	0	1,654.82	58	True	1,229	1,000
1365	H-133	Open	False	0.000	20	1,439.45	1712 E	<Collection: 0 items>	0	1,702.00	114	True	1,237	1,000
1289	H-57	Open	False	0.000	20	1,149.48	1407	<Collection: 0 items>	0	1,388.13	103	True	1,252	1,000
61	H-20	Open	False	0.000	20	1,157.23	1454	<Collection: 0 items>	0	1,451.09	127	True	1,255	1,000
1718	H-150	Open	False	0.000	20	1,698.18	1924	<Collection: 0 items>	0	1,900.46	88	True	1,262	1,000
1313	H-81	Open	False	0.000	20	1,222.00	1454	<Collection: 0 items>	0	1,451.28	99	True	1,264	1,000
1364	H-132	Open	False	0.000	20	1,426.61	1712 E	<Collection: 0 items>	0	1,702.18	119	True	1,292	1,000
1363	H-131	Open	False	0.000	20	1,404.57	1712 E	<Collection: 0 items>	0	1,701.25	128	True	1,304	1,000
1362	H-130	Open	False	0.000	20	1,359.51	1712 E	<Collection: 0 items>	0	1,700.36	147	True	1,304	1,000
1288	H-56	Open	False	0.000	20	1,153.45	1407	<Collection: 0 items>	0	1,390.06	102	True	1,328	1,000
1316	H-84	Open	False	0.000	20	1,140.00	1454	<Collection: 0 items>	0	1,451.27	135	True	1,362	1,000
58	H-17	Open	False	0.000	20	1,382.29	1470	<Collection: 0 items>	0	1,469.62	38	True	1,365	1,000
1279	H-47	Open	False	0.000	20	1,503.08	1677	<Collection: 0 items>	0	1,657.70	67	True	1,375	1,000
50	H-9	Open	False	0.000	20	1,173.00	1407	<Collection: 0 items>	0	1,392.42	95	True	1,387	1,000
1283	H-51	Open	False	0.000	20	1,332.87	1407	<Collection: 0 items>	0	1,405.16	31	True	1,415	1,000
1287	H-55	Open	False	0.000	20	1,261.84	1407	<Collection: 0 items>	0	1,396.56	58	True	1,418	1,000
49	H-8	Open	False	0.000	20	1,202.06	1407	<Collection: 0 items>	0	1,393.69	83	True	1,419	1,000
1286	H-54	Open	False	0.000	20	1,274.19	1407	<Collection: 0 items>	0	1,398.97	54	True	1,419	1,000
1285	H-53	Open	False	0.000	20	1,274.56	1407	<Collection: 0 items>	0	1,399.95	54	True	1,438	1,000
1284	H-52	Open	False	0.000	20	1,299.41	1407	<Collection: 0 items>	0	1,402.36	45	True	1,453	1,000
1315	H-83	Open	False	0.000	20	1,168.35	1454	<Collection: 0 items>	0	1,451.37	122	True	1,496	1,000
1314	H-82	Open	False	0.000	20	1,206.58	1454	<Collection: 0 items>	0	1,451.30	106	True	1,497	1,000
1312	H-80	Open	False	0.000	20	1,147.31	1454	<Collection: 0 items>	0	1,451.47	132	True	1,497	1,000
1336	H-104	Open	False	0.000	20	1,493.49	1722	<Collection: 0 items>	0	1,721.66	99	True	1,603	1,000
44	H-3	Open	False	0.000	20	1,638.70	1924	<Collection: 0 items>	0	1,900.47	113	True	1,604	1,000
1261	H-29	Open	False	0.000	20	1,563.14	1924	<Collection: 0 items>	0	1,900.45	146	True	1,604	1,000
1329	H-97	Open	False	0.000	20	1,322.00	1470	<Collection: 0 items>	0	1,469.52	64	True	1,604	1,000
1322	H-90	Open	False	0.000	20	1,227.53	1470	<Collection: 0 items>	0	1,468.70	104	True	1,611	1,000
1320	H-88	Open	False	0.000	20	1,209.27	1470	<Collection: 0 items>	0	1,468.67	112	True	1,630	1,000
1262	H-30	Open	False	0.000	20	1,615.23	1924	<Collection: 0 items>	0	1,900.49	123	True	1,703	1,000
1278	H-46	Open	False	0.000	20	1,479.97	1677	<Collection: 0 items>	0	1,662.76	79	True	1,755	1,000
1334	H-102	Open	False	0.000	20	1,388.52	1722	<Collection: 0 items>	0	1,713.10	140	True	1,763	1,000
1324	H-92	Open	False	0.000	20	1,145.62	1470	<Collection: 0 items>	0	1,468.84	140	True	1,804	1,000
1263	H-31	Open	False	0.000	20	1,574.44	1924	<Collection: 0 items>	0	1,900.52	141	True	1,819	1,000
1268	H-36	Open	False	0.000	20	1,650.79	1924	<Collection: 0 items>	0	1,900.67	108	True	1,836	1,000
1311	H-79	Open	False	0.000	20	1,153.44	1454	<Collection: 0 items>	0	1,452.13	129	True	1,866	1,000
1271	H-39	Open	False	0.000	20	1,544.28	1677	<Collection: 0 items>	0	1,674.89	57	True	1,909	1,000
1277	H-45	Open	False	0.000	20	1,447.01	1677	<Collection: 0 items>	0	1,664.36	94	True	1,927	1,000
1321	H-89	Open	False	0.000	20	1,179.25	1470	<Collection: 0 items>	0	1,468.70	125	True	1,931	1,000
77	H-27	Open	False	0.000	20	1,228.30	1470	<Collection: 0 items>	0	1,468.73	104	True	1,978	1,000
43	H-2	Open	False	0.000	20	1,557.21	1924	<Collection: 0 items>	0	1,900.59	149	True	2,021	1,000
1267	H-35	Open	False	0.000	20	1,654.33	1924	<Collection: 0 items>	0	1,900.67	107	True	2,058	1,000
1337	H-105	Open	False	0.000	20	1,508.05	1722	<Collection: 0 items>	0	1,721.69	92	True	2,070	1,000
1276	H-44	Open	False	0.000	20	1,440.27	1677	<Collection: 0 items>	0	1,665.69	98	True	2,100	1,000
1349	H-117	Open	False	0.000	20	1,544.32	1712 W	<Collection: 0 items>	0	1,708.08	71	True	2,134	1,000
1265	H-33	Open	False	0.000	20	1,590.74	1924	<Collection: 0 items>	0	1,900.64	134	True	2,163	1,000
1328	H-96	Open	False	0.000	20	1,308.29	1470	<Collection: 0 items>	0	1,469.54	70	True	2,170	1,000
1330	H-98	Open	False	0.000	20	1,377.73	1722	<Collection: 0 items>	0	1,713.14	145	True	2,201	1,000
1310	H-78	Open	False	0.000	20	1,208.48	1454	<Collection: 0 items>	0	1,452.60	106	True	2,210	1,000
1332	H-100	Open	False	0.000	20	1,326.41	1470	<Collection: 0 items>	0	1,470.02	62	True	2,256	1,000
1323	H-91	Open	False	0.000	20	1,190.92	1470	<Collection: 0 items>	0	1,468.76	120	True	2,262	1,000
1325	H-93	Open	False	0.000	20	1,130.69	1470	<Collection: 0 items>	0	1,468.89	146	True	2,295	1,000
42	H-1	Open	False	0.000	20	1,649.90	1924	<Collection: 0 items>	0	1,900.69	109	True	2,299	1,000
1341	H-109	Open	False	0.000	20	1,524.59	1722	<Collection: 0 items>	0	1,718.51	84	True	2,334	1,000
1266	H-34	Open	False	0.000	20	1,641.98	1924	<Collection: 0 items>	0	1,900.72	112	True	2,369	1,000
1716	H-149	Open	False	0.000	20	1,396.16	1722	<Collection: 0 items>	0	1,714.46	138	True	2,369	1,000
1309	H-77	Open	False	0.000	20	1,281.14	1454	<Collection: 0 items>	0	1,453.27	74	True	2,373	1,000
1308	H-76	Open	False	0.000	20	1,192.64	1454	<Collection: 0 items>	0	1,453.26	113	True	2,419	1,000

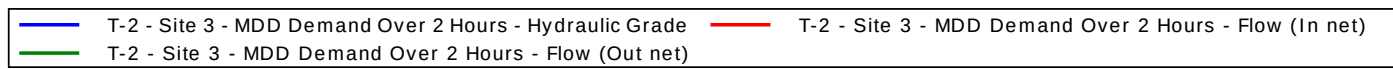
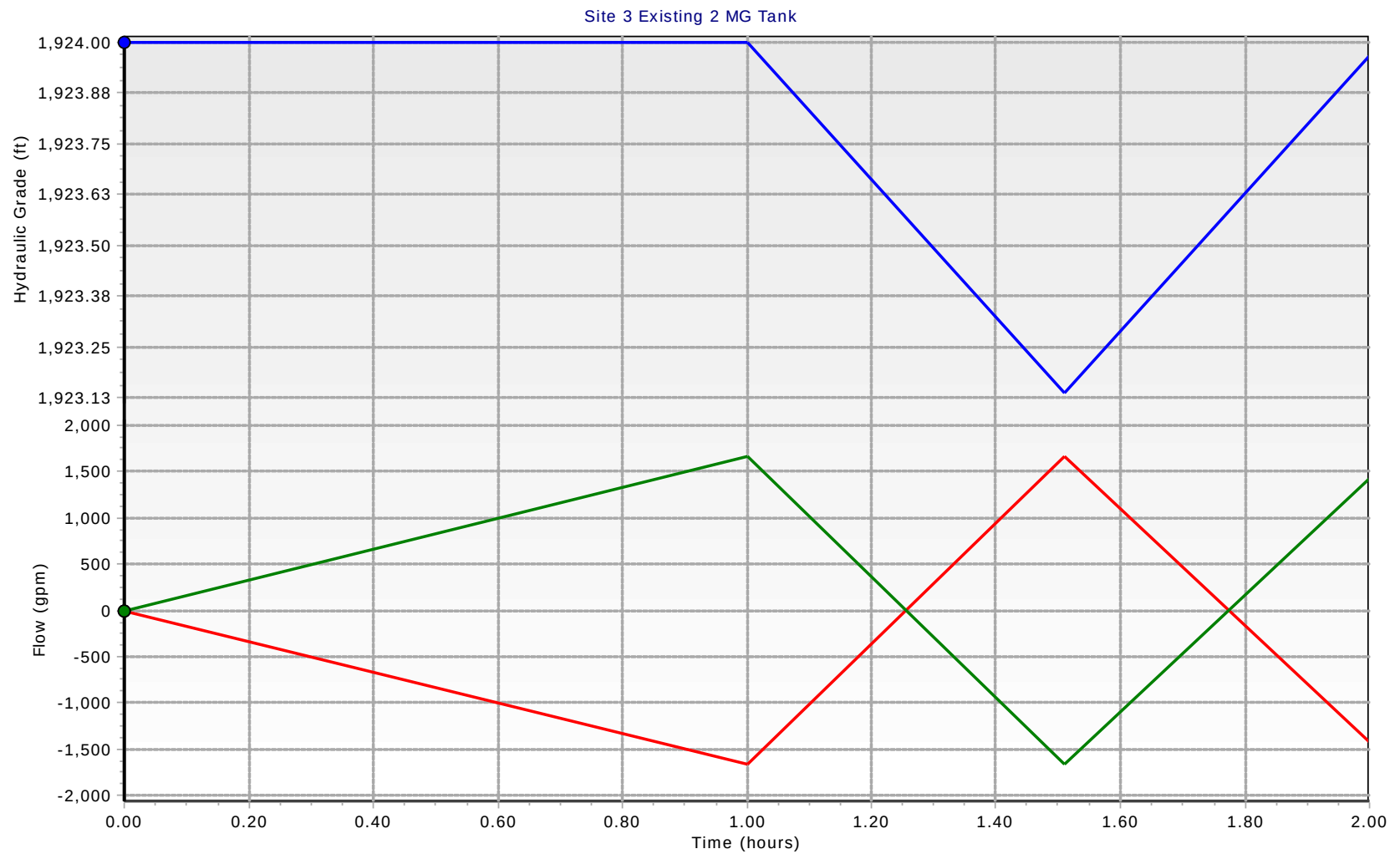
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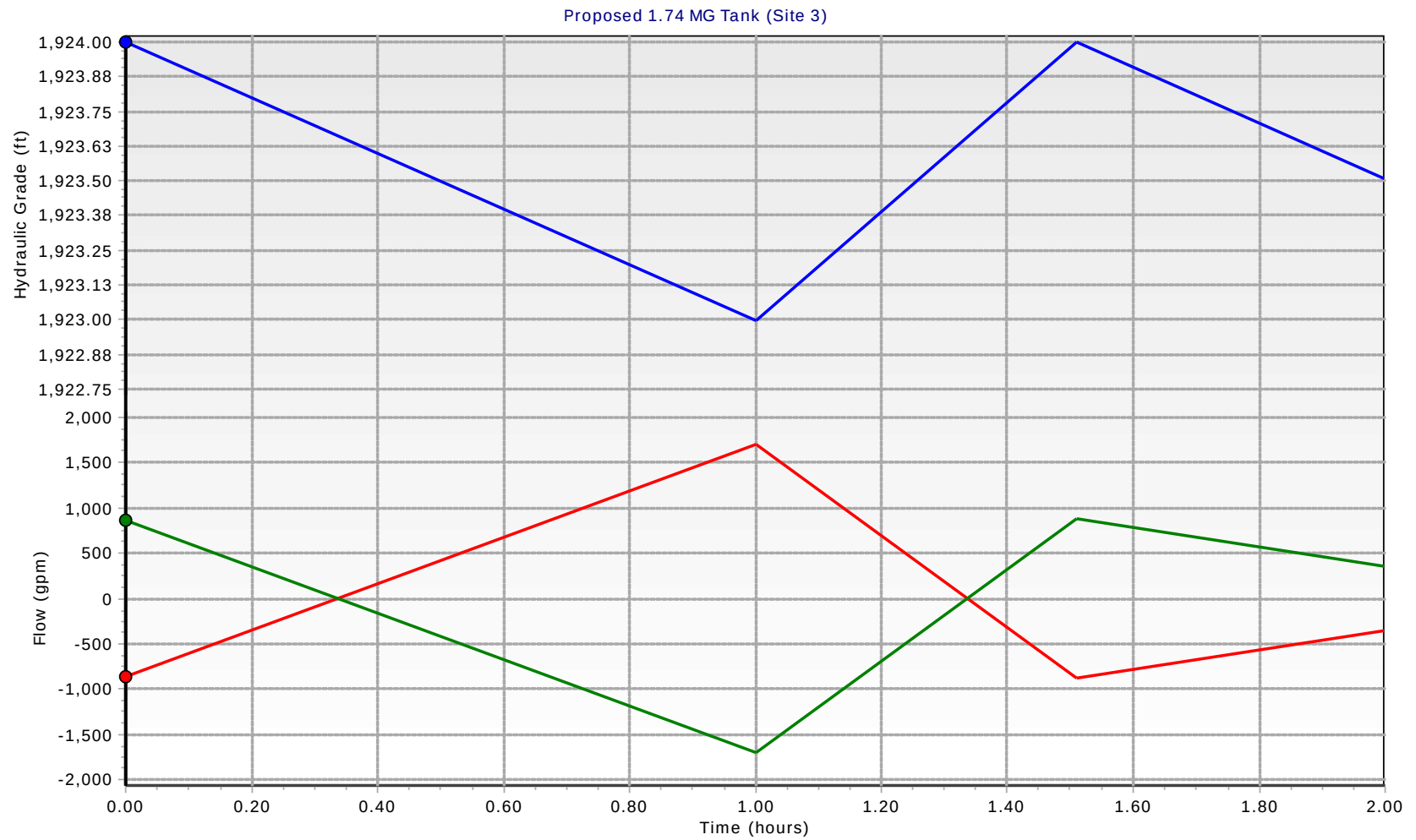
ID	Label	Hydrant Status	Include Hydrant Lateral Loss?	Emitter Coefficient (gpm/psi^n)	Length (Hydrant Lateral) (ft)	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Satisfies Fire Flow Constraints?	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)
1275	H-43	Open	False	0.000	20	1,430.19	1677	<Collection: 0 items>	0	1,667.69	103	True	2,428	1,000
54	H-13	Open	False	0.000	20	1,257.19	1470	<Collection: 0 items>	0	1,469.32	92	True	2,455	1,000
1345	H-113	Open	False	0.000	20	1,673.20	1924	<Collection: 0 items>	0	1,913.62	104	True	2,462	1,000
1326	H-94	Open	False	0.000	20	1,129.78	1470	<Collection: 0 items>	0	1,468.92	147	True	2,462	1,000
1327	H-95	Open	False	0.000	20	1,172.07	1470	<Collection: 0 items>	0	1,469.07	128	True	2,462	1,000
1331	H-99	Open	False	0.000	20	1,353.73	1470	<Collection: 0 items>	0	1,470.04	50	True	2,546	1,000
1333	H-101	Open	False	0.000	20	1,208.54	1470	<Collection: 0 items>	0	1,470.01	113	True	2,573	1,000
1269	H-37	Open	False	0.000	20	1,610.55	1924	<Collection: 0 items>	0	1,900.95	126	True	2,617	1,000
1339	H-107	Open	False	0.000	20	1,570.38	1722	<Collection: 0 items>	0	1,721.83	66	True	2,763	1,000
1274	H-42	Open	False	0.000	20	1,456.43	1677	<Collection: 0 items>	0	1,669.47	92	True	2,826	1,000
1338	H-106	Open	False	0.000	20	1,518.04	1722	<Collection: 0 items>	0	1,721.79	88	True	2,954	1,000
1342	H-110	Open	False	0.000	20	1,674.11	1924	<Collection: 0 items>	0	1,913.79	104	True	2,991	1,000
1272	H-40	Open	False	0.000	20	1,511.63	1677	<Collection: 0 items>	0	1,673.26	70	True	3,089	1,000
1273	H-41	Open	False	0.000	20	1,507.89	1677	<Collection: 0 items>	0	1,670.97	71	True	3,141	1,000
1344	H-112	Open	False	0.000	20	1,654.95	1924	<Collection: 0 items>	0	1,913.62	112	True	3,148	1,000
1335	H-103	Open	False	0.000	20	1,461.38	1722	<Collection: 0 items>	0	1,716.53	110	True	3,156	1,000
1351	H-119	Open	False	0.000	20	1,499.93	1712 W	<Collection: 0 items>	0	1,710.11	91	True	3,269	1,000
1404	H-145	Open	False	0.000	20	1,549.51	1677	<Collection: 0 items>	0	1,676.95	55	True	3,299	1,000
1735	H-151	Open	False	0.000	20	1,489.00	1677	<Collection: 0 items>	0	1,673.42	80	True	3,428	1,000
1270	H-38	Open	False	0.000	20	1,515.60	1677	<Collection: 0 items>	0	1,674.76	69	True	3,500	1,000
1340	H-108	Open	False	0.000	20	1,603.64	1722	<Collection: 0 items>	0	1,721.81	51	True	3,500	1,000
1343	H-111	Open	False	0.000	20	1,676.18	1924	<Collection: 0 items>	0	1,913.70	103	True	3,500	1,000
1346	H-114	Open	False	0.000	20	1,642.55	1924	<Collection: 0 items>	0	1,913.55	117	True	3,500	1,000
1347	H-115	Open	False	0.000	20	1,609.54	1924	<Collection: 0 items>	0	1,913.49	132	True	3,500	1,000
1348	H-116	Open	False	0.000	20	1,504.01	1712 W	<Collection: 0 items>	0	1,708.70	89	True	3,500	1,000
1350	H-118	Open	False	0.000	20	1,500.87	1712 W	<Collection: 0 items>	0	1,710.36	91	True	3,500	1,000
1352	H-120	Open	False	0.000	20	1,564.95	1712 W	<Collection: 0 items>	0	1,712.23	64	True	3,500	1,000
1353	H-121	Open	False	0.000	20	1,706.00	1924	<Collection: 0 items>	0	1,916.57	91	True	3,500	1,000
1684	H-148	Open	False	0.000	20	1,685.05	1924	<Collection: 0 items>	0	1,924.92	104	True	3,500	1,000

Scenario: Site 3 - MDD Demand Over 2 Hours



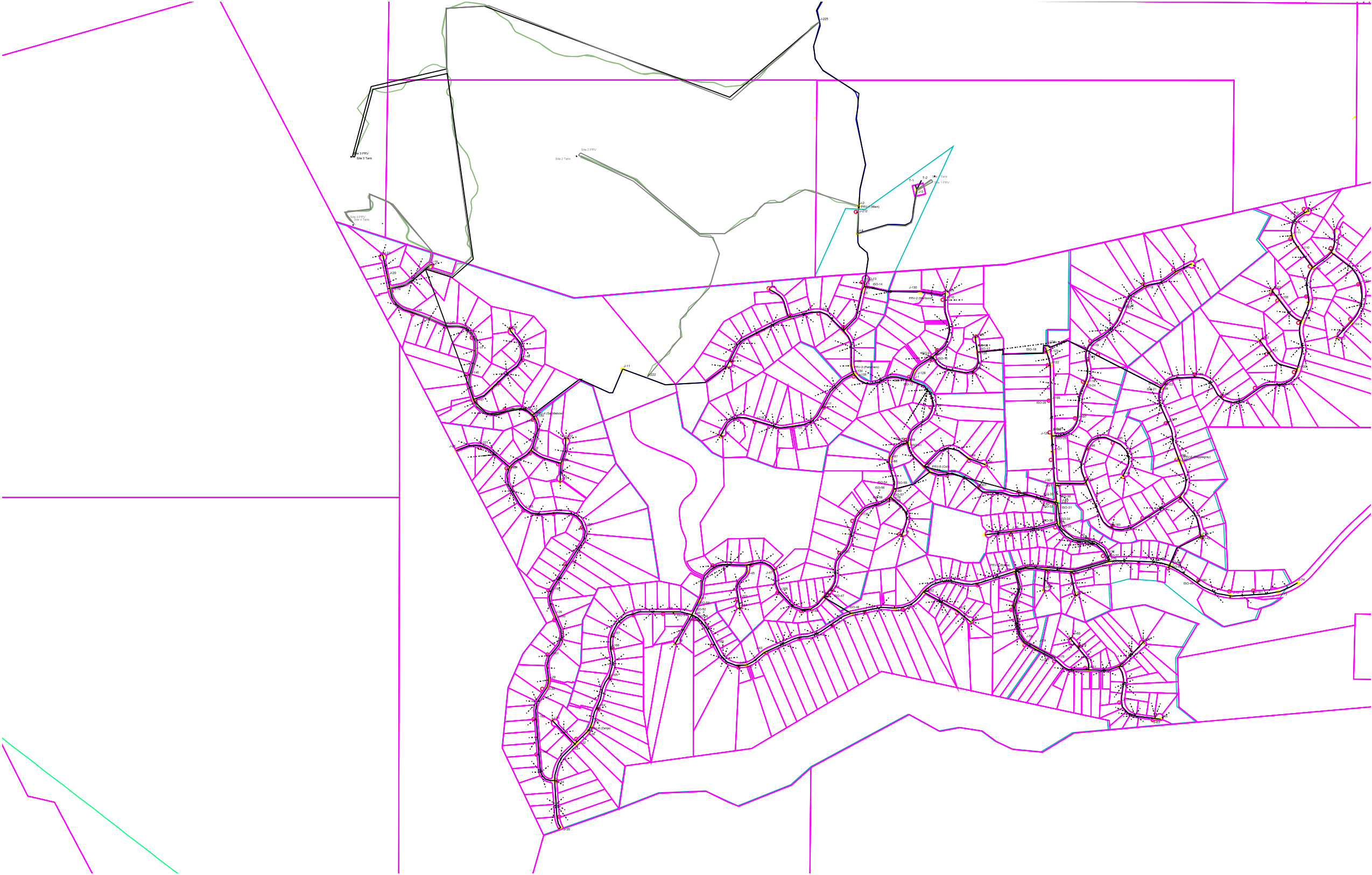






Site 3 Tank - Site 3 - MDD Demand Over 2 Hours - Hydraulic Grade
Site 3 Tank - Site 3 - MDD Demand Over 2 Hours - Flow (In net)
Site 3 Tank - Site 3 - MDD Demand Over 2 Hours - Flow (Out net)

Scenario: Site 3 - New Tank at NW - Source + Gravity Pipe (MDD + FF)



ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1751	Site 1 Pipe	Site 1 Tank	J-3	False	12.0	Ductile Iron	130.0	False	(N/A)	(N/A)	1924	221	(N/A)	(N/A)
1769	Site 2 Feed Pipe	Site 2 PRV	Site 2 Tank	False	12.0	Ductile Iron	130.0	True	(N/A)	(N/A)	1924	40	(N/A)	(N/A)
1774	Site 2 Source Pipe	J-2	Site 2 PRV	False	12.0	Ductile Iron	130.0	False	(N/A)	(N/A)	1924 Main	4,056	(N/A)	(N/A)
1776	Site 2 Distribution Pipe	Site 2 Tank	J-222	False	8.0	Ductile Iron	130.0	False	(N/A)	(N/A)	1924	4,134	(N/A)	(N/A)
1794	Site 4 Source Pipe	J-225	Site 4 PRV	False	12.0	Steel	140.0	False	(N/A)	(N/A)	1924 Main	11,093	(N/A)	(N/A)
1795	Site 4 Inlet Pipe	Site 4 PRV	Site 4 Tank	False	12.0	Steel	140.0	True	(N/A)	(N/A)	1924	64	(N/A)	(N/A)
1796	Site 4 Distribution Pipe	Site 4 Tank	J-12	False	12.0	Steel	140.0	False	(N/A)	(N/A)	1924	5,564	(N/A)	(N/A)
1798	Site 1 Source Pipe	J-2	Site 1 PRV	False	12.0	Steel	140.0	False	(N/A)	(N/A)	1924 Main	1,717	(N/A)	(N/A)
1799	Site 1 Inlet Pipe	Site 1 PRV	Site 1 Tank	False	12.0	Steel	140.0	True	(N/A)	(N/A)	1924	35	(N/A)	(N/A)
1829	P-87(1)(2)	J-227	J-175	False	8.0	Asbestos Cement	140.0	False	(N/A)	(N/A)	1550	40	(N/A)	(N/A)
438	P-187	R-2	J-139	True	12.0	Steel	140.0	False	1,655	4.69	1924 Main	237	0	96
227	P-9	T-2	J-3	True	12.0	Asbestos Cement	140.0	False	0	0.00	1924	130	14	15
1772	Site 3 Distribution Pipe	Site 3 Tank	J-12	True	12.0	Steel	140.0	False	901	2.55	1924	7,544	15	153
226	P-8	J-3	T-1	True	12.0	Asbestos Cement	140.0	False	0	0.00	1924	61	15	14
269	P-51	PRV-8 (Zanja)	J-37	True	8.0	Asbestos Cement	140.0	False	646	4.12	1407	38	25	25
1463	P-52(1)	J-37	J-164	True	8.0	Asbestos Cement	140.0	False	639	4.08	1407	232	25	31
1467	P-52(2)(1)	J-164	J-165	True	8.0	Asbestos Cement	140.0	False	626	4.00	1407	418	31	42
1465	P-211	H-51	J-164	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	29	31	31
396	P-177	J-86	J-87	True	6.0	Asbestos Cement	140.0	False	0	0.00	1722	70	38	35
397	P-178	J-86	H-17	True	4.0	Ductile Iron	140.0	False	0	0.00	1470	33	38	38
372	P-153	J-123	J-124	True	4.0	Asbestos Cement	140.0	False	0	0.00	1454	64	41	41
1590	P-255	H-137	J-101	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	21	42	44
1471	P-52(2)(2)(1)	J-165	J-166	True	8.0	Asbestos Cement	140.0	False	606	3.87	1407	381	42	53
262	P-44	J-35	H-7	True	4.0	Ductile Iron	140.0	False	0	0.00	1677	29	44	46
325	P-107	J-84	J-80	True	8.0	Asbestos Cement	140.0	False	203	1.30	1470	516	44	59
1638	P-108(1)(1)(1)	J-84	J-202	True	8.0	Asbestos Cement	140.0	False	47	0.30	1470	222	44	57
346	P-128	J-101	J-102	True	4.0	Asbestos Cement	140.0	False	10	0.26	1712 E	196	44	31
1469	P-212	H-52	J-165	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	25	45	42
403	P-184	PRV-5 (Colt)	J-84	True	8.0	Asbestos Cement	140.0	False	253	1.62	1470	19	45	44
340	P-122	J-97	J-95	True	8.0	Asbestos Cement	140.0	False	290	1.85	1454	460	45	72
341	P-123	PRV-6 (Dapplegray)	J-97	True	8.0	Asbestos Cement	140.0	False	300	1.91	1454	37	45	45
1771	Site 3 Inlet Pipe	Site 3 PRV	Site 3 Tank	True	12.0	Steel	140.0	True	0	0.00	1924	29	46	15
370	P-151	J-122	J-123	True	4.0	Asbestos Cement	140.0	False	0	0.00	1454	169	47	41
1666	P-285	J-122	H-147	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	31	47	48
359	P-140	J-112	H-23	True	4.0	Ductile Iron	140.0	False	0	0.00	1712 E	32	49	46
360	P-141	J-112	J-113	True	8.0	Asbestos Cement	140.0	False	7	0.04	1712 E	39	49	51
384	P-165	J-134	J-135	True	8.0	Asbestos Cement	140.0	False	506	3.23	1722	23	50	51
1711	P-163(1)	J-134	J-217	True	8.0	Asbestos Cement	140.0	False	80	0.51	1722	591	50	70
1640	P-273	H-99	J-202	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	14	50	57
385	P-166	J-135	J-1	True	8.0	Asbestos Cement	140.0	False	493	3.15	1722	769	51	85
381	P-162	PRV-3 (Ranchero)	J-134	True	8.0	Asbestos Cement	140.0	False	593	3.78	1722	28	51	50
1714	P-302	H-108	J-135	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	11	51	51
1475	P-52(2)(2)(2)(1)	J-166	J-167	True	8.0	Asbestos Cement	140.0	False	599	3.83	1407	160	53	57
1477	P-214	H-54	J-167	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	30	54	57
1454	P-42(1)	J-30	J-162	True	8.0	Asbestos Cement	140.0	False	736	4.70	1677	451	54	61
1473	P-213	H-53	J-166	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	32	54	53
1408	P-196	H-145	J-150	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	21	55	57
357	P-138	J-111	H-24	True	4.0	Ductile Iron	140.0	False	0	0.00	1712 E	30	55	56
358	P-139	J-111	J-112	True	8.0	Asbestos Cement	140.0	False	13	0.09	1712 E	362	55	49
1456	P-208	H-48	J-162	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	23	56	61
250	P-32	J-13	J-24	True	10.0	Asbestos Cement	140.0	False	939	3.84	1677	410	56	69
1416	P-198	H-39	J-152	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	15	57	57
252	P-34	J-23	J-22	True	4.0	Asbestos Cement	140.0	False	13	0.34	1677	315	57	44
253	P-35	J-23	J-27	True	4.0	Asbestos Cement	140.0	False	7	0.17	1677	230	57	50
1407	P-31(2)	J-150	J-13	True	10.0	Asbestos Cement	140.0	False	946	3.86	1677	12	57	56
1479	P-52(2)(2)(2)(2)(1)	J-167	J-168	True	8.0	Asbestos Cement	140.0	False	586	3.74	1407	407	57	68
1415	P-33(2)	J-152	J-23	True	6.0	Asbestos Cement	140.0	False	30	0.34	1677	27	57	57

FlexTable: Pipe Table														
ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1639	P-108(1)(1)(2)	J-202	J-201	True	8.0	Asbestos Cement	140.0	False	40	0.26	1470	448	57	84
1481	P-215	H-55	J-168	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	19	58	68
1406	P-31(1)	PRV-4 (Saddlebow)	J-150	True	10.0	Asbestos Cement	140.0	False	946	3.86	1677	31	59	57
324	P-106	J-80	J-79	True	8.0	Asbestos Cement	140.0	False	186	1.19	1470	109	59	67
398	P-179	J-80	J-86	True	6.0	Asbestos Cement	140.0	False	10	0.11	1470	348	59	38
377	P-158	J-117	H-22	True	4.0	Ductile Iron	140.0	False	0	0.00	1454	23	60	58
378	P-159	J-117	J-116	True	4.0	Asbestos Cement	140.0	False	10	0.26	1454	219	60	56
258	P-40	J-29	H-5	True	4.0	Ductile Iron	140.0	False	0	0.00	1677	26	60	58
259	P-41	J-29	J-30	True	8.0	Asbestos Cement	140.0	False	743	4.74	1677	89	60	54
1458	P-42(2)(1)	J-162	J-163	True	8.0	Asbestos Cement	140.0	False	723	4.61	1677	447	61	67
303	P-85	J-59	H-15	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	19	61	64
1828	P-87(1)(1)	J-59	J-227	True	8.0	Asbestos Cement	140.0	False	3	0.02	1550	244	61	45
1636	P-272	H-100	J-201	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	38	62	84
1460	P-209	H-49	J-163	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	24	63	67
1679	P-289	H-120	J-210	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	11	64	66
1677	P-169(1)(1)	J-129	J-210	True	10.0	Asbestos Cement	140.0	False	696	2.84	1712 W	86	64	66
1726	P-308	H-97	J-78	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	20	64	64
1713	P-301	H-107	J-217	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	23	66	70
391	P-172	PRV-2 (Marlboro)	J-129	True	10.0	Asbestos Cement	140.0	False	703	2.87	1712 W	48	66	64
1678	P-169(1)(2)	J-210	J-209	True	10.0	Asbestos Cement	140.0	False	683	2.79	1712 W	708	66	88
1452	P-207	H-47	J-161	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	21	67	67
1451	P-39(2)(2)	J-161	J-29	True	8.0	Asbestos Cement	140.0	False	749	4.78	1677	309	67	60
296	P-78	J-79	J-136	True	8.0	Asbestos Cement	140.0	False	157	1.00	1470	445	67	92
297	P-79	J-79	J-136	True	6.0	Asbestos Cement	140.0	False	20	0.23	1470	576	67	64
1459	P-42(2)(2)	J-163	J-34	True	8.0	Asbestos Cement	140.0	False	709	4.53	1677	450	67	74
1480	P-52(2)(2)(2)(2)(2)	J-168	J-38	True	8.0	Asbestos Cement	140.0	False	566	3.61	1407	516	68	82
1410	P-36(1)	J-24	J-151	True	10.0	Asbestos Cement	140.0	False	899	3.67	1677	40	69	69
1414	P-33(1)	J-24	J-152	True	6.0	Asbestos Cement	140.0	False	33	0.38	1677	392	69	57
1411	P-36(2)	J-151	J-25	True	10.0	Asbestos Cement	140.0	False	896	3.66	1677	304	69	70
1412	P-197	H-38	J-151	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	12	69	69
1643	P-276	H-96	J-79	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	49	70	67
1424	P-200	H-40	J-154	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	25	70	70
1461	P-210	H-50	J-34	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	29	70	74
1422	P-38(1)	J-25	J-154	True	10.0	Asbestos Cement	140.0	False	869	3.55	1677	40	70	70
1737	P-37(1)	J-25	J-221	True	8.0	Asbestos Cement	140.0	False	17	0.11	1677	474	70	80
1426	P-38(2)(1)	J-154	J-155	True	10.0	Asbestos Cement	140.0	False	859	3.51	1677	565	70	72
1712	P-163(2)	J-217	J-131	True	8.0	Asbestos Cement	140.0	False	60	0.38	1722	478	70	87
1428	P-201	H-41	J-155	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	14	71	72
1721	P-306	H-117	J-125	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	25	71	70
339	P-121	J-95	J-94	True	8.0	Asbestos Cement	140.0	False	23	0.15	1454	580	72	112
1544	P-120(1)	J-95	J-182	True	8.0	Asbestos Cement	140.0	False	250	1.59	1454	551	72	92
1593	P-258	H-140	J-107	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	34	72	73
1430	P-38(2)(2)(1)	J-155	J-156	True	10.0	Asbestos Cement	140.0	False	843	3.44	1677	384	72	74
393	P-174	J-126	J-125	True	6.0	Asbestos Cement	140.0	False	7	0.08	1712 W	182	73	70
433	P-186	J-126	J-99	True	10.0	Steel	140.0	False	619	2.53	1712 W	2,647	73	120
302	P-84	J-58	J-59	True	8.0	Asbestos Cement	140.0	False	17	0.11	1407	165	74	61
1592	P-257	H-139	J-106	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	11	74	74
1434	P-38(2)(2)(2)(1)	J-156	J-157	True	10.0	Asbestos Cement	140.0	False	829	3.39	1677	468	74	76
351	P-132	J-106	J-107	True	4.0	Asbestos Cement	140.0	False	13	0.34	1712 E	158	74	73
261	P-43	J-34	J-35	True	8.0	Asbestos Cement	140.0	False	13	0.09	1677	609	74	44
263	P-45	J-34	J-33	True	8.0	Asbestos Cement	140.0	False	679	4.34	1677	546	74	108
1542	P-237	H-77	J-95	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	34	74	72
356	P-137	J-110	J-111	True	8.0	Asbestos Cement	140.0	False	30	0.19	1712 E	165	75	55
404	P-185	J-110	H-25	True	4.0	Ductile Iron	140.0	False	0	0.00	1712 E	19	75	74
1602	P-263	H-129	J-118	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	23	75	76
1438	P-38(2)(2)(2)(2)(1)	J-157	J-158	True	10.0	Asbestos Cement	140.0	False	809	3.31	1677	552	76	78
376	P-157	J-118	J-117	True	8.0	Asbestos Cement	140.0	False	20	0.13	1454	450	76	60

FlexTable: Pipe Table														
ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1589	P-254	H-136	J-100	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	51	77	78
345	P-127	J-100	J-101	True	6.0	Asbestos Cement	140.0	False	20	0.23	1712 E	427	78	44
347	P-129	J-100	J-105	True	8.0	Asbestos Cement	140.0	False	163	1.04	1712 E	625	78	87
1442	P-38(2)(2)(2)(2)(1)	J-158	J-159	True	10.0	Asbestos Cement	140.0	False	786	3.21	1677	387	78	80
1669	P-173(2)	J-208	J-126	True	10.0	Asbestos Cement	140.0	False	633	2.58	1712 W	272	79	73
1448	P-206	H-46	J-160	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	18	79	80
1443	P-38(2)(2)(2)(2)(2)	J-159	J-28	True	10.0	Asbestos Cement	140.0	False	776	3.17	1677	314	80	81
1450	P-39(2)(1)	J-160	J-161	True	8.0	Asbestos Cement	140.0	False	759	4.85	1677	528	80	67
1739	P-311	H-151	J-221	True	6.0	Ductile Iron	130.0	False	0	0.00	1677	13	80	80
1738	P-37(2)	J-221	J-26	True	8.0	Asbestos Cement	140.0	False	0	0.00	1677	305	80	87
1628	P-270	H-125	J-199	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	5	81	82
1446	P-39(1)	J-28	J-160	True	8.0	Asbestos Cement	140.0	False	769	4.91	1677	56	81	80
271	P-53	J-38	H-8	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	23	82	83
272	P-54	J-38	J-40	True	8.0	Asbestos Cement	140.0	False	553	3.53	1407	241	82	92
1627	P-150(2)(2)	J-199	J-122	True	8.0	Asbestos Cement	140.0	False	17	0.11	1454	450	82	47
1715	P-303	H-109	J-1	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	42	84	85
1635	P-108(1)(2)	J-201	J-200	True	8.0	Asbestos Cement	140.0	False	23	0.15	1470	544	84	116
386	P-167	J-1	J-128	True	8.0	Asbestos Cement	140.0	False	0	0.00	1712 W	131	85	87
1723	P-175(1)	J-1	J-218	True	8.0	Asbestos Cement	140.0	False	470	3.00	1722	502	85	110
387	P-168	J-128	J-127	True	8.0	Asbestos Cement	140.0	False	0	0.00	1712 W	297	87	91
348	P-130	J-105	J-106	True	6.0	Asbestos Cement	140.0	False	20	0.23	1712 E	391	87	74
352	P-133	J-105	J-108	True	8.0	Asbestos Cement	140.0	False	127	0.81	1712 E	253	87	89
1591	P-256	H-138	J-105	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	38	87	87
1706	P-164(1)	J-131	J-216	True	6.0	Asbestos Cement	140.0	False	43	0.49	1722	495	87	93
1605	P-156(2)	J-193	J-118	True	8.0	Asbestos Cement	140.0	False	37	0.23	1454	424	88	76
1588	P-253	H-135	J-191	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	17	88	90
1674	P-169(2)	J-209	J-127	True	10.0	Asbestos Cement	140.0	False	669	2.73	1712 W	98	88	91
1709	P-300	H-106	J-131	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	17	88	87
1503	P-222	H-61	J-53	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	24	88	89
1606	P-264	H-128	J-193	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	5	88	88
1670	P-286	H-116	J-208	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	17	89	79
293	P-75	J-53	J-54	True	4.0	Asbestos Cement	140.0	False	17	0.43	1407	224	89	76
353	P-134	J-108	H-26	True	4.0	Ductile Iron	140.0	False	0	0.00	1712 E	21	89	88
354	P-135	J-108	J-109	True	8.0	Asbestos Cement	140.0	False	117	0.74	1712 E	463	89	94
1587	P-126(2)(2)(2)(2)	J-191	J-100	True	10.0	Asbestos Cement	140.0	False	210	0.86	1712 E	631	90	78
229	P-11	J-5	J-6	True	10.0	Asbestos Cement	140.0	False	918	3.75	1924	49	91	91
389	P-170	J-5	J-130	True	10.0	Asbestos Cement	140.0	False	709	2.90	1924	718	91	130
221	P-3	J-137	J-138	True	10.0	Asbestos Cement	140.0	False	21	0.09	1924 Main	1,518	91	135
1746	P-4(1)	J-137	J-225	True	12.0	Asbestos Cement	140.0	False	1,634	4.63	1924 Main	8,308	91	142
1683	P-290	H-121	J-211	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	16	91	91
1675	P-288	H-118	J-209	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	19	91	88
323	P-105	J-81	J-82	True	8.0	Asbestos Cement	140.0	False	0	0.00	1347	39	91	144
230	P-12	J-6	J-7	True	10.0	Asbestos Cement	140.0	False	911	3.72	1924	591	91	105
1682	P-10(2)	J-211	J-5	True	10.0	Asbestos Cement	140.0	False	1,630	6.66	1924	41	91	91
1671	P-287	H-119	J-127	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	31	91	91
1668	P-173(1)	J-127	J-208	True	10.0	Asbestos Cement	140.0	False	653	2.67	1712 W	575	91	79
1719	P-305	H-150	J-21	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	26	91	92
364	P-145	J-104	J-103	True	4.0	Asbestos Cement	140.0	False	10	0.26	1712 E	259	92	88
295	P-77	J-136	H-13	True	4.0	Ductile Iron	140.0	False	0	0.00	1470	30	92	92
1645	P-76(1)	J-136	J-203	True	8.0	Asbestos Cement	140.0	False	140	0.89	1470	591	92	118
1594	P-259	H-144	J-104	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	26	92	92
1432	P-202	H-42	J-156	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	14	92	74
1548	P-120(2)(1)	J-182	J-183	True	8.0	Asbestos Cement	140.0	False	233	1.49	1454	439	92	109
273	P-55	J-40	J-39	True	4.0	Asbestos Cement	140.0	False	13	0.34	1407	420	92	67
274	P-56	J-40	H-9	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	42	92	95
275	P-57	J-40	J-41	True	4.0	Asbestos Cement	140.0	False	0	0.00	1407	197	92	127
1483	P-62(1)	J-40	J-169	True	8.0	Asbestos Cement	140.0	False	526	3.36	1407	486	92	98
1708	P-299	H-105	J-216	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	7	92	93
1707	P-164(2)	J-216	J-132	True	6.0	Asbestos Cement	140.0	False	20	0.23	1722	559	93	99

FlexTable: Pipe Table														
ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1596	P-260	H-146	J-109	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	15	94	94
355	P-136	J-109	J-110	True	8.0	Asbestos Cement	140.0	False	37	0.23	1712 E	320	94	75
361	P-142	J-109	J-115	True	8.0	Asbestos Cement	140.0	False	73	0.47	1712 E	304	94	112
1444	P-205	H-45	J-159	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	28	94	80
225	P-7	J-4	J-3	True	16.0	Asbestos Cement	140.0	False	0	0.00	1924	1,118	96	15
1681	P-10(1)	J-4	J-211	True	10.0	Asbestos Cement	140.0	False	1,634	6.67	1924	683	96	91
1687	P-6(2)	J-212	J-4	True	16.0	Asbestos Cement	140.0	False	1,634	2.61	1924	267	96	96
1686	P-6(1)	PRV-1 (Main)	J-212	True	16.0	Asbestos Cement	140.0	False	1,634	2.61	1924	40	96	96
220	P-2	J-139	J-137	True	10.0	Asbestos Cement	140.0	False	1,655	6.76	1924 Main	2,889	96	91
322	P-104	J-75	J-81	True	8.0	Asbestos Cement	140.0	False	3	0.02	1347	233	97	91
1552	P-102(1)	J-75	J-184	True	6.0	Asbestos Cement	140.0	False	53	0.60	1347	30	97	97
1553	P-102(2)	J-184	J-76	True	6.0	Asbestos Cement	140.0	False	40	0.45	1347	562	97	100
1554	P-240	H-85	J-184	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	25	97	97
1440	P-204	H-44	J-158	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	22	98	78
1487	P-62(2)(1)	J-169	J-170	True	8.0	Asbestos Cement	140.0	False	506	3.23	1407	427	98	103
1704	P-298	H-104	J-132	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	10	99	99
1556	P-242	H-81	J-96	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	12	99	99
1584	P-252	H-134	J-190	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	36	100	101
321	P-103	J-76	J-77	True	4.0	Asbestos Cement	140.0	False	10	0.26	1347	335	100	101
300	P-82	J-57	H-14	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	30	100	102
301	P-83	J-57	J-58	True	8.0	Asbestos Cement	140.0	False	33	0.21	1407	495	100	74
1586	P-126(2)(2)(2)(1)	J-190	J-191	True	10.0	Asbestos Cement	140.0	False	230	0.94	1712 E	515	101	90
1600	P-144(2)	J-192	J-104	True	6.0	Asbestos Cement	140.0	False	27	0.30	1712 E	527	101	92
1693	P-293	H-111	J-213	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	5	102	108
1485	P-216	H-56	J-169	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	27	102	98
1567	P-247	H-87	J-76	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	22	102	100
1436	P-203	H-43	J-157	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	13	103	76
1689	P-292	H-110	J-7	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	47	103	105
1488	P-62(2)(2)	J-170	J-42	True	8.0	Asbestos Cement	140.0	False	493	3.15	1407	99	103	104
1695	P-295	H-113	J-9	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	16	103	104
1489	P-217	H-57	J-170	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	26	103	103
1501	P-220	H-60	J-173	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	27	103	106
282	P-64	J-43	H-10	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	19	104	103
1491	P-65(1)	J-43	J-171	True	8.0	Asbestos Cement	140.0	False	473	3.02	1407	479	104	104
1615	P-156(1)(2)(2)	J-196	J-193	True	8.0	Asbestos Cement	140.0	False	57	0.36	1454	583	104	88
1688	P-291	H-148	J-212	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	30	104	96
1493	P-218	H-58	J-171	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	27	104	104
1601	P-262	H-143	J-192	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	9	104	101
281	P-63	J-42	J-43	True	8.0	Asbestos Cement	140.0	False	490	3.12	1407	286	104	104
285	P-67	J-47	J-46	True	8.0	Asbestos Cement	140.0	False	53	0.34	1470	384	104	107
286	P-68	J-47	H-27	True	4.0	Ductile Iron	140.0	False	0	0.00	1470	20	104	104
1495	P-65(2)(1)	J-171	J-172	True	8.0	Asbestos Cement	140.0	False	450	2.87	1407	443	104	105
1664	P-284	H-90	J-46	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	62	104	107
379	P-160	J-7	J-133	True	8.0	Asbestos Cement	140.0	False	603	3.85	1924	473	105	126
1691	P-13(1)	J-7	J-213	True	10.0	Asbestos Cement	140.0	False	288	1.18	1924	399	105	108
1497	P-219	H-59	J-172	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	31	105	105
1496	P-65(2)(2)	J-172	J-50	True	8.0	Asbestos Cement	140.0	False	433	2.76	1407	293	105	106
284	P-66	J-50	J-49	True	8.0	Asbestos Cement	140.0	False	0	0.00	1470	402	106	145
1499	P-71(1)	J-50	J-173	True	8.0	Asbestos Cement	140.0	False	430	2.74	1407	173	106	106
1546	P-238	H-78	J-182	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	11	106	92
1500	P-71(2)	J-173	J-51	True	8.0	Asbestos Cement	140.0	False	420	2.68	1407	384	106	106
1661	P-61(1)	J-45	J-207	True	6.0	Asbestos Cement	140.0	False	23	0.26	1470	401	106	112
1560	P-243	H-82	J-185	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	6	106	112
290	P-72	J-51	H-12	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	26	106	108
291	P-73	J-51	J-52	True	8.0	Asbestos Cement	140.0	False	403	2.57	1407	437	106	112
1733	P-101(2)(2)	J-220	J-75	True	8.0	Asbestos Cement	140.0	False	57	0.36	1347	379	106	97
314	P-96	J-56	J-67	True	8.0	Asbestos Cement	140.0	False	220	1.40	1347	256	107	110
277	P-59	J-46	J-45	True	6.0	Asbestos Cement	140.0	False	30	0.34	1470	81	107	106
1728	P-58(1)	J-46	J-219	True	8.0	Asbestos Cement	140.0	False	10	0.06	1470	425	107	116

FlexTable: Pipe Table

ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
264	P-46	J-33	J-31	True	4.0	Asbestos Cement	140.0	False	13	0.34	1677	408	108	88
265	P-47	J-33	J-32	True	8.0	Asbestos Cement	140.0	False	653	4.17	1677	39	108	110
1692	P-13(2)	J-213	J-8	True	10.0	Asbestos Cement	140.0	False	275	1.12	1924	395	108	111
1549	P-120(2)(2)	J-183	J-93	True	8.0	Asbestos Cement	140.0	False	223	1.42	1454	671	109	134
1616	P-267	H-127	J-196	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	15	109	104
313	P-95	PRV-7 (Bridle)	J-56	True	8.0	Asbestos Cement	140.0	False	226	1.45	1347	76	109	107
1724	P-175(2)	J-218	J-88	True	8.0	Asbestos Cement	140.0	False	453	2.89	1722	566	110	138
1582	P-126(2)(2)(1)	J-189	J-190	True	10.0	Asbestos Cement	140.0	False	250	1.02	1712 E	447	110	101
1614	P-156(1)(2)(1)	J-195	J-196	True	8.0	Asbestos Cement	140.0	False	80	0.51	1454	237	110	104
266	P-48	J-32	H-6	True	4.0	Ductile Iron	140.0	False	0	0.00	1677	33	110	110
267	P-49	J-32	J-36	True	8.0	Asbestos Cement	140.0	False	653	4.17	1677	187	110	122
315	P-97	J-67	J-66	True	4.0	Asbestos Cement	140.0	False	10	0.26	1347	255	110	107
316	P-98	J-67	J-68	True	8.0	Asbestos Cement	140.0	False	193	1.23	1347	320	110	115
1523	P-230	H-70	J-67	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	49	110	110
1725	P-307	H-103	J-218	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	7	110	110
1398	P-193	H-35	J-148	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	15	111	112
1734	P-310	H-86	J-220	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	22	111	106
247	P-29	J-20	J-21	True	6.0	Asbestos Cement	140.0	False	10	0.11	1924	265	111	92
1694	P-294	H-112	J-8	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	44	111	111
232	P-14	J-8	J-9	True	6.0	Asbestos Cement	140.0	False	0	0.00	1924	451	111	104
1697	P-15(1)	J-8	J-214	True	10.0	Asbestos Cement	140.0	False	258	1.06	1924	450	111	122
1397	P-20(2)	J-148	J-16	True	8.0	Asbestos Cement	140.0	False	13	0.09	1924	416	112	109
362	P-143	J-115	J-114	True	4.0	Asbestos Cement	140.0	False	10	0.26	1712 E	291	112	116
1599	P-144(1)	J-115	J-192	True	6.0	Asbestos Cement	140.0	False	47	0.53	1712 E	558	112	101
292	P-74	J-52	J-53	True	6.0	Asbestos Cement	140.0	False	40	0.45	1407	492	112	89
1505	P-80(1)	J-52	J-174	True	8.0	Asbestos Cement	140.0	False	336	2.15	1407	724	112	116
1399	P-194	H-36	J-16	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	29	112	109
1502	P-221	H-62	J-52	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	72	112	112
1663	P-283	H-88	J-207	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	12	112	112
1662	P-61(2)	J-207	J-44	True	6.0	Asbestos Cement	140.0	False	10	0.11	1470	108	112	114
1559	P-146(2)	J-185	J-96	True	6.0	Asbestos Cement	140.0	False	17	0.19	1454	547	112	99
1597	P-261	H-142	J-115	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	43	113	112
1541	P-236	H-76	J-94	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	16	113	112
1632	P-271	H-101	J-200	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	29	113	116
1580	P-251	H-133	J-189	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	32	114	110
1612	P-266	H-126	J-195	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	36	114	110
1626	P-150(2)(1)	J-198	J-199	True	8.0	Asbestos Cement	140.0	False	27	0.17	1454	398	114	82
1524	P-231	H-71	J-68	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	54	114	115
1536	P-234	H-74	J-180	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	55	114	121
317	P-99	J-68	J-69	True	4.0	Asbestos Cement	140.0	False	20	0.51	1347	298	115	104
318	P-100	J-68	J-70	True	8.0	Asbestos Cement	140.0	False	163	1.04	1347	505	115	119
239	P-21	J-15	H-1	True	4.0	Ductile Iron	140.0	False	0	0.00	1924	15	115	112
1396	P-20(1)	J-15	J-148	True	8.0	Asbestos Cement	140.0	False	33	0.21	1924	525	115	112
1624	P-269	H-124	J-198	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	5	115	114
1506	P-80(2)	J-174	J-55	True	8.0	Asbestos Cement	140.0	False	310	1.98	1407	505	116	118
1394	P-192	H-34	J-147	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	21	116	121
1729	P-58(2)	J-219	J-41	True	8.0	Asbestos Cement	140.0	False	0	0.00	1470	484	116	127
1631	P-108(2)	J-200	J-82	True	8.0	Asbestos Cement	140.0	False	7	0.04	1470	466	116	144
1699	P-296	H-114	J-214	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	13	116	122
1732	P-101(2)(1)	J-178	J-220	True	8.0	Asbestos Cement	140.0	False	70	0.45	1347	400	117	106
243	P-25	J-18	H-3	True	4.0	Ductile Iron	140.0	False	0	0.00	1924	26	117	117
244	P-26	J-18	J-19	True	6.0	Asbestos Cement	140.0	False	17	0.19	1924	612	117	148
245	P-27	J-18	J-20	True	6.0	Asbestos Cement	140.0	False	20	0.23	1924	158	117	111
1507	P-223	H-63	J-174	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	27	118	116
1528	P-232	H-72	J-178	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	15	118	117
1618	P-154(1)	J-120	J-197	True	8.0	Asbestos Cement	140.0	False	110	0.70	1454	423	118	118
1622	P-150(1)	J-120	J-198	True	8.0	Asbestos Cement	140.0	False	27	0.17	1454	47	118	114
1578	P-126(2)(1)	J-188	J-189	True	10.0	Asbestos Cement	140.0	False	266	1.09	1712 E	390	118	110
1619	P-154(2)	J-197	J-119	True	8.0	Asbestos Cement	140.0	False	97	0.62	1454	492	118	118

FlexTable: Pipe Table														
ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1508	P-224	H-64	J-55	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	64	118	118
374	P-155	J-119	H-28	True	4.0	Ductile Iron	140.0	False	0	0.00	1454	24	118	115
1610	P-156(1)(1)	J-119	J-195	True	8.0	Asbestos Cement	140.0	False	80	0.51	1454	289	118	110
1649	P-76(2)(1)	J-203	J-204	True	8.0	Asbestos Cement	140.0	False	120	0.77	1470	476	118	139
1656	P-69(2)	J-205	J-47	True	8.0	Asbestos Cement	140.0	False	67	0.43	1470	286	118	104
299	P-81	J-55	J-57	True	8.0	Asbestos Cement	140.0	False	60	0.38	1407	453	118	100
312	P-94	J-55	PRV-7 (Bridle)	True	8.0	Asbestos Cement	140.0	False	226	1.45	1407	59	118	122
237	P-19	J-14	J-15	True	8.0	Asbestos Cement	140.0	False	43	0.28	1924	281	119	115
1388	P-22(1)	J-14	J-146	True	8.0	Asbestos Cement	140.0	False	93	0.60	1924	318	119	135
1526	P-101(1)	J-70	J-178	True	8.0	Asbestos Cement	140.0	False	87	0.55	1347	95	119	117
1530	P-109(1)	J-70	J-179	True	8.0	Asbestos Cement	140.0	False	67	0.43	1347	376	119	120
1576	P-250	H-132	J-188	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	27	119	118
1570	P-125(1)	J-99	J-187	True	8.0	Asbestos Cement	140.0	False	336	2.15	1712 E	459	120	133
1574	P-126(1)	J-99	J-188	True	10.0	Asbestos Cement	140.0	False	276	1.13	1712 E	81	120	118
1531	P-109(2)	J-179	J-71	True	8.0	Asbestos Cement	140.0	False	43	0.28	1347	393	120	120
1532	P-233	H-73	J-179	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	30	120	120
1540	P-235	H-75	J-181	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	48	120	123
1657	P-281	H-91	J-205	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	13	120	118
328	P-110	J-71	H-18	True	4.0	Ductile Iron	140.0	False	0	0.00	1347	38	120	122
329	P-111	J-71	J-94	True	8.0	Asbestos Cement	140.0	False	0	0.00	1454	582	120	112
1534	P-112(1)	J-71	J-180	True	8.0	Asbestos Cement	140.0	False	27	0.17	1347	421	120	121
1393	P-18(2)	J-147	J-14	True	8.0	Asbestos Cement	140.0	False	143	0.91	1924	46	121	119
1535	P-112(2)	J-180	J-72	True	8.0	Asbestos Cement	140.0	False	23	0.15	1347	452	121	121
331	P-113	J-72	H-19	True	4.0	Ductile Iron	140.0	False	0	0.00	1347	30	121	122
1538	P-114(1)	J-72	J-181	True	8.0	Asbestos Cement	140.0	False	17	0.11	1347	300	121	123
268	P-50	J-36	PRV-8 (Zanja)	True	8.0	Asbestos Cement	140.0	False	646	4.12	1677	51	122	124
1701	P-15(2)(1)	J-214	J-215	True	10.0	Asbestos Cement	140.0	False	238	0.97	1924	509	122	134
1564	P-244	H-83	J-186	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	33	122	123
1563	P-146(1)(2)	J-186	J-185	True	6.0	Asbestos Cement	140.0	False	40	0.45	1454	423	123	112
1539	P-114(2)	J-181	J-73	True	8.0	Asbestos Cement	140.0	False	7	0.04	1347	312	123	125
333	P-115	J-73	J-74	True	8.0	Asbestos Cement	140.0	False	0	0.00	1347	271	125	129
1730	P-309	H-89	J-219	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	25	125	116
1620	P-268	H-123	J-197	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	4	125	118
1522	P-229	H-69	J-177	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	10	126	137
367	P-148	J-121	H-20	True	4.0	Ductile Iron	140.0	False	0	0.00	1454	26	126	127
368	P-149	J-121	J-120	True	8.0	Asbestos Cement	140.0	False	140	0.89	1454	197	126	118
380	P-161	J-133	PRV-3 (Ranchero)	True	8.0	Asbestos Cement	140.0	False	593	3.78	1924	76	126	131
1518	P-228	H-68	J-62	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	55	127	128
1382	P-189	H-30	J-144	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	12	127	128
1381	P-24(2)	J-144	J-18	True	8.0	Asbestos Cement	140.0	False	43	0.28	1924	459	128	117
1572	P-249	H-131	J-187	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	15	128	133
308	P-90	J-62	J-65	True	4.0	Asbestos Cement	140.0	False	23	0.60	1550	431	128	120
1520	P-91(1)	J-62	J-177	True	8.0	Asbestos Cement	140.0	False	47	0.30	1550	470	128	137
1647	P-277	H-95	J-203	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	18	128	118
1550	P-239	H-79	J-183	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	30	129	109
1403	P-195	H-37	J-149	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	32	130	139
390	P-171	J-130	PRV-2 (Marlboro)	True	10.0	Asbestos Cement	140.0	False	703	2.87	1924	275	130	152
1703	P-297	H-115	J-215	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	33	131	134
1565	P-245	H-80	J-93	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	56	132	134
1571	P-125(2)	J-187	J-98	True	8.0	Asbestos Cement	140.0	False	313	2.00	1712 E	480	133	147
1702	P-15(2)(2)	J-215	J-10	True	10.0	Asbestos Cement	140.0	False	225	0.92	1924	86	134	136
337	P-119	J-93	J-92	True	8.0	Asbestos Cement	140.0	False	157	1.00	1454	390	134	135
1562	P-146(1)(1)	J-93	J-186	True	6.0	Asbestos Cement	140.0	False	47	0.53	1454	448	134	123
1568	P-248	H-84	J-91	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	48	135	135
336	P-118	J-92	J-91	True	8.0	Asbestos Cement	140.0	False	3	0.02	1454	28	135	135
366	P-147	J-92	J-121	True	8.0	Asbestos Cement	140.0	False	143	0.91	1454	402	135	126
335	P-117	J-91	J-83	True	8.0	Asbestos Cement	140.0	False	3	0.02	1454	199	135	136

FlexTable: Pipe Table														
ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1389	P-22(2)	J-146	J-17	True	8.0	Asbestos Cement	140.0	False	83	0.53	1924	320	135	152
334	P-116	J-83	J-82	True	8.0	Asbestos Cement	140.0	False	0	0.00	1454	30	136	144
1741	P-16(1)	J-10	J-222	True	10.0	Steel	140.0	False	215	0.88	1924	1,092	136	219
1521	P-91(2)	J-177	J-63	True	8.0	Asbestos Cement	140.0	False	17	0.11	1550	516	137	146
1717	P-304	H-149	J-88	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	44	138	138
1390	P-191	H-33	J-146	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	27	138	135
1385	P-24(1)(2)	J-145	J-144	True	8.0	Asbestos Cement	140.0	False	50	0.32	1924	443	138	128
395	P-176	J-88	J-87	True	6.0	Asbestos Cement	140.0	False	0	0.00	1722	307	138	35
399	P-180	J-88	J-85	True	8.0	Asbestos Cement	140.0	False	443	2.83	1722	374	138	147
1402	P-18(1)(2)	J-149	J-147	True	8.0	Asbestos Cement	140.0	False	153	0.98	1924	456	139	121
1650	P-76(2)(2)	J-204	J-49	True	8.0	Asbestos Cement	140.0	False	107	0.68	1470	129	139	145
1653	P-280	H-92	J-48	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	117	140	142
1641	P-274	H-102	J-89	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	29	140	141
401	P-182	J-89	J-90	True	4.0	Asbestos Cement	140.0	False	10	0.26	1722	225	141	135
1517	P-227	H-67	J-176	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	37	142	144
1747	P-4(2)	J-225	J-2	True	12.0	Asbestos Cement	140.0	False	1,634	4.63	1924 Main	2,646	142	158
1770	Site 3 Source Pipe	J-225	Site 3 PRV	True	12.0	Steel	140.0	False	0	0.00	1924 Main	7,945	142	76
1655	P-69(1)	J-48	J-205	True	8.0	Asbestos Cement	140.0	False	83	0.53	1470	481	142	118
1516	P-88(2)	J-176	J-60	True	4.0	Asbestos Cement	140.0	False	13	0.34	1550	141	144	140
1386	P-190	H-31	J-145	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	13	145	138
1642	P-275	H-98	J-85	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	53	145	147
288	P-70	J-49	J-48	True	8.0	Asbestos Cement	140.0	False	100	0.64	1470	230	145	142
310	P-92	J-63	H-16	True	4.0	Ductile Iron	140.0	False	0	0.00	1550	37	146	145
311	P-93	J-63	J-64	True	8.0	Asbestos Cement	140.0	False	3	0.02	1550	68	146	148
1652	P-279	H-93	J-49	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	57	146	145
1651	P-278	H-94	J-204	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	32	147	139
400	P-181	J-85	J-89	True	6.0	Asbestos Cement	140.0	False	23	0.26	1722	687	147	141
402	P-183	J-85	PRV-5 (Colt)	True	8.0	Asbestos Cement	140.0	False	253	1.62	1722	82	147	150
1826	Flintlock Bypass	J-85	J-175	True	6.0	Ductile Iron	130.0	False	157	1.78	1550	5,495	147	183
1555	P-241	H-130	J-98	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	14	147	147
342	P-124	J-98	PRV-6 (Dapplegray)	True	8.0	Asbestos Cement	140.0	False	300	1.91	1712 E	24	147	152
1378	P-188	H-29	J-19	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	23	150	148
241	P-23	J-17	H-2	True	4.0	Ductile Iron	140.0	False	0	0.00	1924	21	152	153
1384	P-24(1)(1)	J-17	J-145	True	8.0	Asbestos Cement	140.0	False	70	0.45	1924	592	152	138
248	P-30	J-12	PRV-4 (Saddlebow)	True	10.0	Asbestos Cement	140.0	False	946	3.86	1924	26	153	160
1401	P-18(1)(1)	J-12	J-149	True	8.0	Asbestos Cement	140.0	False	167	1.06	1924	364	153	139
1513	P-226	H-66	J-61	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	44	153	154
307	P-89	J-61	J-62	True	8.0	Asbestos Cement	140.0	False	93	0.60	1550	390	154	128
1515	P-88(1)	J-61	J-176	True	4.0	Asbestos Cement	140.0	False	30	0.77	1550	329	154	144
223	P-5	J-2	PRV-1 (Main)	True	16.0	Asbestos Cement	140.0	False	1,634	2.61	1924 Main	41	158	151
1511	P-87(2)	J-175	J-61	True	8.0	Asbestos Cement	140.0	False	147	0.94	1550	466	183	154
1512	P-225	H-65	J-175	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	13	185	183
1742	P-16(2)	J-222	J-11	True	10.0	Steel	140.0	False	215	0.88	1924	325	219	244
235	P-17	J-11	J-12	True	10.0	Steel	140.0	False	215	0.88	1924	1,534	244	153

FlexTable: Hydrant Table														
ID	Label	Hydrant Status	Include Hydrant Lateral Loss?	Emitter Coefficient (gpm/psi^n)	Length (Hydrant Lateral) (ft)	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Satisfies Fire Flow Constraints?	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)
1299	H-67	Open	False	0.000	20	1,371.27	1550	<Collection: 0 items>	0	1,699.56	142	False	588	1,000
57	H-16	Open	False	0.000	20	1,363.99	1550	<Collection: 0 items>	0	1,699.69	145	False	611	1,000
1301	H-69	Open	False	0.000	20	1,408.00	1550	<Collection: 0 items>	0	1,699.69	126	False	611	1,000
1300	H-68	Open	False	0.000	20	1,407.32	1550	<Collection: 0 items>	0	1,699.72	127	False	611	1,000
1298	H-66	Open	False	0.000	20	1,345.71	1550	<Collection: 0 items>	0	1,699.79	153	False	615	1,000
1297	H-65	Open	False	0.000	20	1,273.44	1550	<Collection: 0 items>	0	1,700.00	185	False	621	1,000
56	H-15	Open	False	0.000	20	1,229.57	1407	<Collection: 0 items>	0	1,376.39	64	False	722	1,000
55	H-14	Open	False	0.000	20	1,141.15	1407	<Collection: 0 items>	0	1,376.41	102	False	746	1,000
1296	H-64	Open	False	0.000	20	1,103.57	1407	<Collection: 0 items>	0	1,376.45	118	False	765	1,000
48	H-7	Open	False	0.000	20	1,535.87	1677	<Collection: 0 items>	0	1,642.23	46	False	778	1,000
1295	H-63	Open	False	0.000	20	1,105.70	1407	<Collection: 0 items>	0	1,377.37	118	False	799	1,000
1369	H-137	Open	False	0.000	20	1,605.17	1712 E	<Collection: 0 items>	0	1,701.43	42	False	836	1,000
47	H-6	Open	False	0.000	20	1,384.44	1677	<Collection: 0 items>	0	1,637.71	110	False	841	1,000
1282	H-50	Open	False	0.000	20	1,480.51	1677	<Collection: 0 items>	0	1,642.24	70	False	841	1,000
1294	H-62	Open	False	0.000	20	1,119.88	1407	<Collection: 0 items>	0	1,378.90	112	False	857	1,000
1293	H-61	Open	False	0.000	20	1,174.96	1407	<Collection: 0 items>	0	1,378.82	88	False	858	1,000
53	H-12	Open	False	0.000	20	1,129.88	1407	<Collection: 0 items>	0	1,380.19	108	False	901	1,000
1372	H-140	Open	False	0.000	20	1,534.45	1712 E	<Collection: 0 items>	0	1,701.06	72	False	904	1,000
1319	H-87	Open	False	0.000	20	1,109.32	1347	<Collection: 0 items>	0	1,346.14	102	False	917	1,000
64	H-23	Open	False	0.000	20	1,595.52	1712 E	<Collection: 0 items>	0	1,700.86	46	False	919	1,000
1281	H-49	Open	False	0.000	20	1,500.72	1677	<Collection: 0 items>	0	1,646.03	63	False	930	1,000
1292	H-60	Open	False	0.000	20	1,142.35	1407	<Collection: 0 items>	0	1,381.42	103	False	945	1,000
1317	H-85	Open	False	0.000	20	1,121.44	1347	<Collection: 0 items>	0	1,346.23	97	False	968	1,000
1318	H-86	Open	False	0.000	20	1,090.62	1347	<Collection: 0 items>	0	1,346.27	111	False	986	1,000
1304	H-72	Open	False	0.000	20	1,073.93	1347	<Collection: 0 items>	0	1,346.32	118	True	1,006	1,000
1291	H-59	Open	False	0.000	20	1,140.41	1407	<Collection: 0 items>	0	1,382.98	105	True	1,006	1,000
63	H-22	Open	False	0.000	20	1,317.31	1454	<Collection: 0 items>	0	1,450.65	58	True	1,009	1,000
1305	H-73	Open	False	0.000	20	1,069.21	1347	<Collection: 0 items>	0	1,346.29	120	True	1,011	1,000
59	H-18	Open	False	0.000	20	1,064.56	1347	<Collection: 0 items>	0	1,346.28	122	True	1,011	1,000
60	H-19	Open	False	0.000	20	1,063.68	1347	<Collection: 0 items>	0	1,346.26	122	True	1,011	1,000
1307	H-75	Open	False	0.000	20	1,069.02	1347	<Collection: 0 items>	0	1,346.26	120	True	1,011	1,000
1306	H-74	Open	False	0.000	20	1,081.76	1347	<Collection: 0 items>	0	1,346.27	114	True	1,011	1,000
65	H-24	Open	False	0.000	20	1,572.15	1712 E	<Collection: 0 items>	0	1,700.86	56	True	1,038	1,000
1280	H-48	Open	False	0.000	20	1,521.55	1677	<Collection: 0 items>	0	1,649.93	56	True	1,042	1,000
1303	H-71	Open	False	0.000	20	1,082.52	1347	<Collection: 0 items>	0	1,346.61	114	True	1,043	1,000
66	H-25	Open	False	0.000	20	1,528.95	1712 E	<Collection: 0 items>	0	1,700.87	74	True	1,057	1,000
1665	H-147	Open	False	0.000	20	1,340.35	1454	<Collection: 0 items>	0	1,451.00	48	True	1,061	1,000
1302	H-70	Open	False	0.000	20	1,091.91	1347	<Collection: 0 items>	0	1,346.86	110	True	1,066	1,000
1370	H-138	Open	False	0.000	20	1,499.38	1712 E	<Collection: 0 items>	0	1,701.10	87	True	1,068	1,000
1368	H-136	Open	False	0.000	20	1,523.76	1712 E	<Collection: 0 items>	0	1,701.45	77	True	1,068	1,000
67	H-26	Open	False	0.000	20	1,497.30	1712 E	<Collection: 0 items>	0	1,701.02	88	True	1,068	1,000
1374	H-142	Open	False	0.000	20	1,440.81	1712 E	<Collection: 0 items>	0	1,700.84	113	True	1,068	1,000
1375	H-143	Open	False	0.000	20	1,460.15	1712 E	<Collection: 0 items>	0	1,700.72	104	True	1,068	1,000
1595	H-146	Open	False	0.000	20	1,484.65	1712 E	<Collection: 0 items>	0	1,700.88	94	True	1,068	1,000
1376	H-144	Open	False	0.000	20	1,487.71	1712 E	<Collection: 0 items>	0	1,700.67	92	True	1,068	1,000
1371	H-139	Open	False	0.000	20	1,530.99	1712 E	<Collection: 0 items>	0	1,701.09	74	True	1,068	1,000
1290	H-58	Open	False	0.000	20	1,144.41	1407	<Collection: 0 items>	0	1,384.59	104	True	1,075	1,000
1361	H-129	Open	False	0.000	20	1,277.86	1454	<Collection: 0 items>	0	1,450.65	75	True	1,084	1,000
1367	H-135	Open	False	0.000	20	1,498.84	1712 E	<Collection: 0 items>	0	1,701.64	88	True	1,126	1,000
1360	H-128	Open	False	0.000	20	1,246.52	1454	<Collection: 0 items>	0	1,450.67	88	True	1,128	1,000
1357	H-125	Open	False	0.000	20	1,264.04	1454	<Collection: 0 items>	0	1,451.00	81	True	1,134	1,000
51	H-10	Open	False	0.000	20	1,148.70	1407	<Collection: 0 items>	0	1,386.49	103	True	1,164	1,000
1366	H-134	Open	False	0.000	20	1,470.69	1712 E	<Collection: 0 items>	0	1,701.82	100	True	1,181	1,000
1356	H-124	Open	False	0.000	20	1,184.83	1454	<Collection: 0 items>	0	1,451.01	115	True	1,201	1,000
1359	H-127	Open	False	0.000	20	1,198.95	1454	<Collection: 0 items>	0	1,450.71	109	True	1,202	1,000
1355	H-123	Open	False	0.000	20	1,161.20	1454	<Collection: 0 items>	0	1,450.90	125	True	1,209	1,000
78	H-28	Open	False	0.000	20	1,185.27	1454	<Collection: 0 items>	0	1,450.79	115	True	1,209	1,000
1358	H-126	Open	False	0.000	20	1,187.19	1454	<Collection: 0 items>	0	1,450.75	114	True	1,210	1,000

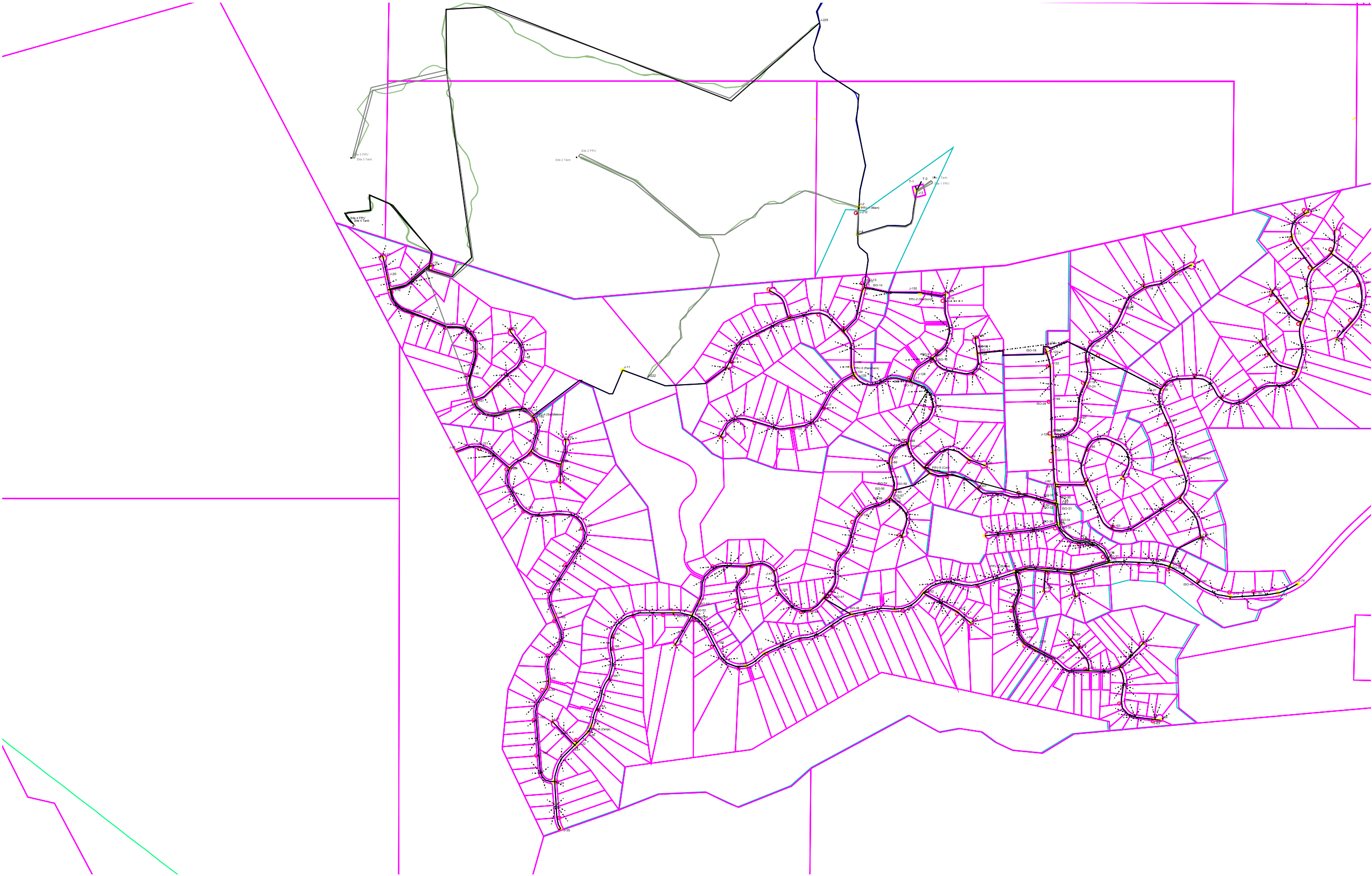
FlexTable: Hydrant Table

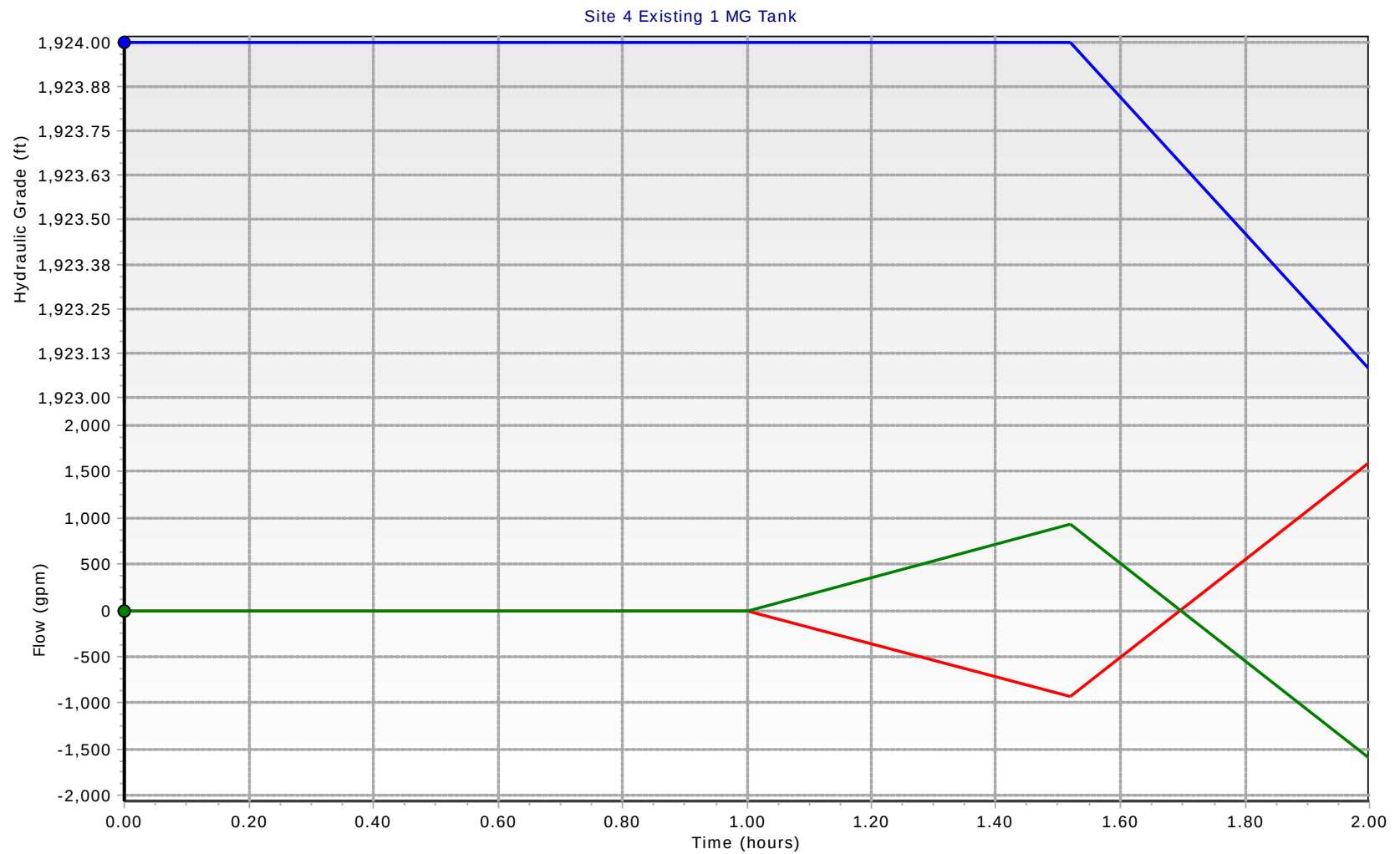
ID	Label	Hydrant Status	Include Hydrant Lateral Loss?	Emitter Coefficient (gpm/psi^n)	Length (Hydrant Lateral) (ft)	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Satisfies Fire Flow Constraints?	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)
46	H-5	Open	False	0.000	20	1,520.50	1677	<Collection: 0 items>	0	1,654.82	58	True	1,229	1,000
1365	H-133	Open	False	0.000	20	1,439.45	1712 E	<Collection: 0 items>	0	1,702.00	114	True	1,237	1,000
1289	H-57	Open	False	0.000	20	1,149.48	1407	<Collection: 0 items>	0	1,388.13	103	True	1,252	1,000
61	H-20	Open	False	0.000	20	1,157.23	1454	<Collection: 0 items>	0	1,451.09	127	True	1,255	1,000
1313	H-81	Open	False	0.000	20	1,222.00	1454	<Collection: 0 items>	0	1,451.28	99	True	1,264	1,000
1364	H-132	Open	False	0.000	20	1,426.61	1712 E	<Collection: 0 items>	0	1,702.18	119	True	1,292	1,000
1363	H-131	Open	False	0.000	20	1,404.57	1712 E	<Collection: 0 items>	0	1,701.25	128	True	1,304	1,000
1362	H-130	Open	False	0.000	20	1,359.51	1712 E	<Collection: 0 items>	0	1,700.36	147	True	1,304	1,000
1288	H-56	Open	False	0.000	20	1,153.45	1407	<Collection: 0 items>	0	1,390.06	102	True	1,328	1,000
1316	H-84	Open	False	0.000	20	1,140.00	1454	<Collection: 0 items>	0	1,451.27	135	True	1,362	1,000
58	H-17	Open	False	0.000	20	1,382.29	1470	<Collection: 0 items>	0	1,469.62	38	True	1,365	1,000
1279	H-47	Open	False	0.000	20	1,503.08	1677	<Collection: 0 items>	0	1,657.70	67	True	1,376	1,000
50	H-9	Open	False	0.000	20	1,173.00	1407	<Collection: 0 items>	0	1,392.42	95	True	1,387	1,000
1283	H-51	Open	False	0.000	20	1,332.87	1407	<Collection: 0 items>	0	1,405.16	31	True	1,415	1,000
1718	H-150	Open	False	0.000	20	1,698.18	1924	<Collection: 0 items>	0	1,909.57	91	True	1,418	1,000
1287	H-55	Open	False	0.000	20	1,261.84	1407	<Collection: 0 items>	0	1,396.56	58	True	1,418	1,000
49	H-8	Open	False	0.000	20	1,202.06	1407	<Collection: 0 items>	0	1,393.69	83	True	1,419	1,000
1286	H-54	Open	False	0.000	20	1,274.19	1407	<Collection: 0 items>	0	1,398.97	54	True	1,419	1,000
1285	H-53	Open	False	0.000	20	1,274.56	1407	<Collection: 0 items>	0	1,399.95	54	True	1,438	1,000
1284	H-52	Open	False	0.000	20	1,299.41	1407	<Collection: 0 items>	0	1,402.36	45	True	1,453	1,000
1314	H-82	Open	False	0.000	20	1,206.58	1454	<Collection: 0 items>	0	1,451.30	106	True	1,497	1,000
1312	H-80	Open	False	0.000	20	1,147.31	1454	<Collection: 0 items>	0	1,451.47	132	True	1,497	1,000
1315	H-83	Open	False	0.000	20	1,168.35	1454	<Collection: 0 items>	0	1,451.37	122	True	1,497	1,000
1336	H-104	Open	False	0.000	20	1,493.49	1722	<Collection: 0 items>	0	1,721.66	99	True	1,603	1,000
1329	H-97	Open	False	0.000	20	1,322.00	1470	<Collection: 0 items>	0	1,469.52	64	True	1,604	1,000
1322	H-90	Open	False	0.000	20	1,227.53	1470	<Collection: 0 items>	0	1,468.70	104	True	1,611	1,000
1320	H-88	Open	False	0.000	20	1,209.27	1470	<Collection: 0 items>	0	1,468.67	112	True	1,630	1,000
1278	H-46	Open	False	0.000	20	1,479.97	1677	<Collection: 0 items>	0	1,662.76	79	True	1,755	1,000
1334	H-102	Open	False	0.000	20	1,388.52	1722	<Collection: 0 items>	0	1,713.10	140	True	1,763	1,000
1261	H-29	Open	False	0.000	20	1,563.14	1924	<Collection: 0 items>	0	1,909.56	150	True	1,784	1,000
1324	H-92	Open	False	0.000	20	1,145.62	1470	<Collection: 0 items>	0	1,468.84	140	True	1,804	1,000
1311	H-79	Open	False	0.000	20	1,153.44	1454	<Collection: 0 items>	0	1,452.13	129	True	1,866	1,000
44	H-3	Open	False	0.000	20	1,638.70	1924	<Collection: 0 items>	0	1,909.58	117	True	1,879	1,000
1271	H-39	Open	False	0.000	20	1,544.28	1677	<Collection: 0 items>	0	1,674.89	57	True	1,909	1,000
1277	H-45	Open	False	0.000	20	1,447.01	1677	<Collection: 0 items>	0	1,664.36	94	True	1,928	1,000
1321	H-89	Open	False	0.000	20	1,179.25	1470	<Collection: 0 items>	0	1,468.70	125	True	1,931	1,000
77	H-27	Open	False	0.000	20	1,228.30	1470	<Collection: 0 items>	0	1,468.73	104	True	1,978	1,000
1262	H-30	Open	False	0.000	20	1,615.23	1924	<Collection: 0 items>	0	1,909.61	127	True	2,022	1,000
1337	H-105	Open	False	0.000	20	1,508.05	1722	<Collection: 0 items>	0	1,721.69	92	True	2,070	1,000
1276	H-44	Open	False	0.000	20	1,440.27	1677	<Collection: 0 items>	0	1,665.69	98	True	2,100	1,000
1268	H-36	Open	False	0.000	20	1,650.79	1924	<Collection: 0 items>	0	1,909.78	112	True	2,125	1,000
1349	H-117	Open	False	0.000	20	1,544.32	1712 W	<Collection: 0 items>	0	1,708.08	71	True	2,134	1,000
1328	H-96	Open	False	0.000	20	1,308.29	1470	<Collection: 0 items>	0	1,469.54	70	True	2,170	1,000
1263	H-31	Open	False	0.000	20	1,574.44	1924	<Collection: 0 items>	0	1,909.63	145	True	2,196	1,000
1330	H-98	Open	False	0.000	20	1,377.73	1722	<Collection: 0 items>	0	1,713.14	145	True	2,201	1,000
1310	H-78	Open	False	0.000	20	1,208.48	1454	<Collection: 0 items>	0	1,452.60	106	True	2,210	1,000
1332	H-100	Open	False	0.000	20	1,326.41	1470	<Collection: 0 items>	0	1,470.02	62	True	2,256	1,000
1323	H-91	Open	False	0.000	20	1,190.92	1470	<Collection: 0 items>	0	1,468.76	120	True	2,262	1,000
1325	H-93	Open	False	0.000	20	1,130.69	1470	<Collection: 0 items>	0	1,468.89	146	True	2,295	1,000
1341	H-109	Open	False	0.000	20	1,524.59	1722	<Collection: 0 items>	0	1,718.51	84	True	2,334	1,000
1716	H-149	Open	False	0.000	20	1,396.16	1722	<Collection: 0 items>	0	1,714.46	138	True	2,369	1,000
1309	H-77	Open	False	0.000	20	1,281.14	1454	<Collection: 0 items>	0	1,453.27	74	True	2,373	1,000
1345	H-113	Open	False	0.000	20	1,673.20	1924	<Collection: 0 items>	0	1,911.61	103	True	2,399	1,000
1308	H-76	Open	False	0.000	20	1,192.64	1454	<Collection: 0 items>	0	1,453.26	113	True	2,419	1,000
1275	H-43	Open	False	0.000	20	1,430.19	1677	<Collection: 0 items>	0	1,667.69	103	True	2,428	1,000
1267	H-35	Open	False	0.000	20	1,654.33	1924	<Collection: 0 items>	0	1,909.79	111	True	2,453	1,000
54	H-13	Open	False	0.000	20	1,257.19	1470	<Collection: 0 items>	0	1,469.32	92	True	2,455	1,000
1326	H-94	Open	False	0.000	20	1,129.78	1470	<Collection: 0 items>	0	1,468.92	147	True	2,462	1,000

FlexTable: Hydrant Table

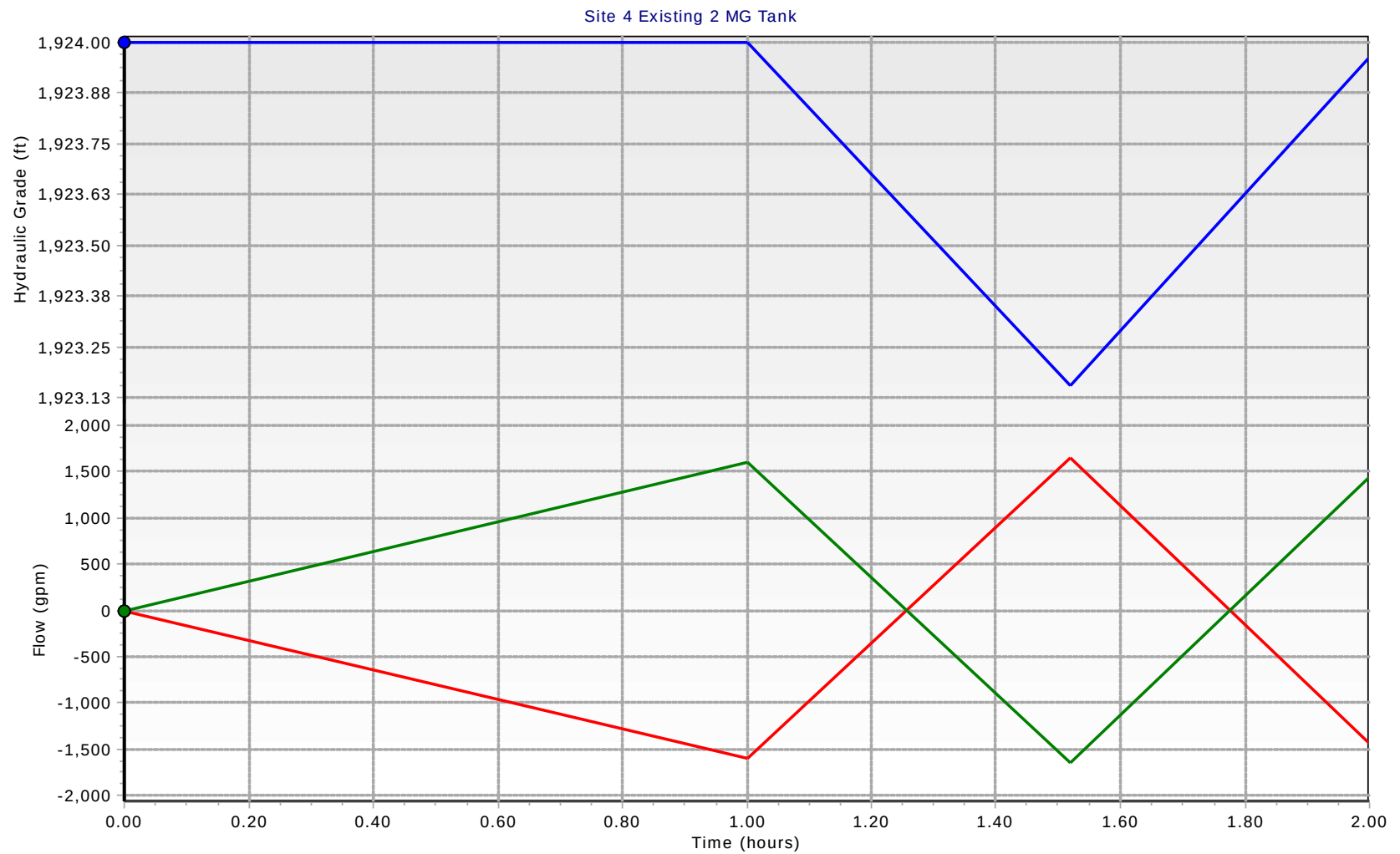
ID	Label	Hydrant Status	Include Hydrant Lateral Loss?	Emitter Coefficient (gpm/psi^n)	Length (Hydrant Lateral) (ft)	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Satisfies Fire Flow Constraints?	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)
1327	H-95	Open	False	0.000	20	1,172.07	1470	<Collection: 0 items>	0	1,469.07	128	True	2,462	1,000
43	H-2	Open	False	0.000	20	1,557.21	1924	<Collection: 0 items>	0	1,909.70	153	True	2,520	1,000
1331	H-99	Open	False	0.000	20	1,353.73	1470	<Collection: 0 items>	0	1,470.04	50	True	2,546	1,000
1333	H-101	Open	False	0.000	20	1,208.54	1470	<Collection: 0 items>	0	1,470.01	113	True	2,573	1,000
1339	H-107	Open	False	0.000	20	1,570.38	1722	<Collection: 0 items>	0	1,721.83	66	True	2,763	1,000
1265	H-33	Open	False	0.000	20	1,590.74	1924	<Collection: 0 items>	0	1,909.75	138	True	2,767	1,000
42	H-1	Open	False	0.000	20	1,649.90	1924	<Collection: 0 items>	0	1,909.80	112	True	2,821	1,000
1274	H-42	Open	False	0.000	20	1,456.43	1677	<Collection: 0 items>	0	1,669.47	92	True	2,827	1,000
1342	H-110	Open	False	0.000	20	1,674.11	1924	<Collection: 0 items>	0	1,912.02	103	True	2,922	1,000
1266	H-34	Open	False	0.000	20	1,641.98	1924	<Collection: 0 items>	0	1,909.83	116	True	2,925	1,000
1338	H-106	Open	False	0.000	20	1,518.04	1722	<Collection: 0 items>	0	1,721.79	88	True	2,954	1,000
1344	H-112	Open	False	0.000	20	1,654.95	1924	<Collection: 0 items>	0	1,911.61	111	True	3,046	1,000
1272	H-40	Open	False	0.000	20	1,511.63	1677	<Collection: 0 items>	0	1,673.26	70	True	3,098	1,000
1335	H-103	Open	False	0.000	20	1,461.38	1722	<Collection: 0 items>	0	1,716.53	110	True	3,153	1,000
1269	H-37	Open	False	0.000	20	1,610.55	1924	<Collection: 0 items>	0	1,910.06	130	True	3,218	1,000
1273	H-41	Open	False	0.000	20	1,507.89	1677	<Collection: 0 items>	0	1,670.97	71	True	3,220	1,000
1351	H-119	Open	False	0.000	20	1,499.93	1712 W	<Collection: 0 items>	0	1,710.11	91	True	3,269	1,000
1270	H-38	Open	False	0.000	20	1,515.60	1677	<Collection: 0 items>	0	1,674.76	69	True	3,500	1,000
1340	H-108	Open	False	0.000	20	1,603.64	1722	<Collection: 0 items>	0	1,721.81	51	True	3,500	1,000
1343	H-111	Open	False	0.000	20	1,676.18	1924	<Collection: 0 items>	0	1,911.80	102	True	3,500	1,000
1346	H-114	Open	False	0.000	20	1,642.55	1924	<Collection: 0 items>	0	1,911.41	116	True	3,500	1,000
1347	H-115	Open	False	0.000	20	1,609.54	1924	<Collection: 0 items>	0	1,911.22	131	True	3,500	1,000
1348	H-116	Open	False	0.000	20	1,504.01	1712 W	<Collection: 0 items>	0	1,708.70	89	True	3,500	1,000
1350	H-118	Open	False	0.000	20	1,500.87	1712 W	<Collection: 0 items>	0	1,710.36	91	True	3,500	1,000
1352	H-120	Open	False	0.000	20	1,564.95	1712 W	<Collection: 0 items>	0	1,712.23	64	True	3,500	1,000
1353	H-121	Open	False	0.000	20	1,706.00	1924	<Collection: 0 items>	0	1,915.46	91	True	3,500	1,000
1404	H-145	Open	False	0.000	20	1,549.51	1677	<Collection: 0 items>	0	1,676.95	55	True	3,500	1,000
1684	H-148	Open	False	0.000	20	1,685.05	1924	<Collection: 0 items>	0	1,924.91	104	True	3,500	1,000
1735	H-151	Open	False	0.000	20	1,489.00	1677	<Collection: 0 items>	0	1,673.42	80	True	3,500	1,000

Scenario: Site 4 - MDD Demand Over 2 Hours

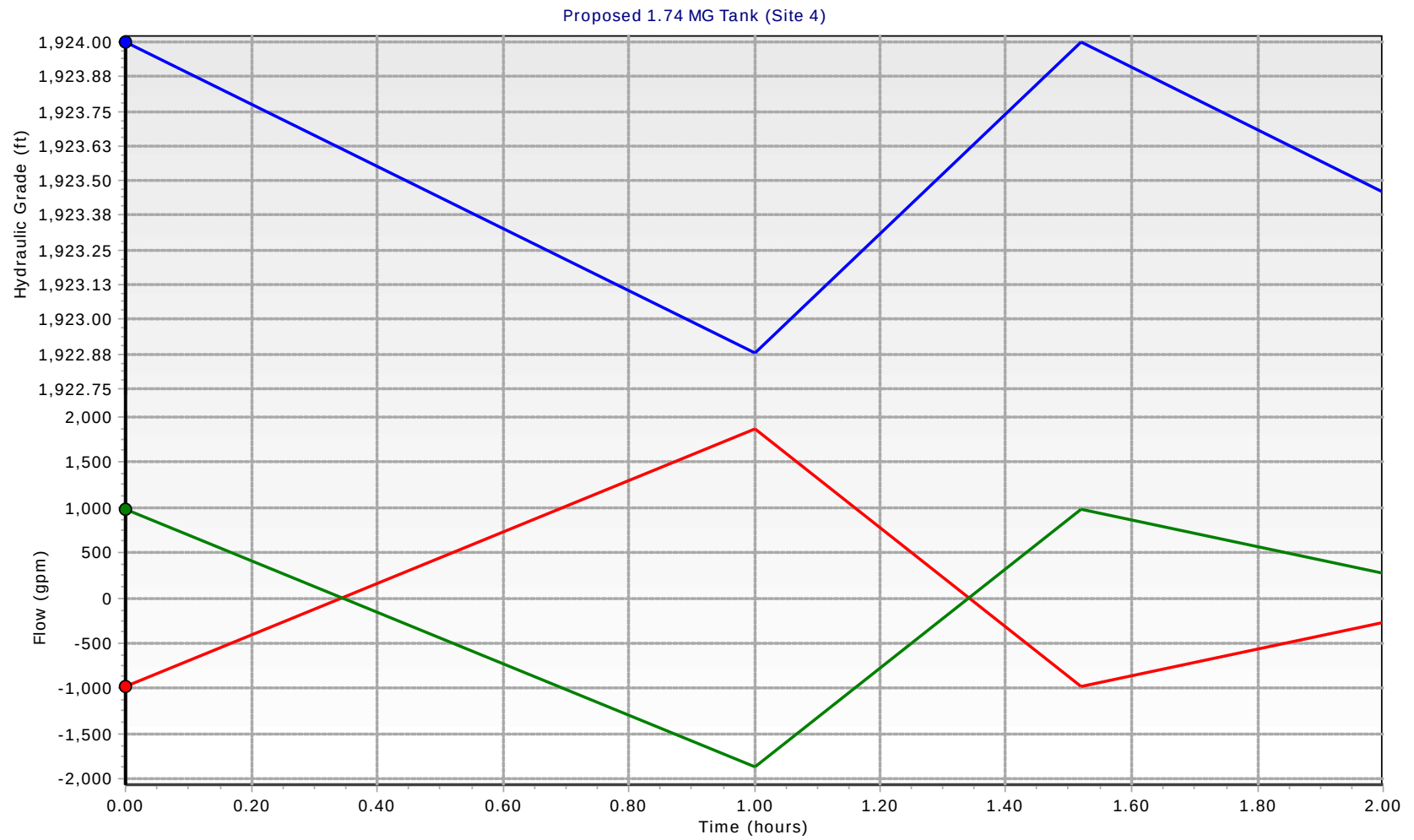




T-1 - Site 4 - MDD Demand Over 2 Hours - Hydraulic Grade	T-1 - Site 4 - MDD Demand Over 2 Hours - Flow (In net)
T-1 - Site 4 - MDD Demand Over 2 Hours - Flow (Out net)	

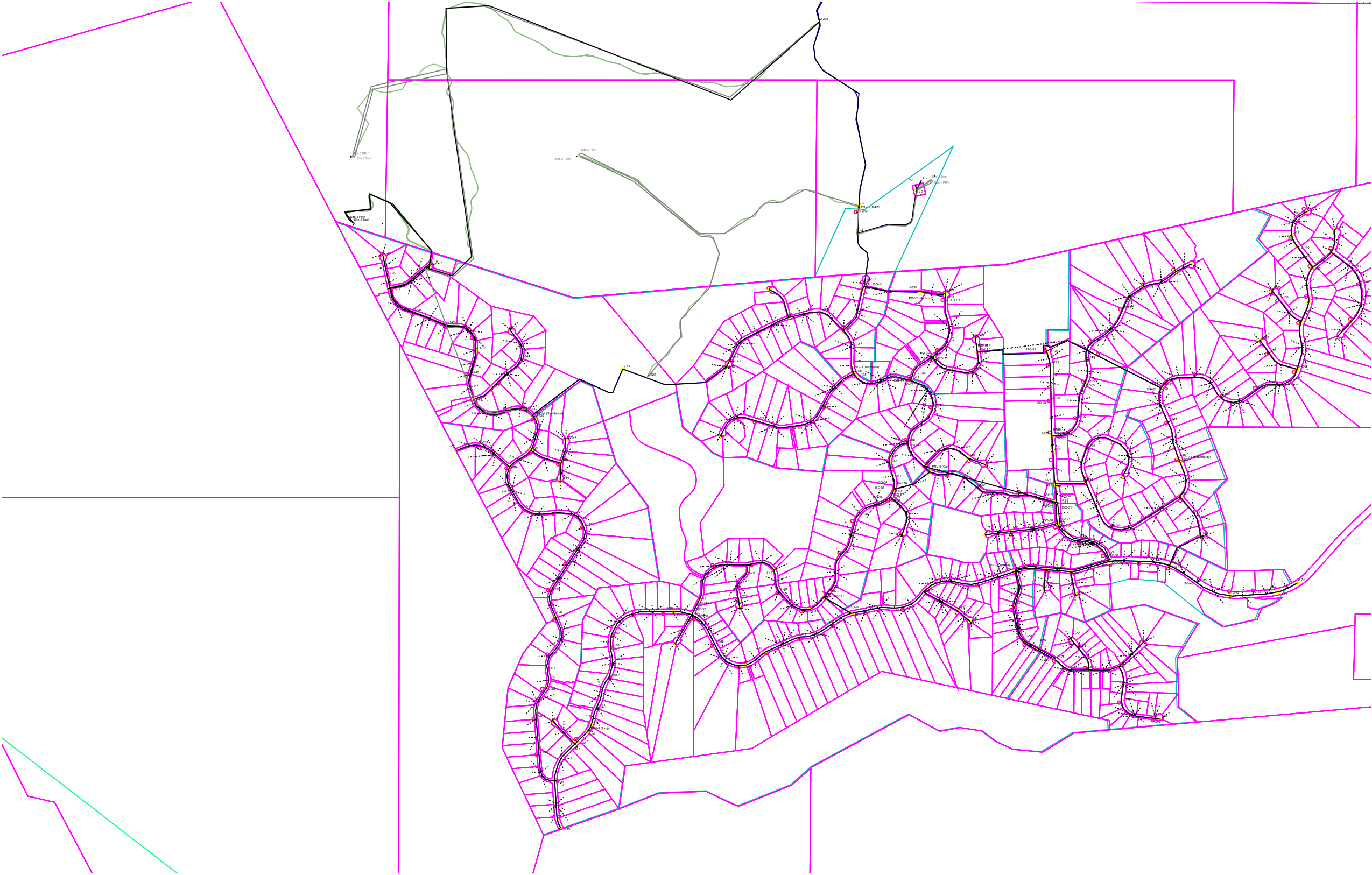


T-2 - Site 4 - MDD Demand Over 2 Hours - Hydraulic Grade	T-2 - Site 4 - MDD Demand Over 2 Hours - Flow (In net)
T-2 - Site 4 - MDD Demand Over 2 Hours - Flow (Out net)	



Site 4 Tank - Site 4 - MDD Demand Over 2 Hours - Hydraulic Grade
Site 4 Tank - Site 4 - MDD Demand Over 2 Hours - Flow (In net)
Site 4 Tank - Site 4 - MDD Demand Over 2 Hours - Flow (Out net)

Scenario: Site 4 - New Tank at NW (Closer) - Source + Gravity Pipe



FlexTable: Pipe Table														
ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1751	Site 1 Pipe	Site 1 Tank	J-3	False	12.0	Ductile Iron	130.0	False	(N/A)	(N/A)	1924	221	(N/A)	(N/A)
1769	Site 2 Feed Pipe	Site 2 PRV	Site 2 Tank	False	12.0	Ductile Iron	130.0	True	(N/A)	(N/A)	1924	40	(N/A)	(N/A)
1770	Site 3 Source Pipe	J-225	Site 3 PRV	False	12.0	Ductile Iron	130.0	False	(N/A)	(N/A)	1924 Main	7,945	(N/A)	(N/A)
1771	Site 3 Inlet Pipe	Site 3 PRV	Site 3 Tank	False	12.0	Ductile Iron	130.0	True	(N/A)	(N/A)	1924	29	(N/A)	(N/A)
1772	Site 3 Distribution Pipe	Site 3 Tank	J-12	False	12.0	Ductile Iron	130.0	False	(N/A)	(N/A)	1924	7,544	(N/A)	(N/A)
1774	Site 2 Source Pipe	J-2	Site 2 PRV	False	12.0	Ductile Iron	130.0	False	(N/A)	(N/A)	1924 Main	4,056	(N/A)	(N/A)
1776	Site 2 Distribution Pipe	Site 2 Tank	J-222	False	12.0	Ductile Iron	130.0	False	(N/A)	(N/A)	1924	4,134	(N/A)	(N/A)
1798	Site 1 Source Pipe	J-2	Site 1 PRV	False	12.0	Steel	140.0	False	(N/A)	(N/A)	1924 Main	1,717	(N/A)	(N/A)
1799	Site 1 Inlet Pipe	Site 1 PRV	Site 1 Tank	False	12.0	Steel	140.0	True	(N/A)	(N/A)	1924	35	(N/A)	(N/A)
1829	P-87(1)(2)	J-227	J-175	False	8.0	Asbestos Cement	140.0	False	(N/A)	(N/A)	1550	40	(N/A)	(N/A)
438	P-187	R-2	J-139	True	12.0	Steel	140.0	False	1,583	4.49	1924 Main	237	0	97
227	P-9	T-2	J-3	True	12.0	Asbestos Cement	140.0	False	0	0.00	1924	130	14	15
1796	Site 4 Distribution Pipe	Site 4 Tank	J-12	True	12.0	Steel	140.0	False	972	2.76	1924	5,564	15	154
226	P-8	J-3	T-1	True	12.0	Asbestos Cement	140.0	False	0	0.00	1924	61	15	14
269	P-51	PRV-8 (Zanja)	J-37	True	8.0	Asbestos Cement	140.0	False	646	4.12	1407	38	25	25
1463	P-52(1)	J-37	J-164	True	8.0	Asbestos Cement	140.0	False	639	4.08	1407	232	25	31
1467	P-52(2)(1)	J-164	J-165	True	8.0	Asbestos Cement	140.0	False	626	4.00	1407	418	31	42
1465	P-211	H-51	J-164	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	29	31	31
396	P-177	J-86	J-87	True	6.0	Asbestos Cement	140.0	False	0	0.00	1722	70	38	35
397	P-178	J-86	H-17	True	4.0	Ductile Iron	140.0	False	0	0.00	1470	33	38	38
372	P-153	J-123	J-124	True	4.0	Asbestos Cement	140.0	False	0	0.00	1454	64	41	41
1590	P-255	H-137	J-101	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	21	42	44
1471	P-52(2)(2)(1)	J-165	J-166	True	8.0	Asbestos Cement	140.0	False	606	3.87	1407	381	42	53
262	P-44	J-35	H-7	True	4.0	Ductile Iron	140.0	False	0	0.00	1677	29	44	46
325	P-107	J-84	J-80	True	8.0	Asbestos Cement	140.0	False	203	1.30	1470	516	44	59
1638	P-108(1)(1)(1)	J-84	J-202	True	8.0	Asbestos Cement	140.0	False	47	0.30	1470	222	44	57
346	P-128	J-101	J-102	True	4.0	Asbestos Cement	140.0	False	10	0.26	1712 E	196	44	31
1469	P-212	H-52	J-165	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	25	45	42
403	P-184	PRV-5 (Colt)	J-84	True	8.0	Asbestos Cement	140.0	False	253	1.62	1470	19	45	44
340	P-122	J-97	J-95	True	8.0	Asbestos Cement	140.0	False	290	1.85	1454	460	45	72
341	P-123	PRV-6 (Dapplegray)	J-97	True	8.0	Asbestos Cement	140.0	False	300	1.91	1454	37	45	45
370	P-151	J-122	J-123	True	4.0	Asbestos Cement	140.0	False	0	0.00	1454	169	47	41
1666	P-285	J-122	H-147	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	31	47	48
1795	Site 4 Inlet Pipe	Site 4 PRV	Site 4 Tank	True	12.0	Steel	140.0	True	0	0.00	1924	64	47	15
359	P-140	J-112	H-23	True	4.0	Ductile Iron	140.0	False	0	0.00	1712 E	32	49	46
360	P-141	J-112	J-113	True	8.0	Asbestos Cement	140.0	False	7	0.04	1712 E	39	49	51
384	P-165	J-134	J-135	True	8.0	Asbestos Cement	140.0	False	506	3.23	1722	23	50	51
1711	P-163(1)	J-134	J-217	True	8.0	Asbestos Cement	140.0	False	80	0.51	1722	591	50	70
1640	P-273	H-99	J-202	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	14	50	57
385	P-166	J-135	J-1	True	8.0	Asbestos Cement	140.0	False	493	3.15	1722	769	51	85
381	P-162	PRV-3 (Ranchero)	J-134	True	8.0	Asbestos Cement	140.0	False	593	3.78	1722	28	51	50
1714	P-302	H-108	J-135	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	11	51	51
1475	P-52(2)(2)(2)(1)	J-166	J-167	True	8.0	Asbestos Cement	140.0	False	599	3.83	1407	160	53	57
1477	P-214	H-54	J-167	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	30	54	57
1454	P-42(1)	J-30	J-162	True	8.0	Asbestos Cement	140.0	False	736	4.70	1677	451	54	61
1473	P-213	H-53	J-166	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	32	54	53
1408	P-196	H-145	J-150	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	21	55	57
357	P-138	J-111	H-24	True	4.0	Ductile Iron	140.0	False	0	0.00	1712 E	30	55	56
358	P-139	J-111	J-112	True	8.0	Asbestos Cement	140.0	False	13	0.09	1712 E	362	55	49
1456	P-208	H-48	J-162	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	23	56	61
250	P-32	J-13	J-24	True	10.0	Asbestos Cement	140.0	False	939	3.84	1677	410	56	69
1416	P-198	H-39	J-152	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	15	57	57
252	P-34	J-23	J-22	True	4.0	Asbestos Cement	140.0	False	13	0.34	1677	315	57	44
253	P-35	J-23	J-27	True	4.0	Asbestos Cement	140.0	False	7	0.17	1677	230	57	50
1407	P-31(2)	J-150	J-13	True	10.0	Asbestos Cement	140.0	False	946	3.86	1677	12	57	56
1479	P-52(2)(2)(2)(2)(1)	J-167	J-168	True	8.0	Asbestos Cement	140.0	False	586	3.74	1407	407	57	68
1415	P-33(2)	J-152	J-23	True	6.0	Asbestos Cement	140.0	False	30	0.34	1677	27	57	57

FlexTable: Pipe Table														
ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1639	P-108(1)(1)(2)	J-202	J-201	True	8.0	Asbestos Cement	140.0	False	40	0.26	1470	448	57	84
1481	P-215	H-55	J-168	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	19	58	68
1406	P-31(1)	PRV-4 (Saddlebow)	J-150	True	10.0	Asbestos Cement	140.0	False	946	3.86	1677	31	59	57
324	P-106	J-80	J-79	True	8.0	Asbestos Cement	140.0	False	186	1.19	1470	109	59	67
398	P-179	J-80	J-86	True	6.0	Asbestos Cement	140.0	False	10	0.11	1470	348	59	38
377	P-158	J-117	H-22	True	4.0	Ductile Iron	140.0	False	0	0.00	1454	23	60	58
378	P-159	J-117	J-116	True	4.0	Asbestos Cement	140.0	False	10	0.26	1454	219	60	56
258	P-40	J-29	H-5	True	4.0	Ductile Iron	140.0	False	0	0.00	1677	26	60	58
259	P-41	J-29	J-30	True	8.0	Asbestos Cement	140.0	False	743	4.74	1677	89	60	54
1458	P-42(2)(1)	J-162	J-163	True	8.0	Asbestos Cement	140.0	False	723	4.61	1677	447	61	67
303	P-85	J-59	H-15	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	19	61	64
1828	P-87(1)(1)	J-59	J-227	True	8.0	Asbestos Cement	140.0	False	3	0.02	1550	244	61	45
1636	P-272	H-100	J-201	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	38	62	84
1460	P-209	H-49	J-163	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	24	63	67
1679	P-289	H-120	J-210	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	11	64	66
1677	P-169(1)(1)	J-129	J-210	True	10.0	Asbestos Cement	140.0	False	696	2.84	1712 W	86	64	66
1726	P-308	H-97	J-78	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	20	64	64
1713	P-301	H-107	J-217	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	23	66	70
391	P-172	PRV-2 (Marlboro)	J-129	True	10.0	Asbestos Cement	140.0	False	703	2.87	1712 W	48	66	64
1678	P-169(1)(2)	J-210	J-209	True	10.0	Asbestos Cement	140.0	False	683	2.79	1712 W	708	66	88
1452	P-207	H-47	J-161	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	21	67	67
1451	P-39(2)(2)	J-161	J-29	True	8.0	Asbestos Cement	140.0	False	749	4.78	1677	309	67	60
296	P-78	J-79	J-136	True	8.0	Asbestos Cement	140.0	False	157	1.00	1470	445	67	92
297	P-79	J-79	J-136	True	6.0	Asbestos Cement	140.0	False	20	0.23	1470	576	67	64
1459	P-42(2)(2)	J-163	J-34	True	8.0	Asbestos Cement	140.0	False	709	4.53	1677	450	67	74
1480	P-52(2)(2)(2)(2)(2)	J-168	J-38	True	8.0	Asbestos Cement	140.0	False	566	3.61	1407	516	68	82
1410	P-36(1)	J-24	J-151	True	10.0	Asbestos Cement	140.0	False	899	3.67	1677	40	69	69
1414	P-33(1)	J-24	J-152	True	6.0	Asbestos Cement	140.0	False	33	0.38	1677	392	69	57
1411	P-36(2)	J-151	J-25	True	10.0	Asbestos Cement	140.0	False	896	3.66	1677	304	69	70
1412	P-197	H-38	J-151	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	12	69	69
1643	P-276	H-96	J-79	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	49	70	67
1424	P-200	H-40	J-154	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	25	70	70
1461	P-210	H-50	J-34	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	29	70	74
1422	P-38(1)	J-25	J-154	True	10.0	Asbestos Cement	140.0	False	869	3.55	1677	40	70	70
1737	P-37(1)	J-25	J-221	True	8.0	Asbestos Cement	140.0	False	17	0.11	1677	474	70	80
1426	P-38(2)(1)	J-154	J-155	True	10.0	Asbestos Cement	140.0	False	859	3.51	1677	565	70	72
1712	P-163(2)	J-217	J-131	True	8.0	Asbestos Cement	140.0	False	60	0.38	1722	478	70	87
1428	P-201	H-41	J-155	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	14	71	72
1721	P-306	H-117	J-125	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	25	71	70
339	P-121	J-95	J-94	True	8.0	Asbestos Cement	140.0	False	23	0.15	1454	580	72	112
1544	P-120(1)	J-95	J-182	True	8.0	Asbestos Cement	140.0	False	250	1.59	1454	551	72	92
1593	P-258	H-140	J-107	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	34	72	73
1430	P-38(2)(2)(1)	J-155	J-156	True	10.0	Asbestos Cement	140.0	False	843	3.44	1677	384	72	74
393	P-174	J-126	J-125	True	6.0	Asbestos Cement	140.0	False	7	0.08	1712 W	182	73	70
433	P-186	J-126	J-99	True	10.0	Steel	140.0	False	619	2.53	1712 W	2,647	73	120
302	P-84	J-58	J-59	True	8.0	Asbestos Cement	140.0	False	17	0.11	1407	165	74	61
1592	P-257	H-139	J-106	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	11	74	74
1434	P-38(2)(2)(2)(1)	J-156	J-157	True	10.0	Asbestos Cement	140.0	False	829	3.39	1677	468	74	76
351	P-132	J-106	J-107	True	4.0	Asbestos Cement	140.0	False	13	0.34	1712 E	158	74	73
261	P-43	J-34	J-35	True	8.0	Asbestos Cement	140.0	False	13	0.09	1677	609	74	44
263	P-45	J-34	J-33	True	8.0	Asbestos Cement	140.0	False	679	4.34	1677	546	74	108
1542	P-237	H-77	J-95	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	34	74	72
356	P-137	J-110	J-111	True	8.0	Asbestos Cement	140.0	False	30	0.19	1712 E	165	75	55
404	P-185	J-110	H-25	True	4.0	Ductile Iron	140.0	False	0	0.00	1712 E	19	75	74
1602	P-263	H-129	J-118	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	23	75	76
1438	P-38(2)(2)(2)(2)(1)	J-157	J-158	True	10.0	Asbestos Cement	140.0	False	809	3.31	1677	552	76	78
376	P-157	J-118	J-117	True	8.0	Asbestos Cement	140.0	False	20	0.13	1454	450	76	60

FlexTable: Pipe Table														
ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1589	P-254	H-136	J-100	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	51	77	78
345	P-127	J-100	J-101	True	6.0	Asbestos Cement	140.0	False	20	0.23	1712 E	427	78	44
347	P-129	J-100	J-105	True	8.0	Asbestos Cement	140.0	False	163	1.04	1712 E	625	78	87
1442	P-38(2)(2)(2)(2)(1)	J-158	J-159	True	10.0	Asbestos Cement	140.0	False	786	3.21	1677	387	78	80
1669	P-173(2)	J-208	J-126	True	10.0	Asbestos Cement	140.0	False	633	2.58	1712 W	272	79	73
1448	P-206	H-46	J-160	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	18	79	80
1443	P-38(2)(2)(2)(2)(2)	J-159	J-28	True	10.0	Asbestos Cement	140.0	False	776	3.17	1677	314	80	81
1450	P-39(2)(1)	J-160	J-161	True	8.0	Asbestos Cement	140.0	False	759	4.85	1677	528	80	67
1739	P-311	H-151	J-221	True	6.0	Ductile Iron	130.0	False	0	0.00	1677	13	80	80
1738	P-37(2)	J-221	J-26	True	8.0	Asbestos Cement	140.0	False	0	0.00	1677	305	80	87
1628	P-270	H-125	J-199	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	5	81	82
1446	P-39(1)	J-28	J-160	True	8.0	Asbestos Cement	140.0	False	769	4.91	1677	56	81	80
271	P-53	J-38	H-8	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	23	82	83
272	P-54	J-38	J-40	True	8.0	Asbestos Cement	140.0	False	553	3.53	1407	241	82	92
1627	P-150(2)(2)	J-199	J-122	True	8.0	Asbestos Cement	140.0	False	17	0.11	1454	450	82	47
1715	P-303	H-109	J-1	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	42	84	85
1635	P-108(1)(2)	J-201	J-200	True	8.0	Asbestos Cement	140.0	False	23	0.15	1470	544	84	116
386	P-167	J-1	J-128	True	8.0	Asbestos Cement	140.0	False	0	0.00	1712 W	131	85	87
1723	P-175(1)	J-1	J-218	True	8.0	Asbestos Cement	140.0	False	470	3.00	1722	502	85	110
387	P-168	J-128	J-127	True	8.0	Asbestos Cement	140.0	False	0	0.00	1712 W	297	87	91
348	P-130	J-105	J-106	True	6.0	Asbestos Cement	140.0	False	20	0.23	1712 E	391	87	74
352	P-133	J-105	J-108	True	8.0	Asbestos Cement	140.0	False	127	0.81	1712 E	253	87	89
1591	P-256	H-138	J-105	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	38	87	87
1706	P-164(1)	J-131	J-216	True	6.0	Asbestos Cement	140.0	False	43	0.49	1722	495	87	93
1605	P-156(2)	J-193	J-118	True	8.0	Asbestos Cement	140.0	False	37	0.23	1454	424	88	76
1588	P-253	H-135	J-191	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	17	88	90
1674	P-169(2)	J-209	J-127	True	10.0	Asbestos Cement	140.0	False	669	2.73	1712 W	98	88	91
1709	P-300	H-106	J-131	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	17	88	87
1503	P-222	H-61	J-53	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	24	88	89
1606	P-264	H-128	J-193	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	5	88	88
1670	P-286	H-116	J-208	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	17	89	79
293	P-75	J-53	J-54	True	4.0	Asbestos Cement	140.0	False	17	0.43	1407	224	89	76
353	P-134	J-108	H-26	True	4.0	Ductile Iron	140.0	False	0	0.00	1712 E	21	89	88
354	P-135	J-108	J-109	True	8.0	Asbestos Cement	140.0	False	117	0.74	1712 E	463	89	94
1587	P-126(2)(2)(2)(2)	J-191	J-100	True	10.0	Asbestos Cement	140.0	False	210	0.86	1712 E	631	90	78
1675	P-288	H-118	J-209	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	19	91	88
323	P-105	J-81	J-82	True	8.0	Asbestos Cement	140.0	False	0	0.00	1347	39	91	144
229	P-11	J-5	J-6	True	10.0	Asbestos Cement	140.0	False	846	3.46	1924	49	91	91
389	P-170	J-5	J-130	True	10.0	Asbestos Cement	140.0	False	709	2.90	1924	718	91	131
1671	P-287	H-119	J-127	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 W	31	91	91
1683	P-290	H-121	J-211	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	16	91	91
230	P-12	J-6	J-7	True	10.0	Asbestos Cement	140.0	False	839	3.43	1924	591	91	105
1668	P-173(1)	J-127	J-208	True	10.0	Asbestos Cement	140.0	False	653	2.67	1712 W	575	91	79
1682	P-10(2)	J-211	J-5	True	10.0	Asbestos Cement	140.0	False	1,559	6.37	1924	41	91	91
364	P-145	J-104	J-103	True	4.0	Asbestos Cement	140.0	False	10	0.26	1712 E	259	92	88
221	P-3	J-137	J-138	True	10.0	Asbestos Cement	140.0	False	21	0.09	1924 Main	1,518	92	136
1746	P-4(1)	J-137	J-225	True	12.0	Asbestos Cement	140.0	False	1,562	4.43	1924 Main	8,308	92	145
295	P-77	J-136	H-13	True	4.0	Ductile Iron	140.0	False	0	0.00	1470	30	92	92
1645	P-76(1)	J-136	J-203	True	8.0	Asbestos Cement	140.0	False	140	0.89	1470	591	92	118
1594	P-259	H-144	J-104	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	26	92	92
1432	P-202	H-42	J-156	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	14	92	74
1548	P-120(2)(1)	J-182	J-183	True	8.0	Asbestos Cement	140.0	False	233	1.49	1454	439	92	109
1719	P-305	H-150	J-21	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	26	92	93
273	P-55	J-40	J-39	True	4.0	Asbestos Cement	140.0	False	13	0.34	1407	420	92	67
274	P-56	J-40	H-9	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	42	92	95
275	P-57	J-40	J-41	True	4.0	Asbestos Cement	140.0	False	0	0.00	1407	197	92	127
1483	P-62(1)	J-40	J-169	True	8.0	Asbestos Cement	140.0	False	526	3.36	1407	486	92	98
1708	P-299	H-105	J-216	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	7	92	93
1707	P-164(2)	J-216	J-132	True	6.0	Asbestos Cement	140.0	False	20	0.23	1722	559	93	99

FlexTable: Pipe Table														
ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
1596	P-260	H-146	J-109	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	15	94	94
355	P-136	J-109	J-110	True	8.0	Asbestos Cement	140.0	False	37	0.23	1712 E	320	94	75
361	P-142	J-109	J-115	True	8.0	Asbestos Cement	140.0	False	73	0.47	1712 E	304	94	112
1444	P-205	H-45	J-159	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	28	94	80
225	P-7	J-4	J-3	True	16.0	Asbestos Cement	140.0	False	0	0.00	1924	1,118	96	15
1681	P-10(1)	J-4	J-211	True	10.0	Asbestos Cement	140.0	False	1,562	6.38	1924	683	96	91
1687	P-6(2)	J-212	J-4	True	16.0	Asbestos Cement	140.0	False	1,562	2.49	1924	267	96	96
1686	P-6(1)	PRV-1 (Main)	J-212	True	16.0	Asbestos Cement	140.0	False	1,562	2.49	1924	40	96	96
220	P-2	J-139	J-137	True	10.0	Asbestos Cement	140.0	False	1,583	6.47	1924 Main	2,889	97	92
322	P-104	J-75	J-81	True	8.0	Asbestos Cement	140.0	False	3	0.02	1347	233	97	91
1552	P-102(1)	J-75	J-184	True	6.0	Asbestos Cement	140.0	False	53	0.60	1347	30	97	97
1553	P-102(2)	J-184	J-76	True	6.0	Asbestos Cement	140.0	False	40	0.45	1347	562	97	100
1554	P-240	H-85	J-184	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	25	97	97
1440	P-204	H-44	J-158	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	22	98	78
1487	P-62(2)(1)	J-169	J-170	True	8.0	Asbestos Cement	140.0	False	506	3.23	1407	427	98	103
1704	P-298	H-104	J-132	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	10	99	99
1556	P-242	H-81	J-96	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	12	99	99
1584	P-252	H-134	J-190	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	36	100	101
321	P-103	J-76	J-77	True	4.0	Asbestos Cement	140.0	False	10	0.26	1347	335	100	101
300	P-82	J-57	H-14	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	30	100	102
301	P-83	J-57	J-58	True	8.0	Asbestos Cement	140.0	False	33	0.21	1407	495	100	74
1586	P-126(2)(2)(2)(1)	J-190	J-191	True	10.0	Asbestos Cement	140.0	False	230	0.94	1712 E	515	101	90
1600	P-144(2)	J-192	J-104	True	6.0	Asbestos Cement	140.0	False	27	0.30	1712 E	527	101	92
1485	P-216	H-56	J-169	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	27	102	98
1567	P-247	H-87	J-76	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	22	102	100
1693	P-293	H-111	J-213	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	5	103	109
1436	P-203	H-43	J-157	True	4.0	Ductile Iron	130.0	False	0	0.00	1677	13	103	76
1488	P-62(2)(2)	J-170	J-42	True	8.0	Asbestos Cement	140.0	False	493	3.15	1407	99	103	104
1489	P-217	H-57	J-170	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	26	103	103
1501	P-220	H-60	J-173	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	27	103	106
1689	P-292	H-110	J-7	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	47	103	105
282	P-64	J-43	H-10	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	19	104	103
1491	P-65(1)	J-43	J-171	True	8.0	Asbestos Cement	140.0	False	473	3.02	1407	479	104	104
1615	P-156(1)(2)(2)	J-196	J-193	True	8.0	Asbestos Cement	140.0	False	57	0.36	1454	583	104	88
1695	P-295	H-113	J-9	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	16	104	105
1688	P-291	H-148	J-212	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	30	104	96
1493	P-218	H-58	J-171	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	27	104	104
1601	P-262	H-143	J-192	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	9	104	101
281	P-63	J-42	J-43	True	8.0	Asbestos Cement	140.0	False	490	3.12	1407	286	104	104
285	P-67	J-47	J-46	True	8.0	Asbestos Cement	140.0	False	53	0.34	1470	384	104	107
286	P-68	J-47	H-27	True	4.0	Ductile Iron	140.0	False	0	0.00	1470	20	104	104
1495	P-65(2)(1)	J-171	J-172	True	8.0	Asbestos Cement	140.0	False	450	2.87	1407	443	104	105
1664	P-284	H-90	J-46	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	62	104	107
1497	P-219	H-59	J-172	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	31	105	105
1496	P-65(2)(2)	J-172	J-50	True	8.0	Asbestos Cement	140.0	False	433	2.76	1407	293	105	106
379	P-160	J-7	J-133	True	8.0	Asbestos Cement	140.0	False	603	3.85	1924	473	105	127
1691	P-13(1)	J-7	J-213	True	10.0	Asbestos Cement	140.0	False	217	0.88	1924	399	105	109
284	P-66	J-50	J-49	True	8.0	Asbestos Cement	140.0	False	0	0.00	1470	402	106	145
1499	P-71(1)	J-50	J-173	True	8.0	Asbestos Cement	140.0	False	430	2.74	1407	173	106	106
1546	P-238	H-78	J-182	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	11	106	92
1500	P-71(2)	J-173	J-51	True	8.0	Asbestos Cement	140.0	False	420	2.68	1407	384	106	106
1661	P-61(1)	J-45	J-207	True	6.0	Asbestos Cement	140.0	False	23	0.26	1470	401	106	112
1560	P-243	H-82	J-185	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	6	106	112
290	P-72	J-51	H-12	True	4.0	Ductile Iron	140.0	False	0	0.00	1407	26	106	108
291	P-73	J-51	J-52	True	8.0	Asbestos Cement	140.0	False	403	2.57	1407	437	106	112
1733	P-101(2)(2)	J-220	J-75	True	8.0	Asbestos Cement	140.0	False	57	0.36	1347	379	106	97
314	P-96	J-56	J-67	True	8.0	Asbestos Cement	140.0	False	220	1.40	1347	256	107	110
277	P-59	J-46	J-45	True	6.0	Asbestos Cement	140.0	False	30	0.34	1470	81	107	106
1728	P-58(1)	J-46	J-219	True	8.0	Asbestos Cement	140.0	False	10	0.06	1470	425	107	116

FlexTable: Pipe Table

ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
264	P-46	J-33	J-31	True	4.0	Asbestos Cement	140.0	False	13	0.34	1677	408	108	88
265	P-47	J-33	J-32	True	8.0	Asbestos Cement	140.0	False	653	4.17	1677	39	108	110
1692	P-13(2)	J-213	J-8	True	10.0	Asbestos Cement	140.0	False	203	0.83	1924	395	109	112
1549	P-120(2)(2)	J-183	J-93	True	8.0	Asbestos Cement	140.0	False	223	1.42	1454	671	109	134
1616	P-267	H-127	J-196	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	15	109	104
313	P-95	PRV-7 (Bridle)	J-56	True	8.0	Asbestos Cement	140.0	False	226	1.45	1347	76	109	107
1724	P-175(2)	J-218	J-88	True	8.0	Asbestos Cement	140.0	False	453	2.89	1722	566	110	138
1582	P-126(2)(2)(1)	J-189	J-190	True	10.0	Asbestos Cement	140.0	False	250	1.02	1712 E	447	110	101
1614	P-156(1)(2)(1)	J-195	J-196	True	8.0	Asbestos Cement	140.0	False	80	0.51	1454	237	110	104
266	P-48	J-32	H-6	True	4.0	Ductile Iron	140.0	False	0	0.00	1677	33	110	110
267	P-49	J-32	J-36	True	8.0	Asbestos Cement	140.0	False	653	4.17	1677	187	110	122
315	P-97	J-67	J-66	True	4.0	Asbestos Cement	140.0	False	10	0.26	1347	255	110	107
316	P-98	J-67	J-68	True	8.0	Asbestos Cement	140.0	False	193	1.23	1347	320	110	115
1523	P-230	H-70	J-67	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	49	110	110
1725	P-307	H-103	J-218	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	7	110	110
1734	P-310	H-86	J-220	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	22	111	106
1398	P-193	H-35	J-148	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	15	111	113
247	P-29	J-20	J-21	True	6.0	Asbestos Cement	140.0	False	10	0.11	1924	265	112	93
1694	P-294	H-112	J-8	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	44	112	112
362	P-143	J-115	J-114	True	4.0	Asbestos Cement	140.0	False	10	0.26	1712 E	291	112	116
1599	P-144(1)	J-115	J-192	True	6.0	Asbestos Cement	140.0	False	47	0.53	1712 E	558	112	101
292	P-74	J-52	J-53	True	6.0	Asbestos Cement	140.0	False	40	0.45	1407	492	112	89
1505	P-80(1)	J-52	J-174	True	8.0	Asbestos Cement	140.0	False	336	2.15	1407	724	112	116
232	P-14	J-8	J-9	True	6.0	Asbestos Cement	140.0	False	0	0.00	1924	451	112	105
1697	P-15(1)	J-8	J-214	True	10.0	Asbestos Cement	140.0	False	187	0.76	1924	450	112	123
1502	P-221	H-62	J-52	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	72	112	112
1663	P-283	H-88	J-207	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	12	112	112
1662	P-61(2)	J-207	J-44	True	6.0	Asbestos Cement	140.0	False	10	0.11	1470	108	112	114
1559	P-146(2)	J-185	J-96	True	6.0	Asbestos Cement	140.0	False	17	0.19	1454	547	112	99
1597	P-261	H-142	J-115	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	43	113	112
1397	P-20(2)	J-148	J-16	True	8.0	Asbestos Cement	140.0	False	13	0.09	1924	416	113	110
1541	P-236	H-76	J-94	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	16	113	112
1399	P-194	H-36	J-16	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	29	113	110
1632	P-271	H-101	J-200	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	29	113	116
1580	P-251	H-133	J-189	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	32	114	110
1612	P-266	H-126	J-195	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	36	114	110
1626	P-150(2)(1)	J-198	J-199	True	8.0	Asbestos Cement	140.0	False	27	0.17	1454	398	114	82
1524	P-231	H-71	J-68	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	54	114	115
1536	P-234	H-74	J-180	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	55	114	121
317	P-99	J-68	J-69	True	4.0	Asbestos Cement	140.0	False	20	0.51	1347	298	115	104
318	P-100	J-68	J-70	True	8.0	Asbestos Cement	140.0	False	163	1.04	1347	505	115	119
1624	P-269	H-124	J-198	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	5	115	114
1506	P-80(2)	J-174	J-55	True	8.0	Asbestos Cement	140.0	False	310	1.98	1407	505	116	118
239	P-21	J-15	H-1	True	4.0	Ductile Iron	140.0	False	0	0.00	1924	15	116	113
1396	P-20(1)	J-15	J-148	True	8.0	Asbestos Cement	140.0	False	33	0.21	1924	525	116	113
1729	P-58(2)	J-219	J-41	True	8.0	Asbestos Cement	140.0	False	0	0.00	1470	484	116	127
1631	P-108(2)	J-200	J-82	True	8.0	Asbestos Cement	140.0	False	7	0.04	1470	466	116	144
1732	P-101(2)(1)	J-178	J-220	True	8.0	Asbestos Cement	140.0	False	70	0.45	1347	400	117	106
1394	P-192	H-34	J-147	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	21	117	122
1699	P-296	H-114	J-214	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	13	117	123
1507	P-223	H-63	J-174	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	27	118	116
1528	P-232	H-72	J-178	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	15	118	117
1618	P-154(1)	J-120	J-197	True	8.0	Asbestos Cement	140.0	False	110	0.70	1454	423	118	118
1622	P-150(1)	J-120	J-198	True	8.0	Asbestos Cement	140.0	False	27	0.17	1454	47	118	114
1578	P-126(2)(1)	J-188	J-189	True	10.0	Asbestos Cement	140.0	False	266	1.09	1712 E	390	118	110
1619	P-154(2)	J-197	J-119	True	8.0	Asbestos Cement	140.0	False	97	0.62	1454	492	118	118
1508	P-224	H-64	J-55	True	4.0	Ductile Iron	130.0	False	0	0.00	1407	64	118	118
374	P-155	J-119	H-28	True	4.0	Ductile Iron	140.0	False	0	0.00	1454	24	118	115
1610	P-156(1)(1)	J-119	J-195	True	8.0	Asbestos Cement	140.0	False	80	0.51	1454	289	118	110

ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
243	P-25	J-18	H-3	True	4.0	Ductile Iron	140.0	False	0	0.00	1924	26	118	118
244	P-26	J-18	J-19	True	6.0	Asbestos Cement	140.0	False	17	0.19	1924	612	118	149
245	P-27	J-18	J-20	True	6.0	Asbestos Cement	140.0	False	20	0.23	1924	158	118	112
1649	P-76(2)(1)	J-203	J-204	True	8.0	Asbestos Cement	140.0	False	120	0.77	1470	476	118	139
1656	P-69(2)	J-205	J-47	True	8.0	Asbestos Cement	140.0	False	67	0.43	1470	286	118	104
299	P-81	J-55	J-57	True	8.0	Asbestos Cement	140.0	False	60	0.38	1407	453	118	100
312	P-94	J-55	PRV-7 (Bridle)	True	8.0	Asbestos Cement	140.0	False	226	1.45	1407	59	118	122
1526	P-101(1)	J-70	J-178	True	8.0	Asbestos Cement	140.0	False	87	0.55	1347	95	119	117
1530	P-109(1)	J-70	J-179	True	8.0	Asbestos Cement	140.0	False	67	0.43	1347	376	119	120
1576	P-250	H-132	J-188	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	27	119	118
1570	P-125(1)	J-99	J-187	True	8.0	Asbestos Cement	140.0	False	336	2.15	1712 E	459	120	133
1574	P-126(1)	J-99	J-188	True	10.0	Asbestos Cement	140.0	False	276	1.13	1712 E	81	120	118
1531	P-109(2)	J-179	J-71	True	8.0	Asbestos Cement	140.0	False	43	0.28	1347	393	120	120
237	P-19	J-14	J-15	True	8.0	Asbestos Cement	140.0	False	43	0.28	1924	281	120	116
1388	P-22(1)	J-14	J-146	True	8.0	Asbestos Cement	140.0	False	93	0.60	1924	318	120	136
1532	P-233	H-73	J-179	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	30	120	120
1540	P-235	H-75	J-181	True	4.0	Ductile Iron	130.0	False	0	0.00	1347	48	120	123
1657	P-281	H-91	J-205	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	13	120	118
328	P-110	J-71	H-18	True	4.0	Ductile Iron	140.0	False	0	0.00	1347	38	120	122
329	P-111	J-71	J-94	True	8.0	Asbestos Cement	140.0	False	0	0.00	1454	582	120	112
1534	P-112(1)	J-71	J-180	True	8.0	Asbestos Cement	140.0	False	27	0.17	1347	421	120	121
1535	P-112(2)	J-180	J-72	True	8.0	Asbestos Cement	140.0	False	23	0.15	1347	452	121	121
331	P-113	J-72	H-19	True	4.0	Ductile Iron	140.0	False	0	0.00	1347	30	121	122
1538	P-114(1)	J-72	J-181	True	8.0	Asbestos Cement	140.0	False	17	0.11	1347	300	121	123
1393	P-18(2)	J-147	J-14	True	8.0	Asbestos Cement	140.0	False	143	0.91	1924	46	122	120
268	P-50	J-36	PRV-8 (Zanja)	True	8.0	Asbestos Cement	140.0	False	646	4.12	1677	51	122	124
1564	P-244	H-83	J-186	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	33	122	123
1701	P-15(2)(1)	J-214	J-215	True	10.0	Asbestos Cement	140.0	False	167	0.68	1924	509	123	135
1563	P-146(1)(2)	J-186	J-185	True	6.0	Asbestos Cement	140.0	False	40	0.45	1454	423	123	112
1539	P-114(2)	J-181	J-73	True	8.0	Asbestos Cement	140.0	False	7	0.04	1347	312	123	125
333	P-115	J-73	J-74	True	8.0	Asbestos Cement	140.0	False	0	0.00	1347	271	125	129
1730	P-309	H-89	J-219	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	25	125	116
1620	P-268	H-123	J-197	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	4	125	118
1522	P-229	H-69	J-177	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	10	126	137
367	P-148	J-121	H-20	True	4.0	Ductile Iron	140.0	False	0	0.00	1454	26	126	127
368	P-149	J-121	J-120	True	8.0	Asbestos Cement	140.0	False	140	0.89	1454	197	126	118
1518	P-228	H-68	J-62	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	55	127	128
380	P-161	J-133	PRV-3 (Ranchero)	True	8.0	Asbestos Cement	140.0	False	593	3.78	1924	76	127	132
1382	P-189	H-30	J-144	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	12	128	129
1572	P-249	H-131	J-187	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	15	128	133
308	P-90	J-62	J-65	True	4.0	Asbestos Cement	140.0	False	23	0.60	1550	431	128	120
1520	P-91(1)	J-62	J-177	True	8.0	Asbestos Cement	140.0	False	47	0.30	1550	470	128	137
1647	P-277	H-95	J-203	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	18	128	118
1381	P-24(2)	J-144	J-18	True	8.0	Asbestos Cement	140.0	False	43	0.28	1924	459	129	118
1550	P-239	H-79	J-183	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	30	129	109
1403	P-195	H-37	J-149	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	32	130	140
390	P-171	J-130	PRV-2 (Marlboro)	True	10.0	Asbestos Cement	140.0	False	703	2.87	1924	275	131	153
1703	P-297	H-115	J-215	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	33	131	135
1565	P-245	H-80	J-93	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	56	132	134
1571	P-125(2)	J-187	J-98	True	8.0	Asbestos Cement	140.0	False	313	2.00	1712 E	480	133	147
337	P-119	J-93	J-92	True	8.0	Asbestos Cement	140.0	False	157	1.00	1454	390	134	135
1562	P-146(1)(1)	J-93	J-186	True	6.0	Asbestos Cement	140.0	False	47	0.53	1454	448	134	123
1568	P-248	H-84	J-91	True	4.0	Ductile Iron	130.0	False	0	0.00	1454	48	135	135
336	P-118	J-92	J-91	True	8.0	Asbestos Cement	140.0	False	3	0.02	1454	28	135	135
366	P-147	J-92	J-121	True	8.0	Asbestos Cement	140.0	False	143	0.91	1454	402	135	126
1702	P-15(2)(2)	J-215	J-10	True	10.0	Asbestos Cement	140.0	False	153	0.63	1924	86	135	137
335	P-117	J-91	J-83	True	8.0	Asbestos Cement	140.0	False	3	0.02	1454	199	135	136

FlexTable: Pipe Table														
ID	Label	Start Node	Stop Node	Is Active?	Diameter (in)	Material	Hazen-Williams C	Has Check Valve?	Flow (gpm)	Velocity (ft/s)	Zone	Length (ft)	Pressure (Start) (psi)	Pressure (Stop) (psi)
334	P-116	J-83	J-82	True	8.0	Asbestos Cement	140.0	False	0	0.00	1454	30	136	144
1389	P-22(2)	J-146	J-17	True	8.0	Asbestos Cement	140.0	False	83	0.53	1924	320	136	153
1741	P-16(1)	J-10	J-222	True	10.0	Steel	140.0	False	143	0.59	1924	1,092	137	220
1521	P-91(2)	J-177	J-63	True	8.0	Asbestos Cement	140.0	False	17	0.11	1550	516	137	146
1717	P-304	H-149	J-88	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	44	138	138
395	P-176	J-88	J-87	True	6.0	Asbestos Cement	140.0	False	0	0.00	1722	307	138	35
399	P-180	J-88	J-85	True	8.0	Asbestos Cement	140.0	False	443	2.83	1722	374	138	147
1390	P-191	H-33	J-146	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	27	139	136
1385	P-24(1)(2)	J-145	J-144	True	8.0	Asbestos Cement	140.0	False	50	0.32	1924	443	139	129
1650	P-76(2)(2)	J-204	J-49	True	8.0	Asbestos Cement	140.0	False	107	0.68	1470	129	139	145
1402	P-18(1)(2)	J-149	J-147	True	8.0	Asbestos Cement	140.0	False	153	0.98	1924	456	140	122
1653	P-280	H-92	J-48	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	117	140	142
1641	P-274	H-102	J-89	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	29	140	141
401	P-182	J-89	J-90	True	4.0	Asbestos Cement	140.0	False	10	0.26	1722	225	141	135
1517	P-227	H-67	J-176	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	37	142	144
1655	P-69(1)	J-48	J-205	True	8.0	Asbestos Cement	140.0	False	83	0.53	1470	481	142	118
1516	P-88(2)	J-176	J-60	True	4.0	Asbestos Cement	140.0	False	13	0.34	1550	141	144	140
1747	P-4(2)	J-225	J-2	True	12.0	Asbestos Cement	140.0	False	1,562	4.43	1924 Main	2,646	145	162
1794	Site 4 Source Pipe	J-225	Site 4 PRV	True	12.0	Steel	140.0	False	0	0.00	1924 Main	11,093	145	79
1642	P-275	H-98	J-85	True	4.0	Ductile Iron	130.0	False	0	0.00	1722	53	145	147
288	P-70	J-49	J-48	True	8.0	Asbestos Cement	140.0	False	100	0.64	1470	230	145	142
1386	P-190	H-31	J-145	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	13	146	139
310	P-92	J-63	H-16	True	4.0	Ductile Iron	140.0	False	0	0.00	1550	37	146	145
311	P-93	J-63	J-64	True	8.0	Asbestos Cement	140.0	False	3	0.02	1550	68	146	148
1652	P-279	H-93	J-49	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	57	146	145
1651	P-278	H-94	J-204	True	4.0	Ductile Iron	130.0	False	0	0.00	1470	32	147	139
400	P-181	J-85	J-89	True	6.0	Asbestos Cement	140.0	False	23	0.26	1722	687	147	141
402	P-183	J-85	PRV-5 (Colt)	True	8.0	Asbestos Cement	140.0	False	253	1.62	1722	82	147	150
1826	Flintlock Bypass	J-85	J-175	True	6.0	Ductile Iron	130.0	False	157	1.78	1550	5,495	147	183
1555	P-241	H-130	J-98	True	4.0	Ductile Iron	130.0	False	0	0.00	1712 E	14	147	147
342	P-124	J-98	PRV-6 (Dapplegray)	True	8.0	Asbestos Cement	140.0	False	300	1.91	1712 E	24	147	152
1378	P-188	H-29	J-19	True	4.0	Ductile Iron	130.0	False	0	0.00	1924	23	151	149
241	P-23	J-17	H-2	True	4.0	Ductile Iron	140.0	False	0	0.00	1924	21	153	153
1384	P-24(1)(1)	J-17	J-145	True	8.0	Asbestos Cement	140.0	False	70	0.45	1924	592	153	139
1513	P-226	H-66	J-61	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	44	153	154
307	P-89	J-61	J-62	True	8.0	Asbestos Cement	140.0	False	93	0.60	1550	390	154	128
1515	P-88(1)	J-61	J-176	True	4.0	Asbestos Cement	140.0	False	30	0.77	1550	329	154	144
248	P-30	J-12	PRV-4 (Saddlebow)	True	10.0	Asbestos Cement	140.0	False	946	3.86	1924	26	154	161
1401	P-18(1)(1)	J-12	J-149	True	8.0	Asbestos Cement	140.0	False	167	1.06	1924	364	154	140
223	P-5	J-2	PRV-1 (Main)	True	16.0	Asbestos Cement	140.0	False	1,562	2.49	1924 Main	41	162	155
1511	P-87(2)	J-175	J-61	True	8.0	Asbestos Cement	140.0	False	147	0.94	1550	466	183	154
1512	P-225	H-65	J-175	True	4.0	Ductile Iron	130.0	False	0	0.00	1550	13	185	183
1742	P-16(2)	J-222	J-11	True	10.0	Steel	140.0	False	143	0.59	1924	325	220	245
235	P-17	J-11	J-12	True	10.0	Steel	140.0	False	143	0.59	1924	1,534	245	154

FlexTable: Hydrant Table

ID	Label	Hydrant Status	Include Hydrant Lateral Loss?	Emitter Coefficient (gpm/psi^n)	Length (Hydrant Lateral) (ft)	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Satisfies Fire Flow Constraints?	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)
1299	H-67	Open	False	0.000	20	1,371.27	1550	<Collection: 0 items>	0	1,699.56	142	False	588	1,000
57	H-16	Open	False	0.000	20	1,363.99	1550	<Collection: 0 items>	0	1,699.69	145	False	611	1,000
1301	H-69	Open	False	0.000	20	1,408.00	1550	<Collection: 0 items>	0	1,699.69	126	False	611	1,000
1300	H-68	Open	False	0.000	20	1,407.32	1550	<Collection: 0 items>	0	1,699.72	127	False	611	1,000
1298	H-66	Open	False	0.000	20	1,345.71	1550	<Collection: 0 items>	0	1,699.79	153	False	615	1,000
1297	H-65	Open	False	0.000	20	1,273.44	1550	<Collection: 0 items>	0	1,700.00	185	False	621	1,000
56	H-15	Open	False	0.000	20	1,229.57	1407	<Collection: 0 items>	0	1,376.39	64	False	722	1,000
55	H-14	Open	False	0.000	20	1,141.15	1407	<Collection: 0 items>	0	1,376.41	102	False	746	1,000
1296	H-64	Open	False	0.000	20	1,103.57	1407	<Collection: 0 items>	0	1,376.45	118	False	765	1,000
48	H-7	Open	False	0.000	20	1,535.87	1677	<Collection: 0 items>	0	1,642.23	46	False	778	1,000
1295	H-63	Open	False	0.000	20	1,105.70	1407	<Collection: 0 items>	0	1,377.37	118	False	799	1,000
1369	H-137	Open	False	0.000	20	1,605.17	1712 E	<Collection: 0 items>	0	1,701.43	42	False	836	1,000
47	H-6	Open	False	0.000	20	1,384.44	1677	<Collection: 0 items>	0	1,637.71	110	False	841	1,000
1282	H-50	Open	False	0.000	20	1,480.51	1677	<Collection: 0 items>	0	1,642.24	70	False	841	1,000
1294	H-62	Open	False	0.000	20	1,119.88	1407	<Collection: 0 items>	0	1,378.90	112	False	857	1,000
1293	H-61	Open	False	0.000	20	1,174.96	1407	<Collection: 0 items>	0	1,378.82	88	False	858	1,000
53	H-12	Open	False	0.000	20	1,129.88	1407	<Collection: 0 items>	0	1,380.19	108	False	901	1,000
1372	H-140	Open	False	0.000	20	1,534.45	1712 E	<Collection: 0 items>	0	1,701.06	72	False	904	1,000
1319	H-87	Open	False	0.000	20	1,109.32	1347	<Collection: 0 items>	0	1,346.14	102	False	917	1,000
64	H-23	Open	False	0.000	20	1,595.52	1712 E	<Collection: 0 items>	0	1,700.86	46	False	919	1,000
1281	H-49	Open	False	0.000	20	1,500.72	1677	<Collection: 0 items>	0	1,646.03	63	False	930	1,000
1292	H-60	Open	False	0.000	20	1,142.35	1407	<Collection: 0 items>	0	1,381.42	103	False	945	1,000
1317	H-85	Open	False	0.000	20	1,121.44	1347	<Collection: 0 items>	0	1,346.23	97	False	968	1,000
1318	H-86	Open	False	0.000	20	1,090.62	1347	<Collection: 0 items>	0	1,346.27	111	False	986	1,000
1304	H-72	Open	False	0.000	20	1,073.93	1347	<Collection: 0 items>	0	1,346.32	118	True	1,006	1,000
1291	H-59	Open	False	0.000	20	1,140.41	1407	<Collection: 0 items>	0	1,382.98	105	True	1,006	1,000
63	H-22	Open	False	0.000	20	1,317.31	1454	<Collection: 0 items>	0	1,450.65	58	True	1,009	1,000
1305	H-73	Open	False	0.000	20	1,069.21	1347	<Collection: 0 items>	0	1,346.29	120	True	1,011	1,000
59	H-18	Open	False	0.000	20	1,064.56	1347	<Collection: 0 items>	0	1,346.28	122	True	1,011	1,000
60	H-19	Open	False	0.000	20	1,063.68	1347	<Collection: 0 items>	0	1,346.26	122	True	1,011	1,000
1307	H-75	Open	False	0.000	20	1,069.02	1347	<Collection: 0 items>	0	1,346.26	120	True	1,011	1,000
1306	H-74	Open	False	0.000	20	1,081.76	1347	<Collection: 0 items>	0	1,346.27	114	True	1,011	1,000
65	H-24	Open	False	0.000	20	1,572.15	1712 E	<Collection: 0 items>	0	1,700.86	56	True	1,038	1,000
1280	H-48	Open	False	0.000	20	1,521.55	1677	<Collection: 0 items>	0	1,649.93	56	True	1,042	1,000
1303	H-71	Open	False	0.000	20	1,082.52	1347	<Collection: 0 items>	0	1,346.61	114	True	1,043	1,000
66	H-25	Open	False	0.000	20	1,528.95	1712 E	<Collection: 0 items>	0	1,700.87	74	True	1,058	1,000
1665	H-147	Open	False	0.000	20	1,340.35	1454	<Collection: 0 items>	0	1,451.00	48	True	1,061	1,000
1302	H-70	Open	False	0.000	20	1,091.91	1347	<Collection: 0 items>	0	1,346.86	110	True	1,066	1,000
1370	H-138	Open	False	0.000	20	1,499.38	1712 E	<Collection: 0 items>	0	1,701.10	87	True	1,068	1,000
1368	H-136	Open	False	0.000	20	1,523.76	1712 E	<Collection: 0 items>	0	1,701.45	77	True	1,068	1,000
67	H-26	Open	False	0.000	20	1,497.30	1712 E	<Collection: 0 items>	0	1,701.02	88	True	1,068	1,000
1375	H-143	Open	False	0.000	20	1,460.15	1712 E	<Collection: 0 items>	0	1,700.72	104	True	1,068	1,000
1595	H-146	Open	False	0.000	20	1,484.65	1712 E	<Collection: 0 items>	0	1,700.88	94	True	1,068	1,000
1374	H-142	Open	False	0.000	20	1,440.81	1712 E	<Collection: 0 items>	0	1,700.84	113	True	1,068	1,000
1376	H-144	Open	False	0.000	20	1,487.71	1712 E	<Collection: 0 items>	0	1,700.67	92	True	1,068	1,000
1371	H-139	Open	False	0.000	20	1,530.99	1712 E	<Collection: 0 items>	0	1,701.09	74	True	1,068	1,000
1290	H-58	Open	False	0.000	20	1,144.41	1407	<Collection: 0 items>	0	1,384.59	104	True	1,075	1,000
1361	H-129	Open	False	0.000	20	1,277.86	1454	<Collection: 0 items>	0	1,450.65	75	True	1,084	1,000
1367	H-135	Open	False	0.000	20	1,498.84	1712 E	<Collection: 0 items>	0	1,701.64	88	True	1,126	1,000
1360	H-128	Open	False	0.000	20	1,246.52	1454	<Collection: 0 items>	0	1,450.67	88	True	1,128	1,000
1357	H-125	Open	False	0.000	20	1,264.04	1454	<Collection: 0 items>	0	1,451.00	81	True	1,134	1,000
51	H-10	Open	False	0.000	20	1,148.70	1407	<Collection: 0 items>	0	1,386.49	103	True	1,164	1,000
1366	H-134	Open	False	0.000	20	1,470.69	1712 E	<Collection: 0 items>	0	1,701.82	100	True	1,181	1,000
1356	H-124	Open	False	0.000	20	1,184.83	1454	<Collection: 0 items>	0	1,451.01	115	True	1,201	1,000
1359	H-127	Open	False	0.000	20	1,198.95	1454	<Collection: 0 items>	0	1,450.71	109	True	1,202	1,000
78	H-28	Open	False	0.000	20	1,185.27	1454	<Collection: 0 items>	0	1,450.79	115	True	1,209	1,000
1358	H-126	Open	False	0.000	20	1,187.19	1454	<Collection: 0 items>	0	1,450.75	114	True	1,210	1,000
1355	H-123	Open	False	0.000	20	1,161.20	1454	<Collection: 0 items>	0	1,450.90	125	True	1,210	1,000

FlexTable: Hydrant Table

ID	Label	Hydrant Status	Include Hydrant Lateral Loss?	Emitter Coefficient (gpm/psi^n)	Length (Hydrant Lateral) (ft)	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Satisfies Fire Flow Constraints?	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)
46	H-5	Open	False	0.000	20	1,520.50	1677	<Collection: 0 items>	0	1,654.82	58	True	1,229	1,000
1365	H-133	Open	False	0.000	20	1,439.45	1712 E	<Collection: 0 items>	0	1,702.00	114	True	1,237	1,000
1289	H-57	Open	False	0.000	20	1,149.48	1407	<Collection: 0 items>	0	1,388.13	103	True	1,252	1,000
61	H-20	Open	False	0.000	20	1,157.23	1454	<Collection: 0 items>	0	1,451.09	127	True	1,255	1,000
1313	H-81	Open	False	0.000	20	1,222.00	1454	<Collection: 0 items>	0	1,451.28	99	True	1,264	1,000
1364	H-132	Open	False	0.000	20	1,426.61	1712 E	<Collection: 0 items>	0	1,702.18	119	True	1,292	1,000
1363	H-131	Open	False	0.000	20	1,404.57	1712 E	<Collection: 0 items>	0	1,701.25	128	True	1,304	1,000
1362	H-130	Open	False	0.000	20	1,359.51	1712 E	<Collection: 0 items>	0	1,700.36	147	True	1,304	1,000
1288	H-56	Open	False	0.000	20	1,153.45	1407	<Collection: 0 items>	0	1,390.06	102	True	1,328	1,000
1316	H-84	Open	False	0.000	20	1,140.00	1454	<Collection: 0 items>	0	1,451.27	135	True	1,362	1,000
58	H-17	Open	False	0.000	20	1,382.29	1470	<Collection: 0 items>	0	1,469.62	38	True	1,365	1,000
1279	H-47	Open	False	0.000	20	1,503.08	1677	<Collection: 0 items>	0	1,657.70	67	True	1,376	1,000
50	H-9	Open	False	0.000	20	1,173.00	1407	<Collection: 0 items>	0	1,392.42	95	True	1,387	1,000
1283	H-51	Open	False	0.000	20	1,332.87	1407	<Collection: 0 items>	0	1,405.16	31	True	1,415	1,000
1287	H-55	Open	False	0.000	20	1,261.84	1407	<Collection: 0 items>	0	1,396.56	58	True	1,418	1,000
49	H-8	Open	False	0.000	20	1,202.06	1407	<Collection: 0 items>	0	1,393.69	83	True	1,419	1,000
1286	H-54	Open	False	0.000	20	1,274.19	1407	<Collection: 0 items>	0	1,398.97	54	True	1,419	1,000
1285	H-53	Open	False	0.000	20	1,274.56	1407	<Collection: 0 items>	0	1,399.95	54	True	1,438	1,000
1718	H-150	Open	False	0.000	20	1,698.18	1924	<Collection: 0 items>	0	1,911.64	92	True	1,447	1,000
1284	H-52	Open	False	0.000	20	1,299.41	1407	<Collection: 0 items>	0	1,402.36	45	True	1,453	1,000
1314	H-82	Open	False	0.000	20	1,206.58	1454	<Collection: 0 items>	0	1,451.30	106	True	1,497	1,000
1312	H-80	Open	False	0.000	20	1,147.31	1454	<Collection: 0 items>	0	1,451.47	132	True	1,497	1,000
1315	H-83	Open	False	0.000	20	1,168.35	1454	<Collection: 0 items>	0	1,451.37	122	True	1,497	1,000
1336	H-104	Open	False	0.000	20	1,493.49	1722	<Collection: 0 items>	0	1,721.66	99	True	1,603	1,000
1329	H-97	Open	False	0.000	20	1,322.00	1470	<Collection: 0 items>	0	1,469.52	64	True	1,604	1,000
1322	H-90	Open	False	0.000	20	1,227.53	1470	<Collection: 0 items>	0	1,468.70	104	True	1,611	1,000
1320	H-88	Open	False	0.000	20	1,209.27	1470	<Collection: 0 items>	0	1,468.67	112	True	1,630	1,000
1278	H-46	Open	False	0.000	20	1,479.97	1677	<Collection: 0 items>	0	1,662.76	79	True	1,755	1,000
1334	H-102	Open	False	0.000	20	1,388.52	1722	<Collection: 0 items>	0	1,713.10	140	True	1,763	1,000
1324	H-92	Open	False	0.000	20	1,145.62	1470	<Collection: 0 items>	0	1,468.84	140	True	1,804	1,000
1261	H-29	Open	False	0.000	20	1,563.14	1924	<Collection: 0 items>	0	1,911.63	151	True	1,811	1,000
1311	H-79	Open	False	0.000	20	1,153.44	1454	<Collection: 0 items>	0	1,452.13	129	True	1,866	1,000
1271	H-39	Open	False	0.000	20	1,544.28	1677	<Collection: 0 items>	0	1,674.89	57	True	1,909	1,000
1277	H-45	Open	False	0.000	20	1,447.01	1677	<Collection: 0 items>	0	1,664.36	94	True	1,928	1,000
1321	H-89	Open	False	0.000	20	1,179.25	1470	<Collection: 0 items>	0	1,468.70	125	True	1,931	1,000
44	H-3	Open	False	0.000	20	1,638.70	1924	<Collection: 0 items>	0	1,911.65	118	True	1,931	1,000
77	H-27	Open	False	0.000	20	1,228.30	1470	<Collection: 0 items>	0	1,468.73	104	True	1,978	1,000
1337	H-105	Open	False	0.000	20	1,508.05	1722	<Collection: 0 items>	0	1,721.69	92	True	2,070	1,000
1262	H-30	Open	False	0.000	20	1,615.23	1924	<Collection: 0 items>	0	1,911.67	128	True	2,083	1,000
1276	H-44	Open	False	0.000	20	1,440.27	1677	<Collection: 0 items>	0	1,665.69	98	True	2,100	1,000
1349	H-117	Open	False	0.000	20	1,544.32	1712 W	<Collection: 0 items>	0	1,708.08	71	True	2,134	1,000
1328	H-96	Open	False	0.000	20	1,308.29	1470	<Collection: 0 items>	0	1,469.54	70	True	2,170	1,000
1268	H-36	Open	False	0.000	20	1,650.79	1924	<Collection: 0 items>	0	1,911.85	113	True	2,179	1,000
1330	H-98	Open	False	0.000	20	1,377.73	1722	<Collection: 0 items>	0	1,713.14	145	True	2,201	1,000
1310	H-78	Open	False	0.000	20	1,208.48	1454	<Collection: 0 items>	0	1,452.60	106	True	2,210	1,000
1332	H-100	Open	False	0.000	20	1,326.41	1470	<Collection: 0 items>	0	1,470.02	62	True	2,256	1,000
1323	H-91	Open	False	0.000	20	1,190.92	1470	<Collection: 0 items>	0	1,468.76	120	True	2,262	1,000
1263	H-31	Open	False	0.000	20	1,574.44	1924	<Collection: 0 items>	0	1,911.69	146	True	2,270	1,000
1325	H-93	Open	False	0.000	20	1,130.69	1470	<Collection: 0 items>	0	1,468.89	146	True	2,295	1,000
1341	H-109	Open	False	0.000	20	1,524.59	1722	<Collection: 0 items>	0	1,718.51	84	True	2,334	1,000
1716	H-149	Open	False	0.000	20	1,396.16	1722	<Collection: 0 items>	0	1,714.46	138	True	2,369	1,000
1309	H-77	Open	False	0.000	20	1,281.14	1454	<Collection: 0 items>	0	1,453.27	74	True	2,373	1,000
1308	H-76	Open	False	0.000	20	1,192.64	1454	<Collection: 0 items>	0	1,453.26	113	True	2,419	1,000
1275	H-43	Open	False	0.000	20	1,430.19	1677	<Collection: 0 items>	0	1,667.69	103	True	2,428	1,000
1345	H-113	Open	False	0.000	20	1,673.20	1924	<Collection: 0 items>	0	1,912.99	104	True	2,428	1,000
54	H-13	Open	False	0.000	20	1,257.19	1470	<Collection: 0 items>	0	1,469.32	92	True	2,455	1,000
1326	H-94	Open	False	0.000	20	1,129.78	1470	<Collection: 0 items>	0	1,468.92	147	True	2,462	1,000
1327	H-95	Open	False	0.000	20	1,172.07	1470	<Collection: 0 items>	0	1,469.07	128	True	2,462	1,000

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ID	Label	Hydrant Status	Include Hydrant Lateral Loss?	Emitter Coefficient (gpm/psi^n)	Length (Hydrant Lateral) (ft)	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)	Satisfies Fire Flow Constraints?	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)
1267	H-35	Open	False	0.000	20	1,654.33	1924	<Collection: 0 items>	0	1,911.85	111	True	2,528	1,000
1331	H-99	Open	False	0.000	20	1,353.73	1470	<Collection: 0 items>	0	1,470.04	50	True	2,546	1,000
1333	H-101	Open	False	0.000	20	1,208.54	1470	<Collection: 0 items>	0	1,470.01	113	True	2,573	1,000
43	H-2	Open	False	0.000	20	1,557.21	1924	<Collection: 0 items>	0	1,911.76	153	True	2,620	1,000
1339	H-107	Open	False	0.000	20	1,570.38	1722	<Collection: 0 items>	0	1,721.83	66	True	2,763	1,000
1274	H-42	Open	False	0.000	20	1,456.43	1677	<Collection: 0 items>	0	1,669.47	92	True	2,827	1,000
1265	H-33	Open	False	0.000	20	1,590.74	1924	<Collection: 0 items>	0	1,911.81	139	True	2,891	1,000
42	H-1	Open	False	0.000	20	1,649.90	1924	<Collection: 0 items>	0	1,911.86	113	True	2,923	1,000
1342	H-110	Open	False	0.000	20	1,674.11	1924	<Collection: 0 items>	0	1,913.22	103	True	2,954	1,000
1338	H-106	Open	False	0.000	20	1,518.04	1722	<Collection: 0 items>	0	1,721.79	88	True	2,954	1,000
1266	H-34	Open	False	0.000	20	1,641.98	1924	<Collection: 0 items>	0	1,911.90	117	True	3,032	1,000
1344	H-112	Open	False	0.000	20	1,654.95	1924	<Collection: 0 items>	0	1,912.99	112	True	3,089	1,000
1272	H-40	Open	False	0.000	20	1,511.63	1677	<Collection: 0 items>	0	1,673.26	70	True	3,098	1,000
1335	H-103	Open	False	0.000	20	1,461.38	1722	<Collection: 0 items>	0	1,716.53	110	True	3,156	1,000
1273	H-41	Open	False	0.000	20	1,507.89	1677	<Collection: 0 items>	0	1,670.97	71	True	3,220	1,000
1351	H-119	Open	False	0.000	20	1,499.93	1712 W	<Collection: 0 items>	0	1,710.11	91	True	3,269	1,000
1269	H-37	Open	False	0.000	20	1,610.55	1924	<Collection: 0 items>	0	1,912.12	130	True	3,336	1,000
1270	H-38	Open	False	0.000	20	1,515.60	1677	<Collection: 0 items>	0	1,674.76	69	True	3,500	1,000
1340	H-108	Open	False	0.000	20	1,603.64	1722	<Collection: 0 items>	0	1,721.81	51	True	3,500	1,000
1343	H-111	Open	False	0.000	20	1,676.18	1924	<Collection: 0 items>	0	1,913.10	103	True	3,500	1,000
1346	H-114	Open	False	0.000	20	1,642.55	1924	<Collection: 0 items>	0	1,912.88	117	True	3,500	1,000
1347	H-115	Open	False	0.000	20	1,609.54	1924	<Collection: 0 items>	0	1,912.78	131	True	3,500	1,000
1348	H-116	Open	False	0.000	20	1,504.01	1712 W	<Collection: 0 items>	0	1,708.70	89	True	3,500	1,000
1350	H-118	Open	False	0.000	20	1,500.87	1712 W	<Collection: 0 items>	0	1,710.36	91	True	3,500	1,000
1352	H-120	Open	False	0.000	20	1,564.95	1712 W	<Collection: 0 items>	0	1,712.23	64	True	3,500	1,000
1353	H-121	Open	False	0.000	20	1,706.00	1924	<Collection: 0 items>	0	1,916.21	91	True	3,500	1,000
1404	H-145	Open	False	0.000	20	1,549.51	1677	<Collection: 0 items>	0	1,676.95	55	True	3,500	1,000
1684	H-148	Open	False	0.000	20	1,685.05	1924	<Collection: 0 items>	0	1,924.92	104	True	3,500	1,000
1735	H-151	Open	False	0.000	20	1,489.00	1677	<Collection: 0 items>	0	1,673.42	80	True	3,500	1,000

Appendix B – Cost Estimates

County of Ventura

Bell Canyon Reservoir - Option-Site-1

Preliminary Design Construction Estimate (Draft-1-21-20)

Description	Quantity	Unit	Unit Price	Item Cost	Item Cost with Contingency
Grading					
Grading (10,000 ft2)	10000	ft2	\$5.00	\$50,000	\$65,000
Access Road					
200 ft x 20 ft wide				\$23,504	\$31,000
Refurbishment of Existing Dirt Road					
1700 ft x 20 ft wide				\$68,000	\$88,000
Site Drainage					
Storm Drain	1	LS	\$75,000.00	\$75,000	\$98,000
Tank Construction					
Steel tank	1	LS	\$825,000.00	\$825,000	\$1,073,000
Foundation	1	LS	\$75,000.00	\$75,000	\$98,000
Coating	1	LS	\$390,000.00	\$390,000	\$507,000
Drain pipe under the foundation	1	LS	\$10,000.00	\$10,000	\$13,000
Cathodic Protection	1	LS	\$100,000.00	\$100,000	\$130,000
Site Piping					
Inlet pipe, overflow pipe, altitude valve, etc.,	1	LS	\$250,000.00	\$250,000	\$325,000
Supply Pipe to Reservoir					
12-inch 1,700 ft (on dirt road)	1700	ft	\$185.00	\$314,500	\$409,000
Discharge Pipe to Network					
12-inch 200 ft (paved road)	200	ft	\$200.00	\$40,000	\$52,000
Electrical/Instrumentation					
Radio	1	Ea	\$3,000.00	\$3,000	\$4,000
Solar Power	1	LS	\$10,000.00	\$10,000	\$13,000
Cathodic Protection System	1	LS	\$95,000.00	\$95,000	\$124,000
Light Pole & Light fixture	1	LS	\$3,000.00	\$3,000	\$4,000
Level instrument, intrusion switch	1	LS	\$1,750.00	\$1,750	\$2,000
Grounding, ground well, ground rod	1	LS	\$1,300.00	\$1,300	\$2,000
Miscellaneous					
Chain Link Fencing w/ Barb Wire top	600	LF	\$50.00	\$30,000	\$39,000
Chain Link 12' Wide Dbl Gate	1	LS	\$1,200.00	\$1,200	\$2,000
Bollards	6	EA	\$1,500.00	\$9,000	\$12,000
Slope erosion control	9800	SF	\$1.00	\$9,800	\$13,000
Subtotal				\$2,385,054	
Contingency	30%			\$715,516	
Construction Total				\$3,100,570	\$3,104,000
Contractor OH, Bond, Division 1	25%			\$775,143	\$775,000
Total Cost				\$3,875,713	\$3,879,000

County of Ventura

Bell Canyon Reservoir - Option-Site-2

Preliminary Design Construction Estimate (Draft-1-21-20)

Description	Quantity	Unit	Unit Price	Item Cost	Item Cost with Contingency
Grading					
Grading (10,000 ft2)	10000	ft2	\$5.00	\$50,000	\$65,000.0
Access Road					
5100 ft 20 ft wide				\$938,482	\$1,220,000.0
Refurbishment of Existing Dirt Road					
2350 ft x 20 ft wide				\$94,000	\$122,000.0
Site Drainage					
Storm Drain	1	LS	\$75,000.00	\$75,000	\$98,000.0
Tank Construction					
Steel tank	1	LS	\$825,000.00	\$825,000	\$1,073,000.0
Foundation	1	LS	\$75,000.00	\$75,000	\$98,000.0
Coating	1	LS	\$390,000.00	\$390,000	\$507,000.0
Drain pipe under the foundation	1	LS	\$10,000.00	\$10,000	\$13,000.0
Cathodic Protection	1	LS	\$100,000.00	\$100,000	\$130,000.0
Site Piping					
Inlet pipe, overflow pipe, altitude valve, etc.,	1	LS	\$250,000.00	\$250,000	\$325,000.0
Supply Pipe to Reservoir					
12-inch 2,350 ft (on dirt road)	2350	ft	\$185.00	\$434,750	\$565,000.0
12-inch 2,750 feet on cross country	2750	ft	\$175.00	\$481,250	\$626,000.0
Discharge Pipe to Network					
12-inch 5,100 feet cross country	5100	ft	\$175.00	\$892,500	\$1,160,000.0
Electrical/Instrumentation					
Radio	1	Ea	\$3,000.00	\$3,000	\$4,000.0
Solar Power	1	LS	\$10,000.00	\$10,000	\$13,000.0
Cathodic Protection System	1	LS	\$95,000.00	\$95,000	\$124,000.0
Light Pole & Light fixture	1	LS	\$3,000.00	\$3,000	\$4,000.0
Level instrument, intrusion switch	1	LS	\$1,750.00	\$1,750	\$2,000.0
Grounding, ground well, ground rod	1	LS	\$1,300.00	\$1,300	\$2,000.0
Miscellaneous					
Chain Link Fencing w/ Barb Wire top	600	LF	\$50.00	\$30,000	\$39,000.0
Chain Link 12' Wide Dbl Gate	1	LS	\$1,200.00	\$1,200	\$2,000.0
Bollards	6	EA	\$1,500.00	\$9,000	\$12,000.0
Slope erosion control	9800	SF	\$1.00	\$9,800	\$13,000.0
Subtotal				\$4,780,032	
Contingency	30%			\$1,434,010	
Construction Total				\$6,214,042	\$6,217,000
Contractor OH, Bond, Division 1	25%			\$1,553,510	\$1,554,000
Total Cost				\$7,767,552	\$7,771,000

County of Ventura

Bell Canyon Reservoir - Option-Site-3

Preliminary Design Construction Estimate (Draft-1-21-20)

Description	Quantity	Unit	Unit Price	Item Cost	Item Cost with Contingency
Grading					
Grading (10,000 ft2)	10000	ft2	\$5.00	\$50,000	\$65,000
Access Road					
2100 ft 20 ft wide				\$731,034	\$950,000
Refurbishment of Existing Dirt Road					
9450 ft x 20 ft wide				\$378,000	\$491,000
Site Drainage					
Storm Drain	1	LS	\$75,000.00	\$75,000	\$98,000
Tank Construction					
Steel tank	1	LS	\$825,000.00	\$825,000	\$1,073,000
Foundation	1	LS	\$75,000.00	\$75,000	\$98,000
Coating	1	LS	\$390,000.00	\$390,000	\$507,000
Drain pipe under the foundation	1	LS	\$10,000.00	\$10,000	\$13,000
Cathodic Protection	1	LS	\$100,000.00	\$100,000	\$130,000
Site Piping					
Inlet pipe, overflow pipe, altitude valve, etc.,	1	LS	\$250,000.00	\$250,000	\$325,000
Supply Pipe to Reservoir					
12-inch 7200 ft (on dirt road)	7200	ft	\$185.00	\$1,332,000	\$1,732,000
12-inch 1250 feet on cross country	1250	ft	\$175.00	\$218,750	\$284,000
Discharge Pipe to Network					
12-inch 3,700 feet on paved road	3700	ft	\$200.00	\$740,000	\$962,000
12-inch 3500 ft dirt road	3500	ft	\$185.00	\$647,500	\$842,000
12-inch 2,100 feet cross country	2100	ft	\$175.00	\$367,500	\$478,000
Electrical/Instrumentation					
Radio	1	Ea	\$3,000.00	\$3,000	\$4,000
Solar Power	1	LS	\$10,000.00	\$10,000	\$13,000
Cathodic Protection System	1	LS	\$95,000.00	\$95,000	\$124,000
Light Pole & Light fixture	1	LS	\$3,000.00	\$3,000	\$4,000
Level instrument, intrusion switch	1	LS	\$1,750.00	\$1,750	\$2,000
Grounding, ground well, ground rod	1	LS	\$1,300.00	\$1,300	\$2,000
Miscellaneous					
Chain Link Fencing w/ Barb Wire top	600	LF	\$50.00	\$30,000	\$39,000
Chain Link 12' Wide Dbl Gate	1	LS	\$1,200.00	\$1,200	\$2,000
Bollards	6	EA	\$1,500.00	\$9,000	\$12,000
Slope erosion control	9800	SF	\$1.00	\$9,800	\$13,000
Subtotal				\$6,353,834	
Contingency	30%			\$1,906,150	
Construction Total				\$8,259,984	\$8,263,000
Contractor OH, Bond, Division 1	25%			\$2,064,996	\$2,065,000
Total Cost				\$10,324,980	\$10,328,000

County of Ventura

Bell Canyon Reservoir - Option-Site-4

Preliminary Design Construction Estimate (Draft-1-20-20)

Description	Quantity	Unit	Unit Price	Item Cost	Item Cost with Contingency
Grading					
Grading (10,000 ft2)	10000	ft2	\$5.00	\$50,000	\$65,000
Access Road					
3350 ft 20 ft wide				\$1,130,608	\$1,470,000
Refurbishment of Existing Dirt Road					
8800 ft x 20 ft wide				\$352,000	\$458,000
Site Drainage					
Storm Drain	1	LS	\$75,000.00	\$75,000	\$98,000
Tank Construction					
Steel tank	1	LS	\$825,000.00	\$825,000	\$1,073,000
Foundation	1	LS	\$75,000.00	\$75,000	\$98,000
Coating	1	LS	\$390,000.00	\$390,000	\$507,000
Drain pipe under the foundation	1	LS	\$10,000.00	\$10,000	\$13,000
Cathodic Protection	1	LS	\$100,000.00	\$100,000	\$130,000
Site Piping					
Inlet pipe, overflow pipe, altitude valve, etc.,	1	LS	\$250,000.00	\$250,000	\$325,000
Supply Pipe to Reservoir					
12-inch 8800 ft (on dirt road)	8800	ft	\$185.00	\$1,628,000	\$2,116,000
12-inch 2700 feet on cross country	2700	ft	\$175.00	\$472,500	\$614,000
Discharge Pipe to Network					
12-inch 3,700 feet on paved road	3700	ft	\$200.00	\$740,000	\$962,000
12-inch 0 ft dirt road	0	ft	\$185.00	\$0	\$0
12-inch 2,500 feet cross country	2500	ft	\$175.00	\$437,500	\$569,000
Electrical/Instrumentation					
Radio	1	Ea	\$3,000.00	\$3,000	\$4,000
Solar Power	1	LS	\$10,000.00	\$10,000	\$13,000
Cathodic Protection System	1	LS	\$95,000.00	\$95,000	\$124,000
Light Pole & Light fixture	1	LS	\$3,000.00	\$3,000	\$4,000
Level instrument, intrusion switch	1	LS	\$1,750.00	\$1,750	\$2,000
Grounding, ground well, ground rod	1	LS	\$1,300.00	\$1,300	\$2,000
Miscellaneous					
Chain Link Fencing w/ Barb Wire top	600	LF	\$50.00	\$30,000	\$39,000
Chain Link 12' Wide Dbl Gate	1	LS	\$1,200.00	\$1,200	\$2,000
Bollards	6	EA	\$1,500.00	\$9,000	\$12,000
Slope erosion control	9800	SF	\$1.00	\$9,800	\$13,000
Subtotal				\$6,699,658	
Contingency	30%			\$2,009,897	
Construction Total				\$8,709,555	\$8,713,000
Contractor OH, Bond, Division 1	25%			\$2,177,389	\$2,177,000
Total Cost				\$10,886,944	\$10,890,000

Ventura Co. Water Works District 17
ROADWAY ESTIMATES (PRELIMINARY)

	1	2	3	4	5	6
	Alt 1	Alt 2	Alt 3	Alt 4		
	Paved Road	Cross Country	Cross Country	Cross Country		
New Access Road Length (FT)	200	5,100	2,100	3,350		
Re-grade Existing Dirt Road (FT)	1,700	2,350	9,450	8,800		
New Access Road Width (FT)	20	20	20	20		
Imported Borrow (CY)		10,146	9,670	15,612		
Roadway Excavation (CY)		11,469	4,180	6,259		

	Construction Item	Unit Cost				
1	Fine Grading	\$2.00 / SF	-	\$204,000	\$84,000	\$134,000
2	Regrade Existing Dirt Road	\$2.00 / SF	\$68,000	\$94,000	\$378,000	\$352,000
3	Clearing & Grubbing	/ LS	\$5,000	\$75,000	\$50,000	\$75,000
4	Drainage	/ LS	-	\$75,000	\$175,000	\$250,000
5	Hot Mix Asphalt (HMA)	\$150.00 / TON	\$14,800	-	-	-
6	Class 2 Aggregate Base	\$50.00 / CY	\$3,704	-	-	-
7	Imported Borrow	\$35.00 / CY	-	\$355,110	\$338,438	\$546,429
8	Roadway Excavation	\$20.00 / CY	-	\$229,372	\$83,596	\$125,179

Subtotal	\$91,504	\$1,032,482	\$1,109,034	\$1,482,608
Contingency (%)	30%	30%	30%	30%
Contingency	\$27,451	\$309,745	\$332,710	\$444,782
Total	\$118,955	\$1,342,227	\$1,441,744	\$1,927,391
USE	\$120,000	\$1,350,000	\$1,450,000	\$1,930,000

Assumptions:

- Conceptual estimate based on 15% max vertical profile and utilizing USGS map data, limited area will have 20% max vertical profile to minimize earthwork; roadway profile slope is preliminary and to be verify with geotechnical report findings and recommendations
- Cut sections assume a 1:1 slope in a rock through a rocky terrain
- Fill sections assume a 2:1 slope
- Excavation is assumed to be placed back as import borrow at 90% re-compaction and a 10% loss
- Alt 2 drainage feature includes, but is not limited to minor culvert crossings
- Alt 3 drainage feature includes, but is not limited to minor culvert crossings, new Bell Creek low-water crossings
- Alt 4 drainage feature includes, but is not limited to minor culvert crossings, new Bell Creek low-water crossings
- Alt 4 site condition is generally steep and resulted in excessive fill materials; retaining wall recommended to minimize fill heights
- Alignment of Alt 4 encroaches into property outside of Boeing
- Fine grading assumes reconstruction of native dirt road with 6 inch over-excavation and 90% re-compaction
- Re-grade existing dirt road to existing grade and maintains a 20 feet width

Appendix C – Preliminary Tank Design Calculations

TANK CALCULATIONS

AECOM
Bell Canyon, CA

124' Dia. x 30' High CRT

Preliminary Tank Design

PROJECT ENGINEER

Hagen Engineering International
202 S. Cedar St., Suite B
Owasso, OK 74055

(918) 973-3502

DESIGN ENGINEER

Doug Bayles, P.E.
CA PE: 69756

HEI Job #: Prebid

Pacific Tank Job #: Prebid

Pacific Tank and Construction, Inc.
P.O. Box 310
San Juan Capistrano, CA 92693

Customer:
AECOM
Tank Size:
124 x 30 CRT
Date: 01-03-2020 Rev.: 0

Standard Compliant Errors

Standard Compliant Errors

PRELIMINARY

Pacific Tank and Construction, Inc.
P.O. Box 310
San Juan Capistrano, CA 92693

Customer:
AECOM
Tank Size:
124 x 30 CRT
Date: 01-03-2020 Rev.: 0

Comments

Shell
Joint efficiency for all shell courses = 100%. X-rays are required. Quantity of x-rays shall be per Sec. 14.4.

Roof
Roof is single lap welded

Wind
Anchorage of the tank for wind is not required

Seismic
Tank is self-anchored
Available freeboard is adequate.
Tank is stable against sliding.

Anchor Bolt and Anchor Chair
Tank is not anchored

PRELIMINARY

Pacific Tank and Construction, Inc.
P.O. Box 310
San Juan Capistrano, CA 92693

Customer:
AECOM
Tank Size:
124 x 30 CRT
Date: 01-03-2020 Rev.: 0

Design Data

Tank Diameter	124'- 0.0000" (Inside)
Tank Height	30'- 0.0000"
High Liquid Level	22'- 0.0000"
Normal Liquid Level	21'- 6.0000"
Low Liquid Level	0'- 0.0000"
Total Capacity	1,968,605 gallons
	46,872 barrels
Working Capacity	1,923,439 gallons
	45,796 barrels
Design Standard.....	AWWA D-100-11 and Section 14
Lowest One-Day Mean Temperature	28 °F
Operating Temperature	150 °F
Design Temperature	200 °F
Roof Live Load	20.00 psf
Roof Design Snow Load	25.00 psf
Additional Roof Loads	0.00 psf
Wind:	
Velocity	110 mph
Importance Factor	1.15
Exposure	C
Seismic:	
Site Class	D
Importance Factor	1.50
Use Group	III
Ss Value	150.00 %
S1 Value	59.90 %
Vertical Acceleration	0.14 g
Transitional Period (TL)	8
Specific Gravity	1.0000

Pacific Tank and Construction, Inc.
P.O. Box 310
San Juan Capistrano, CA 92693

Customer:
AECOM
Tank Size:
124 x 30 CRT
Date: 01-03-2020 Rev.: 0

Internal Pressure (Design).....	Atmospheric
(Operating).....	Atmospheric
Combination Factor.....	0.40
External Pressure (Design).....	Atmospheric
(Operating).....	Atmospheric
Combination Factor.....	0.40
Corrosion Allowance:	
Bottom	0.0000 in
Shell Courses 1 - 3	0.0000 in
Roof	0.0000 in
Rafters.....	0.0000 in
Columns.....	0.0000 in
Cap Plate.....	0.0000 in
Base Plate.....	0.0000 in
Compression Ring	0.0000 in

All Calculations are to be in the Corroded Condition

Pacific Tank and Construction, Inc.
P.O. Box 310
San Juan Capistrano, CA 92693

Customer:
AECOM
Tank Size:
124 x 30 CRT
Date: 01-03-2020 Rev.: 0

Weights

	New (lbf)	Corroded (lbf)
Product:	16422584.4172	16422584.4172
Total Shell Plates:	177739.2565	177739.2565
Total Bottom Plates:	123962.6288	123962.6288
Total Roof Plates:	123726.2211	123726.2211
Total Live Load:	241525.6432	241525.6432
Total Snow Load:	301907.0540	301907.0540
Total Additional Dead Load:	0.0000	0.0000
Shell Insulation:	0.0000	0.0000
Roof Insulation:	0.0000	0.0000
Total Rafters:	71801.6124	71801.6124
Total Roof and Framing:	195527.8335	195527.8335
Total Shell Appurtenances:	0.0000	0.0000
Total Roof Appurtenances:	0.0000	0.0000
Total Roof Appurtenances acting on Shell	0.0000	0.0000
Live Load acting on Shell:	111262.5988	111262.5988
Snow Load acting on Shell:	139078.2485	139078.2485
Total of Roof acting on Shell:	56799.5567	56799.5567
Total of Roof Structural acting on Shell:	27474.7954	27474.7954
Total Compression Ring and Shell Stiffener	2804.8139	2804.8139

Pacific Tank and Construction, Inc.
P.O. Box 310
San Juan Capistrano, CA 92693

Customer:
AECOM
Tank Size:
124 x 30 CRT
Date: 01-03-2020 Rev.: 0

Seismic Calculations

Tank diameter (D): 124.0000 ft
Product Height (H): 21.5000 ft
Specific Gravity (G): 1.0000

Tank is self-anchored

Mapped spectral response acceleration (S_s): 1.5000 g
Mapped spectral response acceleration (S_1): 0.5990 g

Vertical earthquake acceleration coefficient (A_v): 0.1400 g

Site Class per Table 25 : D
Seismic Use Group per 13.2.1 : III

From Table 26, $F_a = 1.0000$
From Table 27, $F_v = 1.5000$
From Table 24, $I_E = 1.5000$
From Table 28, $R_i = 2.5000$
From Table 28, $R_c = 1.5000$

Scaling factor per 13.2.7.3, $U = 2/3$

Per Eq. 13-7, $S_{DS} = U F_a S_s = (2/3) (1.0000) (1.5000) = 1.0000$
Per Eq. 13-8, $S_{D1} = U F_v S_1 = (2/3) (1.5000) (0.5990) = 0.5990$

$q = 32.2000 \text{ ft/s}^2$

13.5.1 First Mode Sloshing Wave Period

Per Eq. 13-22: $T_c = 2\pi \sqrt{\frac{D}{\{3.68g \tanh\left(\frac{3.68H}{D}\right)\}}}$

$$2\pi \sqrt{\frac{124.0000}{\{(3.68)(32.2000) \tanh\left(\frac{(3.68)(21.5000)}{124.0000}\right)\}}} = 8.5617$$

Pacific Tank and Construction, Inc.
P.O. Box 310
San Juan Capistrano, CA 92693

Customer:
AECOM
Tank Size:
124 x 30 CRT
Date: 01-03-2020 Rev.: 0

Per Eq. 13-9, $S_{ai} = S_{ds} = 1.0000$

Impulsive spectral acceleration parameter:

$$\text{Per Eq. 13-17: } A_i = \frac{S_{ai} I_E}{1.4 R_i} = \frac{(1.0000)(1.50)}{1.4(2.5000)} = 0.4286$$

$$\text{and } A_i \geq \frac{0.36 S_{d1} I_E}{R_i} = \frac{0.36(0.5990)(1.50)}{2.5000} = 0.1294$$

Therefore, $A_i = 0.4286$

Convective spectral acceleration parameter:

From Figure 19, $T_L = 8.0000$

Per 13.2.7.3.2, $K = 1.5$

$T_c > T_L$, Per Eq. 13-13

$$S_{ac} = \frac{K T_L S_{d1}}{T_c^2} = \frac{(1.5)(8.0000)(0.5990)}{(8.5617)^2} = 0.0981$$

$$\text{Per Eq. 13-18, } A_c = \frac{S_{ac} I_E}{1.4 R_c} = \frac{(0.0981)(1.5000)}{(1.4)(1.5000)} = 0.0700$$

Per 13.5.2.2.1

$$D/H = 124.0000/21.5000 = 5.7674$$

Weights:

$$W_s = 180544 \text{ lbs}$$

$$W_f = 123963 \text{ lbs}$$

$$W_r = \text{Roof weight} = 195528 \text{ lbs}$$

$$W_t = 16422584 \text{ lbs}$$

$$D/H \geq 1.333$$

$$\text{Per Eq. 13-24, } W_i = \frac{\tanh(0.866 D/H)}{0.866 D/H} \quad W_t = \frac{\tanh(0.866 * 5.7674)}{0.866 * 5.7674} (16422584) = 3287763 \text{ lbs}$$

$$\text{Per Eq. 13-26, } W_c = 0.230 D/H \tanh(3.67 H/D) W_t = (0.230)(5.7674) [\tanh(3.67/5.7674)] (16422584) = 12251655 \text{ lbs}$$

Pacific Tank and Construction, Inc.
P.O. Box 310
San Juan Capistrano, CA 92693

Customer:
AECOM
Tank Size:
124 x 30 CRT
Date: 01-03-2020 Rev.: 0

Per 13.5.3.1, Eq. 13-31

$$V_f = \sqrt{\{ [A_i(W_s + W_r + W_f + W_i)]^2 + [A_c W_c]^2 \}} =$$

$$\sqrt{\{ [(0.4286)(180544 + 195528 + 123963 + 3287763)]^2 + [(0.0700)(12251655)]^2 \}}$$

$$= 1836199 \text{ lbs}$$

Per 13.5.2.2.2

$$D/H \geq 1.333$$

$$\text{Per Eq. 13-28, } X_i = 0.375H = (0.375)(21.5000) = 8.0625 \text{ ft}$$

$$\text{Per Eq. 13-30, } X_c = \left[1.0 - \frac{\cosh(3.67H/D) - 1}{3.67H/D \sinh(3.67H/D)} \right] H =$$

$$\left[1.0 - \frac{\cosh(3.67/5.7674) - 1}{(3.67/5.7674) \sinh(3.67/5.7674)} \right] (21.5000) = 11.0986 \text{ ft}$$

Per 13.5.3.2.2

$$D/H \geq 1.333$$

$$\text{Per Eq. 13-33, } X_{imf} = 0.375 \left[1.0 + 1.333 \left(\frac{(0.866D/H)}{\tanh(0.866D/H)} - 1.0 \right) \right] H =$$

$$0.375 \left[1.0 + 1.333 \left(\frac{(0.866 * 5.7674)}{\tanh(0.866 * 5.7674)} - 1.0 \right) \right] (21.5000) =$$

$$(21.5000) = 50.9987 \text{ ft}$$

$$\text{Per Eq. 13-35, } X_{cmf} = \left[1.0 - \frac{\cosh(3.67H/D) - 1.937}{3.67H/D \sinh(3.67H/D)} \right] H =$$

$$\left[1.0 - \frac{\cosh(3.67/5.7674) - 1.937}{(3.67/5.7674) \sinh(3.67/5.7674)} \right] (21.5000) = 57.6454 \text{ ft}$$

Per 13.5.2.1, Eq. 13-23

$$M_s = \sqrt{\{ [A_i(W_i X_i + W_s X_s + W_r H_t)]^2 + [A_c(W_c X_c)]^2 \}} =$$

$$\sqrt{\{ [0.4286(3287763 * 8.0625 + 180544 * 13.1836 + 195528 * 30.0000)]^2 +$$

$$[0.0700(12251655 * 11.0986)]^2 \}} = 17679123 \text{ ft-lbs}$$

Per 13.5.2.2, Eq. 13-32

$$M_{mf} = \sqrt{\{ [A_i(W_i X_{imf} + W_s X_s + W_r H_t)]^2 + [A_c(W_c X_{cmf})]^2 \}} =$$

$$\sqrt{\{ [0.4286(3287763 * 50.9987 + 180544 * 13.1836 + 195528 * 30.0000)]^2 +$$

$$[0.0700(12251655 * 57.6454)]^2 \}} = 90172891 \text{ ft-lbs}$$

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Self-anchored tank (new condition)

Per 13.5.4.2.1

$$\begin{aligned} W_s &= 180544 \text{ lbs} \\ w_{rs} &= 216.3335 \text{ lbf/ft} \\ t_b &= 0.2500 \text{ in} \\ t_s &= 0.5000 \text{ in} \\ w_t &= W_s/(\pi D) + w_{rs} = 180544/(\pi * 124.0000) + 216.3335 \\ &= 679.7929 \text{ lbf/ft} \end{aligned}$$

Per Eq. 13-37,

$$\begin{aligned} w_L &= 7.9 t_b \sqrt{(F_y H G)} = \\ &= (7.9)(0.2500) \sqrt{[(36000.0000)(21.5000)(1.0000)]} = 1737.5511 \text{ lbf/ft} \\ &\leq 1.28 H D G = (1.28)(21.5000)(124.0000)(1.0000) = 3412.4800 \text{ lbf/ft} \\ &\text{therefore, } w_L = 1737.5511 \text{ lbf/ft} \end{aligned}$$

$$\begin{aligned} J \text{ per Eq. 13-36} &= \frac{M_s}{D^2 [w_t (1.0 - 0.4 A_v) + w_L]} = \\ &= \frac{17679123}{(124.0000)^2 [679.7929 (1.0 - (0.4)(0.1400)) + 1737.5511]} = 0.483 \end{aligned}$$

Shell compression per Eq. 13-39 where $J < 0.785$

$$\begin{aligned} \sigma_c &= [w_t (1 + 0.4 A_v) + 1.273 M_s / D^2] / (12 t_s) = \\ &= [679.7929 (1 + (0.4)(0.1400)) + (1.273)(17679123) / (124.0000)^2] / (12 * 0.5000) = \\ &= 363.5900 \text{ psi} \end{aligned}$$

Allowable Compression Stresses in Shell per 13.5.4.2.4

$$\begin{aligned} R &= 12D/2 = 12 * 124.0000/2 = 744.0000 \text{ in} \\ (t/R)_c \text{ for Material Class 2} &= 0.0035372 \text{ (per 3.4.3.1)} \end{aligned}$$

For new condition:

$$t/R = 0.5000/744.0000 = 0.0007$$

$$0 \leq t/R \leq (t/R)_c$$

$$\begin{aligned} \text{Per Eq. 3-11, } F_L &= 1750000 t/R [1 + 50000 (t/R)^2] = \\ &= (1750000)(0.0007) [1 + 50000(0.0007)^2] = 1202.6335 \text{ psi} \end{aligned}$$

$$P = 0.4330 H G = (0.4330)(21.5000)(1.0000) = 9.3095 \text{ psi}$$

$$E = 29000000 \text{ psi}$$

$$(P/E)(R/t)^2 = (9.3095/29000000)(744.0000/0.5000)^2 = 0.7108$$

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For $(P/E) (R/t)^2 > 0.064$ per Eq. 13-51

$$\begin{aligned}\Delta C_c &= 0.045 \ln[(P/E) (R/t)^2 + 0.0018] + 0.194 = \\ &0.045 \ln[0.7108 + 0.0018] + 0.194 = 0.1788 \\ &\text{but not greater than } 0.22 \\ \Delta C_c &= 0.1788\end{aligned}$$

Per Eq. 13-49

$$\Delta \sigma_{cr} = \Delta C_c E t / R = (0.1788) (29000000) (0.5000) / 744.0000 = 3483.7236$$

Per Eq. 13-47

$$\begin{aligned}\sigma_e &= 1.333 (\sigma_a + \Delta \sigma_{cr} / 2) = \\ &1.333 (1202.6335 + 3483.7236 / 2) = 3925.0123 \text{ psi}\end{aligned}$$

Freeboard requirements per 13.5.4.4

For $T_c > T_L$ per Eq. 13-56

$$A_f = K_{SD1} (T_L / T_c^2) = (1.5) (0.5990) (8.0000 / 8.5617^2) = 0.0981$$

$$\text{Per Eq. 13-52, Wave Height : } \delta_s = 0.5 D A_f = (0.5) (124.0000) (0.0981) = 6.0796 \text{ ft}$$

Available freeboard is adequate.

$$\text{Per Table 29, minimum freeboard} = 1.0 \delta_s = (1.0) (6.0796) = 6.0796 \text{ ft}$$

Tank resistance to sliding per Eq. 13-57

$$\begin{aligned}V_s &= \tan 30 (W_s + W_r + W_i + W_c) (1.0 - 0.4 A_v) = \\ &\tan 30 (180544 + 195528 + 3287763 + 12251655) (1.0 - 0.4 * 0.1400) \\ &= 8674263 \text{ lbs}\end{aligned}$$

$$V_f = 1836199 \text{ lbs}$$

Tank is stable against sliding.

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Foundation Loads

Dead Load = 680 lbf/ft
Dead Load + Live Load = 965 lbf/ft
Dead Load + Snow Load = 1,037 lbf/ft
Wind Load + Dead Load = 781 lbf/ft

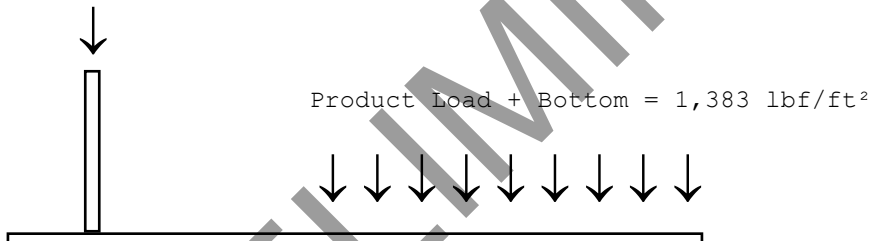
(Wind Foundation Moment = 1,228,269 ft-lbs)
(Wind Horizontal Force = 74,299 lbs)

Seismic Load + Dead Load (ringwall foundation) = 2,182 lbf/ft
Seismic Load + Dead Load (slab foundation) = 8,183 lbf/ft

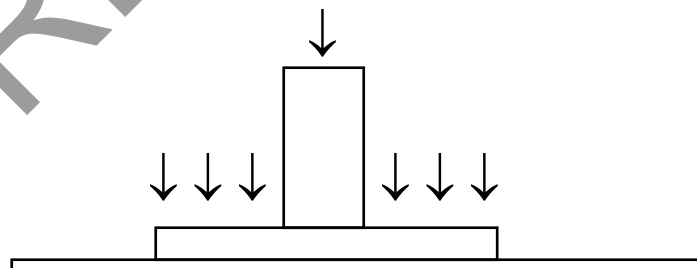
(Note: For Seismic the dead load has a portion of the vertical acceleration added to it and includes a portion of the snow load)

(Seismic Overturning Moment (ringwall) (M_{rw}) = 17,679,123 ft-lbs)
(Seismic Overturning Moment (slab) (M_s) = 90,172,891 ft-lbs)

(Seismic Horizontal Force = 1,836,199 lbs)



Center Column Load = 37,197 lbs

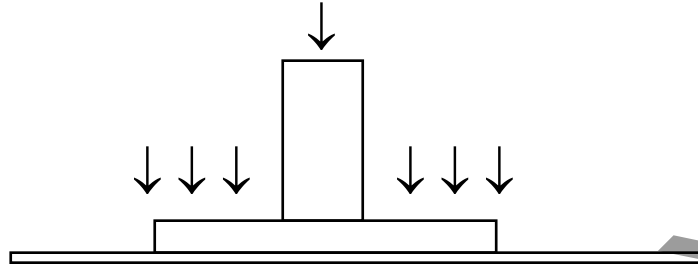


Base Plate Area = 16.00 ft²
Base Plate Load = 2,325 lbf/ft²

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Outer Column Load = 51,645 lbs



Base Plate Area = 20.25 ft²
Base Plate Load = 2,550 lbf/ft²

Total Weight of Tank: 518,796 lbs
Total Operating Weight: 16,941,380 lbs
Total Testing Weight: 16,941,380 lbs

PRELIMINARY